

INTERNATIONAL RESCUE COMMITTEE, (IRC) INC. Uganda Program

CONSTRUCTION OF HEALTH UNIT AT YAYARI HEALTH CENTRE III IN BIDIBIDI REFUGEE SETTLEMENT CAMP IN KOCHI SUB-COUNTY, YUMBE DISTRICT

RFP REFERENCE NUMBER: IRC/SU/YU/004

Planned Timetable			
Issue ITT	25/9/2017		
Questions from Supplier due date	4/10/2017		
Deadline for reply to Supplier's questions	6/10/2017		
Deadline to receive bids	10/10/2017 before 4pm (East African time)		
Evaluation of ITT	11/10/2017		
Supplier visit	13/10/2017 to 16/10/2017		
Award of Contracts	16/10/2017		
Contract start	17/10/2017		

SEPTEMBER 2017

INTRODUCTION

1.0 Background

The International Rescue Committee (IRC) intends to use part of its fund Construction of Health Unit comprising of OPD, Maternity, and General ward, Nutrition Unit, Isolation unit and staff house at Yayari Health Centre III in Kochi Sub-County, Yumbe District.

2.0 Scope of Work

Yayari Health Centre III is located in Kochi Sub-County, Yumbe District. The works include Construction of Health Unit as per drawings attached. The structures shall be placed at an agreed position on a piece of land allocated by Office of Prime Minister (OPM).

(SEE TECHNICAL SPECIFICATIONS FOR FURTHER DETAILS)

THE EMPLOYER RESERVES THE RIGHT TO ALTER, REDUCE OR INCREASE THE SCOPE OF WORKS AS WELL AS CHANGING THE SITES, PROVIDED THAT THEY SHALL BE IN YUMBE DISTRICT.

The Employer shall be **THE INTERNATIONAL RESCUE COMMITTEE**, and the Employer or a Supervisor appointed by the Employer shall supervise the Contract.

CONDITIONS OF TENDER AND INSTRUCTIONS TO TENDERERS

Note: The Tenderers must comply with the following conditions and instructions. Failure to do so may result in rejection of the Tender.

A. GENERAL

1.0 **DEFINITIONS**

1.1 Tenderer means a firm or company submitting a sum or sums in the Bills of Quantities in accordance with the Conditions of Tender and Instructions to Tenderers, Conditions of Contract, Contract Data, Technical Specifications and Drawings, for the work contemplated, acting directly or through a legally appointed representative

Approved Tenderer means the Tenderer who has been approved by the Employer by means of pre-qualification.

Employer means the party who employs the Contractor to carry out the works and where **customer** is used shall mean the same.

Supervisor means the person appointed by the Employer, and responsible for supervising and administering the Contract on behalf of the Employer.

Contract means the binding agreement between the Employer and the Contractor to execute and complete the Works.

Works means what the Contract requires the Contractor to construct.

Contractor means a corporate body whose tender to carry out the Works has been accepted by the Employer.

Where one gender is used it also implies the other.

2.0 SCOPE OF TENDER

- 2.2 The successful Tenderer (s) will be expected to complete the Works within the period stated in the Form of Tender.

3.0 SCOPE OF WORKS

The Sites of the Works are located in **Yumbe District**, **Kochi Sub-county** and as shown in the drawings.

The Works to be executed under the Contract are as defined in the specifications attached here to.

4.0 ELIGIBLE TENDERERS

4.1 Only firms that have **valid legal documents** as stipulated in the bid data sheet are eligible to bid.

5.0 ONE TENDER PER TENDERER

5.1 Each Tenderer shall submit only one Tender. A Tenderer who submits or participates in more than one Tender (other than alternatives that have been permitted or requested) will be disqualified.

6.0 COST OF TENDERING

6.1 The Tenderer shall bear all costs associated with the preparation and submission of a Tender and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.

7.0 SITE INSPECTION

7.1 The Tenderer is **REQUIRED** to visit and examine the Sites of Works and their surroundings and obtain for himself, at his own expense, all information that may be necessary for preparing the bids and entering into a Contract. The Tenderer shall be fully responsible for the reliability and accuracy of all information so obtained.

B. TENDER DOCUMENTS

8.0 CONTENTS OF TENDER DOCUMENTS

- 8.1 The Tender Documents issued for the purpose of Tendering include the following, together with any amendments:-
 - Conditions of Tender and Instructions to Tenderers
 - Form of Tender
 - Form of Contract
 - Conditions of Contract.
 - Technical Specifications
 - Drawings
 - Bills of Quantities
- 8.2 The Tenderer is required to examine carefully all instructions, conditions, forms, terms, specifications and drawings in the Tender Documents. Failure to comply with the

requirements for Tender submission will be at the Tenderers own risk. Tenders that are not substantially responsive to the requirements of the Tender Documents will be rejected.

8.3 All recipients of the documents for the proposed Contract for the purpose of submitting a Tender (whether they submit a Tender or not) shall treat the details of the documents as "Private and Confidential".

C. PREPARATION OF TENDERS

9.0 LANGUAGE OF TENDER

9.1 The Tender prepared by the Tenderer and all correspondence and documents relating to the Tender exchanged by the Tenderer and the Employer shall be written in the English language.

10.0 DOCUMENTS COMPRISING THE TENDER

- 10.1 The Tender to be prepared by the Tenderer shall comprise the following documents, duly filled, signed and <u>ARRANGED IN THE ORDER LISTED BELOW (Failure to arrange them in the order stipulated may lead to disqualification or loss of marks during evaluation)</u>
 - (a) Intent to Bid (signed and Stamped)
 - (b) The Form of Tender
 - (c) Contract Data
 - (d) Certified or colour copy of trading license
 - (e) Certified or colour copy of income tax clearance
 - (f) Copy of VAT registration certificate
 - (g) Registered Powers of Attorney (if addressed to IRC should be original and if general it should be certified by registrar of companies or be a colour copy)
 - (h) Schedule I Tenderer's Programme of Works
 - (i) Schedule II Tenderer's Key Personnel
 - (j) Schedule III Tenderer's machinery
 - (k) Schedule IV Tenderer's Basic Prices and Rates
 - (l) Certificate of Site Inspection duly endorsed by local area representative (subcounty chief, LC III chairperson etc)

- (m) The Priced Bills of Quantities (STAMPED ON EACH PAGE)
- (n) Tenderers qualification information; company profile, financial ability, experience etc
- 10.2 The Forms, Bills of Quantities and Schedules provided in these Tender Documents shall be used without exception (subject to extensions of the Schedules in the same format).

11.0 TENDER PRICES

- 11.1 All the insertions made by the Tenderer shall be made in **INDELIBLE INK** and the Tenderer shall clearly form the figures and shall not insert any extra item or otherwise alter the Bills of Quantities. The relevant space in the Tender Form and Bills of Quantities shall be completed accordingly without interlineations or erasures except those necessary to <u>correct errors made by the Tenderer, in which case the person or persons signing the Tender shall initial the erasures and interlineations.</u>
- 11.2 The Tenderers shall fill in rates and prices for all items of the Works described in the Bills of Quantities. All entries shall be in actual amounts and not ratios or percentages. Items for which no rate or price is entered by the Tenderer will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bills of Quantities.
- 11.3 The prices and rates in the Bills of Quantities are to be the full, inclusive value for all labour, materials, equipment, construction plant, temporary works and all other matters, things, obligations, liabilities and risks which are necessary for the successful execution and completion of the Works as set forth or implied in the Tender Documents.
- 11.4 Each price or unit rate inserted in the Bills of Quantities should be a realistic estimate for completing the activity or activities described under that particular item and the Tenderer is advised against inserting a price or rate against any item contrary to this instruction. Rates should not be of such nature as to distort the comparison of Tenders or to result in interim payments that are disproportionate to the value of work done.
- 11.5 Every rate entered in the Bills of Quantities, whether or not such rate be associated with a quantity, shall be carried to the Tender Summary and incorporated in the sum named in the Tender, shall form part of the Tender and in the event of acceptance of the Tender, shall form part of the Contract.
- 11.6 All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, prevailing 14 days prior to the latest date for submission of Tenders, shall be included in the rates, prices and Total Tender Price submitted by the Tenderer, and the evaluation and comparison of Tenders by the Employer shall be made accordingly.
- 11.7 The rates and prices quoted in the priced Bills of Quantities are not subject to adjustment for the duration of the Contract.

12.0 CURRENCIES OF TENDER AND PAYMENT

12.1 The unit rates and the prices shall be quoted by the Tenderers entirely in **Uganda** Shillings.

13 TENDER VALIDITY

- 13.1 Tenders shall remain valid and open for acceptance for a period of **90 days** after the latest date for submission of Tenders, or as otherwise prescribed in the Letter of Invitation to Tender.
- 13.2 In exceptional circumstances, prior to expiry of the original Tender validity period, the Employer may request the Tenderer(s) for a specified extension in the period of validity. The request and the responses thereto shall be made in writing or by cable, e-mail, telex or telefax. A Tenderer may refuse the request without forfeiting his Tender Security.
 - A Tenderer agreeing to the request will not be required nor permitted to modify his Tender, but will be required to extend the validity of his Tender Security correspondingly. The provisions regarding discharge and forfeiture of the Tender Security shall continue to apply during the extended period of Tender validity.
- 13.3 The successful Tenderer shall remain bound by his Tender for a further period of **30 days** following the receipt of the communication notifying him of his selection.

14.0 TENDERER'S PROGRAMME

- 14.1 The Tenderer shall supply a schedule (Schedule I) with charts showing details of his proposed Work program for undertaking the Works. The program shall depict the time in months/weeks anticipated for undertaking all significant operations, and shall be deemed to start from the Start Date as defined in the Contract Data. Details should include but not be necessarily limited to:
 - (a) Periods of occupation of individual construction localities.
 - (b) The relationship and timing of each operation to other operations within the Contract.
 - (c) Allocation and use of labour.
- 14.2 For the purpose of preparing this program the Tenderer shall assume that an award of Contract will be made within **90 days** after the date for submission of Tenders.
- 14.3 The program must be consistent with the details shown in the other Schedules and shall make allowance for the rainy seasons or unfavorable weather that may hinder access to or progress at the site.

14.4 The program shall form a part of the Contract if the Tender is accepted. Any change in the program shall be subject to the approval of the Employer or his appointed Supervisor.

15.0 PRE-TENDER MEETING

- 15.1 The purpose of this is to clarify items in the Tender Documents, and any matters that may be raised as a result of the Site Inspection visit and the Tendering process.
- 15.2 The Tenderer is requested to submit any questions to be raised at this meeting in writing or by cable, e-mail UA-WestNile.Procurement@rescue.org copy to reach the Employer not later than 3 working days before submission deadline.

Any modification of the Tender Documents listed in Clause 10 which may become necessary as a result of the pre-Tender meeting, shall be made by the Employer exclusively through the issuance of a Tender Addendum pursuant to Clause 12, and not by means of the minutes of the pre-Tendering meeting.

16.0 FORMAT AND SIGNING OF TENDERS

- 16.1 The Tenderer shall prepare the documents comprising the Tender as described in the Instructions to Tenderers, clearly marked "Original Tender" as appropriate. Drawings need not be included with the "Copy of Tender".
- 16.2 The complete Tender shall be without alterations, interlineations or erasures, except those in accordance with instructions issued by the Employer, or as necessary to correct errors made by the Tenderer, in which case such corrections shall be initialed immediately adjacent to the correction by the person or persons signing the Tender.

D. SUBMISSION OF TENDERS

17.0 SEALING AND MARKING OF TENDERS

The Tenderer shall seal the original copy of the bid each in an inner envelope duly marking the envelopes as "ORIGINAL" as appropriate all enclosed in an outer envelope.

The outer envelope shall be addressed:

The Procurement Committee International Rescue Committee,

And shall bear the following identification: "TENDER FOR CONSTRUCTION OF HEALTH UNIT AT YAYARI HEALTH CENTRE III IN KOCHI SUB-COUNTY, YUMBE DISTRICT

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18.0 DEADLINE FOR SUBMISSION OF TENDERS

- 18.1 Tenders must be received by the Employer at **IRC Kampala Office** (**Reception area**) on the date and time as specified in the IFB. Proof of posting will not be accepted as proof of delivery, and any Tender delivered after the above-stipulated time, from whatever because arising will not be considered.
- 18.2 The Employer may, at his discretion, extend the deadline for the submission of Tenders through the issue of an amendment in which case all rights and obligations of the Employer and the Tenderers subject to the previous deadline shall thereafter be subject to the new deadline as extended.

19.0 LATE TENDERS

19.1 Any Tender received by the Employer after the prescribed deadline for submission of Tender as defined in Clause 24 will be returned unopened to the Tenderer.

E. TENDER EVALUATION

20.0 EVALUATION AND COMPARISON OF TENDERS

The Employer will evaluate and compare only those Tenders determined to be substantially responsive to the requirements of the Tender Documents.

- 20.1 In evaluating Tenders, the Employer will determine for each Tender the Evaluated Tender Price by adjusting the Tender Price as follows:
 - (a) Making any correction for errors.
 - (b) Excluding fixed Provisional Sums and the provision, if any, for Contingencies in the Bills of Quantities.

F. AWARD OF CONTRACT

21.0 EVALUATION CRITERIA

21.1 The Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive as per section 7 above will be considered for the evaluation process with the below scoring criteria.

TECHNICAL EVALUATION CRITERIA	DESCRIPTION	WEIGHT (%)
Availability	Refers to availability for immediate delivery after being contracted to start the works.	5%
Staff Capacity	Refers to the technical experience of the responsible civil engineers and those individuals who are assigned to this project.	10%
Past experience	Refers to bidders' ability to demonstrate relevant experience and technical knowledge of the services required, experience working with IRC and other INGOs.	15%
Supplier visit	To ascertain the physical location, availability of a functional office and registration with Uganda Institute of Professional Engineers.	5%
Eligibility	Refers to Bidder's ability to demonstrate that they have valid business registration, tax certificate/registration as required by local law.	10%
Recommendation	Refers to successful reference checks.	10%
FINANCIAL EVALUATION CRITERIA	DESCRIPTION	WEIGHT (%)
Delivery Terms	Refers to Bidder providing most advantageous delivery schedule	10%
Payment Terms	Refers to bidder providing the most favorable terms of payment. The Purchaser payment terms are to pay within 30 calendar days of acceptance of services and receipt of invoice.	5%
Financial Proposal	Most competitive offer as per price list	30%
TOTAL% SCORE		100%

21.0 AWARD CRITERIA

21.1 The Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive to the Tender Documents, has offered the lowest evaluated Tender Price, provided further that the Tenderer still has the capability and resources to effectively carry out the Contract or, can assure work is of higher and guaranteed quality.

22. EMPLOYER'S RIGHT TO ACCEPT OR REJECT ANY OR ALL TENDERS

22.1 The Employer reserves the right to accept or reject any tender, and to annul the tendering process and reject all Tenders, at any time prior to award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligations to inform the affected Tenderer or Tenderers of the grounds for the Employer's action.

22.2 The contractor shall not make any payment whether in kind or cash to any, IRC employee that could be construed as influencing or rewarding the outcome of the award process. Any such payment will render this contract null and void and all payments due will be withheld. You will also be prohibited from ever contracting with IRC Uganda.

23. NOTIFICATION OF AWARD

23.1 Prior to the expiration of the period of Tender validity prescribed by the Employer under the Employer shall notify the successful Tenderer by issue of a Letter of Acceptance that his Tender has been accepted.

The Letter of Notification of Award shall name the sum which the Employer will pay to the Contractor in consideration of the execution and completion of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called "the Contract Price") and conditions which have to be met before signing of the contract.

24.0 PREPARATION OF CONTRACT DOCUMENT

- 24.1 After communication of the result of the Tender, the Employer will prepare the Contract document for submission to the successful Tenderer for signature. This document shall include at least the following:
 - (a) A list of documents comprising the Contract, specifying the order of precedence of the documents;
 - (b) Any agreed additions to and derogations from these documents;
 - (c) The Contract Price;
 - (d) Any corrections made by the Employer.

25.0 SIGNING OF AGREEMENT

25.1 The successful Tenderer shall sign the Contract Form of Agreement and return it to the Employer within 4 days of receipt of the Letter of Notification of Award.

26.0 ADJUDICATOR

26.1 The Employer proposes the person named in the Contract Data to be appointed as Adjudicator under the Contract, at an hourly fee specified in the Contract Data, plus reimbursable expenses. If the Tenderer disagrees with this proposal, he should so state with reasons in his Tender and make a counter proposal. In the case of disagreement between the Employer and the Contractor of the choice of Adjudicator, the Adjudicator shall be appointed by negotiation between both parties prior to signature of the Contract.



INTERNATIONAL RESCUE COMMITTEE, (IRC) INC. Uganda Program

CERTIFICATE OF PRE-TENDER SITE INSPECTION

This is to Certify that Mr/Mrs/Ms/Eng.	
(Firm) on	n of the proposed site(s) of the
This further certifies that the Tenderer is fully conversant information necessary for preparing the Tender and entering into of all Works according to the Specifications and the Programme	to a Contract for the completion of for Work.
(Name)	(Signature)
(Designation)	
duly authorized to sign Tenders on behalf of	
Date:	
Note: This form should be competed and submitted with the Te	ender.

FORM OF TENDER

To: The Supply Chain Office, International Rescue Committee, Yumbe Field Office

Dear Sir/ Madam,

Or

1.	Having examined the drawings, Conditions of Contract, Specifications and Bills of Quantities and Tender Addenda Nos
	having confirmed inspection of the Site for the Works described in these documents by signature of the Certificate of Site Inspection, we, the undersigned, offer to construct,
	complete and remedy defects of the whole of the said Works in conformity with the said documents for the sum of
	(Amount in words)
	(Amount in figures) or other such sum as may be ascertained in accordance with the said Conditions of Contract.
2.	We undertake, if our Tender is accepted, to commence the Works within
	Days/weeks from receipt of the Employers order to commence, and to complete and deliver the whole of the Works comprised in the Contract within a period of weeks, as indicated in the Contract Data calculated from the Start Date.
3.	If our Tender is accepted, we shall, within 4 days of receipt of the Letter of Acceptance of our tender, sign the Contract Form of Agreement and return it to the Employer.
4.	We agree to abide by this Tender for a period of ninety (90) days from the last date fixed for receiving the same, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5.	Unless and until a formal Agreement is prepared and executed, this Tender, together with written acceptance thereof, shall constitute a binding Contract between us.
6.	We understand that you are not bound to accept the lowest or any tender you may receive.
7.	We are fully experienced and competent in the type of work described in these Tender Documents and we have adequate technical resources to carry out the Works by the Intended Completion Date indicated in the Contract Data.
8.	We are in position to fulfill all the Contract requirements in the event of our being awarded the Contract for which we have tendered.
9.	We accept the appointment of

Construction of Health Centre HCIII

We propose the appointment of	as the Adjudicator.
Dated this Day of	20
Yours faithfully,	
(Name)	(Signature)
In the capacity of	, duly authorized to sign Tenders
On behalf of(in	block letters)
Witnessed by:	
(Name)	(Signature)



International Rescue Committee P.O. Box 24672, Plot 7, Lower East Naguru Road, Kampala, Uganda Tel. 041-286212, Fax 041-286219 E-mail: ircuganda@uganda.theIRC.org Registered in Uganda S.5914/2353. Certificate Number 2165

Date					
To:					
Dear Sirs, RE: NOTIFIC	ATION OF A	WARD			
This is to notify you that y	our Tender d	ated	for constru	action of Health	Unit at
Yayari Bidibidi Refuge	e Settlemen	t Kochi Sul	o-county, District	under Contra	ict No.
	for	the	Contract	Price	of
(Amount					
corrected and modified in on	(Date) is here the following of ance guarante risk Insurance uivalent to 10 30% advance	eby accepted locument from the equal to 10° are equivalent to 10° of the confidence.	by our Agency. You a reputable insurus of the contract value	ou are directed to ance company; value ract value	furnish
Yours faithfully,					
Authorized					
Signature:					
Name:	• • • • • • • • • • • • • • • • • • • •		······		
Title of Signatory:					



International Rescue Committee
P.O. Box 24672,
Plot 7, Lower East Naguru Road,
Kampala, Uganda
Tel. 041-286212, Fax 041-286219
E-mail: ircuganda@uganda.thelRC.org
Registered in Uganda S.5914/2353.
Certificate Number 2165

FORM OF CONTRACT/DRAFT CONTRACT

CONTRACT FOR CONSTRUCTION OF HEALTH CENTRE III AT BIDIBIDI REFUGEE SETTLEMENT CAMP IN KOCHI SUB-COUNTY, YUMBE DISTRICT.
<u>Ref:</u>
This contract defines the terms of sale of Services BETWEEN
by (Person named in powers of attorney).
AND
International Rescue Committee, Plot 7 Lower Naguru East Road PO Box 24672 Kampala, Uganda (Customer), represented by:
NOW THIS AGREEMENT WITNESSETH as follows:
The Customer hereby contracts the Contractor to perform: construction of a Health Unit at Bidibidi Refugee Settlement Camp in Kochi Sub-County, Yumbe District (herein called the "works") according to the BOQ and specifications agreed between the Customer and the Contractor, and attached to the present contract therefore being an integral part of it
AND
The Contractor hereby agrees to execute the works as per the terms of contract unless otherwise varied by special written instructions from the Customer
IT IS HEREBY AGREED as follows:

1.1 WORK

The work on the project shall be executed as per the provisions and specifications contained in the BOQ submitted and other schedules attached as integral parts to this agreement.

1.2 WORK SCHEDULE

The **Contractor** shall furnish the **Customer** with details of their work; this shall include weekly activities and programs at the site e.g. mobilisation, supply of materials, setting out, other construction works.

1.3 CUSTOMER SUPERVISION

The **Customer** representative is in charge of supervising the activities at the work site. Any change or modification of the bill of quantities and/or quotations, including variation of the price and quantities of work must be endorsed in advance by the **Customer** representative. The authorized representative is

1.4 **VOLUME OF WORK**

The **Customer** may increase or decrease the volume of work awarded to the **Contractor** without assigning any reason whatsoever. This shall result in a corresponding adjustment of the **Contractor**'s compensation. The **Contractor** shall, however, be informed in writing of the decision so taken to increase or to reduce the volume of work.

After completion of the works, **the Customer** may assign additional work to be done by the **Contractor**, provided that the total amount of the construction cost is found less than the estimated contract value. The construction and additional work value shall not exceed the estimated value of the contract. The **Contractor** shall, however, be informed in writing of the decision so taken to increase the volume of work.

1.5 QUALITY OF WORK

All the works shall be executed in accordance with the specifications, by ensuring maintenance of good workmanship and proper choice of equipment, processes and materials to be used on the project.

Any sub-standard work originating from poor workmanship and/or the use of inferior materials shall be rejected and the **Contractor** shall demolish the same and remove the debris from the site at their own cost. The **Contractor** shall be required to make good any losses, which may have been caused in the course of such demolition and any costs incurred as a result.

1.6 COMPLETION PERIOD

The **Contractor** shall hand over the completed work to the **Customer** **Days** after the final signature of the contract.

1.7 THE CUSTOMER MAY EXTEND THE COMPLETION DATE OF WORKS PROVIDED THAT:

The **Contractor** requests the **Customer** in writing, detailing all circumstances that would necessitate such extension to the satisfaction of the **Customer**

Occurrence of unforeseen circumstances such as war and/or civil disorder, which may contribute to delay in the execution of the work, shall be communicated by the **contractor** as soon as possible and, the **customer** will respond immediately and together agree to vary the duration of contract.

1.8 DELAY AND NON-COMPLETION OF WORK

In the event that the **Contractor** fails to hand over the completed work to the **Customer** as per clause 1.6 and clause 1.7 is not applicable, a penalty of **1/100** of the contract sum, shall be charged to the Contractor for each day of delay in delivering the completed work to the **Customer**

2.0 TERMINATION OF THE CONTRACT

2.1 ARBITRATION

The Customer may terminate the contract if there is any misunderstanding on the mode of execution of the project. Where necessary, neutral arbitrator stated in the contract data and who is acceptable to both the **Customer** and the **Contractor** shall mediate between the two.

2.2 TERMINATION OF CONTRACT

The Contract shall be terminated upon the **Contractor** in the following event;

- a) Failing to show any material progress, or if it is established that the **Contractor** has abandoned the work for a period of **seven** (7) consecutive days without informing the **Customer** in writing.
- b) Failing to follow construction specifications, poor workmanship and lack of coordination including failure to discipline subordinate staff.
- c) Any other reason justifiable to the **Customer**

On termination of the contract, measures shall be taken jointly by **Customer** and the Contractor to determine what is due to each party before payments can be effected for what is due to the **Contractor**. In the event of disagreement between the **Customer** and the Contractor, the Arbitrator's ruling shall be final.

3. PAYMENT FOR CONTRACTED WORK

Upon completion of the work the **Customer** shall pay the **Contractor** the final amount of the contract within 30 (thirty) days after submission and acceptance of the original invoices and the completion certificates.

The final amount to be paid will be calculated according to the executed work and the additional work cost required and accepted by the **Customer**, provided a variation order was issued by the **Customer** to the **contractor** to cover such additional work, including permission to use any contingency cost contained in the approved contract BOQ.

3.1 ADVANCE PAYMENTS

30% advance can be paid to the contractor upon submission of an advance payment guarantee from a reputable insurance company or financial institution.

"Interim payments" can be made upon measurement of works executed, the first certificate not being less than 30% contract works executed, to a maximum of 3 certificates including the final, but excluding retention certificate

3.2 PAYMENT OF FINAL CERTIFICATE

The final certificate shall be paid after **100%** practical completion of work and the final certificate of completion of work has been fully certified and approved by the supervisor appointed by the **Customer**. It should be noted that the cost of materials provided locally by the community will be deducted from the final pay by the Customer on an agreeable calculations based on the prevailing market price.

3.3 INFLATION

Payment to the **Contractor** shall be adjusted in accordance with Uganda Government official inflation figures within the authorized contract period, if such period exceeds **twelve (12)** months.

4.0 WAGES

The **Contractor** shall be responsible for his/her employees' dues, salaries and expenses.

5.0 INSPECTION OF WORK

The **Contractor** ensure that every stage of work is inspected and approved by the **Customer's** authorized agent, provided that the appointed date for the inspection is agreed between the **Contractor** and the **Customer's** technical agent and such an inspection shall not be acceptable as a reason for the delay of the contract or for the poor workmanship.

OTHERS

All the clauses on which this agreement is silent shall be construed to be the same as provided for under

the Laws of the Republic of Uganda to which reference shall be made when necessary in the course of executing this contract.

Total contract price is estimated at	UShs:	(
		In words).

We hereby certify that we have carefully read all the contents of this contract agreement contained in pages and have fully understood its implications and we hereby endorse it.

Construction of Health Centre HCIII

SIGNED on behalf of the Customer	On this day of	200_
Name	Signature	
In the presence of:	On this day of	200_
Name	Signature	
	Position	
SIGNED on behalf of the Contractor	On this day of	200_
Name	Signature	
In the presence of:	On this day of	200_
Name	Signature	
	Position	

APPENDIX TO FORM OF AGREEMENT

With reference to clause 1 of the Form of Agreement, the documents listed below shall be deemed to form part of the Agreement.

- (a) The Form of Agreement and Appendix thereof;
- (b) The Letter of Notification of Award;
- (c) The accepted Bid and schedules I, II, III and IV thereof
- (d) Certificate of Site inspection
- (e) The Contract Data;
- (f) The General Conditions of Contract;
- (g) The Technical Specifications;
- (h) The Layout and Design Drawings
- (i) The Priced Bills of Quantities;
- (j) The Environmental guidelines
- (k) The Advance Payment guarantee (where submitted) equivalent to 30% of the contract value
- (l) Performance insurance guarantee equal to 10% of the contract value
- (m) The contractors all risk Insurance equivalent to 20% of the contract value
- (n) Retention bond equivalent to 10% of the contract value
- (o) The Power of Attorney
- (p) IRC authorization and justice approval

Signed for and on benaif of the said EMPLOYER	
	. (Name and Signature)
In the presence of:	
	. (Name and Signature)
Signed for and on behalf of the said CONTRACTOR	
	. (Name and Signature)
	(Title)
In the presence of:	
	. (Name and Signature)

(Address)



International Rescue Committee
P.O. Box 24672,
Plot 7, Lower East Naguru Road,
Kampala, Uganda
Tel. 041-286212, Fax 041-286219
E-mail: ircuganda@uganda.theIRC.org
Registered in Uganda S.5914/2353.
Certificate Number 2165

(Date)
To:
Dear Sirs,
RE: COMMENCEMENT ORDER
This is to notify you that in accordance Contract No
Health Unit at Yayari Health Center III IN BIDIBIDI REFUGEE SETTLEMEN
CAMP IN KOCHI SUB-COUNTY, YUMBE DISTRICT. You are hereby instructed
proceed with implementation of the Works as per the provisions of the Contract b
(date).
Yours faithfully,
Authorized Signature:
Name:
Title of Signatory:

SCHEDULE I - FORM OF TENDERERS PROGRAMME OF WORKS

The Tenderer should submit his proposed Programme of Work as a separate document in accordance with Clause 14.1 and 19 of the Conditions of Tender and Instructions to Tenderers. The Programme of Work should be presented in narrative and diagrammatic form, and should clearly indicate how the Contractor intends to complete the whole of the Works within the Contract period as stated in the Contract Data. Different sections of the Contract (if appropriate) should be shown separate

1) CONTRACT DATA

of the Letter of Award.

1.	The Employ	ver is:-					
	Name:	THE CO	UNTRY DIRECTOR ATIONAL RESCUR			Σ,	
	Address:	P. O. Box	x 24672, Kampala				
2.	The Superv	isor appointed	by the Employer is:	-			
	Name: Address:		x 24672, Kampala	OR I	DESIGNA	TE	
3.	The Contract	ctor is:-					
	Name:						
	Address:						
4.	The A		Representative			Contractor	is
5.			ract is English.				
6.	The law tha	at applies to the	e Contract is the law	of the Re	public of	Uganda.	
7.	The currence	cy of the Conti	act is Uganda Shillir	ıgs.			
8.	The Start D	ate is					
9.	The Intende	ed Completion	Date is				
10.	The Contra	ctor shall subr	nit a Program of Wo	rk for the	Works w	ithin 3 days of re	eceipt

- 11. The Site Possession Date is **3 days** after signing the contract
- 12. The Sites is located in **Bidibidi Refugee Settlement Camp**, **Kochi Sub-County in Yumbe District**.
- 13. The Defects Liability Period is <u>3 months</u>.
- 14. The Defects Correction Period is **14 days.**
- 15. The maximum liability of the Contractor for property and personal loss and damage is **UShs. 10,000,000/=.**
- 16. The Adjudicator appointed by the Employer and the Contractor is:
 - Name: The President, Uganda Institution of Professional Engineers
 - Address: P.O. Box 1308, Kampala, Uganda
- 17. Arbitration will take place in accordance with the laws of the Republic of Uganda. The adjudication fee to be determined by the arbitrator.
- 18. The period between Work Programme updates is **7 days**.
- 19. The amount to be withheld for late submission of Work Programme updates is **the** amount of the current Interim Certificate.
- 20. The Contract is not subject to price adjustment in accordance with Clause 41 of the Conditions of Contract.
- 21. The portion of Interim Payments retained, as Retention Money is 10 percent.
- 22. Liquidated Damages for the Works are <u>0.01 percent</u> of the final Contract price per day.
- 23. The maximum amount of Liquidated Damages for the whole of the Works is <u>10 percent</u> of the final Contract Price.
- 24. The date by which "as built" drawings and other documents are required is <u>3 weeks</u> after completion.
- 25. The amount to be withheld for failing to produce "as built" drawings and other documents by the date required is <u>5 percent of Contract Price</u>.
- 26. The percentage **payable by the Contractor** as fine for non-completion of work, if this occurs and the Employer terminates the Contract is **the value of the unfinished works plus 10% the contract sum as** the Employer's additional costs for completing work
- 27. Intervals between submission of Payment Certificates or request for payment by the Contractor shall be <u>dependent on scope of work completed and progress reports submitted</u>

GENERAL CONDITIONS OF CONTRACT

A. GENERAL

1.0 **DEFINITIONS**

1.1 In the Contract (as hereinafter defined) the following words and expressions shall have the meanings hereby assigned to them, except where the context otherwise requires. Terms that are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Boldface type is used to identify defined terms.

Acceptance means the formal acceptance by the Employer of the Tender as evidenced by receipt by the Contractor of the **Letter of Acceptance** issued by the Employer.

The **Adjudicator** is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance. The name of the Adjudicator is indicated in the Contract Data.

Bills of Quantities means the priced and completed Bills of Quantities forming part of the Tender.

Compensation Events are those defined hereunder.

The **Completion Date** is the date decided upon by the Supervisor by which date the Contractor has done all the work he is to do by the Intended Completion Date, and has corrected notified Defects which would have prevented the Employer using the Works. It is also the date when the Supervisor issues the Certificate of Completion and certifies that the Works are complete and can be used by the Employer.

The **Contract** is the Contract between the Employer and the Contractor to execute and complete the Works. It consists of the documents listed in the Appendix to the Form of Agreement.

The **Contract Data** contains the conditions of particular application and other information, which form part of the Contract.

The **Contractor** is a person or corporate body whose quotation/Tender to carry out the Works has been accepted by the Employer, and the legal successors of such a person, but not (except with the consent of the Employer) any assignee of such a person.

The **Contractor's Representative** is the person appointed by to the Contractor to be present on the site to ensure execution of the work, to receive all communications from the Supervisor, and to carry out such duties and exercise such authority as may be required on behalf of the Contractor under the Conditions of Contract.

The **Contractor's Tender** is the completed Tender documents submitted by the Contractor to the Employer for the execution and completion of the Works and the remedying of any defects in accordance with provisions of the Conditions of Contract. Every rate entered in the Bills of Quantities shall form part of the Contract, whether or not such a rate shall be employed in the computation of the Contract Price.

The **Contract Price** is the price stated in the Letter of Acceptance and the Form of Agreement, and thereafter as adjusted in accordance within the provisions of the Conditions of Contract.

Cost is all the expenditure properly incurred or to be incurred, whether on or off the Site, including overheads and other charges properly allowable, but does not include profit.

Days are calendar days; Months are calendar months.

Day works are varied work inputs subject to payment on a time basis for the Contractor's employees and equipment and materials.

A **Defect** is any part of the Works not completed in accordance with the Contract.

Defects Certificate is either a list of Defects notified before the expiry of the Defects Notice Period which the Contractor has not corrected, or when there are no such Defects a statement that there are none.

Defects Notification Period is the period named in the Contract Data during which the Supervisor should give the Contractor notice of any defects of which he is aware, and is calculated from the Completion Date.

The **Drawings** are all drawings and technical information of a like nature provided by the Employer to the Contractor under the Contract.

The **Employer** is the party who will employ the Contractor to carry out the Works and where **customer** is used shall mean the same.

Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

The **Initial Contract Price** is the Contract Price stated in the Letter of Acceptance at the date of the Employer's written acceptance of the Quotation/Tender.

The **Intended Completion Date** shall be based on the Contractors work programme as agreed on by the Supervisor at the date of acceptance and is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Supervisor by issuing an extension of time, pursuant to the Conditions of Contract.

Materials are all materials brought to the Site to be used and incorporated by the Contractor in the construction of the Works.

Plant is any integral part of the Works, which is to have a mechanical, electrical, chemical or biological function.

Retention Money is the aggregate of all monies retained by the Employer.

The **Site** is the area defined as such in the Contract Data.

Specification is the Specification of the Works included in the Contract, and any modification or addition made or approved by the Supervisor.

The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence work on the Contract. It does not necessarily coincide with any of the Site Possession Dates.

The **Supervisor** is the person or firm named in the Contract Data who is the representative of the Employer, and who is responsible for supervising the Contractor, administering the Contract, certifying payments due to the Contractor, issuing and valuing variations to the Contract, awarding extensions of time, and valuing the Compensation Events.

The **Supervisor's Representative** is the person appointed by the Supervisor, to carry out such duties and exercise such authority that may be delegated to him by the Supervisor.

Temporary Works are works designed, constructed, installed and removed by the Contractor, and which are needed for construction or installation of the Works and remedying of any defects.

A **Variation** is an instruction given by the Supervisor which varies the Works.

Work Programme is the Contractor's schedule of methods and activities by means of which the Contractor will complete the work by the intended Completion Date.

The **Works** are what the Contract requires the Contractor to construct, install and hand over to the Employer.

2.0 INTERPRETATION

- **2.1** In interpreting these Conditions of Contract, singular also means plural, male also means female, and vice versa. Headings and cross-references between clauses have no significance. Words have their normal meaning under the language of the Contract unless specifically defined.
- **2.2** If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date and the Intended Completion Date apply to

- any section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).
- **2.3** Wherever in the Contract provision is made for the giving or issue of any notice, consent, approval, certificate or determination by any person, unless otherwise specified such notice, consent, approval, certificate or determination shall be in writing.

3.0 LANGUAGE AND LAW

3.1 The language of the Contract and the law governing the Contract are stated in the Contract Data.

4.0 PRIORITY OF CONTRACT DOCUMENTS

4.1 The several documents forming the Contract shall be mutually explanatory to one another, and shall be interpreted in the order of priority as listed in the Appendix to Form of Agreement.

