

INTERNATIONAL RESCUE COMMITTEE, (IRC) INC. Uganda Program

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

REQUEST FOR PROPOSAL NUMBER: IRC/SU/YU/001

Planned Timetable			
Issue ITT	25/9/2017		
Questions from Suppliers 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 Swinga Health Centre III in Kochi Sub-County, Yumbe District.

2.0 Scope of Work

Swinga 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 true copy of trading license
 - (e) A copy of income tax clearance
 - (f) Certified true copy of the 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 signed and stamped by the Yumbe District Engineer.
- (m) The Priced Bills of Quantities (STAMPED AND SIGNED 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 e-mail to 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 | Uganda

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

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18.0 DEADLINE FOR SUBMISSION OF TENDERS

- 18.1 All tenders must be received by the Employer at **IRC Kampala Office** (**Reception area**) on the date and time as specified in the RFP. Proof of posting will not be accepted as proof of delivery, and any Tender delivered after the above-stipulated time 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	pection of the proposed site(s) of the
This further certifies that the Tenderer is fully converged information necessary for preparing the Tender and entering of all Works according to the Specifications and the Programme of the Pro	ng into a Contract for the completion amme for Work.
(Name)	(Signature)
(Designation)	
duly authorized to sign Tenders on behalf of	
Date:	

Note: This form should be competed and submitted with the Tender.

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 (Fill only one)	• •	as th	e Adjudicator.
Dated this	Day of	20	
Yours faithfull	y,		
	(Name)	(Sig	nature)
In the capacity	of	, duly authorized t	o sign Tenders
On behalf of		(In block letters)	
Witnessed by:			
	(Name)		nature)



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	AWARD			
This is to notify you that y	our Tender d	ated	for constru	ction of Health	Unit at
Swinga Bidibidi Refuge	e Settlemen	t Kochi Sul	o-county, District	under Contra	act No.
	for	the	Contract	Price	of
(Amount	in words)		(A	mount in figu	res) as
corrected and modified in	accordance w	ith the Instru	ction to Tenderers	and the discussion	ons held
on	(Date) is here	eby accepted l	by our Agency. Yo	u are directed to	furnish
an acceptable letter with the	ne following o	locument from	n a reputable insur	ance company;	
1. Performance insura	ance guarante	e equal to 10°	% of the contract v	ralue	
2. The contractors all	risk Insuranc	e equivalent t	to 20% of the contr	ract value	
3. Retention bond equ	uivalent to 10	% of the cont	ract value		
4. If you wish to get	30% advance	e payment, an	advance payment	guarantee equiv	alent to
30% of the contract	ct value				
Varing faithfully					
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 SWINGA HEALTH CENTRE III AT BIDIBIDI REFUGEE SETTLEMENT CAMP IN KOCHI SUB-COUNTY, YUMBE DISTRICT.

Ref:

This contract defines the terms of sale of San	vices BETWEEN of
	(Contractor) represented
	(Person named in powers of attorney).
AND	
International Rescue Committee, Plot 7 Louganda (Customer), represented by:	ower Naguru East Road PO Box 24672 Kampala, (Country Director)

NOW THIS AGREEMENT WITNESSETH as follows:

The **Customer** hereby contracts the **Contractor** to perform: construction of a **Swinga 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.

Any work not completed or accepted by the Customer before the completion period of Days will not be paid.

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.

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 (were 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 behalf 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)	
То:	
Dear Sirs,	
RE: COMMENCEMENT ORDER	
This is to notify you that in accordance Contract No	TION OF
Health Unit at Swinga Health Center III IN BIDIBIDI REFUGEE SETT	LEMENT
CAMP IN KOCHI SUB-COUNTY, YUMBE DISTRICT. You are hereby in	structed to
proceed with implementation of the Works as per the provisions of the C	ontract by
(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

1.	The Emplo	The Employer is:-					
	Name:		OUNTRY DIRECTOR NATIONAL RESCUE			Ξ,	
	Address:	P. O. Bo	x 24672, Kampala				
2.	The Super	visor appointed	d by the Employer is:	-			
	Name: Address:		x 24672, Kampala	OR I	DESIGNA	ATE	
3.	The Contr	The Contractor is:-					
	Name:						
	Address:						
4.		Authorized					is
5.			ract is English.				· • • • • • •
6.	The law that applies to the Contract is the law of the Republic of Uganda.						
7.	The currency of the Contract is Uganda Shillings.						
8.	The Start Date is						
9.	The Intended Completion Date is						
10.	The Contractor shall submit a Program of Work for the Works within 3 days of receipt of the Letter of Award.						

- 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 is will 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 **dependent on scope of work completed and progress reports submitted**

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

- 37.1 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.
- 41.3 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 fiber 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 SUMMARY				0/=

	ELEMENT NO 1			
	SUBSTRUCTURE			
	(All Provisional)			
	Note Items 1.24 to 1.37 are to be priced only for areas with poor soil bearing capacity.			
	Site Preparation			
1.01	Excavate oversite to remove top soil average 250mm thick and remove from site.	m ²	243	0/=
1.02	Treat surface of subsoil or fillings and surroundings with approved chemical anti-termite solution: provide ten year guarantee.	m ²	243	0/=
	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	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	m	12	0/=
	with and including necessary excavations,			
	formwork and disposal of surplus soil.			
1.01	D'44 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		5 (0/
1.21	Ditto splash apron beam size 100 x 150mm deep	m	56	0/=
	ditto			
1.22	38mm thick cement and sand (1:3) paving on	m ²	49	0/=
	splash apron wood float finish			
1.00		2	(0)	0.1
1.23	Prepare and apply three coats of black bituminous	m ²	60	0/=
	paint to plastered surfaces.			
	Total Carried to Collection			0/=
	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		
1,27	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	Temove surplus excuvated material from site	***		
	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.			
1.27	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	
1.31	Column Bases	m ³	
1.32	Columns	m ³	
	Mild steel rod reinforcement as described.		
1.33	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.		
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/=

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Page 4/3 Page 4/3 Page 4/3 O/= TOTAL SUBSTRUCTURE TO SUMMARY O/= ELEMENT NO. 2 ROOF		1	1	1	T
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RUUF	ELEMENT NO. 2				

	Two coats tyrolene rendering on:			
2.06	15mm to walls	m ²	12	0/=
	Cement and sand (1:4) render on concrete or masonry			
	Finishes			
2.05	230mm Thick gable walling	m ²	12	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.			
2.04	Sides and soffites of beams	m	171	0/=
	Sawn formwork as described to:			
2.03	12 mm diameter bar	kg	275	0/=
	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.			
2.02	8 mm diameter bar	kg	125	0/=
	Mild steel reinforcement as described including cutting to lengths, bending, hoisting and fixing including all necessary tying wire and spacing blocks.			
2.01	Ring beams	m ³	4	0/=
	Insitu concrete class 25/20mm : vibrated, reinforced as described			
	Note Items 2.25 to 2.28 are to be priced only for areas with poor soil bearing capacity.			

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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.			
	Sawn cypress pressure impregnated with			
	preservative:-			
	10 No. Trugges two T1, span 6200mm v 1445mm vice			
	10 No. Trusses type T1; span 6200mm x 1445mm rise			
2.08	50 x 100mm Purlins	m		0/=
2.00		***	228	07-
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		0.1	0/=
2.12	50 x 150mm Katters	m	84	0/=
2.13	50 x 150mm Valley Rafter	m	12	0/=
2.10	OVA ISOMM VANCY RAIVEI	111	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 v 150 v 2 1		7	0/
2.17	50 x 150mm Tie beam	m	7	0/=
2.18	75 x 100mm Wall Plate	m	4	0/=
4.10	/S A LUUIIIII VVAII I IAUC	m	4	U /=

	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/=
	Total Carried to Collection			0/=
	Painting Knot prime stop and apply three coats of gloss oil paint to timber surfaces.			
2.23	Knot, prime, stop and apply three coats of gloss oil paint to wood fascia 200-300mm girth.	m	69	0/=
	Roof Vents.			
2.24	Roof Vents size 230 x 460mm high filled with Kajjansi ventilation bricks and bat proof netting complete with all necessary timber framing.	no	3	0/=
	Earthquake areas / Soils with poor bearing capacity.			
	Insitu concrete class 25/20mm : vibrated, reinforced as described			
2.25	Ring beams	m ³		
	Mild steel reinforcement as described.			

Construction of Health Centre HCIII

2.26	8 mm diameter bar	kg	
	High yield tensile steel bar reinforcement to BS 4449		
	as described.		
2.27	12 mm diameter bar	kg	
		8	
	Sawn formwork as described to:		
	Suwit formwork as described to.		
2.28	Sides and soffites of beams	m ²	
2.28	Sides and soffites of beams	III-	
	Total Carried to Collection		0/=
	COLLECTION		
	•		
	Page 4/6		0/=
	Tuge 4/0		0/-
	D 4/7		0/
	Page 4/7		0/=
	Page 4/8		0/=
	TOTAL ROOF CARRIED TO SUMMARY		0/=
	DI D		
	ELEMENT NO. 3		
	EXTERNAL WALLS		
	Note Items 3.10 to 3.13 are to be priced only for areas		
	with poor soil 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	128	0/=
	Precast concrete louvre block walling in cement sand mortar (1:3) with pointed joints to approval.			
3.02	230mm thick walling	m ²	2	0/=
	Permanent Vents			
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/=
	<u>Metal work</u>			
3.04	100mm diameter x 3100mm galvanized 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	m	6	0/=
	steel pipe support 200-300mm girth			
	Earthquake areas / Soils with poor bearing capacity.			
	Darinquate areas / Sous with poor ocaring capacity.			
	Insitu concrete class 25/20mm : vibrated, reinforced			
	as described			
	us described			
2.10	0.1	m ³		
3.10	Columns	m°		
	Mild steel rod reinforcement as described including			
	cutting to lengths, bending, hoisting and fixing			
	including all necessary tying wire and spacing			
	blocks.			
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		
J.12	12 mm diameter but	116		
	Sawn formwork as described to			
	Sawn formwork as described to			
2.12	Side of Column	2		
3.13	Sides of Column	m ²		
	Total Carried to Collection			0/=
	COLLECTION			
	Page 4/9			0/=
	1 agc 4/7			U/-

	1			
	Page 4/10			0/=
	Tuge 1/10			07-
	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.			
4.01	230 x 230 mm high	m	5	0/=
7.01	230 X 230 mm mgn	111	3	0/-
	Propert converte Chade 1201 write reinforced as			+
	Precast concrete Grade '30' units reinforced as			
	necessary and finished fair face on all exposed sides.			
4.00				
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		-	J. —
	300mm high: fixed bottom light size 600 x 300mm			
	high.			
	mgm.	1	1	1