5.0 SUPERVISOR'S DECISIONS

5.1 The Supervisor will decide Contractual matters between the Employer and the Contractor fairly and impartially.

6.0 DELEGATION

6.1 The Supervisor may delegate any of his duties and responsibilities to other people except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

7.0 COMMUNICATIONS

7.1 Communications between parties, which are referred to in the Conditions of Contract, are effective only when in writing. A notice is effective only when it is received.

8.0 SUBCONTRACTING

8.1 **No sub contraction** of the works will be carried out.

9.0 OTHER PARTIES

9.1 The Contractor shall co-operate and share the Site with other Contractors, public authorities, utilities and the Employer as necessary during the period of the Contract.

10.0 INDEMNITIES

10.1 Each party will be liable for and indemnify the other against losses, expenses and claims for loss or damage to physical property, personal injury and death caused by his own acts or omissions.

- **10.2** The party claiming indemnity shall take all reasonable steps to mitigate the loss or damage that may occur.
- **10.3** The Contractor will indemnify the Employer against claims for damage caused by the movement of his Equipment or Temporary Works outside the Site.

11.0 QUERIES ABOUT THE CONTRACT DATA

11.1 The Supervisor will clarify queries about the Contract Data.

12.0 CONTRACTOR TO CONSTRUCT THE WORKS

- 12.1 The Contractor shall construct and install the Works in accordance with the Specification and Drawings.
- 12.2 The Works shall be carried out using suitable construction methods. The equipment can be owned by the Contractor, rented from private operators, leased from a leasing company, or rented from the Employer.

13.0 THE WORKS TO BE COMPLETED BY THE INTENDED COMPLETION DATE

13.1 The Contractor may begin the Works on the Start Date, shall carry out the Works in accordance with the programme submitted by him, as updated with the approval of the Supervisor, and complete them by the Intended Completion Date.

14.0 HEALTH AND SAFETY

- 14.1 The Contractor shall be responsible for the safety of all activities on the Site. Due precautions must be taken by the Contractor at his own cost for the safety of his employees including those of his sub- Contractors and all other persons on the Site, and in collaboration with and to the requirements of the local health authorities to ensure that first aid equipment are available at all times throughout the period of the Contract and suitable arrangements are to be made for prevention of epidemics and for all necessary welfare and hygiene requirements.
- 14.2 The Contractor's responsibilities shall include:-
- (a) the execution of suitable arrangements for ensuring safety and absence of risks to health in connection with the use, handling, storage, transport and disposal of Materials;
- (b) the provision of protective clothing and equipment, first aid equipment and other requirements as are necessary and such information, instruction, training and supervision as are necessary to ensure the health and safety at work of all persons employed on the Works in accordance with the applicable laws;

- (c) the provision and maintenance of access to all places on the Site in a condition that is safe and without risk of injury;
- (d) Reporting to the Supervisor's Representative, within 24 hours of the occurrence, of any accident at or about the Site or in connection with the execution of the Works. The Contractor shall also report such accident to the competent authority wherever such report is required by law;
- (e) protection of the environment on and of the Site, and to avoid nuisance to persons or damage to the vegetation or to property of the public, or other causes arising out of the execution of the Works.

15.0 POSSESSION OF THE SITE

15.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of all parts of the Site is not given by the date stated in the Contract Data, the Employer is deemed to have delayed the start of the relevant activities and this is a Compensation Event.

16.0 ACCESS TO THE SITE

16.1 The Contractor shall allow the Supervisor and any person authorized by the Supervisor access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out, including to stored Plant, Equipment and Materials.

17.0 INSTRUCTIONS

17.1 The Contractor shall carry out all instructions of the Supervisor, which are in accordance with this Contract.

18.0 DISPUTES AND PROCEDURE FOR SETTLING DISPUTES

- 18.1 Disputes about an action taken by the Supervisor or the Supervisor's representative shall be settled as follows:-
- (a) If the Contractor believes that an action of the Supervisor or the Supervisor's Representative was not in accordance with the Contract or was outside the authority given by the Contract, he may notify the Adjudicator and the Supervisor of the disputed action within 14 days of the action.
- (b) Within 14 days of the notification the Supervisor shall provide the Adjudicator and the Contractor with information upon which the disputed action was based. Within 14 days of receiving this information the Contractor may provide the Adjudicator and the Supervisor with any other information upon which he believes the Supervisor or the Supervisor's Representative should have based the disputed action.

- (c) The Adjudicator shall decide whether the disputed action was in accordance with the Contract and whether it was within the authority given by the Contract. If he decides that it was not, he shall decide what action should have been taken and assess any additional cost and delay which the dispute itself has caused or will cause to the Contractor. The Adjudicator shall make his assessment in the same way as a Compensation Event is assessed.
- 18.2 Disputes about action not taken by the Supervisor or Supervisor's Representative shall be settled as follows:-
- (a) If the Contractor believes that the Supervisor or the Supervisor's Representative has not taken an action that the Contract requires, he may notify the Supervisor.
- (b) If the action has not been taken within 7 days of this notification, the Contractor may notify the Adjudicator and the Supervisor within a further 7 days. The Contractor may include in this notification information which he believes shows that the Supervisor or the Supervisor's Representative should have taken the action. Within 7 days of the notification to the Adjudicator, the Supervisor shall supply the Adjudicator with information that he believes shows that the Supervisor or the Supervisor's Representative should not have taken the action.
- (c) The Adjudicator shall decide whether, in accordance with this Contract, the action should or should not have been taken. If the Adjudicator decides that it should have been taken, the action shall be implemented and he shall assess any additional cost and delay that the dispute itself has caused or will cause to the Contractor. The Adjudicator shall make his assessment in the same way as a Compensation Event is assessed.
- 18.3 The Adjudicator shall notify the Supervisor and the Contractor of his decision, of the reason for his decision and of any assessment within 7 days of receiving the information or within a longer period that has been agreed by the Supervisor and the Contractor. The Supervisor shall implement the Adjudicator's assessment as if it had resulted from a Compensation Event.

B. TIME CONTROL

19.0 PROGRAMME

19.1 Within the time stated in the Contract Data the Contractor shall submit to the Supervisor for his approval a Work Program showing the general methods, arrangement, order and timing for all the activities in the Works, with specific emphasis on the labour requirements, equipment utilization and production. The Contractors work program shall take in account all statutory holidays and Sabbath days that will be observed by the Supervisor.

- 19.2 An update of the Work Program is a subsequent Work Program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.
- 19.3 The Contractor is to submit to the Supervisor, for his approval, an updated Work Program at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Work Program within this period, the Supervisor may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Work Program has been submitted.
- 19.4 The Supervisor's approval of the Work Program does not alter the Contractor's obligations. The Contractor may revise the Work Program and submit it to the Supervisor again at any time. A revised Work Program is to show the effect of Variations and Compensation Events.

20.0 EXTENSION OF THE INTENDED COMPLETION DATE

- 20.1 The Supervisor shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work and which would cause him to incur additional cost.
- 20.2 The Supervisor shall decide whether and by how much to extend the Intended Completion Date within 14 days of the Contractor asking him to decide upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to co-operate in dealing with a delay, the delay by his failure shall not be considered in assessing the new Intended Completion Date.

21.0 ACCELERATION

- 21.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Supervisor will obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date is adjusted accordingly and confirmed by both the Employer and the Contractor.
- 21.2 If the Contractor's priced proposals for acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.

22.0 DELAYS ORDERED BY THE SUPERVISOR

22.1 The Supervisor may instruct the Contractor to delay the start or progress of any activity within the Works.

23.0 MANAGEMENT MEETINGS

- 23.1 Either the Supervisor or the Contractor may require the other to attend a management meeting. The business of a management meeting is to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
- 23.2 The Supervisor is to record the business of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken is to be decided by the Supervisor either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

24.0 EARLY WARNING

- 24.1 The Contractor shall promptly inform the Employer and Supervisor of any error, omission, fault and other defect in the design of or specifications for the Works which are discovered when reviewing the Contract Documents or any event in the process of execution of the Works, which may adversely affect the quality of the work, increase the Contract Price or delay the Intended Completion Date. The Supervisor may require the Contractor to provide an estimate of the expected effect of the omission, fault or circumstance on the Contract Price and Completion Date. The estimate is to be provided by the Contractor as soon as reasonably possible.
- 24.2 The Contractor shall co-operate with the Supervisor in making and considering proposals for how the effect of such an omission, fault or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Supervisor.

C. QUALITY CONTROL

25.0 IDENTIFYING DEFECTS

25.1 The Supervisor shall check the Contractor's work and notify the Contractor of any Defects that he finds. Such checking does not affect the Contractor's responsibilities. The Supervisor may instruct the Contractor to search for a Defect and to uncover and test any work that he considers may have a Defect.

26.0 TESTS

26.1 If the Supervisor instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor is to pay for the test and any samples. If there is no Defect the test shall be a Compensation Event.

27.0 CORRECTION OF DEFECTS

- 27.1 The Supervisor shall give notice to the Contractor of any Defects of which he is aware before the end of the Defects Notification Period, which begins at the Completion Date. During the Defects Notification Period the Contractor shall rectify any defects to the Works.
- 27.2 Every time notice of a Defect is given, a Defects Correction Period of the notified Defect begins. The Contractor shall correct the notified Defect within the Defects Correction Period. The length of the Defects Correction Period is stated in the Contract Data.
- 27.3 The Contractor shall correct Defects which he notices himself before the end of the Defects Notice Period.
- 27.4 The Supervisor shall certify with the issue of a Defects Correction Certificate that all Defects have been corrected when all known Defects have been corrected. If Defects are not the fault of the Contractor, the corrections will be paid for at the unit rates or day work rates of the Contract.

28.0 UNCORRECTED DEFECT

- 28.1 If the Contractor has not corrected a notified Defect within the Defects Correction Period, the Supervisor assesses the cost of having the Defect corrected by a third party.
- 28.2 The Supervisor shall give the Contractor at least 14 days' notice of his intention to use a third party to correct a Defect. If the Contractor does not correct the Defect himself within this notice period, the Supervisor may have the Defect corrected by the third party. The Contractor will pay the cost of the correction from his monies due or to become due.

D. COST CONTROL

29.0 BILLS OF QUANTITIES

- 29.1 The Bills of Quantities shall contain items for the construction, installation, testing and commissioning work to be done by the Contractor.
- 29.2 The Bills of Quantities shall be used to calculate the Contract Price. The Contractor shall be paid for the quantity of the work done at the rate in the Bills of Quantities for each item.

30.0 CHANGES IN THE QUANTITIES

30.1 If the final quantity of the work done reduces from the quantity in the Bills of Quantities for the particular item by more than 30 percent, provided the change exceeds ten (10) percent of the Initial Contract Price, the Supervisor is to adjust the Contract Price in

- agreement with the Contractor, having regard to all material and relevant factors including the Contractor's site and general overhead costs of the Contract.
- 30.2 If requested by the Supervisor, the Contractor shall provide the Supervisor with a detailed cost breakdown of any rate in the Bills of Quantities.

31.0 VARIATIONS

- 31.1 All Variations are to be included in updated Work Programs produced by the Contractor.
- 31.2 Should, in the opinion of the Supervisor, the rate of progress be too slow to complete the Works assigned to the Contractor within the prescribed Completion Date, the Supervisor may decrease the quantity of the works to ensure that all the works within the reduced scope are completed within the set Completion Date. In case such a decrease in the quantity of Works results in a reduction of the Contract Sum not exceeding 10 percent, the Contractor will not be entitled to any revision of rates or claim arising out of such a Variation.

32.0 PAYMENTS FOR VARIATIONS

- 32.1 The Contractor shall forecast the cost effect of all proposed Variations on the Contract Price and provide the Supervisor with a quotation for carrying out the Variation when requested to do so by the Supervisor. The Supervisor shall assess the quotation, which is to be given within seven (7) days of the request or within any longer period stated by the Supervisor and before the Variation is ordered by him.
- 32.2 If the work in the Variation corresponds with an item description in the Bills of Quantities and if, in the opinion of the Supervisor, the volume of work does not cause the cost per unit of quantity to change, the rate in the Bills of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity does not correspond with items in the Bills of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.
- 32.3 If the Contractor's quotation is unreasonable, the Supervisor may order the Variation and make a change to the Contract Price which shall be based on his own forecast of the effects of the Variation on the Contractor's costs.
- 32.4 If the Supervisor decides that the urgency of the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.
- 32.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

33.0 PAYMENT CERTIFICATES

- 33.1 The Contractor shall submit to the Supervisor at intervals stated in the Contract Data and in a format to be specified by the Supervisor, statements of the estimated value of the work completed less the cumulative amount certified previously.
- 33.2 The Supervisor shall check the Contractor's statements and certify the amount to be paid to the Contractor.
- 33.3 The Supervisor shall determine the value of work completed.
- 33.4 The value of work executed shall comprise the value of the quantities of the items in the Bills of Quantities completed.
- 33.5 The value of work completed includes the valuation of Variations, Advance Payments, Compensation Events and deductions for Retention Money.
- 33.6 The Supervisor may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

34.0 PAYMENTS

- 34.1 Payments shall be adjusted for Retention Money. The Employer shall pay the Contractor the amount certified by the Supervisor within 30 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest is calculated from the date by which the payment should have been made at the rate of interest for commercial borrowing.
- 34.2 Items of the Works for which no rate or price has been entered in the Bills of Quantities will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.
- 34.3 If a Compensation Event causes additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price is increased and/or the Intended Completion Date is extended. The Supervisor decides whether and by how much the Contract Price is increased, and whether and by how much the Intended Completion Date is extended.
- 34.4 As soon as information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it is to be assessed by the Supervisor and the Contract Price adjusted accordingly. If the Contractor's forecast is unreasonable, the Supervisor is to make his own forecast and adjust the Contract Price on that basis. The Supervisor will assume that the Contractor will react competently and promptly to the event.

34.5 The Contractor shall **NOT** be entitled to compensation to the extent that the Contractor not having given early warning or not having co-operated with the Supervisor adversely affects the Employer's interests.

(b) 35.0 CURRENCIES

35.1 All payments shall be made in Uganda Shillings.

(c) 36.0 PRICE ADJUSTMENT

Adjustments to the Contract Price shall be made in respect of a major rise or fall in the cost of local labour and specified materials as set out in this Sub-Clause.

(a) Local Workmen

"Local Workmen" means skilled and semi-skilled workmen of all trades engaged by the Contractor on the Site for the purpose of or in connection with the Contract or engaged full time by the Contractor off the Site for the purpose of or in connection with the Contract (by way of illustration but not limitation: workmen engaged full time in any office, store, workshop or quarry).

"Basic Rate" means the applicable basic minimum wage rate stated in Schedule III of the Tender Documents, and prevailing on the date 14 days prior to the latest date for submission of Tenders by reason of any National Statute, or Ordinance.

"Current Rate" means the applicable basic minimum wage rate for Local Workmen prevailing on any date subsequent to the date 14 days prior to the latest date set for submission of Tenders.

(b) Specified Materials

For the purpose of this Sub-Clause:

"Specified Materials" means the materials stated in Schedule III of the Tender Documents required on the Site for the execution and completion of the Works.

"Basic Prices" means the current prices for the Specified Materials stated in Schedule III of the Tender Documents, and prevailing on the date 14 days prior to the latest date for submission of Tenders.

(c) Overheads and Profits Excluded

In determining the amount of any adjustment to the Contract Price pursuant to this Sub-Clause, no account shall be taken of any overheads or profits.

37.0 RETENTION MONEY

- The Employer shall retain from payment due to the Contractor the proportion stated in the Contract Data until Completion of the whole of the Works.
- 37.2 On Completion of the whole Works and submission of completion report as specified in the Contract Data, the total amount retained is paid to the Contractor after the Supervisor has certified that all Defects notified by him to the Contractor before the end of this period have been corrected.

38.0 LIQUIDATED DAMAGES AND PENALTIES

- 38.1 The Contractor shall pay Liquidated Damages to the Employer at the rate per calendar day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date, or any Intended Completion Date revised in accordance with Clause 29. The Employer may deduct Liquidated Damages from payments due to the Contractor. Payment of Liquidated Damages does not affect the Contractor's liabilities.
- 38.2 If the Intended Completion Date is extended after Liquidated Damages have been paid, the Supervisor shall correct any overpayment of Liquidated Damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment at the rates specified.

E. FINISHING THE CONTRACT

39.0 COMPLETION

- 39.1 The Supervisor shall issue a Certificate of Completion certifying completion of the Works to the Contractor and the Employer when he decides that the Works are fully completed.
- 39.2 The Supervisor or his Representative may issue a Partial Completion Certificate for each section of the Works that has been fully and acceptably completed in accordance with the Specifications and Conditions of Contract.

40.0 TAKING OVER

40.1 The Employer takes over the Site and the Works within seven (7) days of the Supervisor issuing a Certificate of Completion.

41.0 TERMINATION

41.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract that substantially deprives him of the principal benefits of the Contract.

- 41.2 Fundamental breaches of Contract, shall include, but are not limited to the following:-
- (a) the Contractor stops work for 14 days when no stoppage of work is shown on the current Work Programme, and the stoppage has not been authorized by the Supervisor;
- (b) the Supervisor instructs the Contractor to delay the progress of the Works and the instruction is not withdrawn within 21 days; the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (c) a payment certified by the Supervisor is not paid by the Employer to the Contractor within 30 days of the date of the Supervisor's certificate;
- (d) the Supervisor gives notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Supervisor;
- (e) The Contractor has delayed the completion of the Works beyond the Intended Completion Date by the number of days for which the maximum amount of Liquidated Damages can be paid, as defined in the Contract Data.
- When either party to the Contract gives notice of a breach of Contract to the Supervisor for a cause, the Supervisor shall decide whether the breach is fundamental or not.
- 41.4 Notwithstanding the above, the Employer may terminate the Contract at his convenience.
- 41.5 If the Contract is terminated, the Contractor shall stop work immediately, make the site safe and secure and leave the Site as soon as reasonably possible.

1.0 TECHNICAL SPECIFICATIONS

Section 1.02 A. GENERAL ITEMS

All materials used in the works shall be new and of the quality and kind specified.

The contractor is to provide, at his expense, samples and test reports of all materials to be used in the works.

The materials and workmanship shall, unless otherwise qualified in these specifications, confirm to the Standard Specification of Materials and Workmanship for Building Works issued by the Ministry of Works, Housing and communication of the Republic of Uganda.

Before starting work the contractor is required to survey the site and report any differences or discrepancies with the drawings.

B. EXCAVATION AND EARTHWORK.

- B.1 The surveyor should confirm the existing ground levels, setting out to conform to nearby road alignment, existing structures and facilities.
- B.2 Excavation may be hand or mechanical, as necessary to meet the specification. The excavation depth shall be maintained to 1m unless otherwise with the approval of the Engineer.
- B.3 Any valuable Materials arising from the excavations are to remain the property of the Client/Employer. Unless the contractor is instructed to remove them from site.
- B.4 All filling material is to be from an approved source and of a composition approved for the Construction activities and capable of being compacted as specified to 95% Modified AASHTO Standard Density at Optimum Moisture content.

C. WORKMANSHIP.

- C.1 Cut down, grub up roots trees and fill voids with approved material, recommended by the Engineer for the works.
- C.2 Destroy all white ant nests within perimeter and 20 meters of the building. Destroy queen ants impregnate holes and tunnels with anti-termite preferably Termidor and fill voids with approved material.
- C.2 Hard materials arising from site excavations may be used as hardcore if complying with the specification for hard filling material approved by the Engineer's representative.
- C.3 Before beginning excavation, excavate the top soil as specified or as necessary and keep separate from excavated subsoil. Where necessary, separate provision shall be made for overhaul of this waste material to an approved place or borrow pit in the project.

- C.4 Excavate widths and depths required for the constructions shown on the drawings, including working space where necessary. Excavation in excess of requirements must be back filled to required levels at the Contractors expense. Fill and compact in layers not exceeding 200mm and well rammed.
- C.5 Support sides of excavation as may be necessary, using planking and strutting. The contractor will be held responsible for the execution and subsequent removal of all necessary sheeting, timbering, strutting and shoring to ensure the safety of workers, to secure the excavations and to prevent any movement.
- C.6 Back fill foundation trenches, working space and the like with earth or "lateritic soil" murram filling well compacted in layers not exceeding 200mm deep. Avoid damage to adjoining construction and do not back fill against brick work until mortar has set hard.
- C.7 Maintain all excavation free from water, including spring, running water and storm water. If it is likely that standing water will occur in excavations before the placing of concrete or other constructions do not excavate the final 100 or 150mm of soil until immediately before construction takes place.
- C.8 Spread and level on site or remove from the site all surplus material as directed.
- C.9 Treat the top surface of all hardcore and aggregate filling with anti-termite applied with the manufacturer's instructions.

D. CONCRETE WORK.

- D.1 All Cement used for concrete shall be Portland cement complying to BS 12, or Ordinary Portland Cement for structural members, which is required to attain sufficient strength of above 75% within the shortest possible time in order to allow the subsequent stage of construction to proceed.
- D.2 Aggregates shall be to BS 882, hard, durable, clean, and free from deleterious materials in a form or in sufficient quantity such as to affect adversely the strength or durability of concrete or to produce corrosion of the reinforcement. The nominal size of aggregate shall conform to maximum 20mm.
- D.3 Store each type and size of aggregate separately in area covered by well drained tightly laid wood planks, sheet metal, hard compact gravel, concrete or other hard surface. Prevent the mixing of different types of aggregate and the intrusion of foreign matter.
- D.4 During batching, cement shall be determined by weight. The quantity of fine and course aggregate may be measured by weight or volume using correctly calibrated gauge boxes of dimension 300mmx300mmx400mm. The quantity of water/cement ratio must be accurately controlled to ensure a constant water cement ratio.
- D.5 Concrete with a slump value greater than the specified maximum must not be used in the work.
 - In thin walls, beams and the like and in heavily reinforced and congested areas 75mm maximum.

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❖ In larger members 50mm maximum

❖ In suspended slabs 75mm maximum

❖ For mass concrete (un-vibrated) 100mm maximum

- D.6 When transporting concrete, avoid contamination, segregation or loss of ingredients. The method of transporting concrete must permit placing and compaction within the times specified for each mix.
- D.7 Prior to placing concrete ensure that all surfaces on which concrete is to be placed are clean, with no debris or free water. When concreting care should be taken to prevent damage to or displacement of reinforcement, formwork and freshly placed concrete.
- D.8 Place concrete made on site with Ordinary Portland Cement (OPC) within 20 minutes after the addition of water to the mix.
- D.9 Before placing concrete in foundations ensure that the excavated bottom is clean and to the profile shown on the drawings. Do not place concrete in excavations before the excavation has been inspected and approved by the Engineer. Unless otherwise directed, concrete grade 20~40 shall be compacted by mechanical vibration so as to ensure a dense homogeneous mass throughout every part of the works and produce a good surface finish.
- D.10 After placing and compacting, cover concrete surfaces for a continuous period of not less than seven days unless otherwise directed. The structure must not be loaded before the concrete has attained the required strength. Loads in excess of the design loads must not be imposed on the concrete.

E. REINFORCEMENT

- E.1 The steel reinforcement shall be mild steel or high tensile steel as detailed on the drawings or schedules and comply with BS 4449 and 4461 respectively.
- E.2 Tests verifying compliance with BS 4449 or BS 4461 are to be provided by the supplier.
- E.3 Provide spacers and chairs as necessary to support reinforcements in position.
- E.4 Annealed iron tying wire must be minimum 1.6mm diameter (16swg).

F. WORKMANSHIP.

- F.1 At the time of placing concrete, reinforcement must be clean and free from all loose mill scale, loose dust, oil, grease, retarders or any other substance which might adversely affect the steel or concrete or the bond between them.
- F.2 The Contractor will be deemed to have satisfied himself as the correctness of the bending schedule before cutting or bending reinforcement.

- F.3 Secure reinforcement against displacement with tying wire or approved steel clips. Does not tack weld reinforcement unless directed.
- F.4 Reinforcement to be continuous across construction joints unless otherwise shown on the drawing.

G. FORMWORK

- G.1 Provide all formwork necessary to provide finished concrete work to the dimensions and finishes specified.
- G.2 The Contractor will remain entirely responsible for the stability and safety of formwork, and for its adequacy to produce the concrete work specified.
- G.3 Design and construct formwork to withstand the worst combination of total weight of formwork, concrete, construction loads and wind load.
- G.4 Strike formwork without disturbing, damaging or overloading the structure.
- G.5 Props to cantilevers shall not be removed before the counter balance construction has been completed and fully matured.
- G.6 Wedges and other devices for adjusting props and struts must be spiked or locked in position before concrete is placed.

Minimum Period for retaining formwork in position is as follows:-

LOCATION OF FORMWORK MINIMUN PERIOD (DAYS) 2 Vertical formwork to walls Column piles, footings 2 Soffit forms to slabs (props left in) 7 Removal of props to slabs 14 Bottom boards of piles (intermediate supports left in) 12 Soffits of beams less than 6m span 16 28 Soffits of beam > 6m span

The periods given above are based on average weather conditions and the use of Ordinary Portland cement.

H. WALLING.

Section 1.03 H.1 MATERIALS

Unload and handle bricks without soiling, chipping or otherwise damaging. Do not tip bricks from vehicles. Stack bricks on edge on level hard standing.

- H.2 All Cement used for making mortar shall be Portland cement complying with BS 12, should be kept on pallets, and protected from water and dump.
- H.3 All sand used for making mortar shall be clean well graded. It shall be free from lamps of stone, earth, loam, dust, salt, organic matter and any other deleterious substance, sieved through a fine sieve and washed if so directed.
- H.4 The water shall be clean, free from dirt, vegetable matter, minerals salts or other impurities.

I. WORKMANSHIP

I.1 The cement mortar (1:3) shall be composed of 50kgs of Portland cement to 0.085 cubic meters of sand. The cement mortar (1:6) shall be composed of 50kgs of Portland cement to 0.17 cubic meters of sand measured in specially prepared gauge boxes and thoroughly mixed in an approved manner with water added afterwards until all parts are completely incorporated and brought to proper consistency.

J. BRICKS

J.1 Bricks shall be of common classification unless otherwise specified. All clay bricks shall be sound, hard, well burnt and free from cracks. The Contractor shall be entirely responsible for the selection of bricks, free from defects, from batches delivered to site.

The dimensions of bricks will be within 5 millimetres of the nominal length, width and height as follows:-

Dimensions	Nominal	Max	Min
Length	215	220	210
Width	100	105	95
Height	75	80	70

J.2 The damp proof course is to consist of 10mm screed of cement and sand (1:2) laid over the area walls and finished to level surface and covered with including an approved fibre based bituminous damp proof course weighing not less than 2.7Kgs per square meter and lapped at 225mm at all joints and intersections. All walls are to be carefully cleaned and wetted before the screed is laid.

K. SHEET ROOFING.

K.1 Do not allow any person other than the operatives during fixing the roofing to have access to the area below while roofing is under construction.

- K.2 Lay and fix roofing sheets and accessories in accordance with manufacture's recommendations and to make the whole sound and water tight. Do not damage or weaken structural members when fixing sheets, which must be of size and pattern to suit the roof members. Bolts, screws and nails must be supplied complete with plastic washers.
- K.3 Galvanized mild steel corrugated iron sheets to BS 3083, not less than 0.56mm (24swg) thick. Sheets must be free from twist or buckle. Galvanizing must be clean, free from surface defects, and firmly bonded to the steel. Ridges, valleys, flashings and the like to be of the same profile and quality as the roofing sheets.
- K4 Galvanized mild steel ridges and valleys must be not less than 0.56mm (24swg) thick, of profile to suit the specified construction, and not less than 300mm wide.
- K.5 Galvanized roofing sheets specified as "factory painted" shall mean galvanized sheets supplied by the manufacturer with a stove enameled or other approved paint finish.
- K.6 Roofing sheets and flashings supplied as "factory painted" shall be free of any imperfections, blemishes or rust. No touching up will be permitted on site.
- K.7 Softwood timber battens are to be treated with an approved preservative, either by pressure impregnation or by three coats brush applied including full treatment to end grains.
- K.8 Lay all sheets with end laps of not less than 150mm. Lay 75mm standard corrugated sheets with one and half corrugated side lap. Lay super seven sheets with single corrugation lap. Lay all sheets with open joint of side lap to face away from the prevailing wind.

L. CARPENTRY

- L.1 All timber for permanent work in the building shall, before be approved by the Supervising Officer and shall be of the best quality in accordance with appropriate specifications for its respective grade.
- L.2 Structural timber is to be sawn on all faces and edges unless described as wrought.
- L.3 Material Timber for structural use is to be cedar, pine, cypress or other approved species.
- L.4 All carpentry timbers to be used should be seasoned to a moisture content of not more than 18% of dry weight. All joinery timbers are to be seasoned to a moisture content of not more than 15% of dry weight.
- L.5 All timber for necessary works is to be purchased immediately the contract is signed and when delivered is to be stacked for such further seasoning as may be necessary. Preparation of the timber is to be commenced simultaneously with the commencement of works generally. All timber and assembled wood work is to be protected from weather and stored in such a way as to prevent attack by decay, fungi termites or other insects.

L.6 Moisture content at the time of manufacture shall not exceed 13% for external joinery components and 10% for internal joinery components.

M. IRONMONGERY.

- M.1 The Contractor is to check consignment of ironmongery upon receipt and store them in safe keeping until required for fixing.
- M.2 All ironmongery shall be fixed and fitted in accordance with the manufacturer's instructions. Rates for fixing are to include for all cutting, sinking, boring, mortising and fitting in hardwood or softwood and for supplying all necessary and matching screws. Rate for door furniture shall also include for fixing before painting, removal during painting operations and afterwards fixing and for labelling all keys with door references and handing to the Employer upon completion.
- M.3 All locks, springs and other items of ironmongery with movable parts shall be properly tested, oiled, cleaned and adjusted where necessary and left in perfect working order upon completion.

N. PLASTER WORK AND RENDERING.

- N.1 Include for any scaffolding, ladders and cradles which may be required for working at any height.
- N.2 Prepare a specimen panel of not less than 6m² of each mix and surface finish of plastering and rendering to be used in the work.
- N.3 All surfaces to be plastered or rendered shall be brushed clean and be well wetted before plaster is applied. All plaster and rendering shall be kept continuously damp for seven days after application. All arises shall be finished true and slightly rounded except where otherwise stated, shall be run at the same time as the adjoining plaster. No partially or wholly set plaster or rendering will be allowed to be used or re-mixed.

MATERIALS

- N.4 All sand shall be hard, clean durable and free from contaminants. In case of sand being unsuitable, the general standard will be required to the relevant BS 1198-1200 "Building Sands".
- N.5 Ordinary Portland cement to BS 12, delivered to site in sealed bags marked with the approved manufacturer's name.
- N.6 Before plastering or rendering commences, all openings and chases will have been completed and made good.
- N.7 Backgrounds shall be cleaned by removing any efflorescence, laitance, dirt and loose material by brush.
- N.8 Steel float finish; to be in two coats, overall thickness 15mm.

- N.9 Wood float finish; to be in single coat unless otherwise directed, overall thickness 12mm: Cement render: Cement-Sand (1:4) rendering described as 20mm thick or over shall be applied in two coats.
- N.10 The contractor shall cut out and make good all cracks, blisters and other defects and leave the whole of plastering and rendering perfect at completion. When making good defects the plaster shall be cut out to rectangular shape with edges undercut, to form dovetailed keys an all finishes flush with the face of the surrounding plaster.
- N.11 Locally available construction material shall be obtained from reputable sources within the vicinity of the project. The contractor shall furnish the engineer with the local characteristics of the available materials such as local poles, reeds, and grass for suitability.

O. PAINTING AND DECORATING.

O.1 The Contractor will be required to paint a specimen panel of two square meters and obtain the approval from the Employer.

MATERIALS.

- O.2 All paints shall be first grade, and shall be applied strictly in accordance with the manufacturer's specification.
- O.3 All paints to be used should be obtained from the following manufacturer's herein after described. All primers, undercoats, finishing coats and thinners to be applied to any surface shall be supplied from the same manufacturer.
- A. Robbialac
- B. Crown paints
- C. Dulux paints
- D. Sadolins
- E. Valspar paints

WORKMANSHIP

- O.4 Before painting or decorating is started the Contractor shall arrange that all other trades have been completed and other tradesmen removed from the vicinity of the area to be painted. All plaster mortar, oil or stains of any kind shall be removed by the Contractor from work to be painted.
- O.5 Clean surfaces to ensure that mortar and plaster splashes and loose flaking material are removed. Remove surface salts with a coarse dry cloth and leave for 48 hours. Repeat process as necessary until efflorescence ceases.
- O.6 Plastered and rendered surface to be painted shall be allowed to dry for a minimum of two weeks before application is done.

- O.7 Woodwork to be painted finishes shall be well rubbed down. All knots shall be covered with good knotting compound before priming and all defects shall be filled with hard stopping after priming.
- O.8 The number of coats stated in the description in the Bills of Quantities shall be applied in addition to any primers, stoppers, fillers, sealers, knotting, etc., required. The Contractors rates shall be deemed to include for supplying and applying all such preparatory materials as may be required by the standard specification as recommended by the manufacturer of the finishing coat for the particular surface to be covered. The Contractors price shall further include for preparatory works needed. Unless otherwise described prices for painting surfaces of woodwork shall include for internally and externally.

P. LANDSCAPING/ENVIRONMENTAL PROTECTION

- P.1 Areas to be grassed shall be cleared of all debris and dug to a depth of 300mm. Grass be planted or seeded as instructed and lightly rolled.
- P.2 the contractor shall avoid practices that affect the environment negatively. Such practices shall be defined in the context of NEMA guidelines and for building or development projects in the rural areas or otherwise.

Q. MEASUREMENTS AND PAYMENT SYSTEMS

- Q1 the fixed rate contract system has been adopted. The aggregates quantities of the executed works shall be deemed to have been included in the tender sum as necessary. The contractor should have estimated the quantities of the works involved prior to acceptance letter.
- Q2 the system of payment commensurate with the prevailing conditions shall be specified

Item	Description	Unit	Qty	Rate	Amount
				Ushs	Ushs
	HEALTH CENTRE IV				
	BILL NO. 1 : MATERNITY WARD				
	MAIN SUMMARY				
1	SUBSTRUCTURE				0/=
2	ROOF				0/=
3	EXTERNAL WALLS				0/=
4	WINDOWS & EXTERNAL DOORS				0/=
5	INTERNAL WALLS & PARTITIONS				0/=
6	INTERNAL DOORS				0/=
7	INTERNAL FINISHINGS				0/=
8	FITTINGS & FURNISHINGS				0/=
9	MECHANICAL INSTALLATION				0/=
10	ELECTRICAL INSTALLATION				0/=
	TOTAL MATERNITY WARD TO GENERAL				0/=
	SUMMARY				

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Note Items 1.24 to 1.37 are to be priced only for areas that are earthquarke prone or with soils with poor bearing capacity. Site Preparation 1.01 Excavate oversite to remove top soil average 250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. 1.02 Market oversite to remove top soil average 243 1.03 Market oversite to remove top soil average 243		SUBSTRUCTURE			
Note Items 1.24 to 1.37 are to be priced only for areas that are earthquarke prone or with soils with poor bearing capacity. Site Preparation 1.01 Excavate oversite to remove top soil average 250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. 1.02 Market oversite to remove top soil average 243 1.03 Market oversite to remove top soil average 243		(All Provisional)			
that are earthquarke prone or with soils with poor bearing capacity. Site Preparation 1.01 Excavate oversite to remove top soil average 250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. m² 0/= 243		(
that are earthquarke prone or with soils with poor bearing capacity. Site Preparation 1.01 Excavate oversite to remove top soil average 250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. m² 0/= 243		Note Items 1 24 to 1 37 are to be priced only for grees			
Site Preparation		that are earth quarke prope or with soils with poor			
Site Preparation 1.01 Excavate oversite to remove top soil average 250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. Description D					
1.01 Excavate oversite to remove top soil average 250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. 243 0/= 243		vearing capacity.	-		
1.01 Excavate oversite to remove top soil average 250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. 243 0/= 243					
250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. 243 0/=		Site Preparation			
250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. 243 0/=					
250mm thick and remove from site. 1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. 243 0/=	1.01	Excavate oversite to remove top soil average	$\overline{\mathbf{m}^2}$		0/=
1.02 Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee. 0/= 243				243	
surroundings with approved chemical anti-termite solution: provide ten year guarantee.					
surroundings with approved chemical anti-termite solution: provide ten year guarantee.	1.02	Treat surface of subsoil or fillings and	m ²		0/=
solution: provide ten year guarantee.	1002			243	3/-
Excavation and Earthworks.		solution, provide ten year guarantee.			
Excavation and Earthworks.		Engustion and Earth-works			
		Excavation and Earthworks.			