4.04	Window type W3: Size 1500 x 900mm overall height: 2No. Side hung opening lights size 500 x 900mm high: 1 No. fixed middle light size 500 x 900mm high.	no	1	0/=
4.05	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	9	0/=
	Burglar proofing grille comprising 12mm square bars 150mm centres both ways in cobweb pattern as described.			
4.06	Window type W4 : Size 600 x 600mm overall height	no	2	0/=
4.07	Window type W3: Size 1500 x 900mm overall height.	no	1	0/=
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	complete with matching fixings to hardwood or steel 25mm Rubber door stop plugged to wall or floor.		5	0/=

Lever Steel door rebated lock complete with lever arniture lass and Glazing mm thick clear sheet glass to metal window with atty itto but obscure glass ainting repare touch up primer and apply one undercoat and two finishing coats of gloss oil paint: on etalwork.	m ²	23	0/=
mm thick clear sheet glass to metal window with atty itto but obscure glass ainting repare touch up primer and apply one undercoat at two finishing coats of gloss oil paint: on etalwork.			
aitty itto but obscure glass ainting repare touch up primer and apply one undercoat ad two finishing coats of gloss oil paint: on etalwork.			
ainting repare touch up primer and apply one undercoat ald two finishing coats of gloss oil paint: on etalwork.	m ²	1	0/=
repare touch up primer and apply one undercoat nd two finishing coats of gloss oil paint: on etalwork.			
lazed metal surfaces	m ²	32	0/=
urglar proofing grilles	m ²	16	0/=
letal Door and frame	m ²	4	0/=
otal Carried to Collection			0/=
<u>OLLECTION</u>			
age 4/11			0/=
age 4/12			0/=
OTAL WINDOWS & EXTERNAL DOORS TO UMMARY			0/=
LEMENT NO. 5 NTERNAL WALLS & PARTITIONS			
	MMARY EMENT NO. 5	EMENT NO. 5 FERNAL WALLS & PARTITIONS The Items 5.02 to 5.05 are to be priced only for areas	EMENT NO. 5 FERNAL WALLS & PARTITIONS

		1		
	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.			
5.01	230mm Thick walling.	m ²	82	0/=
	Earthquake areas / Soils with poor bearing capacity.			
	Insitu concrete class 25/20mm : vibrated, reinforced as described			
5.02	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.			
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	kg		
		8		
	Sawn formwork as described to			
5.05	Sides of Column	m ²		
	TOTAL INTERNAL WALLS & PARTITIONS			Δ/
	TO SUMMARY			0/=

		1 1	T T	
	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.			
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/=
0.03	leaves one 850mm and other 600mm wide (D2).	110	7	0/-
	leaves one osonim and other obonim wide (D2).			
	Wrot Mahogany : Selected and kept Clean			
6.04	25 x 50mm Architrave: two labours	m	87	0/=
6.05	50 x 150mm Door frame: two labours	m	44	0/=
0.00				0,
6.06	50 x 150mm Transome: Ditto	****	4	0/=
0.00	50 x 150mm 1 ransome: Ditto	m	4	U /=
			1.0	
6.07	12mm thick x 100 x 825mm long louvres set and	m	10	0/=
	including forming 36 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	F ~		
	ALCOHAROU			
6.10	25mm Rubber door stop plugged to wall or floor.	no	12	0/=

3 Lever Mortice Lock complete with lever furniture	no	4	0/=
3 Lever rebated Dead lock ditto	no	4	0/=
150 x 300mm Aluminum push plate	no	8	0/=
Glass and Glazing			
6mm Thick x 200 x 300mm high clear sheet glass vision panel fixed with and including 19 x 25mm timber beading.	no	8	0/=
Total Carried to Collection			0/=
Painting			
Prepare Knot, Prime, stop and apply three coats of gloss oil paint: on woodwork			
General Surfaces : doors	m ²	40	0/=
Ditto: over 200 but not exceeding 300mm girth	m	50	0/=
Ditto not exceeding 100mm girth (Architraves and Louvres).	m	104	0/=
Prime back of frame before fixing	m	44	0/=
Total Carried to Collection			0/=
COLLECTION			
Page 4/14			0/=
Page 4/15			0/=
	3 Lever rebated Dead lock ditto 150 x 300mm Aluminum push plate Glass and Glazing 6mm Thick x 200 x 300mm high clear sheet glass vision panel fixed with and including 19 x 25mm timber beading. Total Carried to Collection Painting Prepare Knot, Prime, stop and apply three coats of gloss oil paint: on woodwork General Surfaces: doors Ditto: over 200 but not exceeding 300mm girth Ditto not exceeding 100mm girth (Architraves and Louvres). Prime back of frame before fixing Total Carried to Collection COLLECTION Page 4/14	3 Lever rebated Dead lock ditto 150 x 300mm Aluminum push plate no Glass and Glazing 6mm Thick x 200 x 300mm high clear sheet glass vision panel fixed with and including 19 x 25mm timber beading. Total Carried to Collection Painting Prepare Knot, Prime, stop and apply three coats of gloss oil paint: on woodwork General Surfaces: doors Ditto: over 200 but not exceeding 300mm girth Ditto not exceeding 100mm girth (Architraves and Louvres). Prime back of frame before fixing Total Carried to Collection COLLECTION Page 4/14	3 Lever rebated Dead lock ditto no 4 150 x 300mm Aluminum push plate no 8 Glass and Glazing 6mm Thick x 200 x 300mm high clear sheet glass vision panel fixed with and including 19 x 25mm timber beading. Total Carried to Collection Painting Prepare Knot, Prime, stop and apply three coats of gloss oil paint: on woodwork General Surfaces: doors m² 40 Ditto: over 200 but not exceeding 300mm girth m 50 Ditto not exceeding 100mm girth (Architraves and Louvres). Prime back of frame before fixing m 44 Total Carried to Collection COLLECTION Page 4/14

	T	1	1	1
	TOTAL INTERNAL DOORS TO SUMMARY			0/=
			_	
	ELEMENT NO 7			
	ELEMENT NO. 7			
	INTERNAL FINISHES			
	Floor Finishes			
	Compart and and (1.4) assessed and annings of the			
	Cement and sand (1:4) screeds and pavings: one			
	coat: steel trowell finish: laid on concrete			
7.01	30mm thick paving.	m ²		
		 		
	105 105			
.02	125 x 125mm coved skirting	m		
	Supply and fix the following terrazzo: mechanically			
	nolished to finished smooth, including plastic			
	polished to finished smooth: including plastic			
	division strips at 2000mm centres.	1		1

			1	
7.01B	32mm Thick terrazzo	m ²		0/=
			118	
7.02B	25 x 100mm skirting with square top edge and	m		0/=
	coved junction at bottom.		104	
	W-H Etata			
	Wall Finishes			
7.03	15mm thick to Cement: Sand: Lime (mix 1:2:9)	m ²		0/=
	plaster, steel trowell finish to walls.		236	
	Supply and fix the following terrazzo: mechanically			
	polished to finished smooth: including plastic			
	division strips at 2000mm centres.			
				_
7.01B	12mm Thick terrazzo to walls of wet areas	m ²	24	0/=
	Painting: 'Sadolin Paints' or equal and approved.			
	Turning. Suadin Lumis of equal and approved			
7.04	D	2		0/
7.04	Prepare and apply one undercoat and two finishing	m ²		0/=
	coats of matt vinyl paint to plastered surfaces.		236	
	Ceiling Finishes			
7.05	9 x 24 SWG galvanized expanded metal lathing U-	m ²	_	0/=
	nailed to timber branderings			0,
	nanea to timber brancerings			
7 0 C		2		0/
7.06	Cement and sand (1:4) pricking course to metal	m ²	-	0/=
	lathing			
7.07	12mm lime plaster to ceiling	m^2	-	0/=
7.08	Extra for 150 x 150mm thick cement and sand (1:3)	m		0/=
7.00	cornice	111	135	0/-
	Cormee		133	
	G Tr. G.			
	Ceiling Structure			
	Pressure impregnated sawn Cypress			
7.09	50 x 100mm branderings	m		0/=
1.07	ZV A TVVIIIII DI UIIUCI III S	111	333	0/-
			333	
= 40	T 0 400 111			0.
7.10	50 x 100mm joists	m		0/=
			135	

	Painting			
	Prepare and apply three coats of first grade emulsion paint on:			
7.11	Plastered ceiling	m^2		0/=
7.11	Plastered ceiling	1111-	118	v /=
7.12	Cornice: Over 100 but not exceeding 200mm girth.	m	135	0/=
			100	
	Total Carried to Collection			0/=
	<u>Earthquake</u>	1		
	For Earthquake areas / Soils with poor bearing			
	<u>capacity price the following items in lieu of items</u> 7.11 - 7.14.			
	/.11 - /.14.			
7.13	6mm Thick internal quality plywood nailed to	m ²		
	branderings.			
714	25 45 W4 HI I C	<u> </u>		
7.14	25 x 45mm Wrot Hardwood Cornice.	m		
	Total Carried to Collection			
	COLLEGIZON	1		
	COLLECTION			
	Page 4/16			0/=
	Page 4/17			0/=
		-		
		1		
		1		

			1	<u> </u>
			1	
	_			
	TOTAL INDEDNIAL DINIGHED TO CHAMADA	-		0/
	TOTAL INTERNAL FINISHES TO SUMMARY.			0/=
			-	
		+		
			+	
	ELEMENT NO. 8			
	FITTINGS AND FIXTURES			
	Curtain Boxes			
8.01	Pelmet box comprising 150 x 25mm Fascia, 125 x	m	20	0/=
0.01		m	20	0/=
	25mm top 150 x 125 x 25mm stopped ends jointed			
	together, complete with and including I-section			
	aluminum curtain rail with rollers			
	Decorate and apply the second of the second	+		
	Prepare and apply three coats of polyurethane			
	lacquer: on woodwork			
8.02	Conoral surfaces of palmet haves	m ²	13	0/=
0.04	General surfaces of pelmet boxes	1111	13	U/=
8.03	Purpose made steel service hatch size 900 x 750mm	no	1	0/=
_ • • •	high to detail			"