		1		
	Note: Rates for excavation to include for keeping excavations free from water and planking and strutting to sides of excavations			
	situing to suces of excuvations			
1.03	Excavate to reduce levels and remove from site.	m ³	5	0/=
1.04	Excavate trenches for wall foundations: commencing from reduced levels : not exceeding 1.5m deep .	m ³	80	0/=
1.05	Extra over excavation for excavating in rock	m ³	2	0/=
	Disposal of excavated material			
1.06	Selected excavated material in filling to foundation trenches: around walling: placed in 200mm layers: watered and compacted to 95% MDD	m ³	53	0/=
1.07	Remove surplus excavated material from site	m ³	27	0/=
	<u>Hardcore</u>			
1.08	150mm Filling: deposit, spread, level and compact: 25mm selected quarry dust blinding.	m ²	122	0/=
	Insitu concrete class 25/20mm aggregate as described.			
1.09	Foundations in trenches	m ³	17	0/=
1.10	100mm thick ground floor slab tamped to fabric reinforcement.	m ²	145	0/=
	Total Carried to Collection			0/=
	Reinforcement			
1.11	Mesh reinforcement Ref No. A98 size 200 x 200 mm weighing 1.54 kg per square metre: in floor slab: including all necessary supports	m ²	145	0/=
	Sawn formwork as described to:			
1.12	Vertical edges of surface bed : over 75mm but not exceeding 150 mm high.	m	63	0/=

	Brickwork in burnt clay bricks with cement and sand (1:3) mix, laid in suitable bond, with 25 x 3mm hoop iron strips laid horizontally every alternate course.			
1.13	230 mm thick walling.	m ²	88	0/=
	<u>Sundries</u>			
1.14	One layer 1000 gauge polythene sheet damp proof membrane: Under bed: 300mm laps.	m ²	145	0/=
	Damp proof courses: hessian based bituminous felt: bedded in cement and sand (1:4) mortar: 300mm laps.			
1.15	Horizontal : 200mm ditto	m	80	0/=
	Plinth wall, ramp and splash apron			
1.16	50mm Thick bed of sand on compacted ground.	m ²	49	0/=
1.17	15mm Thick cement and sand plaster to plinth walls with wood float finish.	m ²	60	0/=
1.18	125mm (average) thick concrete class 25/20mm aggregate ramp reinforced with and including formwork and fabric mesh reinforcement ref A98 as before described	m ²	8	0/=
1.19	Ditto but 50mm thick concrete splash apron ditto	m ²	49	0/=
1.20	Ditto concrete ramp beam size 60 x 80mm deep with and including necessary excavations, formwork and disposal of surplus soil.	m	12	0/=
1.21	Ditto splash apron beam size 100 x 150mm deep ditto	m	56	0/=
1.22	38mm thick cement and sand (1:3) paving on splash apron wood float finish	m ²	49	0/=
1.23	Prepare and apply three coats of black bituminous paint to plastered surfaces.	m ²	60	0/=
	Total Carried to Collection	1		0/=

			I	
	Earthquake areas / Soils with poor bearing			
	capacity.			
	Note: Rates for excavation to include for keeping			
	excavations free from water and planking and			
	strutting to sides of excavations			
1.24	Excavate trenches for wall foundations:	\mathbf{m}^3		
	commencing from reduced levels : not exceeding			
	1.5m deep .			
	•			
1.25	Selected excavated material in filling to foundation	m ³		
	trenches as before described.			
1.26	Remove surplus excavated material from site	m ³		
1.20	Remove sur plus excavateu material from site	111		
	Duishmoule in bound of an Laisha midd.			
	Brickwork in burnt clay bricks with cement and sand			
	(1:3) mix, laid in suitable bond, with 25 x 3mm hoop			
	iron strips laid horizontally every alternate course.			
4.0=	220 111 1	2		
1.27	230 mm thick walling.	m ²		
	Insitu concrete class 20/20mm aggregate as			
	described.			
1.28	50mm thick blinding to foundations and column	m^2		
	bases			
	Insitu concrete class 25/20mm aggregate as			
	described.			
1.29	Foundations in trenches	m^3		
	Insitu concrete class 25/20mm: vibrated reinforced			
	as described.			
1.30	Foundations in trenches	m ³		
1.50	1 oundations in treffences	111		
1 21	Column Bases	m ³	1	
1.31	Column Dases	111		
4.22		2	<u> </u>	
1.32	Columns	m ³		
	Mild steel rod reinforcement as described.			
1.33	8 mm diameter bar	kg		

		1		1
	High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.			
1.34	12 mm diameter bar	kg		
	Total Carried to Collection			
	Sawn formwork as described to			
1.35	Sides of Column bases	m ²		
1.36	Sides of Columns	m ²		
1.37	Sides of Strip foundations	m ²		
	Total Carried to Collection			
	COLLECTION			
	Page 4/2			0/=
	Page 4/3			0/=

	TOTAL SUBSTRUCTURE TO SUMMARY				0/=
				-	
	ELEMENT NO. 2				
	ROOF				
	Note Items 2.25 to 2.28 are to be priced only for areas				
	that are earthquarke prone or with soils with poor				
	bearing capacity.				
	Insitu concrete class 25/20mm : vibrated, reinforced				
	as described				
	as accorded			 	
2.01	Ding hooms	m ³	4		0/-
2.01	Ring beams	III	4	ļ	0/=
	Mild steel reinforcement as described including				
	cutting to lengths, bending, hoisting and fixing				
	including all necessary tying wire and spacing				
	blocks.				
2.02	8 mm diameter bar	kg			0/=

			125	
	High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.			
2.03	12 mm diameter bar	kg	275	0/=
	Sawn formwork as described to:			
2.04	Sides and soffites of beams	m	171	0/=
	Brickwork in burnt clay bricks with cement and sand (1:3) mix, laid in suitable bond, with 25 x 3mm hoop iron strips laid horizontally every alternate course.			
2.05	230mm Thick gable walling	m ²	12	0/=
	Finishes			
	Cement and sand (1:4) render on concrete or masonry			
2.06	15mm to walls	m ²	12	0/=
	Two coats tyrolene rendering on:			
2.07	Concrete or masonry	m ²	12	0/=
	Total Carried to Collection			0/=
	Roof Construction The following in roof construction including hoisting and fixing approximately 3.0mm above ground level.			

			<u> </u>	
	Sawn cypress pressure impregnated with preservative:-			
	10 No. Trusses type T1; span 6200mm x 1445mm rise			
2.08	50 x 100mm Purlins	m	228	0/=
2.09	50 x 100mm Strut /tie	m	62	0/=
2.10	50 x 150mm Ridge	m	26	0/=
2.11	50 x 150mm Tie beam	m	67	0/=
2.12	50 x 150mm Rafters	m	84	0/=
2.13	50 x 150mm Valley Rafter	m	12	0/=
2.14	75 x 100mm Wall Plate	m	44	0/=
	02No. Trusses type T2; span 3200mm x 766mm rise			
2.15	50 x 100mm Purlins	m	18	0/=
2.16	50 x 100mm Strut /tie	m	10	0/=
2.17	50 x 150mm Tie beam	m	7	0/=
2.18	75 x 100mm Wall Plate	m	4	0/=
	Roof Covering			
2.19	26 Gauge pre-painted profile roofing sheets fixed with side corrugation laps and 150mm end laps with and including galvanized steel drive screws with plastic washers to manufacturer's instructions.	m ²	205	0/=
2.20	28 Gauge plain (pre-coated) roll top ridge capping.	m	28	0/=
2.21	Ditto Valley Piece 1000mm girth	m	9	0/=
	<u>Eaves</u>			
2.22	25 x 225mm Wrot Cypress fascia board	m	69	0/=

				ı
	Total Carried to Collection			0/=
	The state of the s			
	Painting			
	Knot prime stop and apply three coats of gloss oil			
	paint to timber surfaces.			
	puint to timber surjuces.			
2.23	Knot, prime, stop and apply three coats of gloss oil	m	69	0/=
	paint to wood fascia 200-300mm girth.			
	paint to wood fascia 200-300mm girtin.			
	Roof Vents.		T	
	y			
2.24	Roof Vents size 230 x 460mm high filled with	no	3	0/=
	Kajjansi ventilation bricks and bat proof netting			
	complete with all necessary timber framing.			
	complete with an necessary timber framing.			
	Earthquake areas / Soils with poor bearing			
	<u>capacity.</u>			
	Insitu concrete class 25/20mm : vibrated, reinforced			
	as described			
	as aescribea			
2.25	Ring beams	m^3		
	Tang beams	***		
	Mild steel reinforcement as described.			
	Mui steet reinforcement as aescribea.			
2.26	8 mm diameter bar	kg		
2.26		kg		
2.26	8 mm diameter bar	kg		
2.26	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449	kg		
2.26	8 mm diameter bar	kg		
2.26	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449	kg		
	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described.			
	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449	kg		
	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described.			
	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described. 12 mm diameter bar			
	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described.			
2.27	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described. 12 mm diameter bar Sawn formwork as described to:	kg		
2.27	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described. 12 mm diameter bar			
2.27	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described. 12 mm diameter bar Sawn formwork as described to:	kg		
2.27	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described. 12 mm diameter bar Sawn formwork as described to:	kg		
2.27	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described. 12 mm diameter bar Sawn formwork as described to:	kg		
2.26 2.27 2.28	8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described. 12 mm diameter bar Sawn formwork as described to:	kg		0/=

	COLLECTION			
	_			
	-			
	Page 4/6			0/=
			+	
	Dage 4/7			0/_
	Page 4/7			0/=
	Page 4/8			0/=
	TOTAL ROOF CARRIED TO SUMMARY			0/=
	ELEMENTENO 2			
	ELEMENT NO. 3			
	EXTERNAL WALLS			
	Note Items 3.10 to 3.13 are to be priced only for areas			
	that are earthquarke prone or with soils with poor			
	bearing capacity.			
	Brickwork in burnt clay bricks with cement and sand			
	(1:3) mix, laid in suitable bond, with 25 x 3mm hoop			
	iron strips laid horizontally every alternate course.			
3.01	230mm thick walling.	m ²		0/=
			128	
	Precast concrete louvre block walling in cement sand			
	mortar (1:3) with pointed joints to approval.			
	J. J. TEE			
3.02	230mm thick walling	m ²	2	0/=
				0,-
	Down an out Vouta			
	Permanent Vents		1	

3.03	Permanent Vent filled in with Kajjansi ventilation bricks and bat proof gauze and coffee tray wire backing complete with necessary timber framing and beading.	m ²	5	0/=
	Metal work			
	Metat work			
3.04	100mm diameter x 3100mm galvanised iron class B pipe support with bottom end welded to 110 x 110 x 6mm thick plate set in and including concrete (1:3:6) base size 200 x 200 x 200mm deep and 100 x 80 x 6mm U-plate welded on top end	no	2	0/=
3.05	12mm diameter bolt with nut and washer including drilling 2 No. 14mm diameter holes	no	2	0/=
	Cement and sand (1:4) render trowelled smooth on concrete or masonry			
3.06	15mm to walls.	m ²	141	0/=
	Two coats tyrolene rendering on:			
3.07	Concrete or masonry	m ²	128	0/=
	Painting: 'Sadolin Paints' or equal and approved.			
3.08	Prepare and apply one undercoat and two finishing coats matt vinyl paint on plastered surfaces.	m ²	153	0/=
	Total Carried to Collection			0/=
3.09	Prepare and apply three coats gloss oil paint on steel pipe support 200-300mm girth	m	6	0/=
	Earthquake areas / Soils with poor bearing capacity.			
	Insitu concrete class 25/20mm : vibrated, reinforced as described			
3.10	Columns	\mathbf{m}^3		
~	O O A GALLELIO			

	Mild steel rod reinforcement as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.		
	Diocks.		
3.11	8 mm diameter bar	kg	
	High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.		
3.12	12 mm diameter bar	kg	
	Sawn formwork as described to		
3.13	Sides of Column	m ²	
	Total Carried to Collection		0/=
	COLLECTION		
	Page 4/9		0/=
	Page 4/10		0/=
	TOTAL EXTERNAL WALLS TO SUMMARY		0/=

	ELEMENT NO. 4			
	WINDOWS & EXTERNAL DOORS			
	Concrete Work			
	Precast concrete Class 25/12mm lintel reinforced as			
	described including all necessary formwork and			
	hoisting and fixing in position.			
	8 J 8 I			
4.01	230 x 230 mm high	m	5	0/=
	Precast concrete Grade '30' units reinforced as			
	necessary and finished fair face on all exposed sides.			
4.02	75 x 325 mm sunk weathered and throated window	m	21	0/=
	cill			
	Purpose made steel casement windows manufactured			
	from standard W20 sections: manufacture, assemble			
	and deliver to site: Supply and fix ironmongery			
	comprising approved hinges, pivoting mechanisms,			
	stays, fasteners to opening lights: plugged and			
	screwed or built into walling : one coat red oxide			
	primer before delivery.			
4.03	Window type W4 : Size 600 x 600mm overall	no	2	0/=
	height: 1No. top hung opening lights size 600 x			
	300mm high: fixed bottom light size 600 x 300mm			
	high.			
4.04	Window type W3 : Size 1500 x 900mm overall	no	1	0/=
	height: 2No. side hung opening lights size 500 x			
	900mm high: 1 No. fixed middle light size 500 x			
	900mm high.			
4.05	W. 1 . W. C. 1500 1300 H		0	0/
4.05	Window type W1 : Size 1500 x 1200mm overall	no	9	0/=
	height: 2No. side hung opening lights size 500 x			
	1200mm high: 1 No. fixed middle light size 500 x			
	1200mm high.			
	Puralar proofing quille comprising 12			
	Burglar proofing grille comprising 12mm square			
	bars 150mm centres both ways in cobweb pattern as described.			
	ueser weu.			
4.06	Window type W4 : Size 600 x 600mm overall height	1		0.1
	Window type W4 · Size bill v billimm oversii belant	no	2	0/=

4.07	Window type W3 : Size 1500 x 900mm overall height.	no	1	0/=
	neight			
4.08	Window type W1 : Size 1500 x 1200mm overall height.	no	9	0/=
	Total Carried to Collection			0/=
	Purpose made steel casement doors manufactured from Standard W20 Sections as described.			
4.09	Door size 1500 x 2100mm high in two opening leaves one 900mm and other 600mm wide (D1).	no	2	0/=
	Purpose made steel pannelled doors manufactured from 2mm thick mild steel plates welded both sides to RHS frames with fixing lugs cast into walling: Supply and fix approved hinges: one coat red oxide primer before delivery.			
4.10	Door size 900 x 2100mm high (D4).	no	1	0/=
	Supply and fix the following ironmongery of "UNION" Manufacture and to Architects approval complete with matching fixings to hardwood or steel			
4.11	25mm Rubber door stop plugged to wall or floor.	no	5	0/=
4.12	3 Lever Steel door lock complete with lever furniture	no	1	0/=
4.13	3 Lever Steel door rebated lock complete with lever furniture	no	2	0/=
	Glass and Glazing			
4.14	4mm thick clear sheet glass to metal window with putty	m ²	23	0/=
4.15	Ditto but obscure glass	m ²	1	0/=
	n · · ·			
	Painting Prepare touch up primer and apply one undercoat			
	and two finishing coats of gloss oil paint: on			

metalwork.			
Glazed metal surfaces	m ²	32	0/=
Burglar proofing grilles	m ²	16	0/=
Metal Door and frame	m ²	4	0/=
Total Carried to Collection			0/=
- COLLECTION			
Page 4/11			0/=
Page 4/12			0/=
TOTAL WINDOWS & EXTERNAL DOORS TO SUMMARY			0/=
ELEMENT NO. 5			
INTERNAL WALLS & PARTITIONS			
Note Items 5.02 to 5.05 are to be priced only for areas that are earthquarke prone or with soils with poor bearing capacity.			
Brickwork in burnt clay bricks with cement and sand (1:3) mix, laid in suitable bond, with 25 x 3mm hoop iron strips laid horizontally every alternate course.			
230mm Thick walling.	m ²	82	0/=
Earthquake areas / Soils with poor bearing capacity.			
Insitu concrete class 25/20mm : vibrated, reinforced as described			
Columns	m ³		
Mild steel rod reinforcement as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.			
	Glazed metal surfaces Burglar proofing grilles Metal Door and frame Total Carried to Collection COLLECTION Page 4/11 Page 4/12 TOTAL WINDOWS & EXTERNAL DOORS TO SUMMARY ELEMENT NO. 5 INTERNAL WALLS & PARTITIONS Note Items 5.02 to 5.05 are to be priced only for areas that are earthquarke prone or with soils with poor bearing capacity. Brickwork in burnt clay bricks with cement and sand (1:3) mix, laid in suitable bond, with 25 x 3mm hoop iron strips laid horizontally every alternate course. 230mm Thick walling. Earthquake areas / Soils with poor bearing capacity. Insitu concrete class 25/20mm: vibrated, reinforced as described Columns Mild steel rod reinforcement as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing	Glazed metal surfaces m² Burglar proofing grilles m² Metal Door and frame m² Total Carried to Collection COLLECTION Page 4/11 Page 4/12 TOTAL WINDOWS & EXTERNAL DOORS TO SUMMARY ELEMENT NO. 5 INTERNAL WALLS & PARTITIONS Note Items 5.02 to 5.05 are to be priced only for areas that are earthquarke prone or with soils with poor bearing capacity. Brickwork in burnt clay bricks with cement and sand (1:3) mix, laid in suitable bond, with 25 x 3mm hoop iron strips laid horizontally every alternate course. 230mm Thick walling. m² Earthquake areas / Soils with poor bearing capacity. Insitu concrete class 25/20mm: vibrated, reinforced as described Columns m³ Mild steel rod reinforcement as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing	Glazed metal surfaces m² 32 Burglar proofing grilles m² 16 Metal Door and frame m² 4 Total Carried to Collection COLLECTION Page 4/11 Page 4/12 TOTAL WINDOWS & EXTERNAL DOORS TO SUMMARY ELEMENT NO. 5 INTERNAL WALLS & PARTITIONS Note Items 5.02 to 5.05 are to be priced only for areas that are earthquarke prone or with soils with poor bearing capacity. Brickwork in burnt clay bricks with cement and sand (1:3) mix, laid in suitable bond, with 25 x 3mm hoop iron strips laid horizontally every alternate course. Earthquake areas / Soils with poor bearing capacity. Insitu concrete class 25/20mm: vibrated, reinforced as described Columns m³ Mild steel rod reinforcement as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing

		1	<u> </u>	
5.03	8 mm diameter bar	kg		
	High yield tensile steel bar reinforcement to BS 4449			
	as described including cutting to lengths, bending,			
	hoisting and fixing including all necessary tying wire			
	and spacing blocks.			
5.04	12 mm diameter bar	lva		
5.04	12 mm diameter par	kg		
	Sawn formwork as described to			
5.05	Sides of Column	m ²		
	MOTERAL INVESTIGATION OF THE PROPERTY OF THE P			0/
	TOTAL INTERNAL WALLS & PARTITIONS			0/=
	TO SUMMARY			
	ELEMENT NO. 6			
	INTERNAL DOORS			
	Precast concrete Class 25/12mm lintel reinforced			
	with 4No. 12 mm high tensile steel bars and 8mm			
	steel stirrups at 200 mm centres and including all			
	necessary formwork and hoisting and fixing in			
	position.			
	position.			
C 01	220 220		10	0.1
6.01	230 x 230 mm high	m	10	0/=
	Solid core flush doors: 6mm thick internal quality			
	plywood facing both sides: hardwood lipping to all			
	edges.			

6.02	45mm Door size 825 x 2050mm high (D5).	no	4	0/=
6.03	Ditto size 1450 x 2050mm high in two opening	no	4	0/=
	leaves one 850mm and other 600mm wide (D2).			
	West Makes are a Salastad and heat Claus			
	Wrot Mahogany: Selected and kept Clean			
6.04	25 x 50mm Architrave: two labours	m	87	0/=
010 1	20 12 0 12 12 12 12 12 12 12 12 12 12 12 12 12			0,
6.05	50 x 150mm Door frame: two labours	m	44	0/=
6.06	50 x 150mm Transome: Ditto	m	4	0/=
605	12 41:1 100 025		10	0/
6.07	12mm thick x 100 x 825mm long louvres set and including forming 36 No. 12 x 100mm wide grooves	m	10	0/=
	including for ming 50 No. 12 x 100mm wide grooves			
	Supply and fix the following ironmongery of			
	"UNION" Manufacture and to Architects approval			
	complete with matching fixings to hardwood or steel			
6.08	Butt Hinges, 75 x 100mm : finished stainless steel.	prs	6	0/=
6.09	Double barrel, double action spring hinge: frame	prs	8	0/=
	mounted			
6.10	25mm Rubber door stop plugged to wall or floor.	no	12	0/=
0.10	25mm Rubber door stop plugged to wan or floor.	110	12	0/-
6.11	3 Lever Mortice Lock complete with lever furniture	no	4	0/=
	•			
6.12	3 Lever rebated Dead lock ditto	no	4	0/=
6.13	150 x 300mm Aluminuim push plate	no	8	0/=
	Class and Clarino			
	Glass and Glazing			
6.14	6mm Thick x 200 x 300mm high clear sheet glass	no	8	0/=
· •	vision panel fixed with and including 19 x 25mm			"
	timber beading.			
	Total Carried to Collection			0/=
	Painting			
	D W . D			
	Prepare Knot, Prime, stop and apply three coats of			
	gloss oil paint : on woodwork			

6.15	General Surfaces : doors	m ²	40	0/=
6.16	Ditto: over 200 but not exceeding 300mm girth	m	50	0/=
6.17	Ditto not exceeding 100mm girth (Architraves and Louvres).	m	104	0/=
6.18	Prime back of frame before fixing	m	44	0/=
	Total Carried to Collection			0/=
	COLLECTION			
	Page 4/14			0/=
	Page 4/15			0/=
	TOTAL INTERNAL DOORS TO SUMMARY			0/=
	TOTAL INTERNAL DOORS TO SUMMART			0/-

		1	1	1
			+	
	ELEMENT NO. 7			
	INTERNAL FINISHES			
	Floor Finishes			
		+		
		1		
	Cement and sand (1:4) screeds and pavings : one			
	coat: steel trowell finish: laid on concrete	<u> </u>		
7.01	30mm thick paving.	m ²		
7.01	John thek paving.	1111		
7.02	125 x 125mm coved skirting	m		
	Supply and fix the following terrazzo:			
	mechanically polished to finished smooth:			
	including plastic division strips at 2000mm centres.			
7 01D	32mm Thick terrazzo	m^2		Δ/
7.01B	32mm 1 mck terrazzo	III-	440	0/=
			118	
7.02B	25 x 100mm skirting with square top edge and	m		0/=
	coved junction at bottom.		104	
	coved junction at bottom.		107	
		1		
	Wall Finishes			
		1		
	15mm thick to Cement:Sand:Lime (mix 1:2:9)	m ²		0/=
7.02		1 III "		U/=
7.03	· · · · · · · · · · · · · · · · · · ·		226	
7.03	plaster, steel trowell finish to walls.		236	
7.03	· · · · · · · · · · · · · · · · · · ·		236	
7.03	plaster, steel trowell finish to walls.		236	
7.03	plaster, steel trowell finish to walls. Supply and fix the following terrazzo:		236	
7.03	plaster, steel trowell finish to walls. Supply and fix the following terrazzo: mechanically polished to finished smooth:		236	
7.03	plaster, steel trowell finish to walls. Supply and fix the following terrazzo:		236	
7.03	plaster, steel trowell finish to walls. Supply and fix the following terrazzo: mechanically polished to finished smooth:		236	
7.03 7.01B	plaster, steel trowell finish to walls. Supply and fix the following terrazzo: mechanically polished to finished smooth:	m ²	236	0/=

Painting: 'Sadolin Paints' or equal and approved.			
Prepare and apply one undercoat and two finishings coats of matt vinyl paint to plastered surfaces.	m ²	236	0/=
Ceiling Finishes			
9 x 24 SWG galvanized expanded metal lathing Unailed to timber branderings	m ²	-	0/=
Cement and sand (1:4) pricking course to metal lathing	m ²	-	0/=
12mm lime plaster to ceiling	m ²	-	0/=
Extra for 150 x 150mm thick cement and sand (1:3) cornice	m	135	0/=
Ceiling Structure			
Pressure impregnated sawn Cypress			
50 x 100mm branderings	m	333	0/=
50 x 100mm joists	m	135	0/=
Painting Painting			
Prepare and apply three coats of first grade emulsion paint on:.			
Plastered ceiling	m ²	118	0/=
Cornice : Over 100 but not exceeding 200mm girth.	m	135	0/=
Total Carried to Collection			0/=
<u>Earthquake</u>			
	Prepare and apply one undercoat and two finishings coats of matt vinyl paint to plastered surfaces. Ceiling Finishes 9 x 24 SWG galvanized expanded metal lathing Unailed to timber branderings Cement and sand (1:4) pricking course to metal lathing 12mm lime plaster to ceiling Extra for 150 x 150mm thick cement and sand (1:3) cornice Ceiling Structure Pressure impregnated sawn Cypress 50 x 100mm branderings 50 x 100mm joists Painting Prepare and apply three coats of first grade emulsion paint on:. Plastered ceiling Cornice: Over 100 but not exceeding 200mm girth.	Prepare and apply one undercoat and two finishings coats of matt vinyl paint to plastered surfaces. Ceiling Finishes 9 x 24 SWG galvanized expanded metal lathing Unailed to timber branderings Cement and sand (1:4) pricking course to metal lathing 12mm lime plaster to ceiling Extra for 150 x 150mm thick cement and sand (1:3) m cornice Ceiling Structure Pressure impregnated sawn Cypress 50 x 100mm branderings m Fainting Prepare and apply three coats of first grade emulsion paint on:. Plastered ceiling Cornice: Over 100 but not exceeding 200mm girth. Total Carried to Collection	Prepare and apply one undercoat and two finishings coats of matt vinyl paint to plastered surfaces. Ceiling Finishes

	For Earthquake areas / Soils with poor bearing		
	capacity price the following items in lieu of items		
	7.11 - 7.14.		
7.13	6mm Thick internal quality plywood nailed to	m ²	
	branderings.		
7.14	25 x 45mm Wrot Hardwood Cornice.	m	
	Total Carried to Collection		
	COLLECTION		
	Page 4/16		0/=
	Page 4/17		0/=
	TOTAL INTERNAL FINISHES TO SUMMARY.		0/=

		1		
			+ +	
			+	
	ELEMENT NO. 8			
	FITTINGS AND FIXTURES			
	Curtain Boxes			
	Curtuin Boxes		-	
8.01	Pelmet box comprising 150 x 25mm Fascia, 125 x	m	20	0/=
	25mm top 150 x 125 x 25mm stopped ends jointed			
	together, complete with and including I-section			
	aluminium curtain rail with rollers			
	aluminum curtam ran with rollers			
	Prepare and apply three coats of polyurethane			
	lacquer: on woodwork			
	_			
8.02	General surfaces of pelmet boxes	m ²	13	0/=
0.04	General surfaces of permet boxes	111	13	0/-
8.03	Purpose made steel service hatch size 900 x 750mm	no	1	0/=
	high to detail			
	Community Down L. Comta		+ +	
	Concrete Bench Seats			
8.04	75mm Thick reinforced concrete (1:2:4) slab	m^2	3	0/=
	finished smooth on exposed surfaces with 12mm			
	cement and sand (1:3) screed.			
	cement and sand (1.3) serecu.		+ +	
0.05	0 4 4 4 4 4 1	1		0.1
8.05	Concrete (1:2:4) beam size 200 x 185mm deep	m	8	0/=
	reinforced with and including 4 No. Y12 steel bars,			
	R8 links at 200mm centres and formwork.			
		1		
8.06	Fabric mesh reinforcement ref. A98 laid in slab	m ²	3	0/=
0.00	rabite mesh remorcement fer. Ayo iaiu iii siab	111	3	U/=
8.07	Sawn formwork to soffite of slab	m ²	3	0/=
		1		
Ø 00	Ditto adge of alsh 75mm high	-	7	0/=
8.08	Ditto edge of slab 75mm high	m	/	U/=

8.09	25 x 200mm deep hardwood bench back screwed to wall with and including three coats clear varnish	m	5	0/=
	Concrete wall shelving			
8.10	75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed.	m ²	12	0/=
8.11	Concrete (1:2:4) beam size 200 x 185mm deep reinforced with and including 4 No. Y12 steel bars, R8 links at 200mm centres and formwork.	m	24	0/=
8.12	Fabric mesh reinforcement ref. A98 laid in slab	m ²	12	0/=
8.13	Sawn formwork to soffite of slab	m ²	12	0/=
8.14	Ditto edge of slab 75mm high	m	24	0/=
	Total Carried to Collection			0/=
	Concrete Work top			
8.15	100mm concrete plinth	m ²	2	0/=
8.16	Concrete (1:2:4) beam size 200 x 185mm deep reinforced with and including 4 No. Y12 steel bars, R8 links at 200mm centres and formwork.	m	5	0/=
8.17	75mm Thick reinforced concrete (1:2:4) slab finished with 15mm terrazzo finish on exposed surfaces.	m ²	2	0/=
8.18	Fabric mesh reinforcement ref. A98 laid in slab	m ²	2	0/=
8.19	Wrot formwork to soffite of slab	m ²	2	0/=
8.20	Ditto edge of slab / plinth 75 - 150mm high	m	6	0/=
8.21	25mm thick blockboard door, shelf, back and base with hardwood lipping to exposed edges	m ²	15	0/=

8.22	25 x 25mm softwood bearer	m	6	0/=
0.22	50 50 1111		10	0/
8.23	50 x 50mm ditto	m	10	0/=
8.24	Approved cupboard lock	no	1	0/=
0,21	ripproved cupbourd lock	110		0/-
8.25	75mm steel butt hinges	prs	2	0/=
8.26	Approved ball catch	no	2	0/=
8.27	Ditto pull handles	no	2	0/=
8.28	Prepare and apply three coats gloss oil paint on wood surfaces.	m ²	15	0/=
8.29	Ditto to frame not exceeding 100mm girth.	m	9	0/=
	Total Carried to Collection			0/=
	COLLECTION			
	COLLECTION			
	Page 4/18			0/=
	D 4/40			0/
	Page 4/19			0/=
	TOTAL FITTINGS & FIXTURES TO SUMMARY.			0/=
	ELEMENT NO. 9			
	MECHANICAL INSTALLATION			
	Supply, install, connect and set to work the following, all as described in the Specifications and Drawings.			

	Sanitary Appliances				
9.01	18 Gauge Stainless Steel Sink as ARMITAGE SHANKS htm64 STIRLING bi with right hand slop hopper, S6510 (531904Y) (DU-H), complete with 2No. 12mm Markwik bib taps S8270AA (806041DCP), 38mm plastic domed strainer waste S885067 (90568NOSC), 38mm plastic bottle trap S891567 (70238Q4SC), Clener high level 6 litre cistern and cover, S3955(1718AD) with freeflow plastic syphon fittings, internal overflow, chain and pull or equal approved.	no	1		0/=
9.02	1.2m x 0.6m Doon double bowl sink with tapholes and no overflows, in Stainless Steel (18 gauge), as ARMITAGE SHANKS, HTM64 DOON DOUBLE SINK, S5864 (533113U), complete with 2No. 12mm Markwik, lever operated, wall mounted mixer taps with horizontal spray outlets and concealed supplies, S8231 (801147X), 38mm plastic resealing bottle trap with removable sump S891567 (70238Q4SC) or equal approved.	no	1		0/=
9.03	60cm Acrylic Towel Rail with brackets, as ARMITAGE SHANKS MAYFAIR S5014 (20811TR) or equal approved	no	3		0/=
	Assisted Bath Facility.				
9.04	Glass fibre Assisted Shower with reinforced base and aluminium framing, with a right hand drain as ARMITAGE SHANKS SYNERGY 200 S6813 (00CP004), complete with lever operated concealed thermostatic shower valve S6857 (80444AG), 60cm hand rail S6896 (7788400), folding shower seat with legs S6850 (5847000WW) complete with all accessories	no	1		0/=
		1	1	+	

	Total Carried to Collection			0/=
	ARMITAGE SHANKS DOC M STANDARD PACK			
	for LEFT corner arrangement, consisting of the			
	following as illustrated in the catalogue CI/SfB (74)			
	Uniclass L721 June 2002, Page 17:3:1:-			
9.05	White Vitreous China Ventura BTW WC pan	no	1	
	S3465 (149401A), Laminate faced spacer box unit			
	with access panel S5375 (7774000), Panekta			
	<u> </u>			
	connectors that converts to turned S-trap S4300			
	(9014000), complete with 6 litre capacity cistern for			
	side supply and internal overflow S3900			
	(17730AA), 2No. 60cm vertical grab rails and 1No.			
	60cm horizontal grab rail S6896 (7788400), 1No.			
	45cm pull rail for back of door S6894 (7788200),			
	1No. hinged support rail S6912 (7797100), 40cm x			
	25cm backrest rail S6888 (7780000), Cushioned			
	back support withclips S6884 (7773100), 15cm x			
	15cm mayfair semi-recessed toilet roll holder S5004			
	(2053100) and all accessories			
9.06	White Vitreous China Wash hand basin with	no	2	0/=
	central tapholes as ARMITAGE SHANKS,			
	VENTURA 37, S2785 (119615S) complete with			
	12mm pillar taps S7100 (6973400), 38mm plastic			
	domed strainer waste S885067 (90568NOSC),			
	38mm plastic bottle trap S891567 (70238Q4SC) or			
	equal approved with all accessories.			
9.07	Polished mirror plate, beveled edge 300 x	no	1	0/=
	450x6mm.			
	i coxomini			
	Water Crank to Appliances			
	Water Supply to Appliances			
0.00			_	
9.08	25 mm class B cold water pipe,burried in the	m	8	0/=
9.08	25 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct	m	8	0/=
9.08		m	8	0/=
9.08	ground, burried in wall, clipped to wall, or in duct	m	8	0/=
	ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories.			
9.08	ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe,burried in the	m m	6	0/=
	ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories.			

9.10	12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings	m	15	0/=
	and accessories.			
9.11	12mm gate valves as Peglar heavy duty or equal approved.	no	2	0/=
9.12	20mm gate valves as Peglar heavy duty or equal approved.	no	1	0/=
	Total Carried to Collection			0/=
9.13	25mm gate valves as Peglar heavy duty or equal approved.	no	1	0/=
9.14	Flexible tubes (stainless steel braid on PVC) for connection of appliances, complete.	no	6	0/=
	Water Supply			
9.15	6000 litre stainless steel tank (as manufactured by MS. Steel and Tubes Industries (U) Limited, or other similar approved supplier) placed on Ground Concrete base, complete with all accessories.	no	1	0/=
9.16	25mm gate valves as Peglar heavy duty or equal approved.	no	1	0/=
9.17	12mm Stand pipe, complete with 12mm bib tap and all accessories	item	1	0/=
9.18	1.5m high Ground concrete water tank base, made in masonry brickwork, well compacted hardcore, with 150mm thick slab on top as shown in drawing, for the above water tank, complete.	no	1	0/=
	Internal Drainage			
9.19	38mm PVC heavy gauge pipes complete with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap.	m	20	0/=

9.20	50mm PVC heavy gauge pipes complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap.	m	10	0/=
9.21	110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap.	m	10	0/=
	External Drainage			
9.22	110mm PVC heavy gauge pipe work buried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories.	m	50	0/=
9.23	Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, with steel cover and all accessories.	no	3	0/=
9.24	Manhole 450x600mm in masonry brickwork, rendered smooth inside complete with benching, heavy duty manhole cover made out of concrete and angles and all accessories.	no	4	0/=
	Total Carried to Collection			0/=
9.25	Septic Tank for 20 people; size approx. 2850 x 675 x 900mm in masonry brickwork, rendered smooth inside complete with inlet and outlet manholes benching, heavy duty manhole cover made out of concrete and angles and all accessories.	no	1	0/=
9.26	Soak Pit Size approx. 2500mm on top tappering to 1500mm and depth of 1500mm complete with hardcore and all accessories.	no	1	0/=
	Total Carried to Collection			0/=
		1	1	
	COLLECTION			

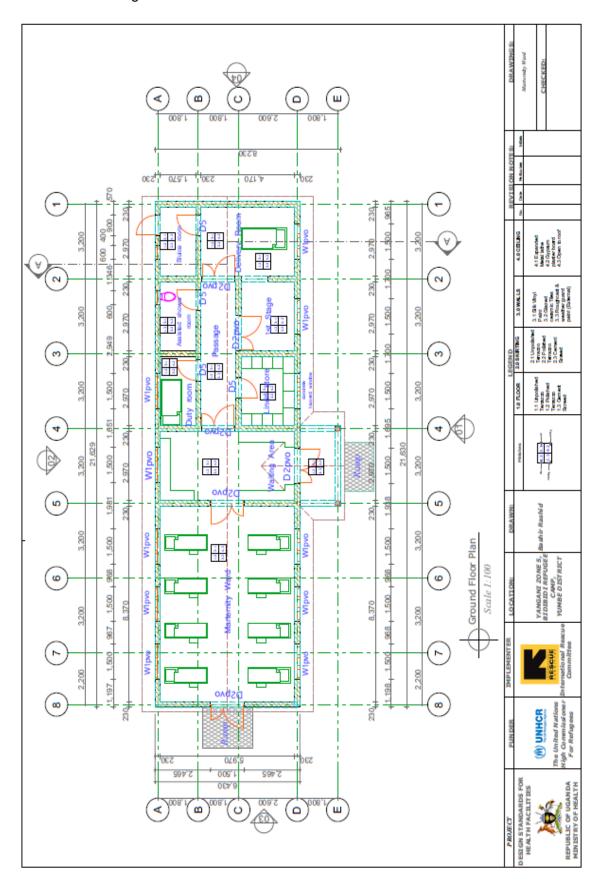
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Page 4/22			0/=
1 450 7/22			0/-
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1 age 4/23			0/-
	+		
TOTAL MECHANICAL INSTALLATION TO			0/=
SUMMARY.			
	+		
	1		
	+		
		Ι Τ	
	 		
ELEMENT NO. 10	+		
	1 1	1 1	
ELECTRICAL INSTALLATION			

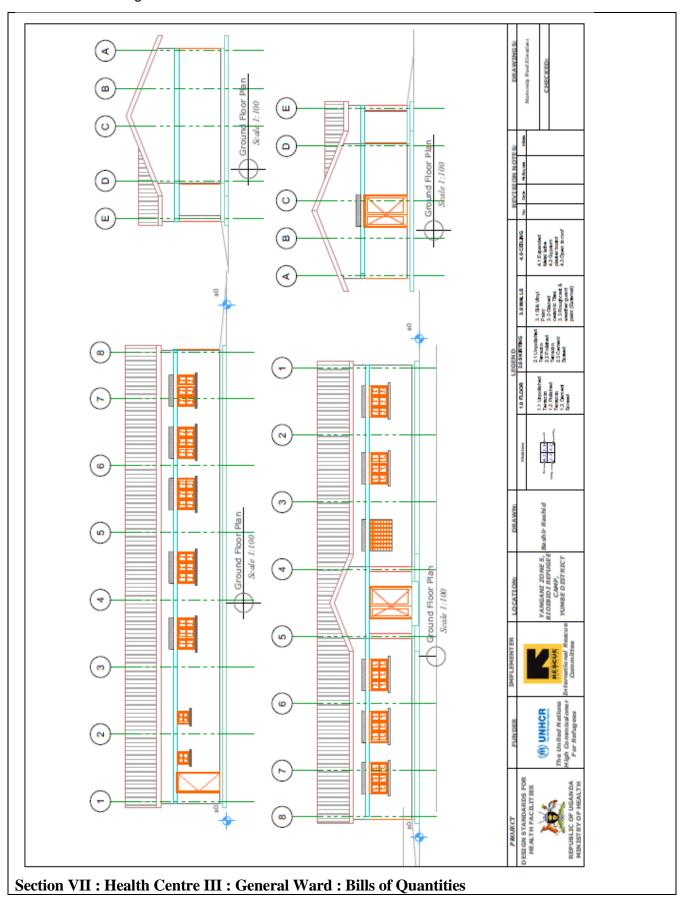
	Supply, install, connect and set to work the following, all as described in the Specifications and Drawings.				
	Power Supply				
10.01	100A 9-Way SPN MCB Consumer Unit flush mounting complete with integral isolator, MCBs and all accessories as MEM, CRABTREE or equal approved.	no			
10.02	Supply Cable 25mm ² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from UEDCL meter to the consumer Unit above.	m			
10.03	Meter box to contain UEDCL meter and cutouts.	no			
10.04	Main Earth at adaptable box by 25mm ² PVC copper cables to copper electrode in manhole complete with all accessories.	item			
10.05	D	•4	1		0/
10.05	Provisional Sum of UGShs. 1,000,000/= for supply and installation of a change-over switch, complete with all associated accessories: to enable a convinient shift from generator power supply to the installed solar power supply and vice-versa	item	1		0/=
	Liahtina				
	<u>Lighting</u>				
10.06	Lighting points wired by 1.5mm ² twins with earth PVC-I copper cables in 20mm pvc conduits.	no			
10.07	1 x 36W 1200mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved.(F1 & F2)	no			
10.00	Cost Alemania D. H.L. J. C. 100W D.C. O.C.	NT :			
10.08	Cast Aluminium Bulkhead, for 100W BC GLS lamps, with glass bowl retained by tamper resistant fixings, IP65 protection, as Thorn OLG Cat. No. OLG 1100BC or equal approved (Source: Comprehensinve product catalogue 1999, Page 406) (Light F6).	No			
		1	1	1	1

	approved equal.			
10.10	6A 1 1gang 2 way moulded switch as MK or approved equal.	no		
	Total Carried to Collection			0/=
	Sockets			
10.12	Socket outlet point wired by 2.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits and all accessories.	no		
10.13	13A 2gang switched socket outlet as MK, in MK boxes complete with all accessories.	no		
	Solar Power Solar Power Supply and Lighting			
10.14	Solar Panel, with Peak power of 120W, Max.Current of 4.5A, Max. Voltage of 17V DC, Short circuit current of 4.8A, Open circuit voltage of 21.4V DC, as SIEMENS SP75, BP SOLAR BP 275 or equal approved.	no	6	0/=
10.15	Galvanised steel supporting structure mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all accessories.	no	1	0/=
10.16	4Way SPN MCB Consumer Unit as MEM or equal approved.	no	1	0/=
10.17	Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved.	no	2	0/=
10.18	Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved.	no	1	0/=
10.19	Deep Cycle Maintenance Free Solar Batteries, of 200AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved.	no	6	0/=

10.20	Battery cable with fuse and interconnecting cables	item	1	0/=
	to Consumer unit.		_	
10.21	Earth installation by 25mm ² PVC copper cables to copper electrode in manhole complete with all accessories.	item	1	0/=
10.22	Supply Cable 10mm ² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar Power Consumer Unit CU2.	m	15	0/=
	Total Carried to Collection			0/=
	Total Callieu to Collection			U /=
10.23	Lighting points wired by 1.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all accessories.	no	38	0/=
10.24	1 x 18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved(F2).	no	10	0/=
10.25	1 x 36W 1200mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved(F2).	no	26	0/=
10.26	1 gang 1 way 6A moulded switch as MK or approved equal.	no	24	0/=
	Lightning Protection			
10.27	Copper tape of Hard Drawn High conductivity copper plate 3mm x 25mm cross section for Down Conductors, bonded to the iron sheet roof complete with fixing clips and all accessories as by FURSE or equal.	m	20	0/=
10.28	Air terminals complete with Tape Adapter and all accessories as by FURSE or equal.	no	2	0/=

10.30	Earth electrodes made from Hard drawn copper or copper weld 20mm diameter by 1200mm in two length screwed together complete with cap, earth clamp, manhole and all accessories.	no	2	0/=
	Fire Fighting			
10.31	9kg powder type wall mounted fire extinguisher as ANGUS or equal approved.	no	2	0/=
	Total Carried to Collection			0/=
	COLLECTION			
	Page 4/24			0/=
	Page 4/25			0/=
	Page 4/26			0/=
	TOTAL ELECTRICAL INSTALLATION TO SUMMARY.			0/=





Item	Description	Unit	Qty	Rate	Amount
100111	Description		Qij	Ushs	Ushs
				CSIIS	CSIIS
	HEALTH CENTRE III				
	BILL NO. 3 : GENERAL WARD				
	SUMMARY				
	SUBSTRUCTURE				
1					
	ROOF				
2					
	EXTERNAL WALLS				
3					
	WINDOWS & EXTERNAL DOORS				
4					
	TAMEDALLA MALA GA DA DESTENDA				
_	INTERNAL WALLS & PARTITIONS				
5					
	INTERNAL DOORS				
6	INTERNAL DOURS				
U					
	INTERNAL FINISHINGS				
	INTERNAL FINISHINGS		1		

			1	
7				
	FITTINGS & FURNISHINGS			
8				
	MECHANICAL INSTALLATION			
9				
	ELECTRICAL INSTALLATION			
10				
	TOTAL GENERAL WARD TO			
	GENERAL SUMMARY			
	ELEMENT NO 1			
	SUBSTRUCTURE			
	(All Provisional)			
	Note Items 1.24 to 1.37 are to be priced			
	only for areas that are earthquarke prone			
	or with soils with poor bearing capacity.			
	or with soils with poor bearing capacity.			
	G'(P		1	
	Site Preparation			
	Excavate oversite to remove top soil	m^2		
1.01	average 250mm thick and remove from		660	
	site.			
			1	0/=
	Two of course on of course 21 filling	m^2		<i>UI</i> —
4.00	Treat surface of subsoil or fillings and	m²		
1.02	surroundings with approved chemical		660	
	anti-termite solution: provide ten year			
	guarantee.			
				0/=
	Excavation and Earthworks.			0/=
	Lacuranon ana Lannworks.			 UI —

		1	<u> </u>	
	Note: Rates for excavation to include for			0/=
	keeping excavations free from water and			
	planking and strutting to sides of			
	excavations			
				0/=
	Excavate to reduce levels and remove	m ³		
1.03	from site.		330	
1.03	nom site.		330	0/=
		3		0/=
1.04	Excavate trenches for wall foundations:	m ³	455	
1.04	commencing from reduced levels : not		155	
	exceeding 1.5m deep .			
				0/=
	Extra over excavation for excavating in	m^3		
1.05	rock		4	
				0/=
	Disposal of excavated material			0/=
				0/=
	Selected excavated material in filling to	m ³		0,-
1.06	foundation trenches : around walling :	111	95	
1.00			95	
	placed in 200mm layers: watered and			
	compacted to 95% MDD			
				0/=
	Remove surplus excavated material from	m^3		
1.07	site		60	
				0/=
	Hardcore			0/=
				0/=
	150mm Filling : deposit, spread, level	m ²		0,
1.08	and compact: 25mm selected quarry	***	72	
1.00	dust blinding.		12	
	dust billiding.			0/
	7 1 20 /20			0/=
	Insitu concrete grade 20 / 20mm aggregate			0/=
	as described.			
				0/=
	Foundations in trenches	m^3		
1.09			21	
				0/=
	100mm thick ground floor slab tamped	m ²		
1.10	to fabric reinforcement.		246	
		1		
	Total Carried to Collection			
_	Reinforcement			

	-	,	,	
	Mesh reinforcement Ref No. A98 size 200	m ²		
1.11	x 200 mm weighing 1.54 kg per square		246	
	metre: in floor slab: including all			
	necessary supports			
	, and the same of			0/=
	Sawn formwork as described to:			0/=
	Sawn Johnwork as aescribea to.			0/=
	Vertical address of surface had a ever			0/-
1 10	Vertical edges of surface bed : over	m	00	
1.12	75mm but not exceeding 150 mm high.		90	
				0/=
	Brickwork in burnt clay bricks in cement			0/=
	and sand mortar $(1:3)$ mix, , with $25 x$			
	3mm hoop iron strips laid horizontally			
	every alternate course.			
	·			0/=
	230 mm thick walling.	m ²		
1.13			196	
			22 0	0/=
	Sundries			0/=
	Sunaries			0/=
	0	m ²		0/=
	One layer 1000 gauge polythene sheet	m²	246	
1.14	damp proof membrane : Under bed :		246	
	300mm laps.			
				0/=
	Damp proof courses: hessian based			0/=
	bituminous felt: bedded in cement and			
	sand (1:4) mortar : 300mm laps.			
				0/=
	Horizontal: 230mm ditto	m		
1.15			200	
				0/=
	Plinth wall, ramp and splash apron			0/=
	T mun, rump und spiusit uprott			0/=
	50mm Thick had of sand an assume at all	m ²		0/-
1.17	50mm Thick bed of sand on compacted	11112	65	
1.16	ground.		65	
	<u> </u>	-		0/=
	15mm Thick cement and sand plaster to	m ²		
1.17	plinth walls with wood float finish.		45	
				0/=
	125mm (average) thick concrete class	m ²		
1.18	25/18mm aggregate ramp reinforced		9	
_	with and including formwork and fabric			
	mesh reinforcement ref A98 as before			
	described			
	accessive a			0/=
-	Ditto but 50mm thick concrete colors	m ²		0/-
	Ditto but 50mm thick concrete splash	1111		

1.19	apron ditto		65	
				0/=
1.20	Ditto concrete ramp beam size 60 x 80mm deep with and including necessary excavations, formwork and disposal of surplus soil.	m	12	
	•			0/=
1.21	Ditto splash apron beam size 100 x 150mm deep ditto	m	92	
	-			0/=
1.22	38mm thick cement and sand (1:3) paving on splash apron wood float finish	m ²	65	
				0/=
1.23	Prepare and apply three coats of black bituminous paint to plastered surfaces.	m ²	45	
	Total Carried to Collection			
	Total Carried to Conection			
	Earthquake areas / Soils with poor bearing capacity.			
	Note: Rates for excavation to include for keeping excavations free from water and planking and strutting to sides of excavations			
1.24	Excavate trenches for wall foundations: commencing from reduced levels : not exceeding 1.5m deep .	m ³	155	
1.25	Selected excavated material in filling to foundation trenches as before described.	m ³	100	
1.26	Remove surplus excavated material from site	m ³	55	
	Brickwork in burnt clay bricks in cement and sand mortar (1:3) mix; with and including 25 x 3mm hoop iron strips laid horizontally every alternate course.			
1.27	230 mm thick walling.	m ²	160	
	Insitu concrete grade 10 / 20mmaggregate as described.			

Somm thick blinding to foundations and column bases 77					
Insitu concrete grade 20 / 20mm aggregate as described. Foundations in trenches Insitu concrete grade 25 / 20mm vibrated reinforced as described. Foundations in trenches Insitu concrete grade 25 / 20mm vibrated reinforced as described. Foundations in trenches Insitu concrete grade 25 / 20mm vibrated reinforced as described. Column Bases Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described. Insitu concrete grade 25 / 20mm vibrated reinforced as described.	1 28		m ²	77	
as described.	1,20	Column bases		1,,	
Insitu concrete grade 25 / 20mm vibrated reinforced as described. Foundations in trenches 1.30 Column Bases Mild steel rod reinforcement as described. 8 mm diameter bar High yield tensile steel bar reinforcement to B3 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 1.34 I 2 mm diameter bar Kg 1.35 Sides of Column bases Mild steel of reinforcement to B3 4449 as described including all fixing including all necessary tying wire and spacing blocks. Sawn formwork as described to Sides of Column bases Mild steel rod reinforcement to B3 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.					
1.29					
Insitu concrete grade 25 / 20mm vibrated reinforced as described. 1.30 Foundations in trenches m³ 15 Column Bases m³ 1 Columns Mild steel rod reinforcement as described. 8 mm diameter bar kg 1.33 High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar kg 1.34 Total Carried to Collection Sawn formwork as described to Sides of Column bases m² 7 Sides of Columns m³ 15 16 16 17 18 18 19 10 10 10 10 10 10 10 10 10	1.29	Foundations in trenches	m ³	6	
reinforced as described. Foundations in trenches Foundations in trenches m³ 15 Column Bases m³ 1 Columns m³ 1 Mild steel rod reinforcement as described. 8 mm diameter bar High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 1.34 12 mm diameter bar kg 210 Total Carried to Collection Sawn formwork as described to Sides of Column bases m² 7 Sides of Columns					
1.30 Column Bases m³ 1 1.31 Columns m³ 1 1.32 Mild steel rod reinforcement as described. Mild steel rod reinforcement as described. 8 mm diameter bar kg 1.33 High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar kg 1.34 Total Carried to Collection Sawn formwork as described to Sides of Column bases m² Sides of Columns m²					
1.30 Column Bases m³ 1 1.31 Columns m³ 1 1.32 Columns m³ 1 Mild steel rod reinforcement as described. Mild steel rod reinforcement as described. High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 1.34 12 mm diameter bar kg 1.34 12 mm diameter bar Total Carried to Collection Sawn formwork as described to Sides of Column bases m² Sides of Columns m³					
1.31 Columns m³ 1	1.30	Foundations in trenches	m ³	15	
1.31 Columns m³ 1					
1.32 1 1 1 1 1 1 1 1 1	1.31	Column Bases	m ³	1	
1.32 Mild steel rod reinforcement as described. 8 mm diameter bar kg 160 High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar kg 210 Total Carried to Collection Sawn formwork as described to Sides of Column bases m² 7					
1.33 8 mm diameter bar kg 160 High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar kg 210 Total Carried to Collection Sawn formwork as described to Sides of Column bases m² Sides of Columns m²	1.32	Columns	m ³	1	
1.33 8 mm diameter bar kg 160 High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar kg 210 Total Carried to Collection Sawn formwork as described to Sides of Column bases m² Sides of Columns m²					
1.33 8 mm diameter bar kg 160 High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar kg 210 Total Carried to Collection Sawn formwork as described to Sides of Column bases m² Sides of Columns m²		Mild steel rod reinforcement as described.			
High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar Reg 1.34 Total Carried to Collection Sawn formwork as described to Sides of Column bases Sides of Columns Might be reinforcement to BS 4449 as described for a length special part of the properties of		,			
to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar Reg 1.34 Total Carried to Collection Sawn formwork as described to Sides of Column bases Sides of Columns M2 Sides of Columns M2	1.33	8 mm diameter bar	kg	160	
1.34 12 mm diameter bar kg 210 Total Carried to Collection Sawn formwork as described to Sides of Column bases m² 7 Sides of Columns m²		to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and			
1.34 Total Carried to Collection Sawn formwork as described to Sides of Column bases 1.35 Sides of Columns m ² Sides of Columns		T			
Sawn formwork as described to Sides of Column bases 1.35 Sides of Columns m ² The state of Columns The state of Columns are state of the state of Columns are state of Col	1.34	12 mm diameter bar	kg	210	
Sawn formwork as described to Sides of Column bases Sides of Columns m ² Sides of Columns					
Sawn formwork as described to Sides of Column bases 1.35 Sides of Columns m ² The state of Columns The state of Columns are state of the state of Columns are state of Col					
Sawn formwork as described to Sides of Column bases 1.35 Sides of Columns m ² The state of Columns The state of Columns are state of the state of Columns are state of Col					
Sides of Column bases m ² Sides of Columns m ²		Total Carried to Collection			
1.35 7 Sides of Columns m ²		Sawn formwork as described to			
	1.35	Sides of Column bases	m ²	7	
	1.36	Sides of Columns	m ²	14	

			1	I	<u> </u>
	Sides of Strip foundations	m ²			
1.37			48		
	Total Carried to Collection				
	Total Carried to Concetion				
	COLLECTION				
	Page 3/2				
	1 4ge 5/2				
	Page 3/3				
	1 age 3/3				
		-			
	Page 3//				
	Page 3/4				
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	1 age J/J				
	TOTAL CUIDOTRICTUDE TO	-			
	TOTAL SUBSTRUCTURE TO				
	SUMMARY				
		-			
			<u> </u>		

		1		1	
		-			
			+		
	ELEMENT NO. 2				
	ROOF				
	1001				
	N. T. 220 . 222 . I I I				
	Note Items 2.20 to 2.23 are to be priced				
	only for areas that are earthquarke prone				
	or with soils with poor bearing capacity.				
	Ingitu appareta and 1 25 / 20	+			+
	Insitu concrete grade 25 / 20mm:				
	Vibrated, reinforced as described				
	Ring beams	m ³			
2.01	King beams	111	_		
2.01			5		
					0/=
	Mild steel reinforcement as described				0/=
	including cutting to lengths, bending,				
	hoisting and fixing including all necessary				
	tying wire and spacing blocks.				
					0/=
	8 mm diameter bar	kg			
2.02		***5	220		
2.02			220		
					0/=
	High yield tensile steel bar reinforcement				0/=
	to BS 4449 as described including cutting				
	to lengths, bending, hoisting and fixing				
	0 .				
	including all necessary tying wire and				
	spacing blocks.				
					0/=
	12 mm diameter bar	kg			
2.02	12 mm diameter var	'va	450		
2.03			450		
					0/=
	Sawn formwork as described to:				0/=
		1			0/=
	Sides and soffites of beams	m ²			01-
	Sides and soffices of Deams	11112			
2.04		1	71		
					0/=
	Brickwork in burnt clay bricks in cement				0/=
					0, -
	and sand mortar (1:3) mix; with and				
	including 25 x 3mm hoop iron strips laid				
	horizontally every alternate course.				
	<u> </u>	1		_1	1

				0/=
	230mm Thick gable walling	m ²		
2.05	20 min 1 mon guare wanning		15	
2.03			13	0/=
	Finishes			0/=
				0/=
	Cement and sand (1:4) render on concrete			0/=
	or masonry			
	, and a start of			0/=
	15mm to walls	m ²		0/-
2.06	13mm to wans	111	1.5	
2.06			15	
				0/=
	Two coats tyrolene rendering on masonry			0/=
				0/=
	Walls and concrete surfaces	m ²		
2.07	wans and concrete surfaces	111	15	
2.07			15	
	Total Carried to Collection			
	Total Carried to Concetion			
	D CC :			
	Roof Construction			
	The following in roof construction			
	including all bolting, gusset plates, fixing			
	trusses to ring beams with holding down			
	bolts and hoisting and fixing			
	approximately 3.0mm above ground level.			
	approximately stomm moore ground with			
	C			
	Sawn cypress pressure impregnated with			
	preservative:-			
	7 No. Trusses span 8200mm x 1800mm			
	rise			
	50 100 Dr			
• • •	50 x 100mm Purlins	m	100	
2.08			400	
				0/=
	50 x 100mm Strut /tie	m		
2.09			105	
			100	0/=
	50 150 D' 1			U/—
	50 x 150mm Ridge	m		

2.10			40	
2.10			40	0/
	50 150 EV 1			0/=
0.11	50 x 150mm Tie beam	m	120	
2.11			120	2,4
				0/=
	50 x 150mm Rafters	m		
2.12			160	
				0/=
	75 x 100mm Beam	m		
2.13			26	
				0/=
	75 x 100mm Wall Plate	m		
2.14			76	
				0/=
	Roof Covering			0/=
	, J			0/=
	26 Gauge pre-painted iron roofing	m ²		
2.15	sheets fixed with 1 ¹ / ₂ side corrugation		350	
	laps and 150mm end laps with and			
	including approved roofing nails or			
	galvanized steel drive screws with plastic			
	washers to manufacturer's instructions.			
	wasters to manage and a most actions.			0/=
	26 Gauge plain (pre-coated) roll top	m		0/-
2.16	ridge capping.	111	40	
2.10	riuge capping.		70	0/=
	Ditto vallet piece 1000mm girth	m		0/-
2.17	Ditto vallet piece Toobilini girtii	m	13	
4.17			13	0/=
	F			
	Eaves			0/=
				0/=
• 10	25 x 225mm Wrot Cypress fascia board	m	100	
2.18			100	
				0/=
	Painting			0/=
	Knot prime stop and apply three coats of			0/=
	gloss oil paint to timber surfaces.			
				0/=
	Knot, prime, stop and apply three coats	m		
2.19	of gloss oil paint to wood fascia 200-		100	
	300mm girth.			
				0/=
	Roof Vents.			0/=
	, and the second			0/=
	Roof Vents size 230 x 460mm high filled	no		
2.20	with Kajjansi ventilation bricks and bat		3	
	proof netting complete with all necessary			
	T		1 1	

	timber framing.			
	Total Carried to Collection			
	Earthquake areas / Soils with poor bearing capacity.			
	Insitu concrete grade 25 / 20mm: Vibrated, reinforced as described			
		2		
2,21	Ring beams	m ³	5	
	Mild steel reinforcement as described.			
		1_		
2,22	8 mm diameter bar	kg	220	
	High yield tensile steel bar reinforcement to BS 4449 as described.			
2.23	12 mm diameter bar	kg	450	
	Sawn formwork as described to:			
2.24	Sides and soffites of beams	m ²	71	
	Total Carried to Collection			
	COLLECTION			
	-			
	_			
	Page 3/5			

	D 216			
	Page 3/6			
	Page 3/7			
	TOTAL ROOF CARRIED TO			
	SUMMARY			
		1		
	ELEMENT NO. 3			
	EXTERNAL WALLS			
	Note Items 3.06 to 3.09 are to be priced			
	only for areas that are earthquarke prone			
	or with soils with poor bearing capacity.			
	or with soils with poor bearing capacity.			
	Brickwork in burnt clay bricks in cement			
	and sand mortar (1:3) mix; with and			
	including 25 x 3mm hoop iron strips laid			
	horizontally every alternate course.			
-	220 41.2-1	2		
	230mm thick walling.	m ²		
3.01			92	
	Permanent Vents			
-	Downson and World Elled in seith Well and	2		
2.55	Permanent Vent filled in with Kajjansi	m ²	4.0	
3.02	ventilation bricks or other equal and		10	
	approved; bat proof gauze and coffee			
	tray wire backing complete with			
	necessary timber framing and beading.			
	necessary annount maining and seaunig.			

	Finishes			
	Cement and sand (1:4) render trowelled smooth on concrete or masonry			
3.03	15mm to walls.	m ²	225	
3.03			223	
	Two coats tyrolene rendering on masonry			
3.04	Walls and concrete surfaces	m ²	205	
	Painting: 'Sadolin Paints' or equal and approved.			
3.05	Prepare and apply one undercoat and two finishing coats matt vinyl paint on plastered surfaces.	m ²	20	
	Earthquake areas / Soils with poor bearing capacity.			
	Insitu concrete grade 25 / 20mm aggregate : vibrated reinforced.			
3.06	Columns	m ³	2	
	Reinforcement			
	Mild steel rod reinforcement as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.			
3.07	8 mm diameter bar	kg	75	
	Total Counied to Collection			
	Total Carried to Collection			
	High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.			

3.08 12 mm diameter bar kg 150			1	1	T	T
3.08 Sawn formwork as described to Sides of Column Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO						
3.08 Sawn formwork as described to Sides of Column Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO		12 mm diameter bar	kg			
Sawn formwork as described to Sides of Column Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO	3.08			150		
3.09 Sides of Column m ² 27 Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO	3.00			130		
3.09 Sides of Column m ² 27 Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO						
3.09 Sides of Column m ² 27 Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO		Sawn formwork as described to				
Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO						
Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO		G' 1 C C 1	2			
Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO		Sides of Column	m²			
Total Carried to Collection COLLECTION Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO	3.09			27		
Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO						
Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO						
Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO						
Page 3/9 Page 3/10 TOTAL EXTERNAL WALLS TO		Total Carried to Collection				
Page 3/9 Page 3/10 Page 3/10 TOTAL EXTERNAL WALLS TO						
Page 3/9 Page 3/10 Page 3/10 TOTAL EXTERNAL WALLS TO						
Page 3/9 Page 3/10 Page 3/10 TOTAL EXTERNAL WALLS TO						
Page 3/9 Page 3/10 Page 3/10 TOTAL EXTERNAL WALLS TO		COLLECTION				
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		TOTAL EXTERNAL WALLS TO				
SUMMARY						
		SUMMARY				
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	ELEMENT NO. 4				
	WINDOWS & EXTERNAL DOORS				
	Concrete Work				
	Precast concrete grade 25 / 20mm lintel				
	_				
	reinforced with 4No. 12 mm high tensile				
	steel bars and 8mm steel stirrups at 200				
	mm centres and including all necessary				
	formwork and hoisting and fixing in				
	position.				
	Feature				
	150 v 220 mm high				
4.04	150 x 230 mm high	m	_		
4.01			5		
					0/=
	Precast concrete grade 25 / 20mm				0/=
	aggregate: units reinforced as necessary				
	and finished fair face on all exposed sides.				
	una finistica fait face on an exposea sacs.				
					0/=
	75 x 285 mm sunk weathered and	m			O/
4.02		111	40		
4.02	throated window cill		40		0.1
					0/=
	Purpose made steel casement windows				0/=
	manufactured from standard W20				
	sections: manufacture, assemble and				
	deliver to site: Supply and fix				
	ironmongery comprising approved				
	hinges, pivoting mechanisms, stays,				
	fasteners to opening lights: plugged and				
	screwed or built into walling: one coat red				
	oxide primer before delivery.				
					0/=
	Window type W2 : Size 1500 x 700mm	no	 		JI-
4.02		110			
4.03	overall height: 1No. top hung opening		2		
	lights size 600 x 300mm high: fixed				
	bottom light size 600 x 300mm high.				
					0/=
		1	1	1	, ·

4.04	Window type W1: Size 1500 x 1200mm overall height: 2No. side hung opening lights size 500 x 1200mm high: 1 No. fixed middle light size 500 x 1200mm high.	no	20	
				0/=
	Burglar proofing grille comprising 12mm square bars 150mm centres both ways in cobweb pattern or other equal and approved pattern welded to 50 x 50 x 6mm angle the whole having one coat of red oxide primer to fit the following window			0/=
	sizes.			0/
4.05	Window type W4 : Size 600 x 600mm overall height	no	2	0/=
				0/=
4.06	Window type W1 : Size 1500 x 1200mm overall height.	no	20	
	Total Carried to Collection			
	Purpose made steel casement doors manufactured from Standard W20 Sections: manufacture, assemble and deliver to Site: Supply and fix approved hinges: plugged and screwed or built into walling: one coat red oxide primer before delivery.			
4.07	Door type D1 size 1500 x 2400mm high: two unequal opening leaves one 900 x 2400mm high and the other 600 x 2400mm.	no	3	
				0/=
	Wrot Mahogany: Selected and kept Clean			0/=
				0/=
4.08	25 x 50mm Architrave: two labours	m	10	
				0/=
4.09	50 x 150mm Door Frame: two labours: plugged.	m	5	
				0/=
	Ironmongery			0/=
				0/=

	Supply and fix the following ironmongery			0/=
	of "UNION" Manufacture and to			
	Architects approval complete with			
	matching fixings to hardwood or steel			
	maching jungs to hurawood or steet	+		0/_
	D 44 TV - FF 400 - C 4 3 3	1		0/=
	Butt Hinges, 75 x 100mm : finished	prs		
4.10	stainless steel.		2	
				0/=
	25mm Rubber door stop plugged to wall	no		
4.12	or floor.		7	
7,12	or noor.		,	0/=
	2.7	+		0/=
	3 Lever Mortice Lock complete with	no		
4.13	lever furniture		1	
				0/=
	3 Lever Steel door lock complete with	no	3	
4.14	lever furniture			
				0/=
	Class and Clarina			0/=
	Glass and Glazing			
				0/=
	4mm thick clear sheet glass to metal	m ²		
4.15	window with putty		48	
				0/=
	Ditto but obscure glass	m ²		
4.16	2 itto but obseure gluss		1	
7.10			1	0/=
	D. L. d.			
	Painting			0/=
				0/=
	Prepare touch up primer and apply one			0/=
	undercoat and two finishing coats of gloss			
	oil paint : on metalwork.			
				0/=
	Clared metal grafe and	2		0/=
4 4 5	Glazed metal surfaces	\mathbf{m}^2	00	
4.17			99	
				0/=
	Burglar proofing grilles	m^2		
4.18			74	
-			+ + -	
	Total Carried to Collection			
	ZOWA CHILICU DO COMOCEIUM		+ + + + + + + + + + + + + + + + + + + +	
	Defections		+ + -	
<u> </u>	Painting	1		

	- cottino i regiam				
	Prepare Knot, Prime, stop and apply three				
	coats of gloss oil paint : on woodwork				
	cours of gross on paint . on woodwork				
		2			
	General Surfaces : doors	m ²			
4.19			4		
					0/=
	Ditto: over 200 but not exceeding 300mm	m			
4.20		111	_		
4.20	girth		5		0.1
					0/=
	Ditto not exceeding 100mm girth	m			
4.21			10		
					0/=
	Drives heads of frame hafave firing				0/-
4.00	Prime back of frame before fixing	m	<u>-</u>		
4.22			5		
					0/=
					0/=
	Total Comisda, Callection				
	Total Carried to Collection	1			
	_				
	COLLECTION				
	COLLIGIT				
	-				
	-				
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	TOTAL WINDOWS & EXTERNAL				
	DOORS TO SUMMARY				
	Z O GARO Z O DOMANAIRAREZ				
				1	

	T			1	<u> </u>
	ELEMENT NO. 5				
	INTERNAL WALLS & PARTITIONS				
	Note Here 5.02 to 5.05 to 1 1				
	Note Items 5.02 to 5.05 are to be priced				
	only for areas that are earthquarke prone				
	or with soils with poor bearing capacity.				
	Brickwork in burnt clay bricks in cement				
	and sand mortar (1:3) mix; with and				
	including 25 x 3mm hoop iron strips laid				
	horizontally every alternate course.				
	200mm Thick walling.	m ²			
5.01	200mm Thick walling.	111	145		
5.01			145		
	Earthquake areas / Soils with poor				
	bearing capacity.				
	Ingity concrete and 25 / 20mm accreage				
	Insitu concrete grade 25 / 20mm aggregate				
	: vibrated reinforced.				
<u></u>		<u></u>			
	Columns	m ³			
5.02			1		
3.02			_		
	Mild steel rod reinforcement as described				
	including cutting to lengths, bending,				
	hoisting and fixing including all necessary				
	tying wire and spacing blocks.				
	is in a mic and spacing blocks.				
		<u> </u>			
	8 mm diameter bar	kg			
5.03			30		
]]		

position. 200 x 200 mm high	m	15		0/=
formwork and noising and name in		1	i	Î.
steel bars and 8mm steel stirrups at 200				
Precast concrete grade 25 / 20mm lintel				
Concrete Work				
INTERNAL DOORS				
ELEMENT NO. 6				
	1			
	+			
PARTITIONS TO SUMMARY				
TOTAL INTERNAL WALLS &	+			
		4		
Sides of Column	m ²			
Sawn formwork as described to				
		100		
12 mm diameter bar	kg	100		
spacing biocks.				
including all necessary tying wire and				
	Sawn formwork as described to Sides of Column TOTAL INTERNAL WALLS & PARTITIONS TO SUMMARY ELEMENT NO. 6 INTERNAL DOORS Concrete Work Precast concrete grade 25 / 20mm lintel reinforced with 4No. 12 mm high tensile	to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar kg Sawn formwork as described to Sides of Column m² TOTAL INTERNAL WALLS & PARTITIONS TO SUMMARY ELEMENT NO. 6 INTERNAL DOORS Concrete Work Precast concrete grade 25 / 20mm lintel reinforced with 4No. 12 mm high tensile steel bars and 8mm steel stirrups at 200 mm centres and including all necessary	to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar kg Sides of Column m² 4 TOTAL INTERNAL WALLS & PARTITIONS TO SUMMARY ELEMENT NO. 6 INTERNAL DOORS Concrete Work Precast concrete grade 25 / 20mm lintel reinforced with 4No. 12 mm high tensile steel bars and 8mm steel stirrups at 200 mm centres and including all necessary	to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks. 12 mm diameter bar Sides of Column TOTAL INTERNAL WALLS & PARTITIONS TO SUMMARY ELEMENT NO. 6 INTERNAL DOORS Concrete Work Precast concrete grade 25 / 20mm lintel reinforced with 4No. 12 mm high tensile steel bars and 8mm steel stirrups at 200 mm centres and including all necessary

				1	
	Solid core flush doors: 6mm thick internal quality plywood facing both sides:				0/=
	hardwood lipping to all edges.				
					0/=
6.02	45mm Door size 850 x 2075mm high (D4pvo).	no	1		0/=
	•				0/=
6.03	Ditto size 1450 x 2075mm high: two unequal opening leaves one 850 x 2075mm high and the other 600 x 2075mm high: each leaf with openings for vision panel 300 x 400mm high (D2pvo)	no	5		0/=
					0/=
	Wrot Mahogany: Selected and kept Clean				0/=
	gy				0/=
6.04	25 x 50mm Architrave: two labours	m	20		
		1			
6.05	50 x 175mm Door frame: two labours	m	10		
		1			
6.06	50 x 175mm Transome : two labours	m	1		
6.07	12mm x 100mm louvres set and including forming grooves	m	20		
	Supply and fix the following ironmongery of ''UNION'' Manufacture as described.				
6.08	Butt Hinges, 75 x 100mm: finished stainless steel.	prs	6		
6.09	180 degrees double swing stainless steel hinges.	prs	10		
6.10	25mm Rubber door stop plugged to wall or floor.	no	14		
		ļ			
6.11	3 Lever Mortice Lock complete with lever furniture	no	4		
6.12	Ditto rebated ditto	no	5		
	150 x 300mm Aluminuim push plate	no			

6.13			20		
	Glass and Glazing				
	6mm Thick x 200 x 300mm high clear	no			
6.14		110	10		
0.14	sheet glass vision panel fixed with and		10		
	including 19 x 25mm timber beading.				
	Total Carried to Collection				
	Prepare Knot, Prime, stop and apply three				
	coats of gloss oil paint : on woodwork				
	-				
	General Surfaces : doors	m ²			
6.15	General Surfaces : 40015	1	39		
0.15			37		
	Dittor over 200 but 4 1: 200				
(11	Ditto: over 200 but not exceeding 300mm	m	50		
6.16	girth		59		
	Ditto not exceeding 100mm girth	m			
6.17			182		
	Prime back of frame before fixing	m			
6.18	2s		51		
0.10					
	Total Carried to Collection				
	Total Carried to Conection				
	COLLECTION				
	Page 3/15				
	Page 3/16	<u> </u>			
	TOTAL INTERNAL DOORS TO				
		1	_i	1	1

	SUMMARY			l
	ELEMENT NO. 7			
	INTERNAL FINISHES			
	Floor Finishes			
	Cement and sand (1:4) screeds and			
	pavings : one coat: steel trowell finish :			
	laid on concrete			
	40mm thick paving.	m ²		
7.01			212	
	125 x 125mm coved skirting	m		
7.02			141	
	Wall Finishes			
7.03	15mm thick to cement and sand plaster, steel trowell finish to walls.	m ²	429	
7.00	seed done implied name.	 	727	

	Painting: 'Sadolin Paints' or equal and approved.			
7.04	Prepare and apply one undercoat and two finishings coats of matt vinyl paint to plastered surfaces.	m ²	429	
	Ceiling Finishes			
7.05	9 x 24 SWG galvanized expanded metal lathing U-nailed to timber branderings	m ²	212	
7.06	Cement and sand (1:4) pricking course to metal lathing	m ²	212	
7.07	12mm cement and sand plaster to ceiling	m ²	212	
7.08	Extra for 150 x 150mm thick cement and sand (1:3) cornice	m	180	
	Ceiling Structure			
	Cennig Bu ucture			
	Pressure impregnated sawn Cypress			
	50 x 50mm branderings	m	420	
	50 x 100mm joists	m	530	
	Painting			
	Prepare and apply three coats of first grade emulsion paint on:.			
	Plastered ceiling	m ²	212	
	Cornice : Over 100 but not exceeding 200mm girth.	m	180	
	Total Carried to Collection			
+				
+				
	Earthquake Areas			