Concrete Bench Seats			
75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed.	m ²	3	0/=
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	8	0/=
Fabric mesh reinforcement ref. A98 laid in slab	m ²	3	0/=
Sawn formwork to soffite of slab	m ²	3	0/=
Ditto edge of slab 75mm high	m	7	0/=
25 x 200mm deep hardwood bench back screwed to wall with and including three coats clear varnish	m	5	0/=
Concrete wall shelving			
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/=
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/=
Fabric mesh reinforcement ref. A98 laid in slab	m ²	12	0/=
Sawn formwork to soffite of slab	m ²	12	0/=
Ditto edge of slab 75mm high	m	24	0/=
Total Carried to Collection			0/=
Concrete Work top			0/-
100mm concrete plinth	m ²	2	0/=
	75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab Sawn formwork to soffite of slab Ditto edge of slab 75mm high 25 x 200mm deep hardwood bench back screwed to wall with and including three coats clear varnish Concrete wall shelving 75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab Sawn formwork to soffite of slab Ditto edge of slab 75mm high	75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab m² Sawn formwork to soffite of slab m² Ditto edge of slab 75mm high m 25 x 200mm deep hardwood bench back screwed to wall with and including three coats clear varnish msled smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab m² Sawn formwork to soffite of slab m² Ditto edge of slab 75mm high m Total Carried to Collection Concrete Work top	75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab m² 3 Sawn formwork to soffite of slab m² 3 Ditto edge of slab 75mm high m 7 25 x 200mm deep hardwood bench back screwed to wall with and including three coats clear varnish Concrete wall shelving 75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab m² 12 Sawn formwork to soffite of slab m² 12 Ditto edge of slab 75mm high m 24 Total Carried to Collection Concrete Work top

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 blackboard 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/=
8.23	50 x 50mm ditto	m	10	0/=
8.24	Approved cupboard lock	no	1	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			
	Page 4/18			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			
	Samuel 1.12ppmmees			
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 liter cistern and cover, S3955 (1718AD) with free flow 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 tap holes 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.			
	,	i	1	i I

9.04	Glass fiber Assisted Shower with reinforced base and aluminum 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/=
	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 S3465 (149401A), Laminate faced spacer box unit with access panel S5375 (7774000), Panekta 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 with clips S6884 (7773100), 15cm x 15cm Mayfair semi-recessed toilet roll holder S5004 (2053100) and all accessories	no	1	

9.06	White Vitreous China Wash hand basin with	no	2	0/=
	central tap holes 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.			
	equal approved with all accessories.			
9.07	Polished mirror plate, beveled edge 300 x	no	1	0/=
	450x6mm.			
	Water Supply to Appliances			
9.08	25 mm class B cold water pipe, buried in the	m	8	0/=
	ground, buried in wall, clipped to wall, or in duct			
	complete with all fittings and accessories.			
9.09	20 mm class B cold water pipe, buried in the	m	6	0/=
7.07	ground, buried in wall, clipped to wall, or in duct			0,-
	complete with all fittings and accessories.			
	•			
9.10	12 mm class B cold water pipe, buried in wall,	m	15	0/=
	clipped to wall, or in duct, complete with all fittings			
	and accessories.			
9.11	12mm gate valves as Peglar heavy duty or equal	no	2	0/=
	approved.			
9.12	20mm gate valves as Peglar heavy duty or equal	no	1	0/=
	approved.			
	Total Carried to Collection			0/=
0.15				
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	no	6	0/=
· ·- ·	connection of appliances, complete.			-
	Water Supply			
	тись эприу	-		

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			
	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 tapering to 1500mm and depth of 1500mm complete with hardcore and all accessories.	no	1	0/=
				0.1
	Total Carried to Collection			0/=
	COLLECTION			
	Page 4/20			0/=
	Page 4/21			0/=
	Page 4/22			0/=
	Page 4/23			0/=
	TOTAL MECHANICAL INSTALLATION TO SUMMARY.			0/=

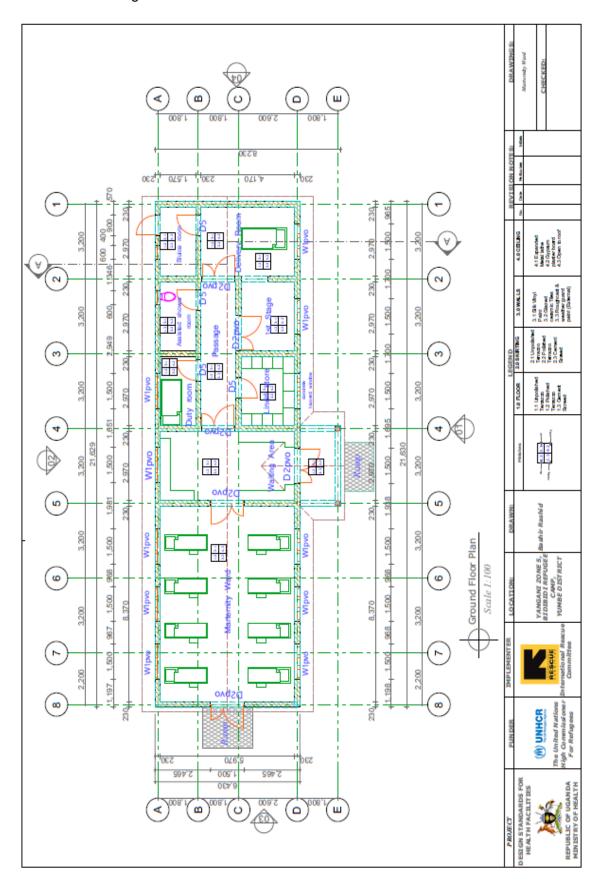
	ELEMENT NO. 10			
	ELECTRICAL INSTALLATION			
	Supply, install, connect and set to work the following,			
	all as described in the Specifications and Drawings.			
	<u>Power Supply</u>			
10.01	100A 9-Way SPN MCB Consumer Unit flush	no		
10.01		110		
	mounting complete with integral isolator, MCBs			
	and all accessories as MEM, CRABTREE or equal			
	approved.			
10.02	Supply Cable 25mm ² x 3core PVC/SWA/PVC	m		
	Copper cables in 25mm PVC concealed conduits			
	complete with terminations clipping and all			
	accessories from UEDCL meter to the consumer			
	Unit above.		1	1
10.03	Meter box to contain UEDCL meter and cutouts.	no	 	
10.04	Main Earth at adaptable box by 25mm ² PVC	item		
10.04		100111		
	copper cables to copper electrode in manhole			
	complete with all accessories.			
	complete with an accessories.			

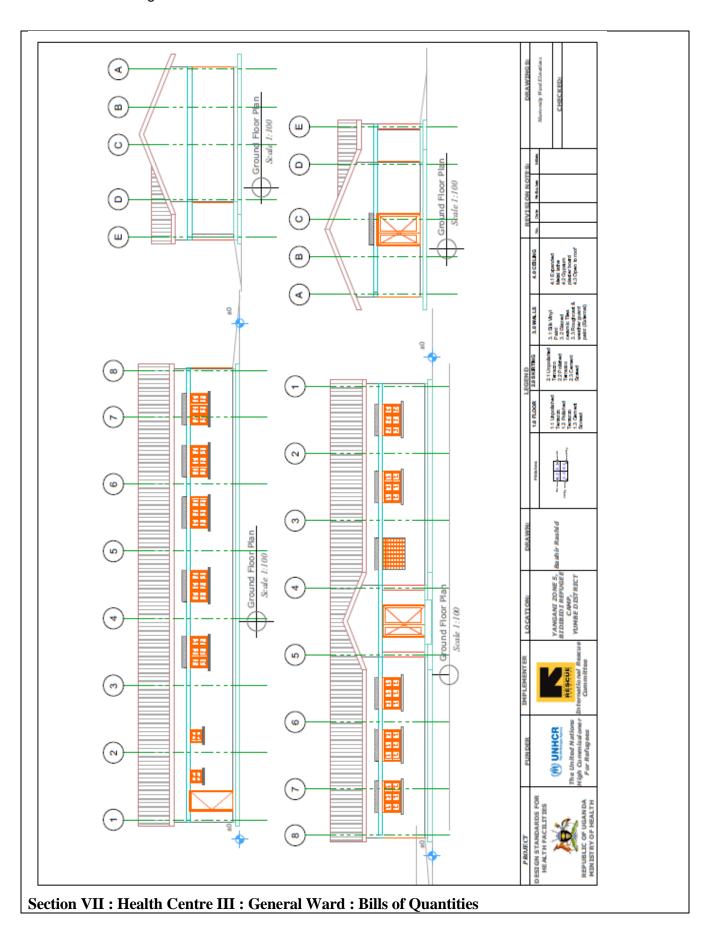
Provisional Sum of UGShs. 1,000,000/= for supply and installation of a change-over switch, complete with all associated accessories: to enable a convenient shift from generator power supply to the installed solar power supply and vice-versa	item	1	0/=
<u>Lighting</u>			
Lighting points wired by 1.5mm ² twins with earth PVC-I copper cables in 20mm pvc conduits.	no		
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		
Cast Aluminum 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: Comprehensive product catalogue 1999, Page 406) (Light F6).	No		
6A 1 gang 1 way molded switch as MK or approved equal.	no		
6A 1 1gang 2 way molded switch as MK or approved equal.	no		
Total Carried to Collection			0/=
Sockets			
Socket outlet point wired by 2.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits and all accessories.	no		
13A 2gang switched socket outlet as MK, in MK boxes complete with all accessories.	no		
Solar Power			
	and installation of a change-over switch, complete with all associated accessories: to enable a convenient shift from generator power supply to the installed solar power supply and vice-versa Lighting Lighting Lighting points wired by 1.5mm² twins with earth PVC-I copper cables in 20mm pvc conduits. 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) Cast Aluminum 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: Comprehensive product catalogue 1999, Page 406) (Light F6). 6A 1 gang 1 way molded switch as MK or approved equal. 6A 1 lgang 2 way molded switch as MK or approved equal. Total Carried to Collection Sockets Socket outlet point wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits and all accessories.	and installation of a change-over switch, complete with all associated accessories: to enable a convenient shift from generator power supply to the installed solar power supply and vice-versa Lighting In operation of a change-over switch, complete with a convenient supply to the installed solar power supply t	and installation of a change-over switch, complete with all associated accessories: to enable a convenient shift from generator power supply to the installed solar power supply and vice-versa Lighting Lighting Lighting points wired by 1.5mm² twins with earth PVC-I copper cables in 20mm pvc conduits. 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) Cast Aluminum 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: Comprehensive product catalogue 1999, Page 406) (Light F6). 6A 1 gang 1 way molded switch as MK or approved equal. 6A 1 lgang 2 way molded switch as MK or approved equal. Total Carried to Collection Sockets Socket outlet point wired by 2.5mm² twin with earth PVC-I copper cables in 20mm pvc conduits and all accessories.

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	Galvanized 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 to Consumer unit.	item	1	0/=
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/=

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 molded 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/=
10.29	Test Blocks complete 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		0/=
SUMMARY.		