		1		1	
	For Earthquake areas / Soils with poor				
	bearing capacity price the following items				
1	in line of items 7.11 7.14				
	in lieu of items 7.11 - 7.14 <u>.</u>				
	6mm Thick internal quality plywood	m ²			
	noiled to know dowings	***	212		
	nailed to branderings.		212		
	25 x 45mm Wrot Hardwood Cornice.	m			
	Ze a lemmi vilot ilui uvood collice.	1	100		
			180		
	Total Carried to Collection				
	COLLECTION				
+			+		
+	Dogo 2/17		+		
	Page 3/17	1			
	D 2/10				
	Page 3/18				
+		1	+		
 		1	+		
	TOTAL INTERNAL FINISHES TO				
	SUMMARY.	1			
+		1	+		
+			+		
		1			

	+				
	ELEMENT NO. 8				
	FITTINGS AND FIXTURES				
	Curtain Boxes				
	Curum Duxes	1			
	Pelmet box comprising 150 x 25mm	m			
8.01	Fascia, 125 x 25mm top 150 x 125 x		40		
0.01			40		
	25mm stopped ends jointed together,				
	complete with and including I-section				
	aluminium curtain rail with rollers				
	ardining curtain ran with rollers				
	Prepare and apply three coats of				
	polyurethane lacquer: on woodwork				
	polyuremune tacquer: on woodwork				
	General surfaces of pelmet boxes	m^2			
8.02	•		26		
0.02			20		
	Concrete Bench Seats				
	75mm Thick usinfound assessed (1.2.4)	2			
_	75mm Thick reinforced concrete (1:2:4)	m ²			
8.03	slab finished smooth on exposed surfaces		6		
	with 12mm cement and sand (1:3)				
	screed.	1			
		<u> </u>			
	Concrete (1:2:4) beam size 200 x 185mm	m			
8.04	· · · · ·		14		
0.04	deep reinforced with and including 4 No.		14		
	Y12 steel bars, R8 links at 200mm				
	centres and formwork.				
	7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	2			
	Fabric mesh reinforcement ref. A98 laid	m ²			
8.05	in slab		6		
			-		
		<u> </u>			
	Sawn formwork to soffite of slab	m ²			
8.06			6		
		1			
	·		•	•	i

	D'44 1 6 . 1 . 1 . 7 1 . 1			
	Ditto edge of slab 75mm high	m		
8.07			14	
	25 x 200mm deep hardwood bench back	m		
8.08	screwed to wall with and including three		14	
0.00	coats clear varnish		17	
	coats clear varmsn			
	Concrete wall shelving			
	75mm Thick reinforced concrete (1:2:4)	m ²		
0.00	, , ,	111	0	
8.09	slab finished smooth on exposed surfaces		8	
	with 12mm cement and sand (1:3)			
	screed.			
	Concrete (1:2:4) beam size 200 x 185mm	m		
8.10		111	4	
9.10	deep reinforced with and including 4 No.		4	
	Y12 steel bars, R8 links at 200mm			
	centres and formwork.			
	Fabric mesh reinforcement ref. A98 laid	m ²		
8.11	in slab	111	8	
0.11	III Stab		0	
	Sawn formwork to soffite of slab	m^2		
8.12			8	
	Ditto edge of slab 75mm high	m		
0.12	Ditto edge of slab 75mm mgn	111	0	
8.13			8	
	Concrete Work top			
	100mm concrete grade 10 / 20mm	m ²		
011	S	111	o	
8.14	aggregate: plinth		8	
	Total Carried to Collection			
	Comparts (1.2.4) hog! 200 107			
0.1-	Concrete (1:2:4) beam size 200 x 185mm	m		
8.15	deep reinforced with and including 4 No.		20	
	Y12 steel bars, R8 links at 200mm			
	centres and formwork.			
	*** -			
	75mm Thield pointoned concrete (1.2.4)	m ²		
0.17	75mm Thick reinforced concrete (1:2:4)	111		
8.16	slab finished with 15mm terrazzo finish		8	
	on exposed surfaces.			
	Fabric mesh reinforcement ref. A98 laid	m ²		
8.17	in slab	-41	Q	
0.1/	าน อเลม		8	

	T	T			1
	Wrot formwork to soffite of slab	m ²			
8.18			8		
	Ditto edge of slab / plinth 75 - 150mm	m			
8.19	high		28		
	25mm thick blockboard door, shelf, back	m ²			
8.20	and base with hardwood lipping to	***	50		
0.20	exposed edges		30		
	exposed edges				
	25 25				
0.21	25 x 25mm softwood bearer	m			
8.21			24		
	50 x 50mm ditto	m			
8.22			46		
	Approved cupboard lock	no			
8.23			5		
	75mm steel butt hinges	prs			
8.24		_	5		
	Approved ball catch	no			
8.25	PF		10		
			1		
	Ditto pull handles	no			
8.26	Ditto pun nantics	110	5		
0.20			3		
	Duonous and apply these souts slags oil	m ²			
0.27	Prepare and apply three coats gloss oil	III-	(0		
8.27	paint on wood surfaces.		68		
	Ditto to frame not exceeding 100mm	m			
8.28	girth.		70		
	Total Carried to Collection				
	COLLECTION				
	Page 3/19				
	A mgC U/A/		1		
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	Page 3/20			
	TOTAL FITTINGS & FIXTURES TO SUMMARY.			
	ELEMENT NO. 9			
	MECHANICAL INSTALLATION			
	Supply, install, connect and set to work the following, all as described in the Specifications and Drawings.			
	Specifications and Diamings.			
	Sanitary Appliances			
	Suntary Appliances			
	18 Gauge Stainless Steel Sink as	no		
9.01	ARMITAGE SHANKS htm64 STIRLING bi with right hand slop hopper, S6510 (531904Y) (DU-H), complete with 2No. 12mm Markwik bib taps S8270AA (806041DCP), 38mm plastic domed strainer waste S885067 (90568NOSC), 38mm plastic bottle trap S891567 (70238Q4SC), Clener high level 6 litre cistern and cover, S3955 (1718AD) with freeflo plastic syphon fittings, internal overflow, chain and pull or equal approved.	no	1	
9.02	18 Gauge Stainless Steel Doon double bowl sink as ARMITAGE SHANKS, HTM64 DOON DOUBLE SINK, S5864 (533113U), with tapholes and no overflows, complete with 2No. 12mm Markwik, lever operated, wall mounted mixer taps with horizontal spray outlets and concealed supplies, S8231 (801147X), 38mm plastic resealing bottle trap with removable sump S891567 (70238Q4SC) or equal approved.	no	1	

0.02	White Vitreous China WC pan with	no	1	
9.03	bottom outlet as ARMITAGE SHANKS,		1	
	TIFFANY CC C60 S3090 (154702Y),			
	complete with low level 6.0 litre cistern			
	with internal flow S3900 (17730AA),			
	Saturn seat and cover S4040 (68980B1),			
	Plastic outlet connector S4325 (90190T8),			
	and all accessories.			
	White Vitreous China HTM64	no		
9.04	S2262(117933U) as ARMITAGE		1	
	SHANKS Portman general purpose			
	medium wash hand basin, 50cm x 42cm,			
	with 2 tapholes, no overflow, no			
	chainstay.S7195(6624400) nose pillar			
	taps complete with bead chain			
	S8715(70017N6) unslotted tail, screw			
	stay, \$8920(7360700) 33mm plastic bottle			
	trap with seal, S8975 (7356700) plastic			
	extension to wall and wall flange straight			
	outlet, S9150(7900000) concealed bracket			
	with fixing clamps complete with centre			
	bracket in alminium alloy or equal			
	approved.			
	Power shower kit with	no	_	0/=
9.05	handspray,1350mm long hose, slide bar	110	_	0/-
7.03	with grey tinted soap dish and chrome			
	plated wall connection c/w control valve			
	as Armitage shanks trevi power shower			
	kit E4205AA.			
0.06	60cm Acrylic Towel Rail with brackets,	no	2	
9.06	as ARMITAGE SHANKS MAYFAIR		3	
	S5014 (20811TR) or equal approved			
	Total Carried to Collection			
	Screw to wall Semi-recessed toilet roll	no		
9.07	holder 15cm x 15cm as ARMITAGE		1	
	SHANKS, MAYFAIR RECESSED			
	S5004 (2053100) or equal approved			
	Polished mirror plate, beveled edge 300	no		
9.08	x 450x6mm.		1	
	Water Supply to Appliances			
	25 mm class B cold water pipe,burried	m		
9.09	in the ground, burried in wall, clipped to		10	
	wall, or in duct complete with all fittings			
	and accessories.			
L	una accessories.			1

	·			•
9.10	20 mm class B cold water pipe,burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories.	m	20	
9.11	12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories.	m	25	
9.12	12mm gate valves as Peglar heavy duty or equal approved.	no	2	
9.13	20mm gate valves as Peglar heavy duty or equal approved.	no	2	
9.14	25mm gate valves as Peglar heavy duty or equal approved.	no	1	
9.15	Flexible tubes (stainless steel braid on PVC) for connection of appliances, complete.	no	6	
	Water Supply			
9.16	6,000 litre pvc tank placed on ground concrete base (measured separetely), complete with all accessories.	no	1	
9.17	25mm gate valves as Peglar heavy duty or equal approved.	no	1	
9.18	12mm Stand by pipe, complete with 12mm gate valve, tap and all accessories	Item	1	
9.19	1.5m high Ground concrete water tank base, made in masonry brickwork, well compacted hardcore, with 150mm thick slab on top as shown in drawing, for the above water tank, complete.	no	1	

Total Carried to Collection Internal Drainage 38mm PVC heavy gauge pipes complete with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap. 50mm PVC heavy gauge pipes complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap. 110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap. External Drainage 110mm PVC heavy gauge pipework burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, with steel cover and all accessories.
9.20 38mm PVC heavy gauge pipes complete with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap . 50mm PVC heavy gauge pipes complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap. 110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap. External Drainage 110mm PVC heavy gauge pipework burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, 38mm PVC heavy gauge pipes complete m 10 10 10 50 50 60 60 60 60 60 60 60 6
9.20 38mm PVC heavy gauge pipes complete with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap . 50mm PVC heavy gauge pipes complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap. 110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap. 110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap. External Drainage 110mm PVC heavy gauge pipework burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm,
9.20 with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap . 9.21 50mm PVC heavy gauge pipes complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap. 110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap. External Drainage 110mm PVC heavy gauge pipework burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm,
9.20 with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap . 9.21 50mm PVC heavy gauge pipes complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap. 110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap. External Drainage 110mm PVC heavy gauge pipework burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm,
9.21 with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap. 110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap. External Drainage 110mm PVC heavy gauge pipework burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, 3
9.22 with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap. External Drainage 110mm PVC heavy gauge pipework burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC rap, masonry construction 300x300mm, 9.24 Gully Trap (GT) complete with PVC rap, masonry construction 300x300mm,
9.23 burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, 3
9.23 110mm PVC heavy gauge pipework burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, 3
9.23 burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, 3
9.23 burried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories. Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, 3
9.24 trap, masonry construction 300x300mm, 3
9.24 trap, masonry construction 300x300mm, 3
Manhole 450 x 600mm in masonry brickwork, rendered smooth inside complete with benching, heavy duty manhole cover made out of concrete and angles and all accessories.
Septic Tank for 20 people size approx. 9.26
accessories.

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	Total Carried to Collection				
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	COLLECTION				
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	1 450 0/22				
	Page 3/23				
	TOTAL MECHANICAL				
	INSTALLATION TO SUMMARY	1			
<u> </u>	INSTALLATION TO SUMMANT	-			
		1			
		1			
	ELEMENT NO. 10				
	ELECTRICAL INSTALLATION				
	ELECTRICAL INSTALLATION	1			
	Supply, install, connect and set to work the				
	following, all as described in the				
	Specifications and Drawings.				
	Power Supply				
10.01	100A 9-Way SPN MCB Consumer Unit	no	_		
10.01	flush mounting complete with integral		1		
	isolator, MCBs and all accessories as				
	MEM, CRABTREE or equal approved.	1			
					0/=
	Supply Cable 16mm ² x 3core	m			
10.02	PVC/SWA/PVC Copper cables in 25mm	***	15		
10.02		1	13		
	PVC concealed conduits complete with				
	terminations clipping and all accessories				
	from UEDCL meter to the consumer				
	Unit above.	1			
	Adaptable box to contain UEDCL meter	no			
10.03	and cutouts.		1		
10.05	MIM CHOUND	-	-		
		•4			
	Main Earth at adaptable box by 25mm ²	item			
10.04	PVC copper cables to copper electrode in		1		
	manhole complete with all accessories.	1			
	•				
	Provisional Sum for UEDCL Power	item			
10.05		100111	1		
10.05	Connections		1		

	Lighting				
	Lighting				
	7.1.				
	Lighting points wired by 1.5mm ² twin	no			
10.06	with earth PVC-I copper cables in		20		
	existing 20mm pvc conduits.				
	3 1				
	1x36W 1200mm single bare batten	no			
10.07		по	18		
10.07	fluorescent fitting complete with daylight		10		
	tube switch start and all accessories as				
	Thorn or equal approved.(F1)				
	1 x 18W 600mm single waterproof,	no			
10.08	surface mounted fluorescent light fitting		1		
	with GRP body and acrylic diffuser, as				
	Thorn or equal approved (F3).				
	Thorn of equal approved (F3).				
	4 40777 600				
	1x18W 600mm single bare batten	no			
10.09	fluorescent fitting complete with daylight		1		
	tube switch start and all accessories as				
	Thorn or equal approved (F2).				
	======================================				
	64 1 gang 1 way moulded switch as MV	no			
10.10	6A 1 gang 1 way moulded switch as MK	no	12		
10.10	or approved equal.		12		
	6A 1 1gang 2 way moulded switch as MK	no			
10.11	or approved equal.		4		
	Sockets				
	Socket outlet point wired by 2.5mm ² twin	no			
10.12	with earth PVC-I copper cables in 20mm		12		
10.12	pvc conduits and all accessories.				
	-				
40.40	13A 2gang switched socket outlet as MK,	no			
10.13	in MK boxes complete with all		12		
	accessories.				
	Total Carried to Collection				
-					
	Solar Power.				
	Solar Power Supply and Lighting				
	Solar Panel, with Peak power of 75W,	no	4		
10.14	Max.Current of 4.5A, Max. Voltage of	110	-		
10.14	,				
	17V DC, Short circuit current of 4.8A,				
	Open circuit voltage of 21.4V DC, as				
	SIEMENS SP75, BP SOLAR BP 275 or				
	equal approved.				
	1	1	1	1	I.

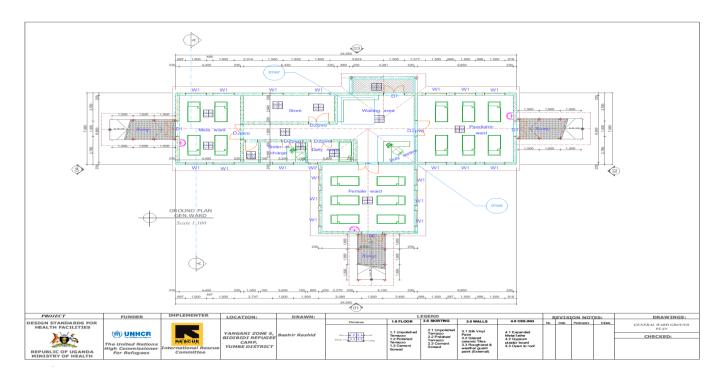
Galvanised steel supporting structure mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all accessories. 4Way SFN MCB Consumer Unit as MEM or equal approved. 10.16 Charge Regulator with System voltage 10.17 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steea GmbH Memmingen (Germany) or equal approved. Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steea GmbH Memmingen (Germany) or equal approved. Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steea GmbH Memmingen (Germany) or equal approved. Deep Cycle Maintenance Free Solar Item 10.20 Battery cable with fuse and interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. 10.22 Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar power Consumer Unit CU2. Lighting points wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all accessories.					
10.16 MEM or equal approved. Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved. Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery bank to Solar power Consumer Unit CU2. Lighting points wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all	10.15	mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all	no	1	
10.16 MEM or equal approved. Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved. Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery bank to Solar power Consumer Unit CU2. Lighting points wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all		4Way SPN MCB Consumer Unit as	no		
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10.18 Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. 10.19 Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. 10.20 Battery cable with fuse and interconnecting cables to Consumer unit. 10.21 Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. 10.22 Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar power Consumer Unit CU2. 10.23 Lighting points wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all		7 A A A A A A A A A A A A A A A A A A A			
10.19 Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Description of the provided approved o	10.18	Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or	no	1	
10.19 Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Description of the provided approved o		Deen Cycle Maintenance Free Solar	no		
Battery cable with fuse and item interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar power Consumer Unit CU2. Lighting points wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all	10.19	Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal	no	4	
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10.21 copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar power Consumer Unit CU2. Lighting points wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all					
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10.22 PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar power Consumer Unit CU2. Lighting points wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all					
Lighting points wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all	10.22	PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	m	15	
10.23 with earth PVC-I copper cables in 20mm pvc conduits complete with all		•			
	10.23	with earth PVC-I copper cables in 20mm pvc conduits complete with all	no	10	

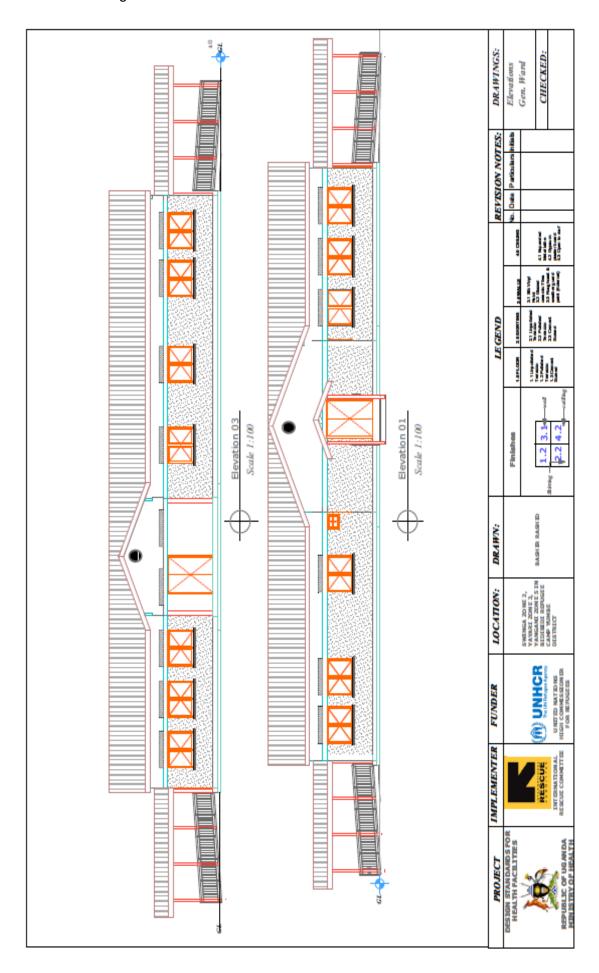
10.24	1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved(F2).	no	9	
	Total Carried to Collection			
10.25	1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3).	no	1	
10.26	1 gang 1 way 6A moulded switch as MK or approved equal.	no	10	
	11			
10.27	Socket outlet point wired by 2.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits to supply the solar powered fridge	no	1	
10.28	13A 2gang flush socket outlet as MK, in MK boxes complete with all accessories.	no	1	
	Lightning Protection.			
10.29	Copper tape of Hard Drawn High conductivity copper plate 3mm x 25mm cross section for Down Conductors,bonded to the iron sheet roof complete with fixing clips and all	m	12	
	accessories as by FURSE or equal.			
10.30	Air terminals complete with Tape Adapter and all accessories as by FURSE or equal.	no	2	
				 0/=
10.31	Test Blocks complete as by FURSE or equal.	no	2	
		<u> </u>		
10.32	Earth electrodes made from Hard drawn copper or copper weld 20mm diameter by 1200mm in two length screwed together complete with cap, earth clamp, manhole and all accessories.	no	2	
	Fire Fighting.			
	10kg sand buckets as approved.	no		

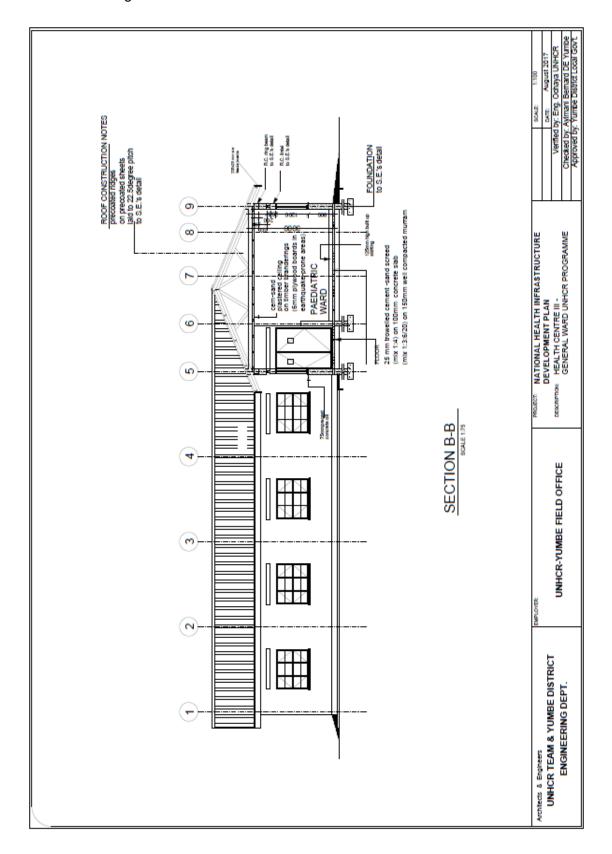
Construction of Health Centre HCIII

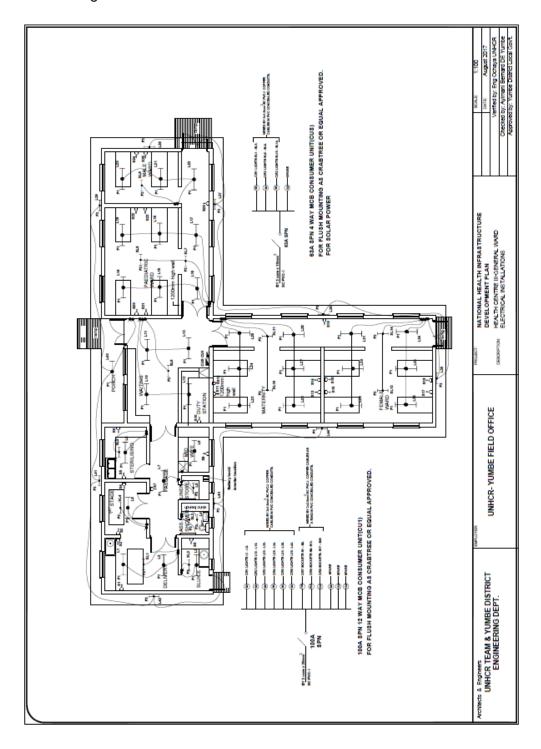
10.33		2		
	Total Carried to Collection			
	COLLECTION			
	COLLECTION			
	D 2/24 / 1/2 1			
	Page 3/24 (omit where solar power is			
	used)			
	Page 3/25			
	Page 3/26			
	TOTAL ELECTRICAL			
	INSTALLATION TO SUMMARY.			
	A WITHERITATION TO DOMINIMANT.		l	

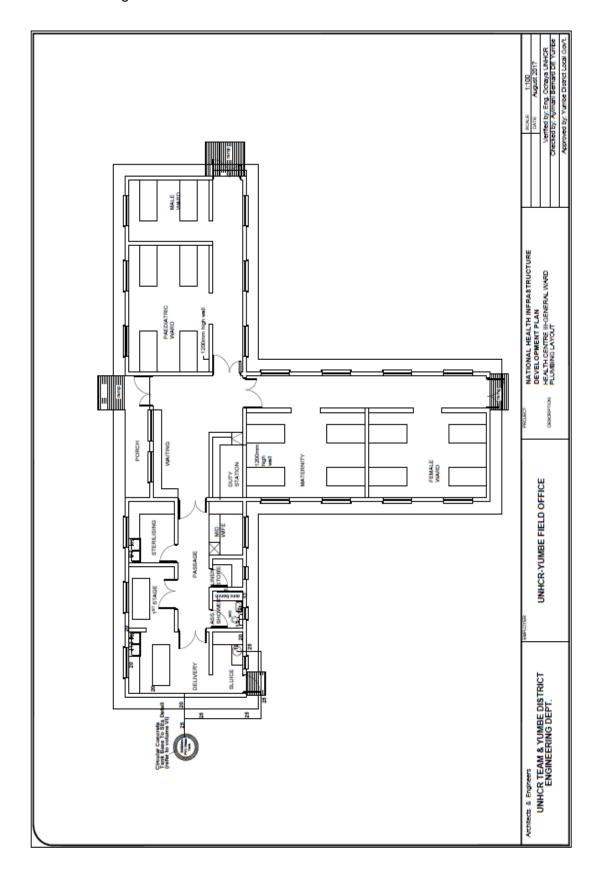
Construction of Health Centre HCIII











Item	Description	Unit	Qty	Rate	Amount
	•			Ushs	Ushs
	HEALTH CENTRE III				
	DILL NO A OVER DATENING				
	BILL NO. 2 : OUT-PATIENTS DEPARTMENT				
	DEPARTMENT				
	SUMMARY				
	SUBSTRUCTURE				
1					
	ROOF				
2	Noor				
2	EXTERNAL WALLS				
3					
	WINDOWS & EXTERNAL DOORS				
4					
	INTERNAL WALLS & PARTITIONS				
5					
	INTERNAL DOORS				
6	INTERNAL DOORS				
<u> </u>					

Г				1	
	INTERNAL FINISHINGS				
7					
/				+	
	EUDDINGG O EUDNIGUINGG				
	FITTINGS & FURNISHINGS				
8					
				+	
				+	
	MECHANICAL INSTALLATION				
9					
	ELECTRICAL INSTALLATION				
10	ELECTRICAL INSTALLATION				
10					
	TOTAL OUTPATIENTS			+	
	DEPARTMENT TO GENERAL				
	SUMMARY				
	ELEMENT NO 1			+	+
	ELEMENT NO 1				
	SUBSTRUCTURE				
	(All Provisional)				
	Note Itoms 1 24 to 1 27 and to be amised			+	
	Note Items 1.24 to 1.37 are to be priced				
	only for areas that are earthquarke prone				
	or with soils with poor bearing capacity.				
	Site Preparation				
	Suc I reputation				
		+			
	Excavate oversite to remove top soil	m ²			
1.01	average 250mm thick and remove from		424		
	site.				
		1		-	
	Treat surface of subsoil or fillings and	m ²			
1.02	surroundings with approved chemical		424		
	anti-termite solution: provide ten year				
	guarantee.				
	Summer				

		ı		
	Excavation and Earthworks.			
	Note: Rates for excavation to include for keeping excavations free from water and planking and strutting to sides of			
	excavations			
1.03	Excavate to reduce levels and remove from site.	m ³	212	
1.04	Excavate trenches for wall foundations: commencing from reduced levels : not exceeding 1.5m deep .	m ³	95	
1.05	Extra over excavation for excavating in rock	m ³	2	
	Disposal of excavated material			
1.06	Selected excavated material in filling to foundation trenches: around walling: placed in 200mm layers: watered and compacted to 95% MDD	m ³	58	
1.07	Remove surplus excavated material from site	m ³	37	
	Hardcore			
1.08	150mm Filling : deposit, spread, level and compact : 25mm selected quarry dust blinding.	m ²	135	
	Insitu concrete grade 20 / 20mm aggregate as described.			
1.09	Foundations in trenches	m ³	13	
1.10	100mm thick ground floor slab tamped to fabric reinforcement.	m ²	162	
	Total Carried to Collection			

Reinforcement				
Mesh reinforcement Ref No. A98 size 200 x 200 mm weighing 1.54 kg per square metre: in floor slab: including all necessary supports	m ²	162		
Sawn formwork as described to:				
Vertical edges of surface bed : over 75mm but not exceeding 150 mm high.	m	52		
Brickwork in burnt clay bricksin cement and sand mortar (1:3) mix, , with 25 x 3mm hoop iron strips laid horizontally every alternate course.				
230 mm thick walling.	m ²	122		
	<u></u>			
Sundries				
One layer 1000 gauge polythene sheet damp proof membrane : Under bed : 300mm laps.	m ²	162		
Damp proof courses: hessian based bituminous felt: bedded in cement and sand (1:4) mortar: 300mm laps.				
Horizontal : 230mm ditto	m	105		
		1		
Plinth wall, ramp and splash apron				
50mm Thick bed of sand on compacted ground.	m ²	38		
15mm Thick cement and sand plaster to plinth walls with wood float finish.	m ²	26		
125mm (average) thick concrete class 25/18mm aggregate ramp reinforced with and including formwork and fabric mesh reinforcement ref A98 as before described	m ²	2		
	x 200 mm weighing 1.54 kg per square metre: in floor slab: including all necessary supports Sawn formwork as described to: Vertical edges of surface bed: over 75mm but not exceeding 150 mm high. Brickwork in burnt clay bricksin cement and sand mortar (1:3) mix, , with 25 x 3mm hoop iron strips laid horizontally every alternate course. 230 mm thick walling. Sundries One layer 1000 gauge polythene sheet damp proof membrane: Under bed: 300mm laps. Damp proof courses: hessian based bituminous felt: bedded in cement and sand (1:4) mortar: 300mm laps. Horizontal: 230mm ditto Plinth wall, ramp and splash apron 50mm Thick bed of sand on compacted ground. 15mm Thick cement and sand plaster to plinth walls with wood float finish. 125mm (average) thick concrete class 25/18mm aggregate ramp reinforced with and including formwork and fabric	Mesh reinforcement Ref No. A98 size 200 x 200 mm weighing 1.54 kg per square metre: in floor slab: including all necessary supports Sawn formwork as described to: Vertical edges of surface bed: over 75mm but not exceeding 150 mm high. Brickwork in burnt clay bricksin cement and sand mortar (1:3) mix, , with 25 x 3mm hoop iron strips laid horizontally every alternate course. 230 mm thick walling. One layer 1000 gauge polythene sheet damp proof membrane: Under bed: 300mm laps. Damp proof courses: hessian based bituminous felt: bedded in cement and sand (1:4) mortar: 300mm laps. Horizontal: 230mm ditto m Plinth wall, ramp and splash apron 50mm Thick bed of sand on compacted ground. 15mm Thick cement and sand plaster to plinth walls with wood float finish. 125mm (average) thick concrete class 25/18mm aggregate ramp reinforced with and including formwork and fabric mesh reinforcement ref A98 as before	Mesh reinforcement Ref No. A98 size 200 x 200 mm weighing 1.54 kg per square metre: in floor slab: including all necessary supports Sawn formwork as described to: Vertical edges of surface bed: over 75mm but not exceeding 150 mm high. Brickwork in burnt clay bricksin cement and sand mortar (1:3) mix, , with 25 x 3mm hoop iron strips laid horizontally every alternate course. 230 mm thick walling. Damp proof membrane: Under bed: 300mm laps. Damp proof courses: hessian based bituminous felt: bedded in cement and sand (1:4) mortar: 300mm laps. Horizontal: 230mm ditto m 105 Plinth wall, ramp and splash apron 50mm Thick bed of sand on compacted ground. 126 127 128 129 162 162 162 162 163 164 165 165 166 167 168 169 169 160 160 160 161 162 162 162 162	Mesh reinforcement Ref No. A98 size 200 x 200 mm weighing 1.54 kg per square metre: in floor slab: including all necessary supports Sawn formwork as described to: Vertical edges of surface bed: over 75mm but not exceeding 150 mm high. Brickwork in burnt clay bricksin cement and sand mortar (1:3) mix, with 25 x 3mm hoop iron strips laid horizontally every alternate course. 230 mm thick walling. Damp proof membrane: Under bed: 300mm laps. Damp proof courses: hessian based bituminous felt: bedded in cement and sand (1:4) mortar: 300mm laps. Horizontal: 230mm ditto m 105 Plinth wall, ramp and splash apron 50mm Thick bed of sand on compacted ground. 15mm Thick cement and sand plaster to plinth walls with wood float finish. 125mm (average) thick concrete class 25/18mm aggregate ramp reinforced with and including formwork and fabric mesh reinforcement ref A98 as before

		1	1	1	1
	Ditto but 50mm thick concrete splash	m^2			
1.19	-		20		
1.19	apron ditto		38		
	Ditto concrete ramp beam size 60 x	m			
1.20	80mm deep with and including necessary		2		
1.20	_		4		
	excavations, formwork and disposal of				
	surplus soil.				
	Div. 1 1 1 100				
	Ditto splash apron beam size 100 x	m			
1.21	150mm deep ditto		55		
	1				
		2			
	38mm thick cement and sand (1:3)	m ²			
1.22	paving on splash apron wood float finish		38		
	D	2	+		+
	Prepare and apply three coats of black	m ²			
1.23	bituminous paint to plastered surfaces.		26		
	Total Carried to Collection				
	Earthquake areas / Soils with poor				
	bearing capacity.				
	Note: Rates for excavation to include for				
	keeping excavations free from water and				
	planking and strutting to sides of				
	excavations				
	E	m ³			
	Excavate trenches for wall foundations:	m			
1.24	commencing from reduced levels : not		95		
	exceeding 1.5m deep.				
	exceeding 1.5m deep.				
		-			
	Selected excavated material in filling to	m^3			
1.25	foundation trenches as before described.		69		
	Todaled to the state of the sta		0)		
		-			
	Remove surplus excavated material from	m^3			
1.26	site		26		
			-		
		 			
	Brickwork in burnt clay bricks in cement				
	and sand mortar (1:3) mix; with and				
	including 25 x 3mm hoop iron strips laid				
	horizontally every alternate course.				
	200 mm thick walling.	m ²			
1.05	200 mm times waiting.	***	00		
1.27			98		
	Insitu concrete grade 10 / 20mmaggregate				
	2 control etc 5. auc 10 / 20mmug51 cguit				
		1			1

	as described.			
1.28	50mm thick blinding to foundations and column bases	m ²	46	
	Insitu concrete grade 20 / 20mm aggregate as described.			
1.29	Foundations in trenches	m ³	4	
	Insitu concrete grade 25 / 20mm vibrated reinforced as described.			
1.30	Foundations in trenches	m ³	9	
1.31	Column Bases	m ³	1	
1.32	Columns	m ³	1	
	Mild steel rod reinforcement as described.			
1.33	8 mm diameter bar	kg	125	
	High yield tensile steel bar reinforcement to BS 4449 as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.			
1.34	12 mm diameter bar	kg	625	
	Total Carried to Collection			
		-		
	Sawn formwork as described to			

Construction of Health Centre HCIII

	Sides of Columns	m ²		
1.36			12	
1.50			12	
	Sides of Strip foundations	m ²		
1.37	•		32	
1.57			32	
	Total Carried to Collection			
	Total Carried to Concetion			
	COLLECTION			
	COLLECTION			
	_			
	Page 2/2		1	
	1 age 4/4			
-				
	Dogo 2/2			
	Page 2/3			
	D 2/4			
	Page 2/4			
	D 2/5		+	
	Page 2/5			
	TOTAL SUBSTRUCTURE TO			
	SUMMARY			
	DOMANIA III			
		•		

	1	1	1	ı	
	ELEMENT NO. 2				
	ROOF				
	1001				
	N . I 220 . 222 . I . I				
	Note Items 2.20 to 2.23 are to be priced				
	only for areas that are earthquarke prone				
	or with soils with poor bearing capacity.				
	Insitu concrete grade 25 / 20mm:				
	•				
	Vibrated, reinforced as described				
	Ring beams	m ³			
2.01			2		
	Mild steel reinforcement as described				
	•				
	including cutting to lengths, bending,				
	hoisting and fixing including all necessary				
	tying wire and spacing blocks.				
	8 mm diameter bar	kg			
2.02	o min diameter par	''s	110		
2.02			110		
	High yield tensile steel bar reinforcement				
	to BS 4449 as described including cutting				
	to lengths, bending, hoisting and fixing				
	including all necessary tying wire and				
	spacing blocks.				
	12 mm diameter bar	kg			
2.03			220		
	Saura formaniante de Jaconite d'Acc				
	Sawn formwork as described to:				
	Sides and soffites of beams	m^2			
2.04			34		
		1	1		

			1	1	
	Brickwork in burnt clay bricksin cement				
	and sand mortar (1:3) mix; with and				
	including 25 x 3mm hoop iron strips laid				
	horizontally every alternate course.				
	nonzoniany every anermale course.	+		+	
	220 751 1 11 11	2			
	230mm Thick gable walling	m ²			
2.05			15		
		<u> </u>			
	Finishes				
	Cement and sand (1:4) render on concrete				
	or masonry	1			
		1		-	
	15mm to walls	m ²			
2.06			15		
	Two coats tyrolene rendering on masonry				
	, and the same of	1			
	Walls and concrete surfaces	m ²			
2.07	vians and concrete surfaces	***	15		
2.07		1	15		
		1			
		<u>L</u>		<u> </u>	
		1			
		1		†	
		+			
		1			
		<u> </u>			
		<u> </u>			
	Total Carried to Collection	<u> </u>			
	Roof Construction	1			
	The following in roof construction	1			
	including all bolting, gusset plates, fixing				
	trusses to ring beams with holding down				
	bolts and hoisting and fixing				
	approximately 3.0mm above ground level.				
		<u> </u>			
	Sawn cypress pressure impregnated with				
	preservative:-				
	F	†			
	7 No. Truescas anan 9200 1000	+		+	
	7 No. Trusses span 8200mm x 1800mm				
	rise	<u> </u>			
	50 x 100mm Purlins	m			
2.08			192		
		1			
	1	1		Ĺ	1

2.09	50 x 100mm Strut /tie	m	90	
2.10	50 x 150mm Ridge	m	18	
2.11	50 x 150mm Tie beam	m	64	
2.12	50 x 150mm Rafters	m	100	
2.13	75 x 100mm Beam	m	15	
2.14	75 x 100mm Wall Plate	m	33	
	Roof Covering			
2.15	26 Gauge pre-painted iron roofing sheets fixed with 1 ¹ / ₂ side corrugation laps and 150mm end laps with and including approved roofing nails or	m ²	220	
	galvanized steel drive screws with plastic washers to manufacturer's instructions.			
2.16	26 Gauge plain (pre-coated) roll top ridge capping.	m	18	
	Eaves			
2.17	25 x 225mm Wrot Cypress fascia board	m	60	
4.1/			UU	
	Deinting			
	Painting			
	Knot prime stop and apply three coats of gloss oil paint to timber surfaces.			
	T			
2.18	Knot, prime, stop and apply three coats of gloss oil paint to wood fascia 200-300mm girth.	m	60	
	Roof Vents.			
2.19	Roof Vents size 230 x 460mm high filled with Kajjansi ventilation bricks and bat	no	2	

			1	T	Г
	proof netting complete with all necessary				
	timber framing.				
	Total Carried to Collection				
	Total Carrieu to Collection				
	Earthquake areas / Soils with poor				
	bearing capacity.				
	bearing capacity.				
	Insitu concrete grade 25 / 20mm:				
	Vibrated, reinforced as described				
	. 10. thou, rong or con as west room		+		
		-	-	1	
	Ring beams	\mathbf{m}^3			
2.20			2		
	3,611	1			
	Mild steel reinforcement as described.				
	8 mm diameter bar	lzα			
2.21	o min diameter par	kg	110		
2.21			110		
	High yield tensile steel bar reinforcement				
	DC 4440 1 11 1				
	to BS 4449 as described.				
	12 mm diameter bar	kg			
2.22		***5	220		
2,22			220		
	Sawn formwork as described to:				
	January Caracan Caraca				
	G1.7 7 000 0.7	-			
	Sides and soffites of beams	m ²			
2.23			34		
		1	+	-	
	Total Carried to Collection				
	COLLECTION				
-					
	-	1	1		
	-	1	-	1	
	Page 2/5				
		1	1		
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<u></u>				<u></u>	
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	Do as 2/6	1	1		
	Page 2/6				
	Page 2/7				
	TOTAL ROOF CARRIED TO				
	SUMMARY				
	DOMENTE AND A STATE OF THE STAT		+		
		1	1		
	ELEMENT NO. 3				
	EXTERNAL WALLS				
	EXIERIAL WALLS				
	Note Items 3.08 to 3.11 are to be priced				
	only for areas that are earthquarke prone				
	or with soils with poor bearing capacity.				
			<u> </u>		
	Brickwork in burnt clay bricksin cement				
	and sand mortar (1:3) mix; with and				
	including 25 x 3mm hoop iron strips laid				
	horizontally every alternate course.				
	220 4hi al 11	2	1		
	230mm thick walling.	m^2			
3.01			90		
	Dawn an ant Varite	1	+		
	Permanent Vents	1			
	Permanent Vent filled in with Kajjansi	m ²			
2.02			1		
3.02	ventilation bricks or other equal and		4		
	approved; bat proof gauze and coffee				
	tray wire backing complete with				
			<u> </u>	I .	