Item	Description	Unit	Qty	Rate	Amount
				Ushs	Ushs
	HEALTH CENTRE III				
	DILL NO 2. CENEDAL WARD				
	BILL NO. 3 : GENERAL WARD				
	SUMMARY				
	BENNINI I				
	SUBSTRUCTURE				
1					
	POOF				
2	ROOF				
<u> </u>					
	EXTERNAL WALLS				
3					
	WINDOWS & EXTERNAL DOORS				
4					
	INTERNAL WALLS & PARTITIONS				
5					
_	INTERNAL DOORS				
6					
	INTERNAL PINICIUNICO				
	INTERNAL FINISHINGS				

	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 with poor soil bearing				
	capacity.				
	<u>capacity.</u>				
	G: P	+	+		
	Site Preparation				
	Excavate oversite to remove top soil	m^2			
1.01	average 250mm thick and remove from		660		
	site.				
		+	+		0/=
	TD A C C 1 *1 0*11*	2	+		U /—
4.65	Treat surface of subsoil or fillings and	m ²			
1.02	surroundings with approved chemical		660		
	anti-termite solution: provide ten year				
	guarantee.				
					0/=
	Excavation and Earthworks.		1		0/=
	Lacuvanon and Lannworks.			J	U / —

	-	1		
	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	\mathbf{m}^3		
1.03	from site.		330	
				0/=
	Excavate trenches for wall foundations:	m^3		
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		1	0/=
	2 spoon of onea, and marine		+	0/=
	Selected excavated material in filling to	m ³	+	
1.06	foundation trenches : around walling :	***	95	
1.00	placed in 200mm layers: watered and			
	compacted to 95% MDD			
	compacted to 33 /6 WIDD			0/=
	Domovo gumlug avecyated motorial from	m ³		0/=
1.07	Remove surplus excavated material from	m	(0)	
1.07	site		60	0/
	** 1			0/=
	Hardcore			0/=
				0/=
	150mm Filling: deposit, spread, level and	m^2		
1.08	compact: 25mm selected quarry dust		72	
	blinding.			
				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			
	Total Callicu to Collection		+	
	Dainforman		+	
	Reinforcement			

		1	1	T.
	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			
	8			
	necessary supports			01
				0/=
	Sawn formwork as described to:			0/=
				0/=
	Vertical edges of surface bed: over 75mm	m		
1.12	but not exceeding 150 mm high.		90	
	~ ## ## ### ### ### ### ### ### ### ###			0/=
	Drielmont in humat alon briefe in a concret			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	
1.13			170	0/=
	Sundries			0/=
				0/=
	One layer 1000 gauge polythene sheet	m^2		
1.14	damp proof membrane: Under bed:		246	
	300mm laps.			
				0/=
	Damp proof courses: hessian based			0/=
				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/=
	www.j. with with speasit aproit			0/=
	50mm Thick had of sand	2.		0/-
116	50mm Thick bed of sand on compacted	m ²	(F	
1.16	ground.		65	
				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		97 -
1.18	` 0,	***	9	
1.19	25/18mm aggregate ramp reinforced		9	
	with and including formwork and fabric			
	mesh reinforcement ref A98 as before			
	described			
				0/=

1944 .		(F	
apron ditto		65	
			0/=
Ditto concrete ramp beam size 60 x 80mm deep with and including necessary excavations, formwork and disposal of surplus soil.	m	12	
			0/=
Ditto splash apron beam size 100 x 150mm deep ditto	m	92	
			0/=
38mm thick cement and sand (1:3) paving on splash apron wood float finish	m ²	65	
			0/=
Prepare and apply three coats of black bituminous paint to plastered surfaces.	m ²	45	
Total Carried to Collection			
bearing capacity.			
Note: Rates for excavation to include for keeping excavations free from water and planking and strutting to sides of excavations			
Excavate trenches for wall foundations: commencing from reduced levels: not exceeding 1.5m deep.	m ³	155	
Selected excavated material in filling to foundation trenches as before described.	m ³	100	
	2		
Remove surplus excavated material from site	m³	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.			
230 mm thick walling.	m ²	160	
Insitu concrete grade 10 / 20mmaggregate as described.			
	80mm deep with and including necessary excavations, formwork and disposal of surplus soil. Ditto splash apron beam size 100 x 150mm deep ditto 38mm thick cement and sand (1:3) paving on splash apron wood float finish Prepare and apply three coats of black bituminous paint to plastered surfaces. 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 Excavate trenches for wall foundations: commencing from reduced levels: not exceeding 1.5m deep. Selected excavated material in filling to foundation trenches as before described. Remove surplus excavated material from site 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. 230 mm thick walling.	Ditto concrete ramp beam size 60 x 80mm deep with and including necessary excavations, formwork and disposal of surplus soil. Ditto splash apron beam size 100 x 150mm deep ditto 38mm thick cement and sand (1:3) paving on splash apron wood float finish Prepare and apply three coats of black bituminous paint to plastered surfaces. 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 Excavate trenches for wall foundations: commencing from reduced levels: not exceeding 1.5m deep. Selected excavated material in filling to foundation trenches as before described. Remove surplus excavated material from site 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. Insitu concrete grade 10 / 20mmaggregate	Ditto concrete ramp beam size 60 x 80mm deep with and including necessary excavations, formwork and disposal of surplus soil. Ditto splash apron beam size 100 x 150mm deep ditto 92 38mm thick cement and sand (1:3) paving on splash apron wood float finish 65 Prepare and apply three coats of black bituminous paint to plastered surfaces. 45 Total Carried to Collection

	ostriio regiani	1 -	1	1	1
	50mm thick blinding to foundations and	m ²			
1.28	column bases		77		
	Insitu concrete grade 20 / 20mm aggregate				
	as described.				
	us described.				
		2			
	Foundations in trenches	m ³			
1.29			6		
	Insitu concrete grade 25 / 20mm vibrated				
	reinforced as described.				
	Foundations in trenches	m ³			
1.30	1 oundations in trenenes		15		
1.50			13		
	C.I P	. 2			
4 4 4	Column Bases	m ³			
1.31			1		
	Columns	m^3			
1.32			1		
	Mild steel rod reinforcement as described.				
	111th Steet Fou Fettijoreement as aesertoea.				
	0 1! 4 1	1			
4.00	8 mm diameter bar	kg	4.60		
1.33			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.				
				1	
	12 mm diameter bar	ka			
1 24	12 mm diameter var	kg	210		
1.34			210		
	Total Carried to Collection				
	Sawn formwork as described to				
	~ joinen oin as assertion to				
	Sides of Column bases	m ²			
1.25	Sides of Column bases	111	7		
1.35			7		
	Sides of Columns	m^2			
1.36			14		
		<u> </u>		<u> </u>	1

			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//				
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	TOTAL CUIDOTRICTUDE TO	-			
	TOTAL SUBSTRUCTURE TO				
	SUMMARY				
		-			

			1	Г	
			+		
				1	
		1	1		
			1	1	
	TIV TO STOVE ALC: A			1	
	ELEMENT NO. 2				
	ROOF				
	Note Items 2.20 to 2.23 are to be priced				
	only for areas that are with poor soil				
	bearing capacity.	1	1		
	Insitu concrete grade 25 / 20mm:				
	Vibrated, reinforced as described				
			1		
	Ding hooms	3	+		
	Ring beams	m ³	1_		
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.		1		
					0/=
	8 mm diameter bar	kg			
2.02			220		
					0/=
	High wight to all the state of		+		
	High yield tensile steel bar reinforcement				0/=
	to BS 4449 as described including cutting				
	to lengths, bending, hoisting and fixing				
	including all necessary tying wire and				
	spacing blocks.				
	spacing orders.				0/=
	10 11 1	 	1		U/=
	12 mm diameter bar	kg			
2.03			450		
					0/=
	Sawn formwork as described to:				0/=
	Zamie joinemone wo webeneou we				0/=
	C* 1 1 pp*/ p.1	. 2	1	1	V/-
	Sides and soffites of beams	m ²	1		
2.04			71		
					0/=
	Brickwork in burnt clay bricks in cement				0/=
	and sand mortar (1:3) mix; with and				
	including 25 x 3mm hoop iron strips laid				
	horizontally every alternate course.				

				0/=
	230mm Thick gable walling	m ²		
2.05	200mm Thick gaste waning		15	
2.03			13	0/
				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	15mm to wans	111	15	
2.06			15	
				0/=
	Two coats tyrolene rendering on masonry			0/=
				0/=
	Walls and concrete surfaces	m ²		
2.07	vians 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 3.0mm above ground tevel.			
	G			
	Sawn cypress pressure impregnated with			
	preservative:-			
	7 No. Trusses span 8200mm x 1800mm			
	rise			
	1			
	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	1		0/=
2.11	50 x 150mm Tie beam	m	120	
2.11			120	
				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	1		0/=
	,			0/=
	26 Gauge pre-painted iron roofing	m ²		0,
2.15	sheets fixed with 1 ¹ / ₂ side corrugation	***	350	
2.13	laps and 150mm end laps with and		330	
	including approved roofing nails or			
	galvanized steel drive screws with plastic			
	washers to manufacturer's instructions.			
	washers to manufacturer's first uctions.			0/=
	26 Common alain (none anatal) mall ton	+		0/=
216	26 Gauge plain (pre-coated) roll top	m	40	
2.16	ridge capping.		40	
	7000			0/=
	Ditto valet piece 1000mm girth	m		
2.17			13	
				0/=
	Eaves			0/=
				0/=
	25 x 225mm Wrot Cypress fascia board	m		
2.18			100	
				0/=
	Painting			0/=
	Knot prime stop and apply three coats of			0/=
	gloss oil paint to timber surfaces.			
	U I			0/=
	Knot, prime, stop and apply three coats	m		
2.19	of gloss oil paint to wood fascia 200-		100	
	300mm girth.			
	D V V V V V V V V V V V V V V V V V V V	<u> </u>		0/=
	Roof Vents.	1		0/=
	Acoj veius.	+		0/=
	Doof Venta size 220 - 460 high fill-1	n.c.		U/=
2 20	Roof Vents size 230 x 460mm high filled	no		
2.20	with Kajjansi ventilation bricks and bat		3	
	proof netting complete with all necessary			

	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			

	Page 3/6				
	Page 3/7				
	TOTAL ROOF CARRIED TO SUMMARY				
	ELEMENT NO. 3				
	EXTERNAL WALLS				
	77.7. 206. 200				
	Note Items 3.06 to 3.09 are to be priced				
	only for areas that are with poor soil				
	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.				
3.01	230mm thick walling.	m ²	92		
3.01			74		
-	Permanent Vents				
-	1 etimunent venus				
3.02	Permanent Vent filled in with Kajjansi ventilation bricks or other equal and approved; bat proof gauze and coffee tray wire backing complete with necessary timber framing and beading.	m ²	10		
			1	1	1