	<u>-</u>			1	
	necessary timber framing and beading.				
	Metal work				
	100mm Diameter x 3100mm Galvanised	no			
3.03	Iron class B with bottom end welded to	110	8		
3.03			0		
	110 x 110 x 6mm thick plate set in and				
	including concrete (1:3:6) base size 200 x				
	200 x 200mm deep and 100 x 80 x 6mm				
	U-plate welded on top end				
	12mm diameter bolt with nut and washer	no			
3.04	including drilling 2 No. 14mm diameter	120	8		
3.04	holes				
	noies				
	Cement and sand (1:4) render trowelled				
	smooth on concrete or masonry				
	15mm to walls.	m^2			
3.05			104		
	Two coats tyrolene rendering on masonry				
	1 wo coals tyrolene renaering on masonry				
		2			
	Walls and concrete surfaces	m ²			
3.06			104		
	Painting				
	· ·				
	Prepare and apply three coats gloss oil	m			
2.07		111	24		
3.07	paint on steel pipe support 200-300mm		24		
	girth				
	Earthquake areas / Soils with poor				
	bearing capacity.	<u> </u>			
	Insitu concrete grade 25 / 20mm aggregate				
	: vibrated reinforced.				
	· ····································				
	Columns	m ³			
2.00	Columns	1111	1		
3.08			1		
				<u> </u>	
	Total Carried to Collection				
	Total Called to Collection			1	

	T	1	ı	T	1
	Mild steel rod reinforcement as described				
	including cutting to lengths, bending,				
	hoisting and fixing including all necessary				
	tying wire and spacing blocks.				
	8 mm diameter bar	kg			
3.09	0	8	65		
	High yield tensile steel bar reinforcement				
	to BS 4449 as described including cutting				
	to lengths, bending, hoisting and fixing				
	including all necessary tying wire and				
	spacing blocks.				
		 			
	12 mm diameter bar	kg			
3.10			130		
	Sawn formwork as described to				
	Sides of Column	m ²			
3.11			23		
	Total Carried to Collection				
	Total Carried to Concetion				
	COLLECTION				
	COLLECTION				
	Page 2/9				
		1			
		1			
		1			
	Page 2/10	1			
	Page 2/10	1			
		1			
		1			
		ļ			
		1			
	TOTAL EXTERNAL WALLS TO				
	SUMMARY				
	<u>'</u>			•	1

ELEMENT NO. 4 WINDOWS & EXTERNAL DOORS Concrete Work Precast concrete grade 25 / 20mm lintel reinforced with 4No. 12 mm high tensile steel bars and 8mm steel stirrups at 200 mm centres and including all necessary formwork and hoisting and fixing in position. 4.01 150 x 230 mm high The precast concrete grade 25 / 20mm aggregate: units reinforced as necessary and finished fair face on all exposed sides. 4.02 Purpose made steel casement windows manufactured from standard W20 sections: manufactured, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners to opening lights: plugged and fasters and and and fasters and the standard was and the standard was and fastered and thinges, protein mechanisms, stays, fasteners to opening lights: plugged and fastered and the standard was and the stand					
WINDOWS & EXTERNAL DOORS Concrete Work Precast concrete grade 25 / 20mm lintel reinforced with 4No. 12 mm high tensile steel bars and 8mm steel stirrups at 200 mm centres and including all necessary formwork and hoisting and fixing in position. 150 x 230 mm high Trecast concrete grade 25 / 20mm aggregate: units reinforced as necessary and finished fair face on all exposed sides. 75 x 285 mm sunk weathered and throated window cill Purpose made steel casement windows manufactured from standard W20 sections: manufacture, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners to opening lights: plugged and					
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4.02 throated window cill Purpose made steel casement windows manufactured from standard W20 sections: manufacture, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners to opening lights: plugged and		ana jinisnea jair jace on all exposea sides.			
4.02 throated window cill Purpose made steel casement windows manufactured from standard W20 sections: manufacture, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners to opening lights: plugged and					
4.02 throated window cill Purpose made steel casement windows manufactured from standard W20 sections: manufacture, assemble and deliver to site: Supply and fix ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners to opening lights: plugged and					
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hinges, pivoting mechanisms, stays, fasteners to opening lights: plugged and					
fasteners to opening lights: plugged and	1				
	ļ	hinges, pivoting mechanisms, stays,			
SCrewed OF Dull thio Walling : One coal rea					
oxide primer before delivery.		fasteners to opening lights: plugged and			
John Primer Defore activery.		fasteners to opening lights: plugged and screwed or built into walling: one coat red			

	T	1	1	T	T
4.03	Window type W4 : Size 600 x 600mm overall height: 1No. top hung opening lights size 600 x 300mm high: fixed bottom light size 600 x 300mm high.	no	1		
4.04	Window type W1: Size 1500 x 1200mm overall height: 2No. side hung opening lights size 500 x 1200mm high: 1 No. fixed middle light size 500 x 1200mm high.	no	6		
	Burglar proofing grille comprising 12mm square bars 150mm centres both ways in cobweb pattern or other equal and approved pattern welded to 50 x 50 x 6mm angle the whole having one coat of red oxide primer to fit the following window sizes.				
4.05	Window type W4 : Size 600 x 600mm overall height	no	1		
4.06	Window type W1 : Size 1500 x 1200mm overall height.	no	6		
	Total Carried to Collection				
	Glass and Glazing				
4.07	4mm thick clear sheet glass to metal window with putty	m ²	11		
4.08	Ditto but obscure glass	m ²	1		
	Painting				
	Prepare touch up primer and apply one undercoat and two finishing coats of gloss oil paint: on metalwork.				
4.09	Glazed metal surfaces	m ²	23		

4.10	Burglar proofing grilles	m ²	23	
	Total Carried to Collection			
	Total Carried to Conection			
	COLLECTION			
	-			
	_			
	Page 2/11			
	I ugt #11			
	Page 2/12			
	1 age 2/12			
	TOTAL WINDOWS & EXTERNAL			
	DOORS TO SUMMARY			
	ELEMENT NO. 5			

			_		
	INTERNAL WALLS & PARTITIONS				
	Note Items 5.02 to 5.05 are to be priced				
	only for areas that are earthquarke prone				
	or with soils with poor bearing capacity.				
	Brickwork in burnt clay bricksin cement				
	and sand mortar (1:3) mix; with and				
	including 25 x 3mm hoop iron strips laid				
	horizontally every alternate course.				
	230mm Thick walling reinforced with	m ²			
5.01	and including 25 x 3mm hoop iron strips	111	105		
5.01			105		
	laid horizontally every alternate course				
	Earthquake areas / Soils with poor				
	bearing capacity.				
	Insitu concrete grade 25 / 20mm aggregate				
	: vibrated reinforced.				
	: vioraiea reinjorcea.				
		2			
	Columns	m^3			
5.02			1		
	Mild steel rod reinforcement as described				
	including cutting to lengths, bending,				
	hoisting and fixing including all necessary				
	tying wire and spacing blocks.				
		<u> </u>			
	8 mm diameter bar	kg			
5.03			30		
	High yield tensile steel bar reinforcement				
	to BS 4449 as described including cutting				
	to lengths, bending, hoisting and fixing				
	including all necessary tying wire and				
	spacing blocks.				
	12 mm diameter bar	kg			
5.04			100		
	Sawn formwork as described to				
	Sumit joi nemoi k us uesci weu w				
		2			
_	Sides of Column	m ²			
5.05			4		
	1	1	1	1	I

		-			
	TOTAL INTERNAL WALLS &				
	PARTITIONS TO SUMMARY				
	ELEMENT NO. 6	+			
	INTERNAL DOORS				
	Concrete Work				
		1			
	Precast concrete grade 25 / 20mm lintel				
	reinforced with 4No. 12 mm high tensile				
	steel bars and 8mm steel stirrups at 200				
	mm centres and including all necessary				
	formwork and hoisting and fixing in				
	position.				
	200 x 200 mm high	m			
C 01	200 x 200 mm mgn	m	10		
6.01			10		
	Purpose made steel pannelled doors				
	manufactured from 2mm thick mild steel				
	plates welded both sides to RHS frames				
	with fixing lugs cast into walling: Supply				
	and fix approved hinges : one coat red				
	oxide primer before delivery.	1			
	Door type D4 size 900 x 2100mm high	no			
6.02			2		
0.04		+			
		1			
	Matchboarded door comprising 45 x				
	150mm top and bottom rails and stiles and				
	25 x 100mm tongued and grooved, vee-				
	jointed panels.				
	45mm Door size 850 x 2075mm high	no			
6.03			5		
0.03	(D9).		5	-	

		1			
	Wrot Mahogany: Selected and kept Clean				
	25 x 50mm Architrave: two labours	m		1	
6.04	23 x 30mm Arcmitave, two labours	1111	52		
6.04			52		
	50 x 150mm Door Frame: two labours:	m			
6.05	plugged.		26		
	Francisco				
	Transport of a com-				
	Ironmongery				
Ì	Supply and fix the following ironmongery				
	of ''UNION'' Manufacture as described.				
	Dutt Hingas 75 v 100mm , finished	mag			
	Butt Hinges, 75 x 100mm : finished	prs			
6.06	stainless steel.		8		
	25mm Rubber door stop plugged to wall	no			
6.07	or floor.		7		
0,07			-		
	2 T Mr. 4' T I				
	3 Lever Mortice Lock complete with	no	_		
6.08	lever furniture		5		
	Ditto steel door lock	no			
6.09	21000 50001 4001 10011		5		
0.07			3		
	T. 1. 1.				
	Painting				
	Prepare Knot, Prime, stop and apply three				
	coats of gloss oil paint : on woodwork				
	General Surfaces : doors	m ²			
<i>(</i> 10	General Surfaces. doors	111	10		
6.10			19		
	Ditto: over 200 but not exceeding 300mm	m			
6.11	girth		26		
	8				
	Total Carried to Collection				
	Ditto not exceeding 100mm girth	m			
6.12			52		
V•1#				+	
	D 1 1 0 1 0 0 1			1	
	Prime back of frame before fixing	m			
6.13			26		
	Painting				
	_ willing			+	

	n , 1 , 1 , 1		1	
	Prepare touch up primer and apply one			
	undercoat and two finishing coats of gloss			
	oil paint : on metalwork.			
	General metal surfaces	m ²		
6.15	General metal surfaces	111	8	
0.13			O	
	Total Carried to Collection			
	COLLECTION			
	COLLECTION			
	_			
	_			
	Page 2/14			
	Page 2/15			
	3			
	TOTAL INTERNAL DOORS TO			
	SUMMARY			
-				
-				

		1		1	1
	ELEMENT NO. 7				
	INTERNAL FINISHES				
	INTERNAL FINISHES				
	Floor Finishes				
	Cement and sand (1:4) screeds and				
	pavings: one coat: steel trowell finish:				
	laid on concrete				
	40 41.1	2			
	40mm thick paving.	m ²			
7.01			144		
	125 125 1 -1				
	125 x 125mm coved skirting	m			
7.02			103		
	Wall Finishes				
	wattriusites				
	15mm thick to cement and sand plaster,	m^2			
7.03	steel trowell finish to walls.		357		
7.00	Steel trower ministres wants		1007		
	Painting: 'Sadolin Paints' or equal and				
	approved.				
	off:				
		2			
	Prepare and apply one undercoat and	m ²			
7.04	two finishings coats of matt vinyl paint to		357		
	plastered surfaces.				
	plustered burraces.				
		ļ			
	Ceiling Finishes				
	9 x 24 SWG galvanized expanded metal	m ²			
5 0 5		111	144		
7.05	lathing U-nailed to timber branderings		144		
	Cement and sand (1:4) pricking course to	m ²			
7.00	` ' 1	111	144		
7.06	metal lathing		144		
		<u> </u>			
	12mm cement and sand plaster to ceiling	m ²			
7.07	product to coming		144		
7.07			144		
	Extra for 150 x 150mm thick cement and	m			
7.08	sand (1:3) cornice		115		
,,,,,	Durin (110) COLINCE		110	1	

					1
	Ceiling Structure				
	Pressure impregnated sawn Cypress				
	Tressure impregnated sawn Cypress				
	50 x 50mm branderings	m			
7.09			285		
	50 v 100mm joigts	m			
7 10	50 x 100mm joists	m	260		
7.10		_	360		
	Painting				
	Prepare and apply three coats of first				
	grade emulsion paint on:.				
	grade emuision paini on				
		1 2			
	Plastered ceiling	m ²			
7.11			144		
	Comics + Over 100 but not avaiding	m			
- 10	Cornice: Over 100 but not exceeding	m	115		
7.12	200mm girth.		115		
		_			
	Total Carried to Collection				
	Earthquake areas				
	F - F - 41 1 / C - 11 141		+		
	For Earthquake areas / Soils with poor				
	bearing capacity price the following items				
	<u>in lieu of items 7.10 - 7.13.</u>				
	6mm Thick internal quality plywood	m ²			
7.13		1111	144		
7.13	nailed to branderings.		144		
	25 x 45mm Wrot Hardwood Cornice.	m			
7.14			115		
		1	-		
	Total Carried to Callaction	+			
	Total Carried to Collection	1			
	COLLECTION				
		1	+		
		1			
	Page 2/16				
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Page 2/17			
1 agc 2/17			
	1		
TOTAL INTERNAL FINISHES TO			
SUMMARY.			
SUMMAK1.			
	1		
ELEMENT NO. 8			
FITTINGS AND FIXTURES			
Curtain Boxes			

	•			
8.01	Pelmet box comprising 150 x 25mm Fascia, 125 x 25mm top 150 x 125 x 25mm stopped ends jointed together, complete with and including I-section aluminium curtain rail with rollers	m	15	
	Prepare and apply three coats of polyurethane lacquer: on woodwork			
8.02	General surfaces of pelmet boxes	m ²	10	
	Blackboard			
8.03	Approved blackboard size 2100 x 1200mm high with and including 50 x 25mm softwood framing plugged to wall	no	1	
_	Service Hatch			
8.04	Purpose made timber service hatch size 600 x 900mm high to detail	no	1	
	Concrete wall shelving			
8.05	75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed.	m ²	4	
8.06	Concrete (1:2:4) beam size 200 x 185mm deep reinforced with and including 4 No. Y12 steel bars, R8 links at 200mm centres and formwork.	m	10	
8.07	Fabric mesh reinforcement ref. A98 laid in slab	m ²	4	
8.08	Sawn formwork to soffite of slab	m ²	4	
8.09	Ditto edge of slab 75mm high	m	10	
	Concrete Work top			
	100mm concrete grade 10 / 20mm	m ²		

8.10	aggregate: plinth		11	
8.11	Concrete (1:2:4) beam size 200 x 185mm deep reinforced with and including 4 No. Y12 steel bars, R8 links at 200mm centres and formwork.	m	30	
8.12	75mm Thick reinforced concrete (1:2:4) slab finished with 15mm terrazzo finish on exposed surfaces.	m ²	11	
	Total Carried to Collection			
8.13	Fabric mesh reinforcement ref. A98 laid in slab	m ²	11	
8.14	Wrot formwork to soffite of slab	m ²	11	
8.15	Ditto edge of slab / plinth 75 - 150mm high	m	40	
8.16	25mm thick blockboard door, shelf, back and base with hardwood lipping to exposed edges	m ²	69	
8.17	25 x 25mm softwood bearer	m	38	
8.18	50 x 50mm ditto	m	36	
8.19	Approved cupboard lock	no	7	
8.20	75mm steel butt hinges	prs	7	
8.21	Approved ball catch	no	14	
8.22	Ditto pull handles	no	7	

8.23	Prepare and apply three coats gloss oil paint on wood surfaces.	m ²	94	
0.43	paint on wood surfaces.		94	
8.24	Ditto to frame not exceeding 100mm girth.	m	74	
	Battery Cage			
8.25	Battery Cage overall size 1050 x 1550 x 1350mm high to details: comprising 100mm thick concrete (1:3:6) base with 100 x 200mm edge beam: 6 No. 50 x 50 x 4mm RHS vertical pillars: 50 x 50 x 4mm RHS horizontal braces on top and bottom on all elevations: 12mm square bars welded to hollow sections at 150mm centres on all elevations: Door size 750 x 1200mm high with 50 x 50 x 4mm RHS framing and 12mm square bars as described and complete with heavy duty hinges and locking devices: Roof with 50 x 100mm Purlins and 26 gauge glavanised corrugated iron sheets: the whole with one coat red oxide primer and three coats of gloss oil paint.	no	1	
	Total Carried to Collection			
	COLLECTION			
	Page 2/18			
	Page 2/19			
	TOTAL FITTINGS & FIXTURES TO SUMMARY.			
	ELEMENT NO. 9 MECHANICAL INSTALLATION			
	Supply, install, connect and set to work the following, all as described in the Specifications and Drawings.			

18 Gauge Stainless Steel Sink as ARMITAGE SHANKS htm64 doon single bowl sink, \$\$\$580 (5.337014K)(SK-1), no tapholes, no overflow, complete with single nimbus 13mm bib tap, \$\$7206(661041G), antisplash outlet \$\$8346(8174BPR), extension pieces \$\$8331(81460PR), wall mounts with extension inlets, 38mm resealing bottle trap, \$\$8925(7360800) and 75mm seal and multipurpose outlet or equal approved. 60cm Acrylic Towel Rail with brackets, as ARMITAGE SHANKS MAYFAIR \$\$014 (2081ITR) or equal approved Water Supply to Appliances 25 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm class B cold water pipe, burried in on or equal approved. 12 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories.			1	1	1	
9.01 ARMITAGE SHANKS htm64 doon single bowl sink,SS861(5337014K)(SK-1), no tapholes, no overflow, complete with single nimbus 13mm bib tap, S7206(66104IG), antisplash outlet S8346(8174BPR), extension pieces S8331(81460PR), wall mounts with extension inlets, 38mm resealing bottle trap, S8925(7360800) and 75mm seal and multipurpose outlet or equal approved. 60cm Acrylic Towel Rail with brackets, as ARMITAGE SHANKS MAYFAIR S5014 (20811TR) or equal approved Water Supply to Appliances 25 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe, burried in wall, cri in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, cri in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mg class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mg class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mg class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mg class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories.		Sanitary Appliances				
9.01 ARMITAGE SHANKS htm64 doon single bowl sink,SS861(5337014K)(SK-1), no tapholes, no overflow, complete with single nimbus 13mm bib tap, S7206(66104IG), antisplash outlet S8346(8174BPR), extension pieces S8331(81460PR), wall mounts with extension inlets, 38mm resealing bottle trap, S8925(7360800) and 75mm seal and multipurpose outlet or equal approved. 60cm Acrylic Towel Rail with brackets, as ARMITAGE SHANKS MAYFAIR S5014 (20811TR) or equal approved Water Supply to Appliances 25 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe, burried in wall, cri in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, cri in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mg class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mg class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mg class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mg class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories.						
trap, S8925(7360800) and 75mm seal and multipurpose outlet or equal approved. 9.02 60cm Acrylic Towel Rail with brackets, as ARMITAGE SHANKS MAYFAIR S5014 (20811TR) or equal approved Water Supply to Appliances 25 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm gate valves as Peglar heavy duty or equal approved. 20 mm gate valves as Peglar heavy duty or equal approved. 25 mm gate valves as Peglar heavy duty or equal approved. 1 mo last Stationary duty or equal approved. 1 p.06 Flexible tubes (stainless steel braid on PVC) for connection of appliances,	9.01	ARMITAGE SHANKS htm64 doon single bowl sink,S5861(5337014K)(SK-1), no tapholes, no overflow, complete with single nimbus 13mm bib tap, S7206(661041G), antisplash outlet S8346(8174BPR), extension pieces	no	4		
9.02 as ARMITAGE SHANKS MAYFAIR S5014 (20811TR) or equal approved Water Supply to Appliances 25 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm gate valves as Peglar heavy duty or equal approved. 20 mm gate valves as Peglar heavy duty or equal approved. 1 complete with all fittings and accessories. 1 complete with all fittings and accessories. 1 complete with all fittings and accessories.		trap, S8925(7360800) and 75mm seal and				
9.03 25 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 9.04 20 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm gate valves as Peglar heavy duty or equal approved. 2 mn gate valves as Peglar heavy duty or equal approved. 2 mn gate valves as Peglar heavy duty or equal approved. 1 m 10 complete with all fittings and accessories.	9.02	as ARMITAGE SHANKS MAYFAIR	no	4		
9.03 25 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 9.04 20 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm gate valves as Peglar heavy duty or equal approved. 2 mn gate valves as Peglar heavy duty or equal approved. 2 mn gate valves as Peglar heavy duty or equal approved. 1 m 10 complete with all fittings and accessories.		Water Supply to Appliances				
9.03 in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 20 mm class B cold water pipe, burried in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 9.04 in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12 mm gate valves as Peglar heavy duty or equal approved. 20 mm gate valves as Peglar heavy duty or equal approved. 1 complete with all fittings and accessories. 12 mm gate valves as Peglar heavy duty or equal approved. 1 complete with all fittings and accessories.		water Supply to Appliances				
9.04 in the ground, burried in wall, clipped to wall, or in duct complete with all fittings and accessories. 12 mm class B cold water pipe, burried in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12mm gate valves as Peglar heavy duty or equal approved. 20mm gate valves as Peglar heavy duty or equal approved. 25mm gate valves as Peglar heavy duty or equal approved. 1 Elexible tubes (stainless steel braid on PVC) for connection of appliances,	9.03	in the ground, burried in wall, clipped to wall, or in duct complete with all fittings	m	5		
9.05 in wall, clipped to wall, or in duct, complete with all fittings and accessories. 12mm gate valves as Peglar heavy duty or equal approved. 20mm gate valves as Peglar heavy duty or equal approved. 1 25mm gate valves as Peglar heavy duty or equal approved. 25mm gate valves as Peglar heavy duty or equal approved. 1 Flexible tubes (stainless steel braid on PVC) for connection of appliances,	9.04	in the ground, burried in wall, clipped to wall, or in duct complete with all fittings	m	5		
9.06 or equal approved. 2	9.05	in wall, clipped to wall, or in duct,	m	10		
9.07 or equal approved. 25mm gate valves as Peglar heavy duty or equal approved. 1 Plexible tubes (stainless steel braid on PVC) for connection of appliances, 1 1 25mm gate valves as Peglar heavy duty no 1 1 Plexible tubes (stainless steel braid on PVC) for connection of appliances,	9.06		no	2		
9.08 or equal approved. 1 Flexible tubes (stainless steel braid on PVC) for connection of appliances, 4	9.07		no	1		
9.09 PVC) for connection of appliances, 4	9.08		no	1		
	9.09	PVC) for connection of appliances,	no	4		

		,		T	
_					
To	otal Carried to Collection				
10	our curricu to concetion				
We	Vater Supply				
co	000 litre pvc tank placed on ground oncrete base (measured separetely), omplete with all accessories.	no	1		
	5mm gate valves as Peglar heavy duty requal approved.	no	1		
12	Imm Stand by nine complete with	Item			
	2mm Stand by pipe, complete with	Hem	1		
12:	2mm gate valve, tap and all accessories		1		
ba con sla	5m high Ground concrete water tank ase, made in masonry brickwork, well ompacted hardcore, with 150mm thick ab on top as shown in drawing, for the bove water tank, complete.	no	1		
Teer	atoms al Dunia ao a				
Int	nternal Drainage				
wi W	8mm PVC heavy gauge pipes complete ith bends and all accessories for WHBs, sinks, in floor, walls, up to hanholes/Gully Trap.	m	30		
Ex	xternal Drainage				
	-				
bu	10mm PVC heavy gauge pipework urried in the ground to a fall of 1:60 omplete with excavations, bedding, ackfilling and all accessories.	m	20		
tra	cully Trap (GT) complete with PVC rap, masonry construction 300x300mm, rith steel cover and all accessories.	no	2		
br	Ianhole 450 x 600mm in masonry rickwork, rendered smooth inside omplete with benching, heavy duty	no	1		
Gı tra wi Ma	Fully Trap (GT) complete with PVC rap, masonry construction 300x300mm, rith steel cover and all accessories. Ianhole 450 x 600mm in masonry rickwork, rendered smooth inside				

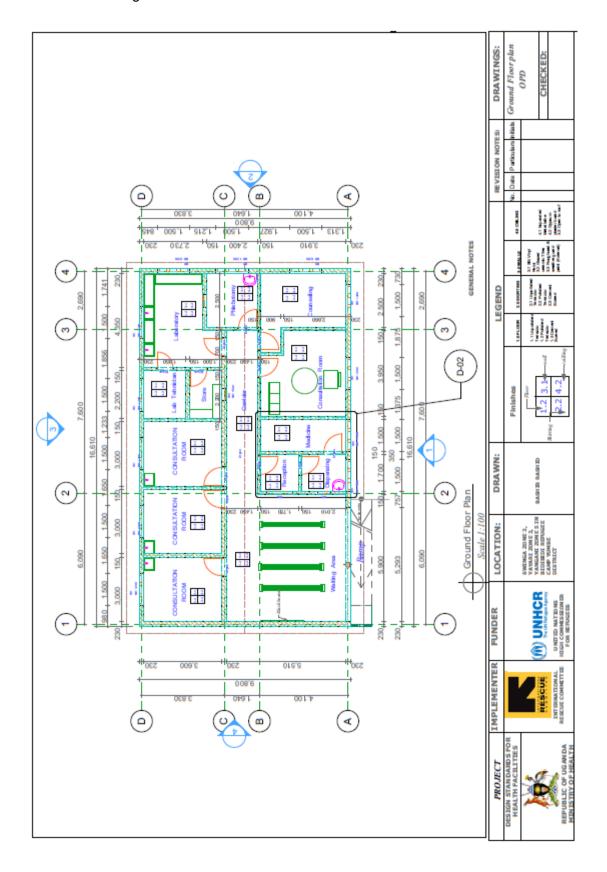
9.18 tap 150 acc Tot	ak Pit Size approx. 2500mm on top opering to 1500mm and depth of 00mm complete with hardcore and all cessories. Ital Carried to Collection DLLECTION ge 2/20	no	1	
9.18 tap 150 acc Tot	opering to 1500mm and depth of 00mm complete with hardcore and all cessories. Ital Carried to Collection OLLECTION	no	1	
СО	DLLECTION			
	ge 2/20			
Pag	80 = 1 = 0			
Paş	ge 2/21			
	OTAL MECHANICAL STALLATION TO SUMMARY			
	EMENT NO. 10			
Sup	pply, install, connect and set to work the			
•	lowing, all as described in the ecifications and Drawings.			
	wer Supply			
10.01 flus	OA 6-Way SPN MCB Consumer Unit sh mounting complete with integral lator, MCBs and all accessories as EM, CRABTREE or equal approved.	no	1	
10.02 PV 25m with	pply Cable 16mm ² x 3core VC/SWA/PVC Copper cables in mm PVC concealed conduits complete th terminations clipping and all	m	15	
	cessories from UEDCL meter to the nsumer Unit above.			

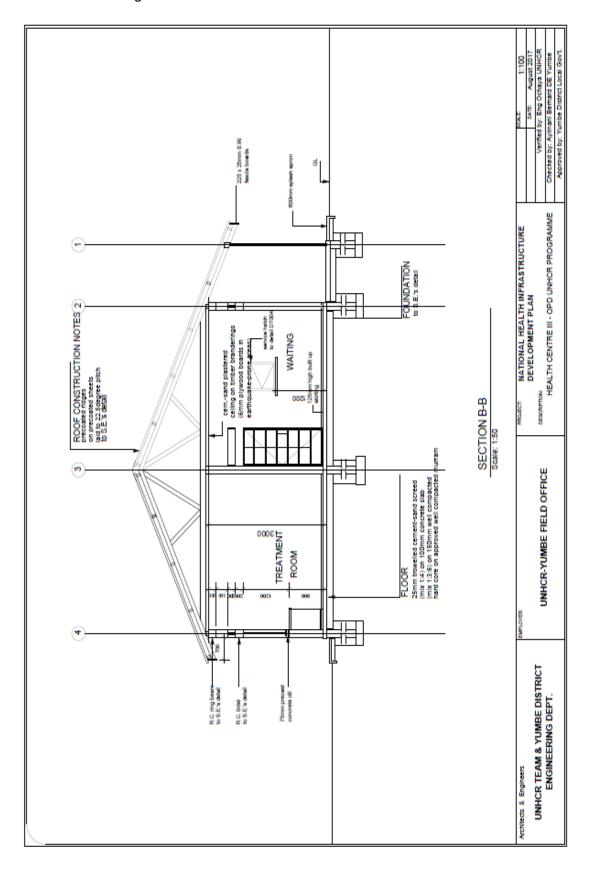
	Adaptable box to contain UEDCL meter	no		
10.03	and cutouts.		1	
	Main Earth at adaptable box by 25mm ²	item		
10.04	PVC copper cables to copper electrode in	псш	1	
10.04			1	
	manhole complete with all accessories.			
	Provisional Sum for UEDCL Power	item		
10.05	Connections		1	
	Lighting			
	Lighting			
	Lighting points wired by 1.5mm ² twin	no		
10.06	with earth PVC-I copper cables in		17	
	existing 20mm pvc conduits.			
	1 x 36W 1200mm single bare batten	no		
10.07	fluorescent fitting complete with daylight		13	
10.07	tube switch start and all accessories as		13	
	Thorn or equal approved.(F1)			
	4 4000 00 00 00 00			
	1 x 18W 600mm single waterproof,	no	_	
10.08	surface mounted fluorescent light fitting		4	
	with GRP body and acrylic diffuser, as			
	Thorn or equal approved (F3).			
	6A 1 gang 1 way moulded switch as MK	no		
10.09	or approved equal.		16	
	*			
	Sockets			
	Socket outlet point wired by 2.5mm ² twin	no		
10.10		no	12	
10.10	with earth PVC-I copper cables in 20mm		12	
	pvc conduits complete with all			
	accessories.			
	13A 2gang switched socket outlet as MK,	no		
10.11	in MK boxes complete with all		12	
	accessories.			
	Total Carried to Collection			
	Solar Power.			
	Solar Power Supply and Lighting			

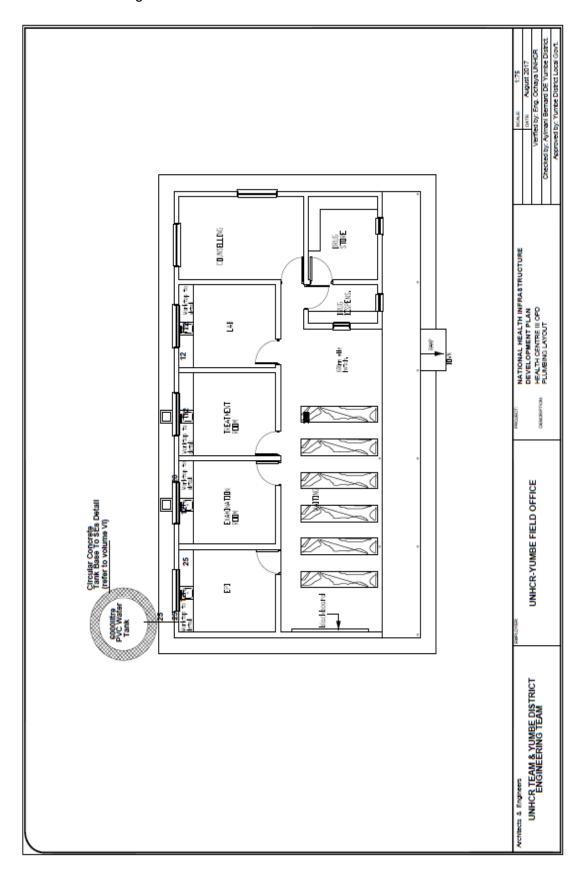
Solar Panel, with Peak power of 75W, Max.Current of 4.5A, Max. Voltage of 17V DC, Short circuit current of 4.8A, Open circuit voltage of 21.4V DC, as SIEMENS SP75, BP SOLAR BP 275 or equal approved. Galvanised steel supporting structure mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all accessories. 4Way SPN MCB Consumer Unit as MEM or equal approved. Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved. Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steea GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar power Consumer Unit CU2.					
10.13 mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all accessories. 10.14 Way SPN MCB Consumer Unit as MEM or equal approved. 10.15 Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved. 10.16 Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. 10.17 Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. 10.18 Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. 10.20 Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	10.12	Max.Current of 4.5A, Max. Voltage of 17V DC, Short circuit current of 4.8A, Open circuit voltage of 21.4V DC, as SIEMENS SP75, BP SOLAR BP 275 or	no	4	
10.13 mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all accessories. 10.14 Way SPN MCB Consumer Unit as MEM or equal approved. 10.15 Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved. 10.16 Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. 10.17 Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. 10.18 Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. 10.20 Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to		Calvanised steel supporting structure	no	1	
10.14 MEM or equal approved. Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved. Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. Earth installation by 25mm² PVC 10.19 Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	10.13	mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all		-	
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Charge Regulator with System voltage 10.15 Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved. Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	10.14	1	no	1	
10.15 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved. Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	10.14	MEM or equal approved.		1	
Inverter of Max. DC Power of 1960W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	10.15	12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen	no	1	
10.16 Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved. 10.17 Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved. Battery cable with fuse and interconnecting cables to Consumer unit. 10.18 Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to		(Germany) or equal approved.			
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10.18 interconnecting cables to Consumer unit. Earth installation by 25mm² PVC copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to			item		
10.19 copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	10.18	, and the second	<u> </u>	1	
10.19 copper cables to copper electrode in manhole complete with all accessories. Supply Cable 16mm² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to					
10.20 PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	10.19	copper cables to copper electrode in	item	1	
10.20 PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to					
Solai power Consumer Cint CO2.	10.20	PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to	m	15	
		Solar power Consumer Cilit CU2.	1		

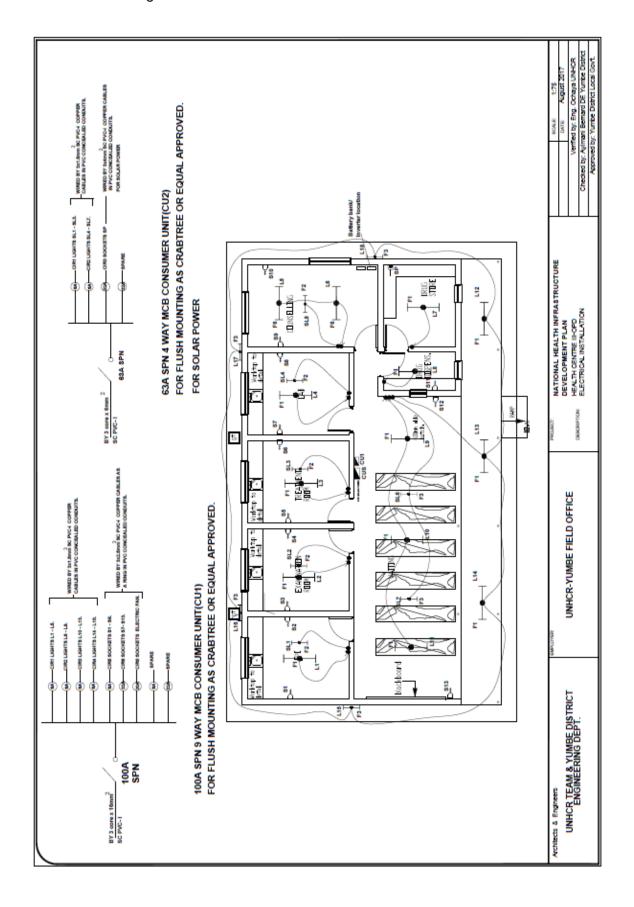
	_		1	ı	
10.21	Lighting points wired by 2.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all accessories.	no	7		
10.22	1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved(F2).	no	7		
10.23	1 gang 1 way 6A moulded switch as MK or approved equal.	no	7		
	Total Carried to Collection				
	Sockets.				
10.24	Socket outlet point wired by 2.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits to supply the solar powered fridge	no	1		
10.25	13A 2gang flush socket outlet as MK, in MK boxes complete with all accessories.	no	1		
	Lightning Protection.				
10.26	Copper tape of Hard Drawn High conductivity copper plate 3mm x 25mm cross section for Down Conductors,bonded to the iron sheet roof complete with fixing clips and all accessories as by FURSE or equal.	m	12		
10.27	Air terminals complete with Tape Adapter and all accessories as by FURSE or equal.	no	2		
	mad Distance 14 1 Pripar	1			
10.20	Test Blocks complete as by FURSE or	no			
10.28	equal.		2		
10.29	Earth electrodes made from Hard drawn copper or copper weld 20mm diameter by 1200mm in two length screwed together complete with cap, earth clamp, manhole and all accessories.	no	2		
	Fire Fighting.				