	Finishes			
	Cement and sand (1:4) render trowelled smooth on concrete or masonry			
	smooth on concrete or musoury			
3.03	15mm to walls.	m ²	225	
	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 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	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						
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		TOTAL EXTERNAL WALLS TO				
SUMMARY						
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	ELEMENT NO. 4				
	WINDOWS & EXTERNAL DOORS				
	WINDOWS & EXTERNAL DOORS				
	C , W I				
	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	m			
4.01	130 x 230 mm mgn	1111	_		
4.01			5		0/
					0/=
	Precast concrete grade 25 / 20mm				0/=
	aggregate: units reinforced as necessary				
	and finished fair face on all exposed sides.				
					0/=
	75 x 285 mm sunk weathered and	m			
4.02	throated window cill		40		
					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			
4.03	overall height: 1No. top hung opening	110	2		
7.03					
	lights size 600 x 300mm high: fixed				
	bottom light size 600 x 300mm high.				0.1
					0/=

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 sizes.			0/=
				0/=
4.05	Window type W4 : Size 600 x 600mm overall height	no	2	
				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			
	matching fixings to narawood or steet			0/=
	7 77			U/=
	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/=
				U/=
	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			
7017	level lulimetic			0/=
	Class and Class	+		
	Glass and Glazing			0/=
				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	Ditto but obscure glass	1111	1	
4.10			1	0.1
				0/=
	Painting			0/=
				0/=
	Prepare touch up primer and apply one			0/=
	undercoat and two finishing coats of gloss			
	oil paint: on metalwork.			
	ou pante. ou metaen orm			0/=
	Claration Constitution	. 2		U/-
	Glazed metal surfaces	m ²		
4.17			99	
				0/=
	Burglar proofing grilles	m^2		
4.18			74	
		1		
	Total Carried to Collection			
	1 oan Carried to Concential	+		
	n	1		
1				i
	Painting			

	- cottino i regiani				
	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		1111	_		
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	_		
4.22			5		
					0/=
					0/=
	T-4-1 C	-			
	Total Carried to Collection				
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	TOTAL WINDOWS & EXTERNAL				
	DOORS TO SUMMARY				
	DOORD TO BUILDING				
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	ELEMENT NO. 5				
			+		
	INTERNAL WALLS & PARTITIONS		1		
	Note Items 5.02 to 5.05 are to be priced				
	only for areas that are with poor soil				
	bearing capacity.				
	D:1 1:1 (1 1:1:				
	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			
E 01	200mm Timek waming.	111	1.45		
5.01			145		
	Earthquake areas / Soils with poor				
	bearing capacity.				
	Insitu concrete grade 25 / 20mm		1		
	aggregate: vibrated reinforced.				
	Columns	m ³			
= 0.5	Coluillis	1111			
5.02			1		
	Mild stool nod noinforce and and Jessell - I				
	Mild steel rod reinforcement as described				
	including cutting to lengths, bending,				
	hoisting and fixing including all necessary				
	tying wire and spacing blocks.		1		
	8 mm diameter bar	kg			
5 A2	O ALIMA GAMILLOVA NOME	***	20		
5.03			30		
	1	1		I	1

position. 200 x 200 mm high	m	15		0/=
formwork and noising and name in		1	i	Í.
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/=
	3 7				0/=
6.04	25 x 50mm Architrave: two labours	m	20		
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		
		1			
6.12	Ditto rebated ditto	no	5		
	150 x 300mm Aluminium push plate	no			

6.13			20		
0.10			20		
	Glass and Glazing				
	(TEL: 1 200 200 1: 1 1				
	6mm Thick x 200 x 300mm high clear	no			
6.14	sheet glass vision panel fixed with and		10		
	including 19 x 25mm timber beading.				
	To a log is larger than the beauting.				
	Total Carried to Collection				
	Prepare Knot, Prime, stop and apply three				
	coats of gloss oil paint : on woodwork				
	General Surfaces : doors	m ²			
. 1 =	General Surfaces: 40018	1111	20		
6.15			39		
	Ditto: over 200 but not exceeding 300mm	m			
(1)	_	1111	50		
6.16	girth		59		
	Ditto not exceeding 100mm girth	m			
	Ditto not exceeding roomin girti	111	100		
6.17			182		
	Prime back of frame before fixing	m			
< 40	I Time back of Italie before fixing	111			
6.18			51		
	Total Carried to Collection				
	Total Carried to Concetion				
	COLLECTION				
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	TOTAL INTERNAL DOORS TO				
		1		1	

	SUMMARY			1	
	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		
		1			
	Wall Finishes				
7.03	15mm thick to cement and sand plaster, steel trowell finish to walls.	m ²	429		

Painting: 'Sadolin Paints' or equal and approved.				
Prepare and apply one undercoat and two finishing coats of matt vinyl paint to plastered surfaces.	m ²	429		
Ceiling Finishes				
9 x 24 SWG galvanized expanded metal lathing U-nailed to timber branderings	m ²	212		
Cement and sand (1:4) pricking course to metal lathing	m ²	212		
12mm cement and sand plaster to ceiling	m ²	212		
Extra for 150 x 150mm thick cement and sand (1:3) cornice	m	180		
Ceiling Structure				
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				
	approved. Prepare and apply one undercoat and two finishing coats of matt vinyl paint to plastered surfaces. Ceiling Finishes 9 x 24 SWG galvanized expanded metal lathing U-nailed to timber branderings Cement and sand (1:4) pricking course to metal lathing 12mm cement and sand plaster to ceiling Extra for 150 x 150mm thick cement and sand (1:3) cornice Ceiling Structure Pressure impregnated sawn Cypress 50 x 50mm 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. Total Carried to Collection	Prepare and apply one undercoat and two finishing coats of matt vinyl paint to plastered surfaces. Ceiling Finishes 9 x 24 SWG galvanized expanded metal lathing U-nailed to timber branderings Cement and sand (1:4) pricking course to metal lathing 12mm cement and sand plaster to ceiling m² Extra for 150 x 150mm thick cement and sand (1:3) cornice Ceiling Structure Pressure impregnated sawn Cypress 50 x 50mm branderings m 50 x 100mm joists m Painting Prepare and apply three coats of first grade emulsion paint on: Plastered ceiling m² Cornice: Over 100 but not exceeding 200mm girth.	Prepare and apply one undercoat and two finishing coats of matt vinyl paint to plastered surfaces. Ceiling Finishes 9 x 24 SWG galvanized expanded metal lathing U-nailed to timber branderings Cement and sand (1:4) pricking course to metal lathing 12mm cement and sand plaster to ceiling Extra for 150 x 150mm thick cement and sand (1:3) cornice Ceiling Structure Pressure impregnated sawn Cypress 50 x 50mm branderings m 420 For x 100mm joists Painting Prepare and apply three coats of first grade emulsion paint on: Plastered ceiling Total Carried to Collection m 429 429 429 429 429 429 429	approved. Prepare and apply one undercoat and two finishing coats of matt vinyl paint to plastered surfaces. Ceiling Finishes 9 x 24 SWG galvanized expanded metal lathing U-nailed to timber branderings Cement and sand (1:4) pricking course to metal lathing 12 212 12mm cement and sand plaster to ceiling metal lathing Extra for 150 x 150mm thick cement and sand (1:3) cornice Ceiling Structure Pressure impregnated sawn Cypress 50 x 50mm branderings m 420 Fainting Prepare and apply three coats of first grade emulsion paint on: Plastered ceiling Total Carried to Collection m 212 128 129 1212 129 120 120 1212 120 120

		1	1	1	
4	For Soils with poor bearing capacity price				
	the following items in lieu of items 7.11 -				
4	<u>7.14.</u>				
	6mm Thick internal quality plywood	m ²			
Ι,	nailed to branderings.		212		
	naneu to branuerings.		212		
1	25 x 45mm Wrot Hardwood Cornice.	m			
			180		
,	Total Carried to Collection				
	Total Carried to Conceilon				
(COLLECTION				
		1			
	D 2/15	-			
	Page 3/17	1			
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- ,	TOTAL INTERNAL FINISHES TO				
	SUMMARY.	1			
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	ELEMENT NO. 8				
	FITTINGS AND FIXTURES				
	FILLINGS AND FIATURES	1			
	Curtain Boxes				
	Cui unit Dunes	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				
	aluminum curtain rail with rollers				
	Duonana and apply three coats of				
	Prepare and apply three coats of				
	polyurethane lacquer: on woodwork				
		2			
	General surfaces of pelmet boxes	m ²			
8.02			26		
	Concrete Bench Seats				
		İ			
		-	1		
	75mm Thick reinforced concrete (1:2:4)	m^2			
8.03	slab finished smooth on exposed surfaces		6		
0.00			· ·		
	with 12mm cement and sand (1:3)				
	screed.				
		1			
	Concrete (1:2:4) beam size 200 x 185mm	m			
8.04	deep reinforced with and including 4 No.		14		
0.04			1-1		
	Y12 steel bars, R8 links at 200mm				
	centres and formwork.				
		1			
ļ		1	1		
	Fabric mesh reinforcement ref. A98 laid	m^2			
8.05	in slab		6		
0.00	AAA MANNIN	+			
	Sawn formwork to soffite of slab	m^2			
8.06			6		
0.00		1	U		
	•			•	•