10.30	9kg powder type wall mounted fire extinguisher as ANGUS or equal approved.	no	1	
	Total Carried to Collection			
	COLLECTION			
	Page 2/23 (omit where solar power is used)			
	Page 2/24			
	Page 2/25			
	TOTAL ELECTRICAL INSTALLATION TO SUMMARY.			









	GENERAL SUMMARY PAGE	1	1		
	GENERAL SOMMANT TAGE	-	_	-	-
Item	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
	SUMMARY OF BILL				
	BILL NO. 1 : STAFF HOUSE				
	ELEMENT NO. 1: PRELIMINARIES				
	ELEMENT NO. 1: SUBSTRUCTURE				
	ELEMENT NO. 2: BUILDING FRAME				
	ELEMENT NO. 3: WALLS				
=	ELEMENT NO. 4: ROOF STRUCTURE				
	ELEMENT NO. 5: WINDOWS				
	ELEMENT NO. 6: DOORS				
	ELEMENT NO. 7: FLOOR FINISHES				
	ELEMENT NO. 8: WALL FINISHES				
	ELEMENT NO. 9: ROOF FINISHES				
	ELEMENT NO. 10 : ROOF WATER DRAINAGE				
	ELEMENT NO. 11 : LIGHTNING PROTECTION				
	ELEMENT NO. 12 : POWER AND LIGHTING				

			1		1
	TOTAL BILL NO. 1 : HEALTHCENTRE STA	AFF HO	USE		
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Itom	Description	Offic	Qty	itate (ogons)	Amount (ogons)
Item					
	ELEMENT No. 1				
	LELINEIT INO. I				
	PRELIMINARIES AND GENERAL ITEMS				
		1			
	Conorol				i l
	General				
Α	General The contractor must allow for costs in				
Α	The contractor must allow for costs in				
A	The contractor must allow for costs in his tender in respect of these				
A	The contractor must allow for costs in his tender in respect of these preliminary and general items by pricing				
A	The contractor must allow for costs in his tender in respect of these				
A	The contractor must allow for costs in his tender in respect of these preliminary and general items by pricing				
A	The contractor must allow for costs in his tender in respect of these preliminary and general items by pricing these items				
A	The contractor must allow for costs in his tender in respect of these preliminary and general items by pricing these items If the contractor leaves any items				
A	The contractor must allow for costs in his tender in respect of these preliminary and general items by pricing these items If the contractor leaves any items unpriced, he shall be deemed to have				
A	The contractor must allow for costs in his tender in respect of these preliminary and general items by pricing these items If the contractor leaves any items unpriced, he shall be deemed to have considered that the rates in the				
A	The contractor must allow for costs in his tender in respect of these preliminary and general items by pricing these items If the contractor leaves any items unpriced, he shall be deemed to have considered that the rates in the remaining items in the bills of quantities				
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A	The contractor must allow for costs in his tender in respect of these preliminary and general items by pricing these items If the contractor leaves any items unpriced, he shall be deemed to have considered that the rates in the				

	<u> </u>				
	Foncing				
В	Fencing Immediately upon taking possession of the site, the contractor will be required	ITEM	1		
	to erect fencing and gates for the security of his materials, plant and				
	stores				
	Storage				
С	The contractor must provide for the storage of the materials, plant and tools. For materials that are affected by weather, the storage sheds to be provided must be covered to keep out the rain and must be lockable	ITEM	1		
	Program of works				
D	A program of works MUST be provided by the contractor				
	Building Regulations				
E	The whole of the works shall be				
	executed according to current building regulations and to the satisfaction of				
	local authorities				
	Definitions and abbreviations				
F	The following definitions and				
	abbreviations to denote the unit of				
	measurement, are used throughout these bills of quantities				
	The term "Engineer" shall mean the				
	employer's representative (or the				
	professional to whom the employer's representative has assigned the duty)				
	Total Carried to Collections 1/1				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item	•			() /	,
	CM to denote cubic meters				
	SM to denote square meters				
	LM to denote linear meters				
	No. to denote enumerated item				
	KG to denote kilogrammes				

IRC West Nile Program

	0				
	SMM to denote the Standard				
	Method of Measurement of Building				
	Works for East Africa, Metric 1970				
	edition				
	mm to denote millimeters				
	BS to denote the current				
	British Standards three months before				
	the date of invitation of this bid				
	<u>Foreman</u>				
Α	The contractor shall allow for a qualified	ITEM			
	and experienced foreman FULL-TIME on				
	site. The employer's representative shall				
	approve the foreman				
	_				
	Transport				
В	The contractor shall include in his				
	prices the transportation of materials,				
	workmen, plant and tools, to and from				
	site				
	Comples				
	Samples				
С	The contractor shall furnish, before				
	commencement of works any samples				
	or workmanship at his own cost for				
	approval by the Engineer				
	Sanitation				
D	The contractor shall provide onsite, the	ITEM	1		
	necessary latrines for his staff and	I I LIVI	•		
	workmen to the requirements and				
	satisfaction of the health authorities				
	Security				
E	The contractor shall adequately	ITEM	1		
	safeguard the site, works, materials and		-		
	plant from theft and damage by vandals				
	Plant, tools and scaffolding				
F	The contractor shall allow for	ITEM	1		
	mobilization and demobilization of plant,				
	equipment, temporary works, personnel,				
	etc				
	Total Carried to Collections 1/2				
<u> </u>	I .	1	1	1	i .

	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item		0	٦.,	rtato (Ogono)	/ mount (ogono)
	Water				
G	The contractor shall provide for all the	ITEM	1		
	necessary water to execute the works at				
	his own cost				
	Site Meetings				
Н	Site meetings shall be conducted every				
	fortnight (14 days) chaired by the				
	employer's representative. The				
	contractor MUST attend all these site				
	meetings				
	Work at or after completion	-			
I	The contractor shall allow for making				
•	good all damages				
	good an damages				
	Sign Boards				
J	One sign board to be erected on a	ITEM	1		
	chosen site to the employer's approval.				
	This board shall state the project, the				
	funder, the employer (implementer),				
	name of the supervisor and the				
	contractor				
	Total Carried to Collections 1/3				
	COLLECTIONS				
	COLLECTIONS				
	Total Carried to Collections 1/1				
	Total Carried to Collections 1/1	-			
	Total Carried to Collections 1/2	-			
	Total Carried to Collections 1/2	-			
	Total Carried to Collections 1/3				
	Total Carried to Collections 1/3	-			
	TOTAL PRELIMINARIES & GENERAL			1	
	ITEMS				

Item	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
110111	ELEMENT NO 1: SUBSTRUCTURE				
	Site Preparation				
Α	Excavate top vegetable soil average	m²	280		
	150mm deep and cart to spoil				
					-
В	Anti-termite treatment to : sides and	m²	330		
	bottoms of foundations				
С	Ditto: stripped surfaces of ground	m ²	280		-
<u> </u>	Ditto : stripped surfaces of ground	111	200		
D	Ditto : blinded surfaces of hardcore	m ²	145		-
	Ditto : billided surfaces of flat dcore		143		_
	Excavations and Earthworks				
	EXOCUTATIONS AND EARTHWORKS				-
Е	Excavate foundation trenches: not				-
	exceeding 1.5m deep :				
	commencing from stripped level	m³	80		
					-
F	Excavate column bases : not exceeding 1.5m deep :				-
	commencing from stripped level	m³			-
					-
G	Extra over excavations : breaking up rock met with in excavations	m ³	5		
					-
	Disposal of excavated materials				-
					-
Н	Return, fill and ram: selected excavated				-
	materials around	3	40		
	foundations: in 200mm layers compacted to 95% MDD.	m ³	40		
	Compacted to 30 /0 MDD.				_
ı	Surplus excavated material: Load up,				_
-	cart, deposit, spread and				
	level on site where directed.	m³	40		
					-
	<u>Fillings</u>				-
					-
J	125mm Murram filling : well watered and compacted to 95%				-
	MDD 95% : to make up levels under floor bed	m²	127		
		1	1		_

K	150mm Hardcore bed : in broken stone				-
	blinded with and including 20mm layer of approved blinding; under floor bed	m²	127		
_		2			-
L	Ditto : under splash aprons	m ²	30		
	Mass in-situ concrete class15/20mm aggregate, [mix 1:3:6] : in				-
					_
M	Foundation in trenches	m ³	23		_
	Mass in-situ concrete class 15/20mm aggregate, [mix 1:3:6] : in				-
					-
N	Ramp : size 5690 x 900 x 250mm thick (average)	m³	1		
0	100mm Floor bed	m²	171		-
Р	75mm Splash apron bed	m ²	45		-
Q	75 x 125mm Concrete down stand	m	75		-
					-
					-
					-
					-
					-
					-
					-
					-
	Total Carried to Collection			Shs	
Item	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
	Mild steel reinforcement to BS 4483				
A	Steel fabric mesh reinforcement ref no. A98 weighing				
	1.58kg/m ² : in floor bed: including tying wire and distance blocks	m²	171		
	Plain in-situ concrete class 10/38mm				-

	aggregate[mix 1:4:8] : in				
	aggregate[mix 1.4.0] : m				_
_	FOrem Division at a hottoma of	2			-
В	50mm Blinding : to bottoms of	m ²			-
	excavations				
					-
	Reinforced in-situ concrete class				-
	25/20mm aggregate				
	[mix 1:2:4]: in				-
					_
С	Column bases	m ³			_
•	Column bases	1111			-
					-
D	Stud columns	m ³			-
					_
Е	Ground beams	m ³			_
-	Ground Deanis	111			-
					-
	High yield tensile steel bar				-
	reinforcement to BS 4461 as				
	described including cutting and 16mm				-
	SWG (1.6mm),				
	bending and fixing, tying wire and				_
	spacer blocks				_
	Spacer blocks			<u> </u>	
					-
F	12mm Diameter bars	kg			-
					-
	Mild steel bar reinforcement to BS 4461				-
					-
G	8mm Diameter bars	kg			-
	Jameter Bare	9			_
	Course formationals at the				-
	Sawn formwork : to				-
					•
Н	Vertical sides: foundation bases	m ²			-
					-
ı	Ditto : columns	m²			_
•	Ditto: columns	'''		<u> </u>	
					-
J	Edges of bed: 75 - 150mm width	m	74		
					-
K	Soffites of projecting edge of floor bed:	m	74		
	not exceeding 75mm girth				
					_
•	Vertical aides of ramp : average 250mm		20		_
L	Vertical sides of ramp : average 250mm	m	20		
	wide cut to profile of ramp				
					-
M	20 SWG Hoop iron wall tie 25mm wide x				-
	450mm long cast				
	75mm into concrete and built into joint	sum	1		
	of block walling		-		
	or Mook Walling				

	T	1			
					-
	Foundation Walls				=
					-
	Hard burnt clay bricks to BS 3921				-
	(3.5N/mm² compressive				
	strength) bedded and jointed in cement				_
	and sand (1:3)				
	mortar.				-
		_			-
N	230mm Wall	m²	112		
					-
					_
					_
	Dames and a second and a				_
	<u>Damp proof membrane</u>				-
					-
Р	1000 Gauge polythene sheet damp proof				-
	membrane : in one layer				
	with 300mm end laps: laid on blinded	m ²	171		
	hardcore (m/s)				
	na acció (ma)				
	Total Carried to Collection			Shs	
		Unit	041/		Amount (HaCha)
14	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item					
	Horizontal Damp proof course : hessian				
	based bitumen felt :				
	lapped 150mm on ends laid on cement				
	and sand (1:3) mortar				
	bed				
	<u>NGU</u>				
	000 14/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		445		
Α	230mm Wide : laid under walls	m	112		
	150mm Wide : laid under walls	m	20		
					_
	Plinth finishes				_
	i iiiiii iiiiiiiiiiiiiiiiiiiiiiiiiiiii				_
	45 0		66		-
В	15mm Cement and sand (1:3) render :	m ²	60		
	steel trowelled smooth				
С	Prepare and apply three coats				-
	bituminous or other approved				
		1	1	I	1

	water resistant paint to : rendered plinth walls	m ²	60		
					-
	Maintenance for excavations				-
					-
D	Allow for upholding and maintaining sides of excavations	sum	1		
					=
E	Allow for keeping excavations free from surface water	sum	1		
	Quality Control				
		sum			
F	Tests (GCC Clause 32)				
-	10000 (000 0.00.00 02)				
G	Project sign post (bill board) with clear writing of subproject name	sum			
	Environmental Mitigation				
Н	Planting 50 (Fifty) tree seedlings of selected species around the construction site as directed by the Supervising Engineer including the placing of manure and watering until the 6 months formal acceptance of the structure	nr.			-
					-
I	Planting of grass of selected species to cover 300 square metre area around the constructed as directed by the Supervising Engineer including the placing of manure and watering until the 6 months formal acceptance of the structure	m²			-
	END OF SUBSTRUCTURE				
	LIND OF GODGINGOTONE				
				+	
		1	l	ı	1

	Total Carried to Collection			Shs	
		1124	01		A
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item					
	COLLECTION				
	OCELEGION				
	Page No. 6/33				
	Dega No. 7/22				
	Page No. 7/33				
	Page No. 8/33				
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		<u></u>			<u> </u>
		,			
	TOTAL ELEMENT NO.1				
	SUBSTRUCTURES CARRIED TO BILL				
	SUMMARY				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Itam			a.y	rate (ogons)	, another (ogons)
Item					
	ELEMENT NO 2 : BUILDING FRAME				
	Reinforced in-situ concrete class				
	OF/20 mm a mma mate				
ļ	25/20mm aggregate,				
1	[mix 1:2:4]: in				
Α	Ring beam	m ³	8		
_ ^	Iving Deam	1111	0		

B Columns m³ High yield tensile steel bar reinforcement to BS 4461 as described including cutting to lengths,	- - -
High yield tensile steel bar reinforcement to BS 4461 as	-
reinforcement to BS 4461 as	-
reinforcement to BS 4461 as	
reinforcement to BS 4461 as	-
TO THE TOTAL PROPERTY OF THE P	-
bending, hoisting	
and fixing including all necessary tying	-
wire and spacing	
blocks.	_
	_
C 12mm Diameter bars kg 502	
C 12mm Diameter bars kg 502	
Million and a second of the se	-
Mild steel bar reinforcement to BS 4461	-
	-
D 8mm Diameter bars kg 235	
	=
Sawn formwork: to	-
	-
E Sides and soffites : beams m ² 88	
	_
F Vertical sides : columns m ² -	
1 Vertical sides : Coldiniis III -	
D	-
Precast concrete : class 25/(12mm	-
aggregate) [mix 1:2:4]	
units : reinforced with 250mm wide weld	-
mesh strip : finished	
fair on exposed surfaces: bedded and	-
jointed in cement and	
sand (1:4) mortar	-
	-
G 325 x 75mm Cill : sunk, weathered and m 16	
throated	
	-
<u>Sundries</u>	-
	-
H 20 SWG Hoop iron wall tie 25mm wide x	=
450mm long cast	
75mm into concrete and built into joint sum 1	
of block walling	
o. widon manning	

TOTAL ELEMENT NO.2 (BUILDING FRAME) CARRIED TO BILL SUMMARY Description Litem ELEMENT NO 3 : WALLS Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. A 230mm Wall B 150mm Wall C Allow for labour and materials for eaves filling in 230mm walls: average 225mm high 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement and sand (1:3)			1	1		
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CARRIED TO BILL SUMMARY Description Unit Qty Rate (UgShs) Amount (UgShs)		TOTAL ELEMENT NO.2 (BUILDING				
CARRIED TO BILL SUMMARY Description Unit Qty Rate (UgShs) Amount (UgShs)		FRAME)				
Description						
ELEMENT NO 3 : WALLS			I I to i i	01	Data (HaOba)	A (
ELEMENT NO 3 : WALLS Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. A 230mm Wall M² 322		Description	Unit	Qty	Rate (UgSns)	Amount (UgSns)
Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. A 230mm Wall m² 322 B 150mm Wall m² 53 C Allow for labour and materials for eaves filling in 230mm walls: average 225mm high m 93	Item					
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Strength) bedded and jointed in cement and sand (1:3)		ELEMENT NO 2 · WALLS				
Strength) bedded and jointed in cement and sand (1:3)		ELEMENT NO 3 : WALLS				
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and sand (1:3) mortar. A 230mm Wall B 150mm Wall C Allow for labour and materials for eaves filling in 230mm walls: average 225mm high T 93 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement		Hard burnt clay bricks to BS 3921				
Mortar. A 230mm Wall m² 322 B 150mm Wall m² 53 C Allow for labour and materials for eaves filling in 230mm walls: average 225mm high m 93		Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive				
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B 150mm Wall m² 53 C Allow for labour and materials for eaves filling in 230mm walls: average 225mm high m 93 - 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² - compressive strength) bedded, jointed and pointed in cement		Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3)				
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B 150mm Wall m² 53 C Allow for labour and materials for eaves filling in 230mm walls: average 225mm high m 93 - 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² - compressive strength) bedded, jointed and pointed in cement		Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3)				
B 150mm Wall m² 53 C Allow for labour and materials for eaves filling in 230mm walls: average 225mm high m 93	Δ	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar.	m ²	322		
C Allow for labour and materials for eaves filling in 230mm walls: average 225mm high m 93	A	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar.	m ²	322		
filling in 230mm walls: average 225mm high m 93 - 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement		Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall				-
filling in 230mm walls: average 225mm high m 93 - 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement		Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall				-
filling in 230mm walls: average 225mm high m 93 - 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement		Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall				-
average 225mm high m 93	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall				-
150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall Allow for labour and materials for eaves				-
150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls:		53		-
150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls:	m²	53		-
BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls:	m²	53		-
compressive strength) bedded, jointed and pointed in cement -	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls: average 225mm high	m²	53		-
and pointed in cement	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls: average 225mm high	m²	53		-
and pointed in cement	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls: average 225mm high 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm²	m²	53		-
	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls: average 225mm high 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm²	m²	53		-
- and sand (1.0) mortal m	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls: average 225mm high 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed	m²	53		-
-	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls: average 225mm high 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement	m²	53		-
	В	Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in cement and sand (1:3) mortar. 230mm Wall 150mm Wall Allow for labour and materials for eaves filling in 230mm walls: average 225mm high 150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement	m²	53		-

		1		
D	Vent : size 230 x 450mm	nr	6	
				-
	150mm Hard burnt clay yout bricks to			_
	150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm ²			_
	D3 3921 (3.3N/IIIII-			
	compressive strength) bedded, jointed			-
	and pointed in cement			
	and sand (1:3) mortar in			-
				_
	Allow for the Construction of a fire place			
E	Allow for the Construction of a fire place			-
	to Architects detail			
	including flue pipes, chimney stacks	sum		-
				-
F	Allow for the Construction of Wardrobes			_
•				
	to Architects Detail including			
	shelves, shutters and locking devices	sum		-

			1		
	TOTAL ELEMENT NO.3 (WALLS)				
	CARRIED TO BILL SUMMARY				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item				, , ,	, ,
	ELEMENT NO 4 : ROOF				
	Structural timbers:				
	Otractara timbers.				
	Sawn cypress or other approved:				
	pressure impregnated				
	with Tanalith or other approved				
	with ranalith or other approved				
	The following in 44No. Truck : C4CO				
	The following in 14No. Truss: 6460mm				
	clear span x 1670mm				
	rise : nailed together, hoisted and fixed				
	3.0m above ground				
_	450 - 50		404		
Α	150 x 50mm Rafter	m	124		
					-
В	100 x 50mm Struts/Ties	m	138		
					-
С	150 x 50mm Tie beam	m	100		
					-
	[End of 14no. Truss]				-
					-
D	75 x 50mm Purlins	m	320		
					-
Е	100 x 50mm Under Purlins	m			-
					_
F	100 x 75mm Wall plate	m	75		
-	100 X 10mm trail plate		'		
L	1		1	1	1

TOTAL ELEMENT NO 4 (DOOF
TOTAL ELEMENT NO.4 (ROOF
STRUCTURE)
CARRIED TO BILL SUMMARY
CARRIED TO BILL SUMMARY
Description Unit Qty Rate (UgShs) Amount (UgShs)
Item
ELEMENT NO 5 : WINDOWS
Purpose made steel casement to BS 990
: frames and glazing
primed with one coat red oxide primer
before fiving .
before fixing :
complete with fixing lugs built into walls
A Window size W1 1500 x 1500mm high
A Window size W1 1500 x 1500mm high
overall : comprising 300mm
overall : comprising 300mm
overall : comprising 300mm high steel louvred vent for full width :
overall : comprising 300mm high steel louvred vent for full width : 2No side hung opening sash
overall : comprising 300mm high steel louvred vent for full width : 2No side hung opening sash
overall : comprising 300mm high steel louvred vent for full width :

		1		1	
В	Ditto but Window W2 size: 600 x 1000mm high overall: comprising 300mm high steel louvred vent for full width: 1No. top-hung opening middle sash and 1No. Fixed bottom sash size 350mm x 600mm: all divided in panes 0.1 - 0.5mm2	nr	8		-
С	Ditto but Window size W7pv: 900 x 900mm high overall: comprising 300mm high steel louvred vent for full width: 2No side hung opening and 1No. fixed sash size 300mm x 600mm: all divided in panes 0.1 - 0.5mm2	nr			-
D	Ditto but window W9pv size 600 x 600mm high	nr			-
	Iron mongery and matching fixings				-
Е	Fastener	nr	24		
F	Stay	nr	24		
	Ordinary quality (OQ) clear sheet glass and glazing				-
G	4mm Glass : Glazing to metal casement panes 0.1 - 0.5mm ² with				-
	tropical glazing putty	m ²	20		
	<u>Painting</u>				-
	Prepare touch up primer and apply one coat undercoat and				-
	two finishing coats of gloss oil paint : on metal				-
Н	Glazed casement windows (measured flat both faces)	m²	46		-
	Prepare touch up primer and apply one coat undercoat and				-
	two finishing coats of gloss oil paint : on concrete				-
					-

	Window Cills + 225 x 75mm average	m	16	<u> </u>	
•	Window Cills: 325 x 75mm average	m	10		
	Company and cond (4.4)				-
	Cement and sand (1:4)				-
	45 81 4 4 900				-
J	15mm Plaster to reveals : average 200 -				-
	300mm wide: steel				
	trowelled smooth	m	57		
					-
	Prepare and apply three coats weather				-
	guard emulsion				
	paint : to				-
					-
K	Plastered surfaces of reveals 200 -	m	28		
	300mm wide : external				
					-
	Prepare surfaces: apply three coats				-
	vinyl silk soft white				
	emulsion paint: on steel trowelled				-
	plaster: to				
					-
L	Plastered surfaces of reveals 200 -	m	28		
	300mm wide : internal				
					-
	Curtain Boxes				-
					-
M	Pelmet box comprising 150 x 25mm	m	22		
	Fascia, 125 x 25mm top 150 x 125 x				
	25mm stopped ends jointed together,				
	complete with and including I-section				
	aluminium curtain rail with rollers				
	TOTAL ELEMENT NO.5 (WINDOWS)				
	CARRIED TO BILL SUMMARY				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item	·			, ,	, ,
	ELEMENT NO 6 : DOORS				
	Purpose made steel door : Door frame				
	profiles sections framing and clad				
	faced/fabricated with 1.5mm steel plates				
	: complete with hinges, frame and fixing				
	lugs built into wall.				
	iago pant into wan.				
		1			

A	Door type D1: 45mm casement-type door and frame: size 1000 x 2400mm high overall: comprising 300mm high steel louvred vent for full width: double door shutter size 500 x 2100mm high	nr	4	_
	Door type D2: 45mm Metallic solid door and frame: size 900 x 2400mm high overall: comprising 300mm high steel louvred vent for full width: door shutter size 900 x 2100mm high	nr	4	
	150 x 45 Frames in selected hardwood kept clean for stained finishes			-
	<u>imionoe</u>			
В	Frame size 900 x 2400mm high with 50 x 15 door stop and transom	nr	16	-
	Flush door: 45mm thick solid core, faced with MR quality			-
	plywood for painting, hardwood lippings to edges			-
С	Door type D3: 850 x 2050mm	nr	12	-
	Knot prime stop and apply one coat undercoat and two			-
	finishing coats gloss oil paint on wood			-
				-
D	Wooden surfaces	m ²	61	_
E	Prepare touch up primer and apply one undercoat and two			-
	finishing coats of gloss oil paint: glazed metal doors	m²	37	
	Supply and fix: English "Union" or other equal			-
	approved ironmongery: matching screws: locks to include			-
	a set of 3 keys. (Prices of locks to be inclusive of handles)			-
F	38mm Diameter rubber door stops appropriately screwed to walls of floors	nr	24	-
				-

G	Steel casement locks	nr	8		
					-
Н	Mortice locks	nr	16		
					-
					-
	Cement and sand (1:4)				-
					-
	15mm Plaster to reveals : average 200 -				-
	300mm wide: steel		400		
	trowelled smooth	m	138		
	Duanage and apply these sects weather				-
	Prepare and apply three coats weather				-
	guard emulsion paint : to				
	paint : to				_
J	Plastered surfaces of reveals 200 -	m	69		-
"	300mm wide : external	'''	03		
	Committee Contornal				-
	Prepare surfaces: apply three coats				-
	vinyl silk soft white				
	emulsion paint: on steel trowelled				-
	plaster: to				
					-
K	Plastered surfaces of reveals 200 -	m	69		
	300mm wide : internal				
	Barrage and Laurella (Laurella (Laur				-
	Prepare and apply three coats of				-
	polyurethane lacquer: on woodwork				
M	General surfaces of pelmet boxes	m ²	7		-
IVI	General Surfaces of permet boxes	111	,		
	TOTAL ELEMENT NO.6 (DOORS)				
	CARRIED TO BILL SUMMARY				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item	2001.[2.10.1			(090110)	,ouiit (ogoilo)
	ELEMENT NO 7 : FLOOR FINISHES				
	Cement and sand (1:4)				
Α	30mm thick paving	m²	141		
	1	1	1	1	1

IRC West Nile Program

coved junction at bottom					
Prepare surfaces: apply three coats					
emulsion paint: on steel trowelled plaster: to					
General surfaces : 75 - 150mm width in skirting	m				
Polished ceramic coloured tiles; bedding and jointing in cement /adhesive mortar (1:4); grouting joints with matching coloured cement; 500 x 500 x 10 mm thick;					
To floors and verandas generally;	m ²	141			
Ditto but non-slip type for bathrooms	m ²	8			
To skirtings; 100 mm high and 10mm thick	m	196			
Ceiling Finishes					
Sawn cypress or other equal approved including necessary suspension system: well seasoned cellcured: selected and kept clean					
100 x 50 ceiling battens at perimeter, plugged	m	246			
Ceiling brandering 100 x 50 mm members one way set into timber truss and tie members and 100 x 50 members at 600 centres other way	m	389			-
Supply and fix 600 x 600 mm access panel with sides cut bavelled to	nr	4			<u>-</u>
45 degrees and fixed on and including painting to all exposed surfaces					-
9 x 24 SWG galvanized expanded metal lathing U-nailed to timber branderings	m ²	144			-
	vinyl silk soft white emulsion paint: on steel trowelled plaster: to General surfaces: 75 - 150mm width in skirting Polished ceramic coloured tiles; bedding and jointing in cement /adhesive mortar (1:4); grouting joints with matching coloured cement; 500 x 500 x 10 mm thick; To floors and verandas generally; Ditto but non-slip type for bathrooms To skirtings; 100 mm high and 10mm thick Ceiling Finishes Sawn cypress or other equal approved including necessary suspension system: well seasoned cellcured: selected and kept clean 100 x 50 ceiling battens at perimeter, plugged Ceiling brandering 100 x 50 mm members one way set into timber truss and tie members and 100 x 50 members at 600 centres other way Supply and fix 600 x 600 mm access panel with sides cut bavelled to 45 degrees and fixed on and including painting to all exposed surfaces 9 x 24 SWG galvanized expanded metal	vinyl silk soft white emulsion paint: on steel trowelled plaster: to General surfaces: 75 - 150mm width in skirting Polished ceramic coloured tiles; bedding and jointing in cement /adhesive mortar (1:4); grouting joints with matching coloured cement; 500 x 500 x 10 mm thick; To floors and verandas generally; m² Ditto but non-slip type for bathrooms Ceiling Finishes Sawn cypress or other equal approved including necessary suspension system: well seasoned cellcured: selected and kept clean 100 x 50 ceiling battens at perimeter, plugged Ceiling brandering 100 x 50 mm members one way set into timber truss and tie members and 100 x 50 members at 600 centres other way Supply and fix 600 x 600 mm access panel with sides cut bavelled to 45 degrees and fixed on and including painting to all exposed surfaces 9 x 24 SWG galvanized expanded metal m²	vinyl silk soft white emulsion paint: on steel trowelled plaster: to General surfaces: 75 - 150mm width in skirting Polished ceramic coloured tiles; bedding and jointing in cement /adhesive mortar (1:4); grouting joints with matching coloured cement; 500 x 500 x 10 mm thick; To floors and verandas generally; To skirtings; 100 mm high and 10mm thick Ceiling Finishes Sawn cypress or other equal approved including necessary suspension system: well seasoned cellcured: selected and kept clean 100 x 50 ceiling battens at perimeter, plugged Ceiling brandering 100 x 50 mm members one way set into timber truss and tie members and 100 x 50 members at 600 centres other way Supply and fix 600 x 600 mm access panel with sides cut bavelled to 45 degrees and fixed on and including painting to all exposed surfaces 9 x 24 SWG galvanized expanded metal m² 144	vinyl silk soft white emulsion paint: on steel trowelled plaster: to General surfaces: 75 - 150mm width in skirting Polished ceramic coloured tiles; bedding and jointing in cement /adhesive mortar (1:4); grouting joints with matching coloured cement; 500 x 500 x 10 mm thick; To floors and verandas generally; To skirtings; 100 mm high and 10mm thick Ceiling Finishes Sawn cypress or other equal approved including necessary suspension system: well seasoned cellcured: selected and kept clean 100 x 50 ceiling battens at perimeter, plugged Ceiling brandering 100 x 50 mm members one way set into timber truss and tie members and 100 x 50 members at 600 centres other way Supply and fix 600 x 600 mm access panel with sides cut bavelled to 45 degrees and fixed on and including painting to all exposed surfaces 9 x 24 SWG galvanized expanded metal m m m m m m m m m m m m m	vinyl silk soft white emulsion paint: on steel trowelled plaster: to General surfaces: 75 - 150mm width in skirting Polished ceramic coloured tiles; bedding and jointing in cement /adhesive mortar (1:4): grouting joints with matching coloured cement; 500 x 500 x 10 mm thick; To floors and verandas generally; To skirtings; 100 mm high and 10mm thick Ceiling Finishes Sawn cypress or other equal approved including necessary suspension system: well seasoned cellcured: selected and kept clean 100 x 50 ceiling battens at perimeter, plugged Ceiling brandering 100 x 50 mm members one way set into timber truss and tie members and 100 x 50 members at 600 centres other way Supply and fix 600 x 600 mm access panel with sides cut bavelled to 45 degrees and fixed on and including painting to all exposed surfaces 9 x 24 SWG galvanized expanded metal m² 144

Н	Cement and sand (1:4) pricking course to metal lathing	m ²	144		
					-
I	12mm cement and sand plaster to ceiling	m²	144		
					-
J	Extra for 150 x 20mm thick cement and sand (1:3) cornice	m	246		
					-
J	Prepare and apply three coats of plastic emulsion paint plastered ceiling	m ²	144		
17	Ditta had a smile s		000	0.500	707.000
K	Ditto but cornice	m	202	3,500	707,000
	_				
	TOTAL ELEMENT NO.7 (FLOOR FINISHES)				
	CARRIED TO BILL SUMMARY				
Item	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
	ELEMENT NO 8 : WALL FINISHES				
	External wall finishes				
	Cement and sand (1:4)				
		2			
A	20mm Render in two coats : wood float finished first coat and final coat tyrolean (rough cast) finish	m ²	154		
					-
В	Ditto 300 x 10mm Rendered skirt but finished smooth with steel trowel	m	80		

					-
	Prepare surfaces: apply three coats				-
	weather guard emulsion paint				
	weather gadra emaision paint				
_		1			
C	Rendered surfaces : walls	m ²	154		
					-
	Prepare and apply three coats				-
	bituminous paint on				
					_
D	Skirt	- m	80		
ע	SKIT	m	80		
					-
	Internal wall finishes				-
					-
	Cement/lime putty/sand (1:2:9):				-
	Comonamio patty/Cana (11210/1				
	45mm Diestente - Melle and Occasió	1			
Е	15mm Plaster to : Walls and Concrete				-
	surfaces : steel				
	trowelled smooth.	m²	544		
					-
	Prepare surfaces: apply three coats				-
	vinyl silk soft white				
	emulsion paint: on steel trowelled		+ +		
					-
	plaster: to				
					-
F	Walls and concrete surfaces internally	m ²	544		
	Polished ceramic coloured tiles;		+ +		
	bedding and jointing in cement				
	/adhesive mortar (1:4); grouting joints				
	with matching coloured cement; 300 x				
	150 x 6 mm thick;				
G	To walls of Stores up to 2.1m high	m ²	15		
		1			
	Danile and C	 	4		
Н	Provide and fix marble plaque size	No.	1		
	600mm x 600mm engraved with writings				
	(wordings shall be issued to the				
	contractor by the project manager)				
		1			
		1			
	•			•	

	TOTAL ELEMENT NO.8 (WALL				
	FINISHES)				
	CARRIED TO BILL SUMMARY				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item					
l					
	FLEMENT NO 9 · ROOF FINISHES	1			
	ELEMENT NO 9 : ROOF FINISHES				
	ELEMENT NO 9 : ROOF FINISHES Prime grade joinery timber: wrot pine				
A	Prime grade joinery timber: wrot pine	m	89		
A		m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board	m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red	m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing	m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side	m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with	m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with	m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with	m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with	m	89		
A	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with washers.	m m²	89		
	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with				
В	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with washers. Roof covering	m ²	235		
	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with washers.				
В	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with washers. Roof covering Matching ridge caping	m ²	235		
В	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with washers. Roof covering	m ²	235		
В	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with washers. Roof covering Matching ridge caping Knot prime stop and apply one coat	m ²	235		
В	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with washers. Roof covering Matching ridge caping Knot prime stop and apply one coat undercoat and two	m ²	235		
В	Prime grade joinery timber: wrot pine 225 x 20mm Fascia and barge board 26 Gauge pre-coated brick red corrugated galvanised iron roofing sheets fixed: 1 1/2 corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws with washers. Roof covering Matching ridge caping Knot prime stop and apply one coat	m ²	235		