8.07 Solution edge of stab / Smin nign m		D'44 1 6 .1 .1 .75 1 ' .1			
8.08 8.08 8.08 8.08 crewed to wall with and including three coats clear varnish Concrete wall shelving 75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab Sawn formwork to soffite of slab B.12 Sawn formwork to soffite of slab Ditto edge of slab 75mm high B.13 Concrete Work top 100mm concrete grade 10 / 20mm aggregate: plinth Total Carried to Collection Total Carried to Collection 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.	=	Ditto edge of slab 75mm high	m		
8.08 screwed to wall with and including three coats clear varnish Concrete wall shelving	8.07			14	
8.08 screwed to wall with and including three coats clear varnish Concrete wall shelving	İ				
8.08 screwed to wall with and including three coats clear varnish Concrete wall shelving 75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 8.09 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. Fabric mesh reinforcement ref. A98 laid in slab Sawn formwork to soffite of slab 8.11 Ditto edge of slab 75mm high Balta Concrete Work top 100mm concrete grade 10 / 20mm aggregate: plinth Total Carried to Collection Concrete (1:2:4) beam size 200 x 185mm meleop reinforced with and including 4 No. Y12 steel bars, R8 links at 200mm centres and formwork. 75mm Thick reinforced concrete (1:2:4) slab finished with 15mm terrazzo finish 8 m² slab finished with 15mm terrazzo finish 8 m² 8 m² 20 y		25 x 200mm deep hardwood bench back	m		
coats clear varnish Concrete wall shelving 75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab Sawn formwork to soffite of slab Balti Ditto edge of slab 75mm high Concrete Work top 100mm concrete grade 10 / 20mm aggregate : plinth Total Carried to Collection Concrete (1:2:4) beam size 200 x 185mm m deep reinforced with and including 4 No. Y12 steel bars, R8 links at 200mm centres and formwork.	202	_		14	
Concrete wall shelving 75mm Thick reinforced concrete (1:2:4) slab finished smooth on exposed surfaces with 12mm cement and sand (1:3) screed. 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. Fabric mesh reinforcement ref. A98 laid in slab Sawn formwork to soffite of slab Bitto edge of slab 75mm high Concrete Work top 100mm concrete grade 10 / 20mm aggregate: plinth Total Carried to Collection 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. 75mm Thick reinforced concrete (1:2:4) slab finished with 15mm terrazzo finish 8 m² 20 8 8 8 8 8 8 8 8 8 8 8 8 8	0.00			14	
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8.13 Concrete Work top 100mm concrete grade 10 / 20mm 8.14 aggregate: plinth Total Carried to Collection 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. 75mm Thick reinforced concrete (1:2:4) slab finished with 15mm terrazzo finish 8 20 21 22 32 33 34 35 36 37 38 38 38 38 38 38 38 38 38					
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100mm concrete grade 10 / 20mm m ² 8.14 aggregate: plinth 8 Total Carried to Collection Concrete (1:2:4) beam size 200 x 185mm m 20 4.15 deep reinforced with and including 4 No. Y12 steel bars, R8 links at 200mm centres and formwork. 75mm Thick reinforced concrete (1:2:4) slab finished with 15mm terrazzo finish 8	İ				
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8.15 deep reinforced with and including 4 No. Y12 steel bars, R8 links at 200mm centres and formwork. 75mm Thick reinforced concrete (1:2:4) slab finished with 15mm terrazzo finish 8	<u>. </u>				
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Y12 steel bars, R8 links at 200mm centres and formwork. 75mm Thick reinforced concrete (1:2:4) slab finished with 15mm terrazzo finish 8.16	1	` '	m		
centres and formwork. 75mm Thick reinforced concrete (1:2:4) m ² slab finished with 15mm terrazzo finish 8.16	8.15	deep reinforced with and including 4 No.		20	
centres and formwork. 75mm Thick reinforced concrete (1:2:4) m ² slab finished with 15mm terrazzo finish 8.16	i	Y12 steel bars, R8 links at 200mm			
75mm Thick reinforced concrete (1:2:4) m ² slab finished with 15mm terrazzo finish 8	i	· ·			
8.16 slab finished with 15mm terrazzo finish 8	<u>. </u>	THE TO WELL AND ADD IT OF THE			
8.16 slab finished with 15mm terrazzo finish 8		75 (1.2.4)	2		
	0.1.		m ²		
on exposed surfaces.	8.16			8	
	1	on exposed surfaces.			
Fabric mesh reinforcement ref. A98 laid m ²		Fahric mesh reinforcement ref AOS loid	m ²		
	0.17		***	o	
8.17 in slab 8	δ.17	ın siad		ð	

		T		1	T
		2			
	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 blackboard door, shelf, back	m ²			
8.20	and base with hardwood lipping to		50		
	exposed edges				
	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			10		
	Ditto pull handles	no			
8.26			5		
	Prepare and apply three coats gloss oil	m ²			
8.27	paint on wood surfaces.		68		
	Ditto to frame not exceeding 100mm	m			
8.28	girth.		70		
	Total Carried to Collection				
	COLLECTION				
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	- 1.80 57.20				
	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 Drawings.				
	Sanitary Appliances				
	18 Gauge Stainless Steel Sink as	no			
9.01	ARMITAGE SHANKS htm64		1		
	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.				
	100				
	18 Gauge Stainless Steel Doon double	no			
9.02	bowl sink as ARMITAGE SHANKS,		1		
	HTM64 DOON DOUBLE SINK, S5864				
	(533113U), with tap holes 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.				
	or admir abbrotom	1	I	I	l

	White Vitreous China WC pan with	no			
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	110	1		
2.04			1		
	SHANKS Portman general purpose				
	medium wash hand basin, 50cm x 42cm,				
	with 2 tap holes, no overflow, no				
	chainstay.S7195(6624400) nose pillar				
	taps complete with bead chain				
	S8715(70017N6) un-slotted 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 aluminum alloy or equal				
	approved.				
	Power shower kit with hand spray,	no	-		0/=
9.05	1350mm long hose, slide bar with grey				
	tinted soap dish and chrome plated wall				
	connection c/w control valve as Armitage				
	shanks trevi power shower kit E4205AA.				
	60cm Acrylic Towel Rail with brackets,	no			
9.06	as ARMITAGE SHANKS MAYFAIR	110	3		
7.00	S5014 (20811TR) or equal approved		3		
	Total Carried to Collection				
	Total Carried to Collection				
	Concern to small Constitute and 14.914.4.29				
0.05	Screw to wall Semi-recessed toilet roll	no	1		
9.07	holder 15cm x 15cm as ARMITAGE		1		
	SHANKS, MAYFAIR RECESSED				
	S5004 (2053100) or equal approved				
	Polished mirror plate, beveled edge 300 x	no			
9.08	450x6mm.		1		
	Water Supply to Appliances				
	25 mm class B cold water pipe, buried in	m			
9.09	the ground, buried in wall, clipped to		10		
	wall, or in duct complete with all fittings				
	and accessories.				
	1	<u> </u>	1	I	J

	-			
9.10	20 mm class B cold water pipe,burried in the ground, buried 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, buried 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 separately), 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			

				T	T
	Internal Drainage				
9.20	38mm PVC heavy gauge pipes complete with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap.	m	20		
9.21	50mm PVC heavy gauge pipes complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap.	m	10		
9.22	110mm PVC heavy gauge pipes complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap.	m	10		
	External Drainage				
9.23	110mm PVC heavy gauge pipework buried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories.	m	50		
9.24	Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, with steel cover and all accessories.	no	3		
	77 1 1 170 (00				
9.25	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.	no	4		
9.26	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	no	1		
	accessories.				
9.27	Soak Pit Size approx. 2500mm on top tapering to 1500mm and depth of	no	1		
	1500mm complete with hardcore and all accessories.				
	1500mm complete with hardcore and all				

	COLLECTION				
	COLLECTION				
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	TOTAL MECHANICAL				
	INSTALLATION TO SUMMARY				
			1		
			-	1	
	ELEMENT NO. 10			<u> </u>	
	ELECTRICAL INSTALLATION				
	Sumply install compact and set to work the				
	Supply, install, connect and set to work the				
	following, all as described in the				
	Specifications and Drawings.				
	Power Supply				
	100A 9-Way SPN MCB Consumer Unit	no			
10.01		110	1		
10.01	flush mounting complete with integral		1		
	isolator, MCBs and all accessories as				
	MEM, CRABTREE or equal approved.				
					0/=
			<u> </u>	-	U/=
	Supply Cable 16mm ² x 3core	m			
10.02	PVC/SWA/PVC Copper cables in 25mm		15		
	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		
			1		
		<u> </u>			
	Main Earth at adaptable box by 25mm ²	item			
10.04	PVC copper cables to copper electrode in		1		
	manhole complete with all accessories.				
	mainiore complete with all accessories.		-	1	
	Provisional Sum for UEDCL Power	item			
10.05	Connections		1		
10.03	Connections		1	1	
			<u> </u>	<u> </u>	

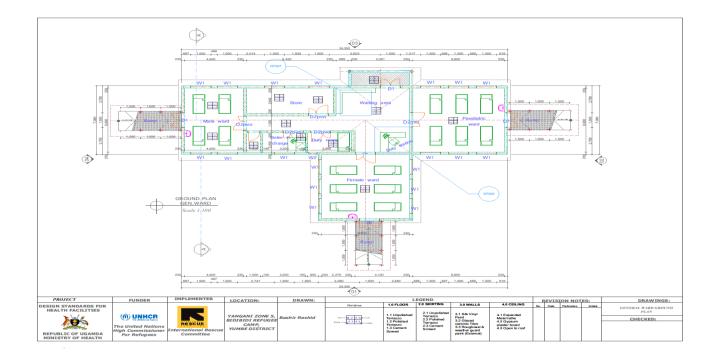
Lighting Lighting points wired by 1.5mm² twin with earth PVC-I copper cables in existing 20mm pvc conduits. 1x36W 1200mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved.(F1) 1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved (F2).	
10.06 with earth PVC-I copper cables in existing 20mm pvc conduits. 1x36W 1200mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved.(F1) 1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
10.06 with earth PVC-I copper cables in existing 20mm pvc conduits. 1x36W 1200mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved.(F1) 1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
existing 20mm pvc conduits. 1x36W 1200mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved.(F1) 1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
10.07 Independent of the state of the state of the state of the start and all accessories as an accessories as an accessories as an accessories as an accessories as an accessories as an accessories as an accessories as an accessories as an accessories as an accessories as an accessories as accessories as accessories as accessories as accessories as accessories as accessories as accessories as accessories as accessories as accessories as accessories as accessories as accessories as accessories	
10.07 Increase Increa	
10.07 fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved.(F1) 1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
10.07 fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved.(F1) 1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
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Thorn or equal approved.(F1) 1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
10.08 10.08 10.08 surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
10.08 surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
with GRP body and acrylic diffuser, as Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
Thorn or equal approved (F3). 1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as	
1x18W 600mm single bare batten 10.09 fluorescent fitting complete with daylight tube switch start and all accessories as	
10.09 fluorescent fitting complete with daylight tube switch start and all accessories as	
10.09 fluorescent fitting complete with daylight tube switch start and all accessories as	
tube switch start and all accessories as	
Thorn or equal approved (F2).	
6A 1 gang 1 way molded switch as MK no	
10.10 or approved equal.	
6A 1 1gang 2 way molded switch as MK no	
10.11 or approved equal.	
Sockets 4	
Socket outlet point wired by 2.5mm ² twin no	
10.12 with earth PVC-I copper cables in 20mm 12	
pvc conduits and all accessories.	
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	
Som Long supply with Lighting	
Solar Panel, with Peak power of 75W, no 4	
10.14 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.	

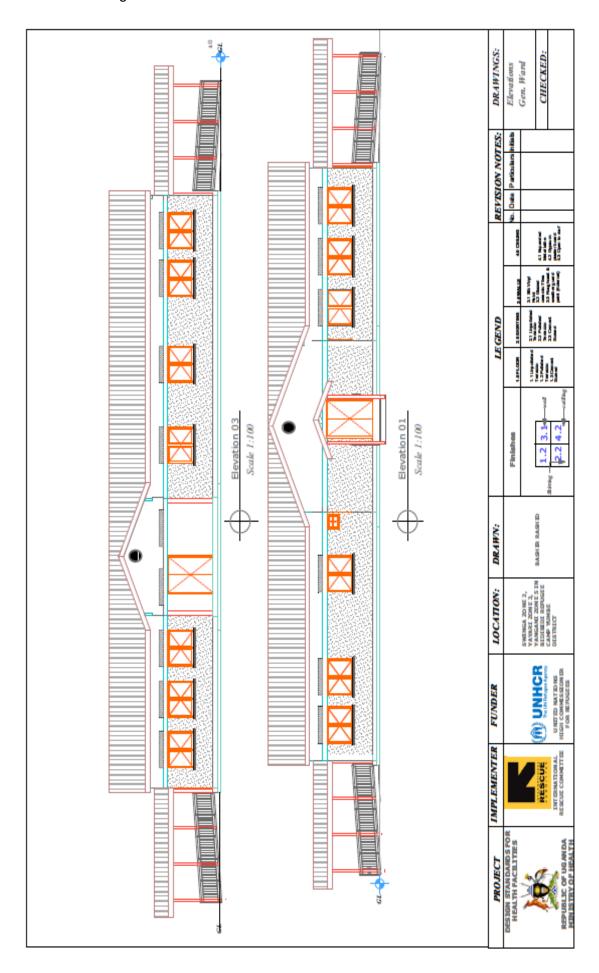
10.15	Galvanized steel supporting structure mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all accessories.	no	1		
	4Way SPN MCB Consumer Unit as	no			
10.16	MEM or equal approved.		1		
	1				
10.17	Charge Regulator with System voltage 12V / 24V DC, Max Module and Load Current of 12A, Article No. B01.548 as by Steca GmbH Memmingen (Germany) or equal approved.	no	1		
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		
	David Charle Maintanana Franc Calan				
10.19	Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved.	no	4		
					0/=
	Battery cable with fuse and	item			07
10.20	interconnecting cables to Consumer unit.		1		
10.21	Earth installation by 25mm ² PVC copper cables to copper electrode in manhole complete with all accessories.	item	1		
10.22	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		
10.23	Lighting points wired by 2.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all accessories.	no	10		
	ı		1	<u> </u>	1

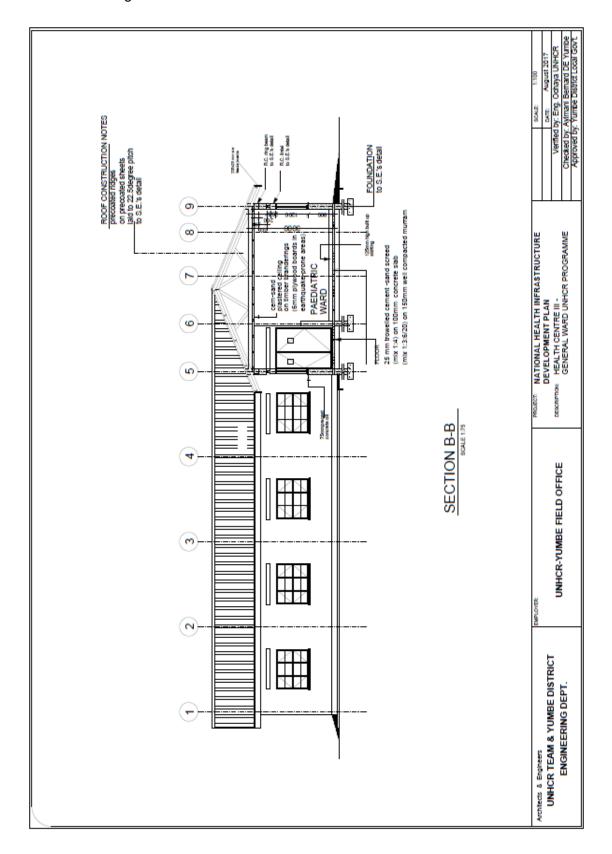
10.24	1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved (F2).	no	9	
	Total Carried to Collection			
10.25	1 x 18W 600mm single waterproof, surface mounted fluorescent light fitting with GRP body and acrylic diffuser, as Thorn or equal approved (F3).	no	1	
	1 gang 1 way 6A molded switch as MK	no		
10.26	or approved equal.		10	
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	
	12 A 2 gang flugh goalest autlat ag MV in	n o		
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 accessories as by FURSE or equal.	m	12	
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	
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 hugkats as annewed	no		
	10kg sand buckets as approved.	no	L	

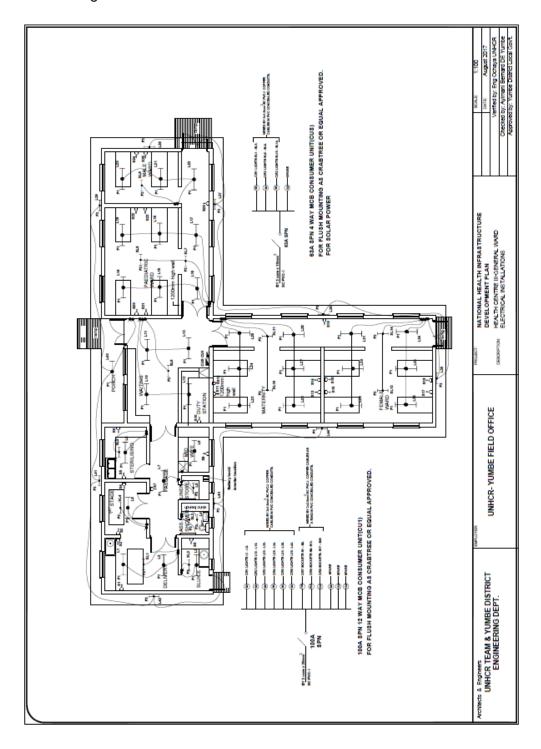
Construction of Health Centre HCIII

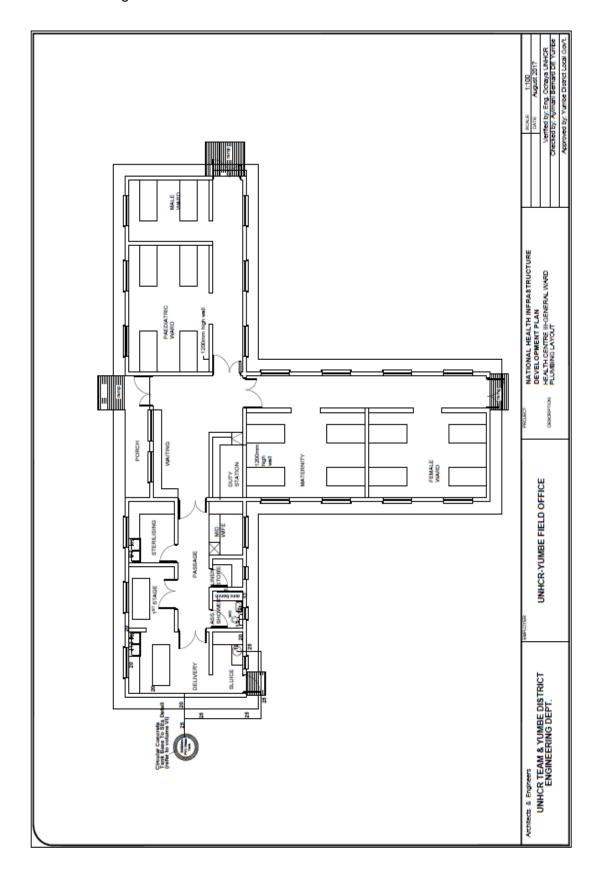
10.33		2		
	Total Carried to Collection			
	COLLECTION			
	COLLECTION			
	D 2/24 / 1/2 1			
	Page 3/24 (omit where solar power is			
	used)			
	Page 3/25			
	Page 3/26			
	TOTAL ELECTRICAL			
	INSTALLATION TO SUMMARY.			
	A WITHERITATION TO DOMINIMANT.		l	











Section	VII : Health Centre III : Out-Patients Dep	partmen	t : Bills o	of Quantities	5
Item	Description	Unit	Qty	Rate Ushs	Amount Ushs
	HEALTH CENTRE III				
	BILL NO. 2 : OUT-PATIENTS DEPARTMENT				
	SUMMARY				
1	SUBSTRUCTURE				
2	ROOF				
	EXTERNAL WALLS				
3	EXTERNAL WALLS				
	WINDOWS & EXTERNAL DOORS				
4					
5	INTERNAL WALLS & PARTITIONS				
6	INTERNAL DOORS				

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				

			1	1
	Excavation and Earthworks.			
	Note: Rates for excavation to include for			
	keeping excavations free from water and			
	planking and strutting to sides of			
	excavations			
		3		
Ĭ	Excavate to reduce levels and remove	m ³		
1.03	from site.		212	
	Excavate trenches for wall foundations:	m^3		
ì		m		
1.04	commencing from reduced levels: not		95	
	exceeding 1.5m deep.			
		2		
	Extra over excavation for excavating in	m^3		
1.05	rock		2	
		-		
	Disposal of excavated material		1	
	Selected excavated material in filling to	m ³		
1.00		111	5 0	
1.06	foundation trenches : around walling :		58	
	placed in 200mm layers : watered and			
	compacted to 95% MDD			
	compacted to se to 1122			
		2		
	Remove surplus excavated material from	m^3		
1.07	site		37	
	** *			
	Hardcore			
	150mm Filling: deposit, spread, level and	m ²		
1.00		111	105	
1.08	compact : 25mm selected quarry dust		135	
	blinding.			
	Insitu concrete grade 20 / 20mm aggregate	1		
	as described.			
	Foundations in trenches	m ³	1	
1.00	roundations in treffenes	111	12	
1.09			13	
	100mm thick ground floor slab tamped	m ²		
1 10		***	163	
1.10	to fabric reinforcement.		162	
		1		
			-	
	Total Carried to Collection			
	Total Callicu to Collection]

		ı	1	T	<u> </u>
I.	Reinforcement				
1.11 x	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		
S	Sawn formwork as described to:				
	Vertical edges of surface bed: over 75mm but not exceeding 150 mm high.	m	52		
<i>a 3</i>	Brickwork in burnt clay bricksin cement and sand mortar (1:3) mix,, with 25 x 3mm hoop iron strips laid horizontally every alternate course.				
1.13	230 mm thick walling.	m ²	122		
S	Sundries				
l.14 d	One layer 1000 gauge polythene sheet damp proof membrane: Under bed: 300mm laps.	m ²	162		
b	Damp proof courses: hessian based bituminous felt: bedded in cement and sand (1:4) mortar: 300mm laps.				
I.15	Horizontal : 230mm ditto	m	105		
7	DI:d				
<i>F</i>	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		
1.18 2 v	125mm (average) thick concrete class 25/18mm aggregate ramp reinforced with and including formwork and fabric mesh reinforcement ref A98 as before	m ²	2		
1.18 2 v	25/18mm aggregate ramp reinforced with and including formwork and fabric	m²	2		