D	Surfaces 200 - 300mm girth : fascia and barge boards	m	89	
	barge boards			
		1	1	
		1	1	
	TOTAL ELEMENT NO.9 (ROOF FINISHES)			

	CARRIED TO BILL SUMMARY				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item					
	ELEMENT NO 10 : ROOF WATER				
	DRAINAGE				
	Supply and fix : rainwater disposal				
	system				
	uPVC Gutter to BS 4576				
	440				
Α	110mm Streamline gutter complete with gutter unions fascia				
	clips for fixing to fascia	m	53		
		1			
	Extra over gutter for :				
В	110mm Gutter angles	nr			
С	110mm Stop ends	nr	4		
	Tronini Stop ends	111	4		
D	110 x 75mm Gutter outlets	nr	4		
	uPVC Down pipe to BS 4576				
_	Diameter Dia				
E	80mm Diameter rain water down pipe : clipped to walls with				
	approved holder bats	nr	4		
	approved notice hade	 	-		
	Extra over down pipe for :				
F	Bend : 80mm x 90°.	nr	24		
	400mm Ch c				
G	100mm Shoe	nr	4		
	The following in 2No 5,000L rainwater				
	storage tank				
	Tank base	1			
Н	Excavate top vegetable soil average	m ²	18		
П	150mm deep and cart to spoil	1111-	10		
	acop and care to open	1			
I	Anti-termite treatment to : sides and	m²	28		
	bottoms of foundations				
		<u> </u>			

J	Ditto : blinded surfaces of hardcore	m²	12		
	Ditto : billiaca sarraces of flaracere		12		
K	Excavate foundation trenches: not				
'`	exceeding 1.5m deep :				
	commencing from stripped level	m ³	6		
	3				-
L	Return, fill and ram : selected excavated				-
	materials around				
	foundations: in 200mm layers	m³	2		
	compacted to 95% MDD.				
					-
M	Surplus excavated material : Load up,				-
	cart, deposit, spread and				
	level on site where directed.	m ³	4		
					-
N	125mm Murram filling : well watered and				-
	compacted to 95%	2	40		
	MDD 95% : to make up levels under floor bed	m ²	12		
	bed				_
0	150mm Hardcore bed : in broken stone				_
	blinded with and				
	including 20mm layer of approved	m²	12		
	blinding; under floor bed				
					-
Р	Plain concrete class 15/20mm	m³	2		
	aggregate, (mix 1:3:6) in :				
	foundation in trenches				-
					-
Q	Ditto: 100mm Floor bed	m ²	18		
	Total Carried to Collection				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item	Description	Offic	Qty	Rate (Ugons)	Amount (ogons)
Item					
Α	Sawn form work to : edges of bed : 75 -	m	14		
	150mm width				
					-
В	230mm Wall : built to a radius of 1.07m :				-
	in hard burnt clay bricks				
	bedded and jointed in cement and sand	m²	8		
	1	1	1	i.	1

	(1:4) mortar				
					-
С	15mm Cement and sand (1:4) render : steel trowelled smooth	m²	8		
D	5,000 Litre HDPE water tank	nr	2		-
ע	5,000 Little HDPE water tallk	nr			_
E	12mm Diameter Bip tap : complete with a stop valve	nr	2		
F	300mm x 12mm Diameter overflow pipe	nr	2		-
G	1700mm x 12mm Diameter pipe : Wash out complete with stop				-
	valves	nr	2		
				_	
	Total Carried to Collection			Shs	
	COLLECTION				
	GOLLEGIION				
	Page No. 18/33				
	Page No. 19/33				
		1			
		+			
		1			
		1			
		<u></u>			

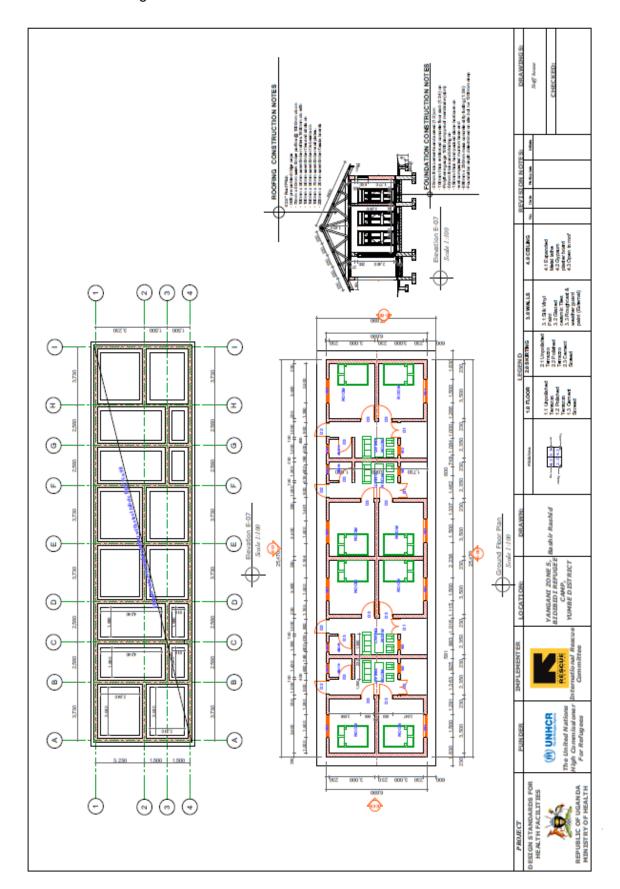
		T	1	1	1
	TOTAL ELEMENT NO 10 (DOGE WATER				
	TOTAL ELEMENT NO.10 (ROOF WATER				
	DRAINAGE)				
	CARRIED TO BILL SUMMARY				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item	Booonphon	0	۵.,	rtato (ogono)	/undum (egone)
ILEIII					
	ELEMENT NO 11 : LIGHTNING				
	PROTECTION				
	T KOTZOTION				
	Supply, install, connect and set to work				
	the following, all				
	as described in the Specifications and				
	<u>Drawings</u>				
	Diawnigs				+
	<u>Earthing</u>				
Α	Inspection chamber : size 300mm x				
^					
	300mm internal dimension :				
	complete with lid.	nr	2		
	Lightning Protection				
	Lightning i Totouton				
В	25mm x 3mm Copper tape.	m	16		
С	25mm x 3mm Aluminium tape.	m	12		
	Zonini A Jinini Aluminium tape.	111	12		
D	1200mm x 20mm Solid Copper bond				
	earth rod: complete with				
		nr	2		
	couplers and driving tips	nr			
Е	Bi-metallic connector.	nr	2		
			<u> </u>		

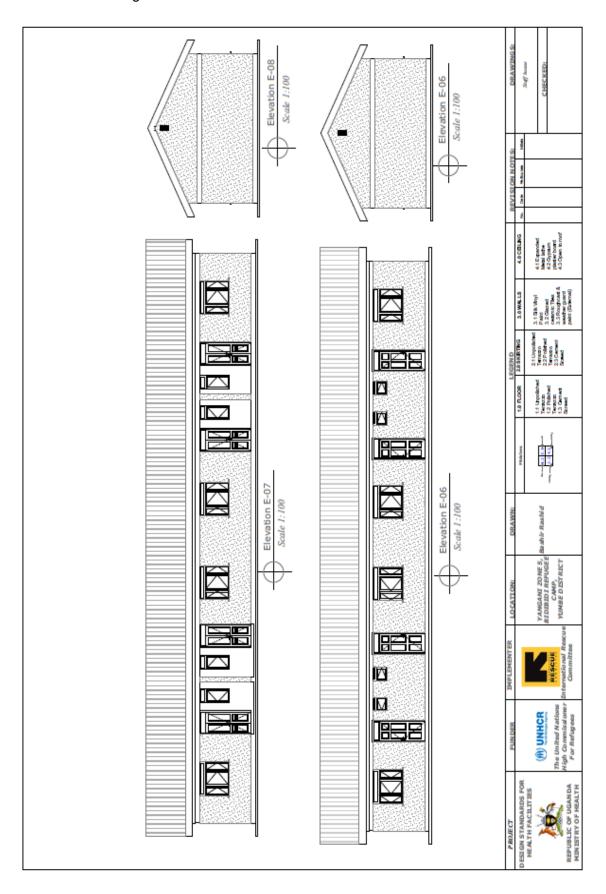
F	Type A rod to clamp.	nr	2		
·	1. J. Po / Cloud to oldings				
G	25mm x 3mm Copper square test clamp.	nr	2		
	Zemm x emm copper equals tost diampi				
Н	Air terminals complete with tape adapter and all accessories	nr	2		
	TOTAL ELEMENT NO.11 (LIGHTNING PROTECTION)				
	CARRIED TO BILL SUMMARY				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item	-		_		,
	ELEMENT NO. 12		1		
	ELECTRICAL INSTALLATION				
	LLLO INIOAL INGIALLATION				
		<u> </u>]		

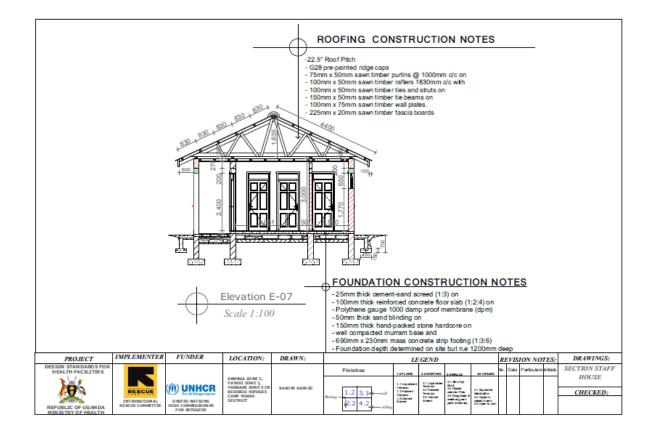
	Supply, install, connect and set to work the following, all as described in the			
	Specifications and Drawings.			
	Power Supply			
Α	100A 6-Way SPN MCB Consumer Unit flush mounting complete with integral isolator, MCBs and all accessories as MEM, CRABTREE or equal approved.	no		
В	Supply Cable 16mm ² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from UEDCL meter to the consumer Unit above.	m		
С	Adaptable box to contain UEDCL meter and cutouts.	no		
D	Main Earth at adaptable box by 25mm ² PVC copper cables to copper electrode in manhole complete with all accessories.	item		
E	Provisional Sum for UEDCL Power Connections	item		
	Lighting			
F	Lighting points wired by 1.5mm² twin with earth PVC-I copper cables in existing 20mm pvc conduits.	no	30	
G	1x11W energy saving solar bulb fitting complete with all accessories as Thorn or equal approved.(F1)	no	24	
J	6A 1 gang 1 way moulded switch as MK or approved equal.	no	18	
K	6A 1 2gang 1 way moulded switch as MK or approved equal.	no	2	
	Sockets			

			1	T	
L	Socket outlet point wired by 2.5mm ²	no	8		
	twin with earth PVC-I copper cables in				
	20mm pvc conduits and all accessories.				
	·				
M	13A 2gang switched socket outlet as	no	8		
	MK, in MK boxes complete with all				
	accessories.				
	Total Carried to Collection				
	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Item	Description	Oilit	Qty	ivate (ogons)	Amount (ogons)
ILEIII					
		1			
	Solar Power.				
	Solar Power Supply				
N	Solar Panel, with Peak power of 120W,	no	6		
	Max.Current of 4.5A, Max. Voltage of				
	17V DC, Short circuit current of 4.8A,				
	Open circuit voltage of 21.4V DC, as				
	SIEMENS SP75, BP SOLAR BP 275 or				
	equal approved.				
0	Steel supporting structure for solar	no	1		
	panels mounted on the roof at an				
	Optimum tilt angle to be determined by				
	site location, complete with brackets				
	and all accessories.				
Р	63A 6-Way SPN MCB Consumer Unit	no	1		
•	flush mounting complete with integral				
	isolator, MCBs and all accessories as				
	MEM, CRABTREE or equal approved.				
	MEM, OKABIKEE or equal approved.				
Q	Charge Regulator with System voltage	no	1		
•	12V / 24V DC, Max Module and Load	110	•		
	Current of 12A, Article No. B01.548 as				
	by Steca GmbH Memmingen (Germany)				
	or equal approved.				
	oi equal approveu.				
R	Inverter of Max. DC Power of 1960W,	no	1		
1.	Max. Current of 14A DC / AC, Max	110	'		
	Voltage at no load of 175V DC, as				
	· · · · · · · · · · · · · · · · · · ·				
	GRUDFOS (Germany) SA 1500 v03 or				
	equal approved.		1	1	
S	Deep Cycle Maintenance Free Solar	no	4		
3	Batteries, of 200AH, 12V / 24V, as	110	4		
	DELCO 2000 by Steca GmbH				

	Memmingen (Germany) or equal approved.			
Т	Battery cable with fuse and interconnecting cables to Consumer unit.	item	1	
U	Earth installation by 25mm ² PVC copper cables to copper electrode in manhole complete with all accessories.	item	1	
V	Supply Cable 16mm ² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar power Consumer Unit CU2.	m	15	
W	1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3).	no		
X	1 gang 1 way 6A moulded switch as MK or approved equal.	no		
Y	Socket outlet point wired by 2.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits to supply the solar powered fridge	no		
Z	13A 2gang flush socket outlet as MK, in MK boxes complete with all accessories.	no		
	Total Carried to Collection			
	COLLECTIONS			
	Total carried to collections 1/12			
	Total carried to collections 2/12			
	TOTAL ELEMENT NO. 12 (POWER AND LIGHTING) CARRIED TO BILL SUMMERY			







Address:_

BILLS CENTI	OF QUANTITIES: PROPOSED CONSTRUCTION (RE III,	OF A NUT	TRITION V	UNIT FOR	HEALTH
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL No. 1 NUTRITION CENTRE				
	MAIN SUMMARY		PAGE		
1	PRELIMINARIES AND GENERAL ITEMS		4		
2	SUB-STRUCTURE		7		
3	SUPER-STRUCTURE		9		
4	ROOFING		10		
5	WINDOWS AND DOORS		13		
6	INTERNAL FINISHES		15		
7	EXTERNAL FINISHES		16		
8	ELECTRICAL INSTALLATION		18		
	TOTAL NUTRITION CENTRE TO GENERAL SUMMARY				
	The project will be completed in Calender	davs			
	Quotation Authorised by:				
	Name:				
	Position:		<u> </u>		
	Authorised for and on behalf of:				
				<u>'</u> T	,

ITEM	DESCRIPTION	UNIT	QTY	RATE	
	DESCRIPTION	OTTI	QII	KATE	
	ELEMENT No. 1				
	PRELIMINARIES AND GENERAL ITEMS				
	<u>General</u>				
A	The contractor must allow for costs in his tender in				
	respect of these preliminary and general items by				
	pricing these items				
	If the contractor leaves any items unpriced, he shall be				
	deemed to have considered that the rates in the				
	remaining items in the bills of quantities are sufficient to perform the services and obligations of these				
	unpriced items				
	· · ·				
	Fencing				
В	Immediately upon taking possession of the site, the	ITEM			
	contractor will be required to erect fencing and gates				
	for the security of his materials, plant and stores				
	Storage	70000 5			
C	The contractor must provide for the storage of the	ITEM	1		
	materials, plant and tools. For materials that are affected by weather, the storage sheds to be provided				
	must be covered to keep out the rain and must be				
	lockable				
	Program of works				
D	A program of works MUST be provided by the				
	contractor				
	Building Regulations				
E	The whole of the works shall be executed according to				
	current building regulations and to the satisfaction of local authorities				
	iocai autiloritics	-	-		
	Definitions and abbreviations				
F	The following definitions and abbreviations to denote				
-	the unit of measurement, are used throughout these				
	bills of quantities				

	·	1	•	1	1
	The term "Engineer" shall mean the employer's representative (or the professional to whom the employer's representative has assigned the duty)				
	Total Carried to Collections 1/1				
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	DESCRIPTION	CIVII	QII	WIIE	AMOCIVI
	CM to denote cubic meters				
	SM to denote square meters				
	LM to denote linear meters				
	No. to denote enumerated item				
	KG to denote kilogrammes				
	SMM to denote the Standard Method of				
	Measurement of Building Works for East Africa,				
	Metric 1970 edition				
	mm to denote millimeters BS to denote the current British Standards				
	three months before the date of invitation of this bid				
	<u>Foreman</u>	TOTAL C			
A	The contractor shall allow for a qualified and experienced foreman FULL-TIME on site. The employer's representative shall approve the foreman	ITEM			
	Transport				
В	The contractor shall include in his prices the transportation of materials, workmen, plant and tools, to and from site				
	Samples				
С	The contractor shall furnish, before commencement of				
C	works any samples or workmanship at his own cost for approval by the Engineer				
D	Sanitation	TOTAL F			
D	The contractor shall provide onsite, the necessary latrines for his staff and workmen to the requirements and satisfaction of the health authorities	ITEM			
	Security				

E					
	The contractor shall adequately safeguard the site, works, materials and plant from theft and damage by vandals	ITEM			
	Plant, tools and scaffolding				
F	The contractor shall allow for mobilization and demobilization of plant, equipment, temporary works, personnel, etc	ITEM	1		
	Total Carried to Collections 1/2				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Water				
A	The contractor shall provide for all the necessary water to execute the works at his own cost	ITEM	1		
	Site Meetings				
В	Site meetings shall be conducted every fortnight (14 days) chaired by the employer's representative. The contractor MUST attend all these site meetings				
	Work at or after completion				
C	The contractor shall allow for making good all damages				
	Sign Boards				
	One sign board to be erected on a chosen site to the employer's approval. This board shall state the project, the funder, the employer (implementer), name of the supervisor and the contractor	ITEM	1		
	The Local Decay of the Local Dec				
	Total Carried to Collections 1/3				
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	3				
	COLLECTIONS				
	Total Carried to Collections 1/1				
	Total Carried to Conections 1/1				
	Total Carried to Collections 1/2				
	Total Carried to Collections 1/3				
	TOTAL PRELIMINARIES & GENERAL ITEMS				
	TOTAL PRELIMINARIES & GENERAL HEMIS				
ITEM	DESCRIPTION	UNIT	QTY		
	ELEMENT No. 2				
	CUD CEDUCEUDE				
	SUB-STRUCTURE				
	(All provisonal)				
	Excavation and earthworks				
A	Clear bush and excavate oversite average 150mm	SM	230		
	deep to remove vegetable soil and load and cart away	51.2			
	from site				
	nom site				
		G3.5	10		
В	Excavate oversite to reduce levels	CM	10		
C	Excavate trench for strip foundations to a depth not	CM	45		
	exceeding 1.5M deep (actual depth to be determined				
	on site)				
T.	D'44 - 1 - 4 1 1 - 1'44 -	CM	1		
E	Ditto but in rock ditto	CM	1		
	Disposal of water		<u> </u>	<u> </u>	
F	Allow for keeping all excavations free from water,	ITEM	1		
	including running water and river water by pumping				
	or otherwise				
	Diagles and Chands			1	
	Planking and Strutting				
G	Provide all planking and strutting necessary to	ITEM	1		
	maintain the sides of excavations and fillings to keep				
	the excavations clear of fallen materials, rubbish or				
	debris				
<u> </u>		_L	I.	Ĺ	I

	Disposal of excavated material			
H	Return, fill and ram selected materials around	CM	21	
	foundations in layers not exceeding 200mm thick			
_		G3.5		
Ι	Remove surplus excavated materials from site	CM	4	
J	Selected imported murram to fill around the	CM	15	
	foundation placed in 200mm layers, watered and			
	compacted to 95% MDD			
	compacted to 75 /6 MDD			
	Anti-Termite treatment			
K	Dig out and cart away all anthill nests on the whole	SM	260	
	site, destroy Queen ants and sterilize nests with Shell			
	"Dieldrix 18" mixed with Gladiator T.C; 2% solution			
	at the rate of 5 litres per square meter; to sides of			
	excavations and tops of foundations generally			
	Total Carried to Collections 2/1			
TOTAL		TINITE	O/DX/	
ITEM	DESCRIPTION	UNIT	QTY	
	Hardcore filling			
L	150mm thick bed of hardcore spread, leveled, well	SM	85	
	compacted and blinded with 50mm layer of sand	DIVI	00	
	compacted and binided with Somm layer of Sand			
	Damp proofing			
M	1000 gauge diothene or other equal approved	\mathbf{SM}	96	
	polythene sheeting as damp proof membrane dpm			
	laid on blinded hardcore (measured separately) with			
	welted joints and minimum 200mm end laps at all			
	1			
	joints			
	Concrete work			
N	Mass concrete, mix 1:4:8/19mm aggregate; blinding in			
_ `	foundation trenches			
	IVANGAMON N CHCHCS		+	
O	Mass concrete, mix 1:3:6/20mm aggregate; in strip	CM	9	
	foundation			
P	100mm thick concrete slab (mix 1:3:6/20mm	SM	85	
•	,	DIVI	03	
	aggregates) laid on damp proof membrane		1	
Q	Ditto but in splash aprons and ramps	CM	6	
	1	1		

_	<u>-</u>		1	1		1
R	Vibrated reinforced concrete mix 1:2:4/20mm	CM				
	aggregates; in ground beams generally					
	Reinforcements					
S	Steel fabric reinforcement to BS 4483 ref A98	SM	85			
	weighing 1.58kg/M ² in concrete floor bed with	DIVI	0.5			
	minimum300mm end and side laps					
	imminum southin end and side taps					
TD.	NEW 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TZO				
T	Mild steel reinforcement bars to BS 4449:1969; 8mm	KG				
	diameter					
U	High tensile steel reinforcement bars to BS 4449:1969;	KG				
	12mm diameter					
	Sawn formwork					
V	Sawn timber formwork to edges of floor slab 175-	LM	40			
'	200mm high	2.11				
W	Ditto to sides of around hoom	LM				
VV	Ditto to sides of ground beam	LIVI				
	Well burnt brickwork in cement-sand 1:4 mortar;					
X	230mm thick walling in foundations with 25x1.2mm	SM	75			
	metal strip at every third coarse					
	Total Carried to Collections 2/2					
ITEM	DESCRIPTION	UNIT	QTY			
			X			
	Domn proof course					
Y	Damp proof course Division No. 1 on other agreed appropriately	LM	43			
Y	Pluvex No. 1 or other equal approved horizontal	LM	43			
	damp proof course to BS 743; 230mm wide laid with					
	200mm end laps					
YY	Ditto but 150mm wide	LM	7			
	Cement and sand 1:3 render; wood floated in:-					
Z	15mm thick render to plinth walls	SM	75			
	Tomm unch render to pinter wans	5111	10			
77	nore and apply two costs of Literaria are a sint	CNA	75			
ZZ	pare and apply two coats of bituminous paint on	SM	15			
	rendered surfaces of plinth walls					
	Total Carried to Collections 2/3					
	I	1	1		1	

	The West Mile Frogram				
	GOV T TO COMPONIE				
	COLLECTIONS				
	Total Carried to Collections 2/1				
	Total Carried to Collections 2/2				
	Total Carried to Collections 2/3				
	TOTAL SUB-STRUCTURE				
ITEM		TINITE	OTV		
IIEWI	DESCRIPTION	UNIT	QTY		
	THE TRANSPORT OF				
	ELEMENT No. 3				
	SUPER-STRUCTURE				
	Reinforced insitu concrete class 25/20mm aggt, (mix				
	1:2:4) vibrated in;				
A	Ring beams	CM	2		
	0 ··· · · · · · · · · · · · · · · · · ·		_		
В	Columns	CM			
<u> </u>	Columns	CIVI			
			<u> </u>		

	High yield tensile steel bar reinforcement to BS 4461				
	as described including cutting to lengths, bending,				
	hoisting and fixing including all necessary tying wire				
	and spacing blocks.				
	and spacing blocks.				
	_				
C	12mm diameter bars	KG	105		
	Mild steel bar reinforcement to BS 4461				
	White steel par remiorcement to bs 4401	1			
D	8mm diameter bars	KG	53		
	Sawn timber formwork to:				
	DEWII CHINDEL TOTHI WOLL TO				
-	C(1 1 00), (1	T 3.4	(F		
E	Sides and soffits: ring beams	LM	65		
F	Vertical sides: columns	SM			
	Hard burnt clay bricks to BS 3921 (3.5N/mm ²				
	compressive strength) bedded and jointed in cement				
	and sand (1:4) mortar.				
<u>C</u>	220 41:-1	CM	125		
G	230mm thick well burnt clay brickwall with	SM	135		
	25x1.5mm metal strip (hoop iron) at every fourth				
	course				
H	Ditto but 150mm thick walls	SM	20		
	Ditto but Icomm timen wans	DIVI			
			2.5		
I	Allow for labour and materials for eaves filling in	LM	36		
	230mm walls:				
	Total Carried to Collections 3/1				
ITEM	DESCRIPTION	UNIT	OTV	+	+
HEN	DESCRIPTION	UNII	QTY		
	150mm Hard burnt clay vent bricks to BS 3921				
	(3.5N/mm ² compressive strength) bedded, jointed and				
	pointed in cement and sand (1:3) mortar in				
	pomera in cement and sand (1.6) moral in				
J	Vent : size 230 x 450mm	No.	2		
-			•	•	

	-		,	1	
	Galvanized steel stanchions				
L	100mm Diameter x 3mm x 3500mm Galvanised Iron class B with bottom end welded to 110 x 110 x 6mm thick plate set in and including concrete (1:3:6) base size 200 x 200 x 200mm deep and 100 x 80 x 6mm Uplate welded on top end	No	6		
M	100mm thick x 600mm wide RC suspended slab for seats in the waiting area, mix 1:3:6 reinforced with fabric mesh: and suspended on 150mm thick x 370mm high stub brick walls (measured all together). The top of the slab to be finished smooth with steel trowel	SM	18		
	Total Carried to Collections 3/2				
	Total Carried to Conceions 5/2				
	COLLECTIONS				
	Total Carried to Collections 3/1				
	Total Carried to Collections 3/2	<u> </u>			
	Tomi Carrica to Collections 5/2	1			
	TOTAL CUIDED CEDILOTUDE	-			
	TOTAL SUPER-STRUCTURE				
ITEM	DESCRIPTION	UNIT	QTY		
	ELEMENT No. 4				
	I	1	1		1

	7007773	1	1	<u> </u>	
	ROOFING				
	Structural timbers:				
	Sawn cypress or other approved timber species:				
	pressure impregnated with Tanalith or other				
	approved wood preservative.				
	approved wood preservative.				
	The following in 7No. Truss: 7700mm clear span x				
	1600mm rise: nailed together, hoisted and fixed 3.0m				
	above ground.				
	100 F0 D 6	T 3.5	(0)		
A	100 x 50mm Rafters	LM	69		
В	100 x 50mm Struts/Ties	LM	96		
С	150 x 50mm Tie beam	LM	56		
	130 A 30mm Tie beam	12171	30		
	100 50 5 11		4.50		
D	100 x 50mm Purlins	LM	159		
\mathbf{E}	100 x 75mm Wall plate	LM	30		
	Prime grade joinery timber: wrot pine				
	Time grade joinery ambers wrot pine				
TC.	225 20 E	TAG	16		
F	225 x 20mm Fascia and barge board	LM	46		
	28 Gauge pre-coated (employer to decide colour)				
	profilrd galvanised iron roofing sheets, fixed 11/2				
	corrugations side laps: fixed to timber purlins (m/s)				
	with galvanised iron drive screws or capped rofing				
	wire nails				
	WILCHMIN				
			-		
G	Roof covering	SM	130		
Н	Matching ridge caping	LM	14		
			1 = -		
	Knot nuime stan and annly are cost underesst and				
	Knot prime stop and apply one coat undercoat and				
1	two finishing coats gloss oil paint on wood				
Ι	Surfaces 200 - 300mm girth : fascia and barge boards	LM	46		
	g				
			+		

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	TOTAL ROOFING				
ITEM	DESCRIPTION	UNIT	QTY		
	ELEMENT No. 5				
	WINDOWS AND DOORS				
	WINDOWS				
	Precast concrete: class 25/(12mm aggt) [mix 1:2:4]				
	units: reinforced with gauge 10 square welded mesh				
	strip: finished fair on exposed surfaces: bedded and				
	jointed in cement and sand (1:4) mortar				
A	325 x 75mm Cill : sunk, weathered and throated	LM	6		
11	oze a remin cui i sumi, weathered and throated	LJIVI			
	Purpose made steel casement to BS 990 : frames and				
	glazing primed with one coat red oxide primer before				
	fixing: complete with fixing lugs built into walls: This				
	includes burglar proofing as desscribed by the				
	employer				
В	Window size 1500 x 1500mm high overall :	No.	3		
	comprising 300mm high steel louvred vent for full				
	width: 2No side-hung opening sash size 500 x				
	1200mm: all divided in panes 0.1 - 0.5M ²				
	Iron mongery and matching fixings				
D	Fastener	No.	6		
			_		
E	Stay	No.	6		
	Ordinary quality clear sheet glass & glazing				
		CD 5	_		
F	4mm Glass: Glazing to metal casement panes 0.1 -	SM	5		
	0.5M ² with tropical glazing putty				
	Painting				

	3	Г	1	1	1
	Prepare touch up primer and apply one coat				
	undercoat and two finishing coats of gloss oil paint :				
	on metal				
G	Glazed casement windows (measured flat both faces)	SM	6		
0	Glazer cusement windows (measured hat both faces)	5111			
	Th. 1. 1. C. D. 42 - F/4				
	Total carried to Collections 5/1				
ITEM	DESCRIPTION	UNIT	QTY		
	Prepare touch up primer and apply one coat				
	undercoat and two finishing coats of gloss oil paint :				
	on concrete				
	on concrete				
TT	W:- 1 C:11 225 75	T N #	(
Н	Window Cills : 325 x 75mm average	LM	6		
	Cement and sand (1:4)				
I	15mm Plaster to reveals : average 200 - 300mm wide:	LM	9		
	steel trowelled smooth				
	Prepare and apply three coats weather guard				
	emulsion paint : to				
J	Plastered surfaces of reveals 200 - 300mm wide:	LM	9		
	external				
	Prepare surfaces: apply three coats vinyl silk soft				
	white emulsion paint: on steel trowelled plaster: to				
17	Plastered surfaces of reveals 200 - 300mm wide :				
K					
	internal				
	<u>DOORS</u>				
	Purpose made steel door: 135x45x1.5mm door frame				
	sections with SHS 40x40x1.2mm framing and clad,				
	faced / fabricated with 1.5mm steel plates : complete				
	with hinges, frame and fixing lugs built into wall.				
	THE MARKET HAR THE TIME THE THE TAILS				

L	Size 900 x 2400mm high overall : comprising 300mm high steel louvred vent for full width : door shutter size 900 x 2100mm high	No.	3	
	Painting			
M	Prepare touch up primer and apply one undercoat and two finishing coats of gloss oil paint: metal doors	SM	13	
TOTAL	Total carried to Collections 5/2	TINTER	OTV	
ITEM	DESCRIPTION	UNIT	QTY	
	Supply and fix: English "Union" or other equal approved ironmongery: matching screws: locks to include a set of 3 keys. (Prices of locks to be inclusive of handles)			
N	38mm Diameter door stops	No.	3	
О	Steel casement locks	No.	3	
	Cement and sand (1:4)			
P	15mm Plaster to reveals : average 200 - 300mm wide: steel trowelled smooth	LM	18	
	Prepare and apply three coats weather guard emulsion paint : to			
Q	Plastered surfaces of reveals 200 - 300mm wide : external	LM	18	
	Prepare surfaces: apply three coats vinyl silk soft white emulsion paint: on steel trowelled plaster: to			
R	Plastered surfaces of reveals 200 - 300mm wide : internal			

		1	ı	ı	
	_				
	COLLECTIONS				
	COMMECTIONS	-			
	Total Carried to Collections 5/1				
	Total Carried to Collections 5/2				
	TOTAL WINDOWS AND DOORS				
ITEM	DESCRIPTION	UNIT	QTY		
	ELEMENT No. 6				
	ELEMENT NO. 0				
	INTERNAL FINISHES				
	Wall Finishes				
	Mortar; Cement- Sand mix (1:4); Plaster; 10 mm				
	first coat of cement and sand (1:6); 3 mm second coat				
	of cement and lime putty (1:10); steel trowelled; 13				
	mm thick				
A	13mm plaster to brick wall.	SM	169		
1.	Tomm public to office want	DIVI	107		
D	12	CNE			
В	13mm plaster to sides and soffite of beams	SM			
C	Window and door jambs over 200mm but not	LM			
	exceeding 300mm girth.				
	0 0				
D	Ditto but in 12mm v 75mm soiling sormics	LM			
D	Ditto but in 13mm x 75mm ceiling cornice.	TTIVI			

	•			
	Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion paint on :-			
E	Plastered walls	SM	169	
F	Beams	SM		
	Ceiling Finishes			
G	Supply and fix 100mm x 50mm sawn timber joist and branderings at 600mm centres either way.	LM	89	
Н	13mm thick Cellotex ceiling softboards; appropriately nailed to ceiling structure with approved nails as directed by the employer	SM	22	
I	Extra over for a 600 x 600mm ceiling access timber panel with sides cut Beveled and fixed on and including Painting to exposed surfaces.	No	1	
J	Extra over for a moulded cornice; 75x13mm	LM	33	
K	Prepare, prime and paint one undercoat and two coats of emulsion paint on ceiling internally.	SM	22	
	Total carried to Collections 6/1			
ITEM	DESCRIPTION DESCRIPTION	UNIT	QTY	
	Floor Finishes			
	Supply and fix the following terrazzo: mechanically polished to finished smooth: including plastic division strips at 2000mm centres.			
L	32mm Thick terrazzo	SM	86	
M	25 x 100mm skirting with square top edge and coved junction at bottom.	LM	58	

			1	I	
	Total carried to Collections 6/2				
	COLLECTIONS				
	_				
	Total carried to Collections 6/1				
	Total carried to Collections 6/2				
	TOTAL INTERNAL FINISHES				
TTTTA		TINITE	OTV		
ITEM	DESCRIPTION	UNIT	QTY		
	ELEMENT No. 7				
	EXTERNAL FINISHES				
	Mortar; cement and sand (1:4)				
<u> </u>		I	i	l	

A	15mm rendering in two coats; finished with wooden float and then tyrolean applied generally to walls.	SM	104	
В	Ditto; to beams	SM		
	Painting and Decorating			
	Prepare and apply three coats weatherguard emulsion paint to:			
С	To rendered brick wall.	SM	104	
ITEM	TOTAL EXTERNAL FINISHES DESCRIPTION	UNIT	QTY	
11171/1		UIVII	VII	
	ELEMENT No. 8			

	ELECTRICAL INSTALLATION				
	Cumply install connect and set to work the following				
	Supply, install, connect and set to work the following				
	in approved materials;				
	Lighting				
A	Lighting points wired by 1.5mm ² twin with earth	No	7		
1.	PVC-I copper cables in 20mm pvc conduits.	110			
	1 ve-1 copper capies in 20mm pve conduits.				
В	1 x 36W 1200mm single bare batten fluorescent fitting	No	5		
	complete with daylight tube switch start and all				
	accessories as Thorn or equal approved.(F1)				
C	1 x 18W 600mm single waterproof, surface mounted	No	2		
C		110	2		
	fluorescent light fitting with GRP body and acrylic				
	diffuser, as Thorn or equal approved (F3).				
D	6A 1 gang 1 way moulded switch as MK or approved	No	5		
_	equal.	210			
	equal.				
	Sockets		_		
${f E}$	Socket outlet point wired by 2.5mm ² twin with earth	No	3		
	PVC-I copper cables in 20mm pvc conduits complete				
	with all accessories.				
F	13A 2gang switched socket outlet as MK, in MK boxes	No	3		
	complete with all accessories.	110	3		
	complete with an accessories.				
	Solar Power.				
	Solar Power Supply and Lighting				
G	Solar Panel, with Peak power of 120W, Max.Current	No	2		
-	of 4.5A, Max. Voltage of 17V DC, Short circuit				
	current of 4.8A, Open circuit voltage of 21.4V DC, as				
	SIEMENS SP75, BP SOLAR BP 275 or equal				
	approved: cost to include securely anchoring the				
	panels on top of the roof sheets				
H	4Way SPN MCB Consumer Unit as MEM or equal	No	1		
11	_	110	1		
	approved.				

	TOTAL CARRIED TO COLLECTIONS 8/1				
ITEM		UNIT	QTY	RATE	AMOUNT
I	Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved.	no	1		
J	Inverter of Max. DC Power of 1250W, Max. Current of 14A DC / AC, Max Voltage at no load of 175V DC, as GRUDFOS (Germany) SA 1500 v03 or equal approved.	no	1		
K	Deep Cycle Maintenance Free Solar Batteries, of 200AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved.	no	2		
L	Battery cable with fuse and interconnecting cables to Consumer unit.	item	1		
M	Earth installation by 25mm ² PVC copper cables to copper electrode in manhole complete with all accessories.	item	1		
N	Supply Cable 16mm ² x 3core PVC/SWA/PVC Copper cables in 25mm PVC concealed conduits complete with terminations clipping and all accessories from battery battery bank to Solar power Consumer Unit CU2.	m	15		
	TOTAL CARRIED TO COLLECTIONS 8/2				

IRC West Nile Program

COLLECTIONS		
TOTAL CARRIED TO COLLECTIONS 8/1		
TOTAL CARRIED TO COLLECTIONS 8/2		
TOTAL ELECTRICAL INSTALLATION		