		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.				
	751//				
	Ditto splash apron beam size 100 x	m			
1.21	150mm deep ditto		55		
	*				
	20 1111 (12)	2			
	38mm thick cement and sand (1:3)	m^2			
1.22	paving on splash apron wood float finish		38		
	D 1 1 41	2		+	+
	Prepare and apply three coats of black	m ²			
1.23	bituminous paint to plastered surfaces.		26		
	• •				
		1	+	+	
	Total Carried to Collection				
	E4				
	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				
		3			
	Excavate trenches for wall foundations:	m^3			
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		
1.20	Touridation trenenes as before described.		02		
				1	<u> </u>
	Remove surplus excavated material from	m^3			
1.26	site		26		
	~~~	<del>                                     </del>		+	+
<b></b>	1	<u> </u>	_	1	
	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			
1.0-	200 mm thick walling.	1111	00		
1.27			98		
	Insitu concrete grade 10 / 20mmaggregate				
	Thoma concrete grade 10 / 20 minuggiegale				

	•			
	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	
	<b>Total Carried to Collection</b>			
	Sawn formwork as described to			
1.35	Sides of Column bases	m ²	6	

## 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	
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	TOTAL SUBSTRUCTURE TO			
	SUMMARY			
	DOMANIA III			
		•		

		1	1	1	T 1
	ELEMENT NO. 2				
	ROOF				
	ROOI				
	N. T. 220 . 222				
	Note Items 2.20 to 2.23 are to be priced				
	only for areas that are with poor soil				
	bearing capacity.				
	Ingity concrete and 25 / 20mm				
	Insitu concrete grade 25 / 20mm:				
	Vibrated, reinforced as described				
	Ring beams	m ³			
2.01			2		
2,01			-		
	Military last framework and last it.				
	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	lzα			
2.02	o iniii diameter par	kg	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		9	220		
2.03					
	Sawn formwork as described to:				
	Sides and soffites of beams	$m^2$			
2.04			34		
2.07			5-1		

	-	1	1	T	
	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.		1		
		_	1		
	230mm Thick gable walling	m ²			
2.05			15		
	Finishes				
	Coment and sand (1.1) render on concrete				
	Cement and sand (1:4) render on concrete				
	or masonry				
	15mm to walls	$\mathbf{m}^2$			
2.06			15		
	Two coats tyrolene rendering on masonry				
	2 " o cours syroteme remaining on musumy		+		
	XX7.11	2	1		
	Walls and concrete surfaces	m ²			
2.07			15		
			1		
			1		
			1		
	Total Carried to Collection				
	Total Callieu to Collection		+		
	D 4.6		1		
	Roof Construction		1		
	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.				
	Sawn cypress pressure impregnated with				
<u></u>	preservative:-				
	7 No. Trusses span 8200mm x 1800mm				
	rise				
	1138		+		
	- 100 P -:				
	50 x 100mm Purlins	m			
2.08			192		
		1		1	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	
	Desiration			
	Painting			
	Knot prime stop and apply three coats of gloss oil paint to timber surfaces.			
	77			
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	I 1
	proof netting complete with all necessary				
	timber framing.				
	<u> </u>				
	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. 11. 11. 11. 11. 11. 11. 11. 11. 11	+	+		
	<u></u>	<u> </u>	-		
	Ring beams	$m^3$			
2.20			2		
	34'11 , 1 ' C , 1 '1 '1	+	+		
	Mild steel reinforcement as described.				
	8 mm diameter bar	kg			
2.21	o iiiii dianictei vai	ng	110		
2.21			110		
	High yield tensile steel bar reinforcement				
	4- DC 4440 - 1				
	to BS 4449 as described.				
	12 mm diameter bar	kg			
2.22		8	220		
4.44			220		
	Sawn formwork as described to:				
		2			
	Sides and soffites of beams	m ²			
2.23			34		
		1			
		1			
	<b>Total Carried to Collection</b>				
		+	+		
		1	-		
	COLLECTION	<u> </u>			
	-		1	<u> </u>	
	<u> </u>	1		1	
	Page 2/5				
	6	<u> </u>	1		
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	D. A.M.				
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		+			
<b> </b>		-			
		1			
	TOTAL DOOF CARRIED TO				
	TOTAL ROOF CARRIED TO				
	SUMMARY				
		+			
		+			
		1			
-		+			
	ELEMENT NO. 3	1			
		+			
	EXTERNAL WALLS				
	Note Items 3.08 to 3.11 are to be priced				
	only for areas that are with poor soil				
	bearing capacity.	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.				
	·				
	230mm thick walling.	m ²			
	230mm unck wannig.	1111_	00		
3.01			90		
	Permanent Vents				
	2 01 11000100 1 01000	+			
		1			
	Permanent Vent filled in with Kajjansi	$\mathbf{m}^2$			
	ventilation bricks or other equal and		4		
	approved; bat proof gauze and coffee				
ı I		1	1	İ	
	tray wire backing complete with				

	necessary timber framing and beading.			
	Metal work			
3.03	100mm Diameter x 3100mm Galvanized 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 U-plate welded on top end	no	8	
3.04	12mm diameter bolt with nut and washer including drilling 2 No. 14mm diameter holes	no	8	
	Cement and sand (1:4) render trowelled smooth on concrete or masonry			
3.05	15mm to walls.	m ²	104	
	Two coats tyrolene rendering on masonry			
3.06	Walls and concrete surfaces	m ²	104	
	Painting			
3.07	Prepare and apply three coats gloss oil paint on steel pipe support 200-300mm girth	m	24	
	Earthquake areas / Soils with poor bearing capacity.			
	Insitu concrete grade 25 / 20mm aggregate: vibrated reinforced.			
3.08	Columns	m ³	1	
	Total Carried to Collection			

		1	T	1	T
		<u></u>			
	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			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		8	130		
3.10			150		
	Sawn formwork as described to				
	Sides of Column	$m^2$			
3.11			23		
<b>U.11</b>					
			+		
			_		
	Total Carried to Collection				
	COLLECTION				
	Page 2/9				
				+	
		-		-	
		<u></u>			
	Page 2/10				
	<del>gv =-</del>	1			
		-			
	TOTAL EXTERNAL WALLS TO				
	SUMMARY				
	SOMMAKI	1		+	

		1	1		1
	ELEMENT NO. 4				
	WINDOWS & EXTERNAL DOORS				
	Community World				
	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.				
	<b>.</b>				
	150 220 111				
	150 x 230 mm high	m			
4.01			5		
	Proceed concrete and 25 / 20mm				
	Precast concrete grade 25 / 20mm				
	aggregate: units reinforced as necessary				
	and finished fair face on all exposed sides.				
	75 x 285 mm sunk weathered and	m			
4.02		111	1.5		
4.02	throated window seal		15		
	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.				
	······································	l	1	<u>I</u>	ı

				1	
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		
	<b>Total Carried to Collection</b>				
	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			

				T	1
	INTERNAL WALLS & PARTITIONS	1			
	Note Items 5.02 to 5.05 are to be priced				
	only for areas that are with poor soil				
	bearing capacity.				
	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			
F 01		111	105		
5.01	and including 25 x 3mm hoop iron strips		105		
	laid horizontally every alternate course				
	Earthquake areas / Soils with poor				
	bearing capacity.				
	bearing capacity.				
	I 25 / 20	1			
	Insitu concrete grade 25 / 20mm				
	aggregate: vibrated reinforced.				
	Columns	m ³			
5.02			1		
5.02			+		
	34'11 , 1 1 ' C , 1 '1 1				
	Mild steel rod reinforcement as described				
	including cutting to lengths, bending,				
	hoisting and fixing including all necessary				
	tying wire and spacing blocks.				
	7 0 1				
	8 mm diameter bar	kg			
E 02	o min diameter par	ng	20		
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.	1			
		<u> </u>			
	12 mm diameter bar	kg			
5.04			100		
	Sawn formwork as described to	1			
	Same Joint noin as acsortoca to	+			
	G:1 0.G 1	2			
_	Sides of Column	m ²			
5.05			4		
	1	1		1	1

		1		1	1
		1			
	TOTAL INTERNAL WALLS &				
	PARTITIONS TO SUMMARY				
		+	_		
		1			
		<u> </u>			
	ELEMENT NO. 6				
	INTERNAL DOORS	1			
	INTERNAL DOORS	1			
	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.				
	200 x 200 mm high	m			
6.01	200 A 200 Him High	111	10		
0.01		+	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.				
	Door type D4 size 900 x 2100mm high	no			
6.02	= 552 type = 1 Size > 50 in 2200 initial inight		2		
0.02		-			
	1	1			
	Match boarded door comprising 45 x				
	150mm top and bottom rails and stiles and				
1	25 x 100mm tongued and grooved, vee-				
1	jointed panels.				
	јониси ринењ.	1	_		
		1			
	45mm Door size 850 x 2075mm high	no			
6.03	( <b>D9</b> ).		5		
0.00					

	Wrot Mahogany: Selected and kept Clean				
	25 x 50mm Architrave: two labours	m			
6.04			52		
	50 x 150mm Door Frame: two labours:	m			
6.05	plugged.	111	26		
0.03	paggea.		20		
	Tuo vara ora orași				
	Ironmongery				
	Supply and fix the following ironmongery				
	of "UNION" Manufacture as described.				
	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	01110011		,		
	3 Lever Mortice Lock complete with	no			
<i>4</i> 00	lever furniture	no	_		
6.08	lever turniture		5		
	Ditto steel door lock	no			
6.09			5		
	Painting				
	Prepare Knot, Prime, stop and apply three				
	coats of gloss oil paint : on woodwork				
	7.5				
	General Surfaces : doors	m ²			
6.10	General Surfaces : doors	1	19		
0.10			17		
	D:44				
<i>(</i> 11	Ditto: over 200 but not exceeding 300mm	m	26		
6.11	girth		26		
	Total Carried to Collection				
	Ditto not exceeding 100mm girth	m			
6.12			52		
	Prime back of frame before fixing	m			
6.13	Time buch of frume before fining		26		
0.13			20		
	Dainting				
	Painting			1	

	n , 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	5 <b>-1-1-1</b>		8	
0.13			U	
	<b>Total Carried to Collection</b>			
	COLLECTION			
	COLLECTION			
	•			
	_			
	Page 2/14			
	D 445			
	Page 2/15			
	TOTAL INTERNAL DOORS TO			
	SUMMARY			

		1		1	, ,
	ELEMENT NO. 7				
	INTERNAL FINISHES				
	Floor Finishes				
	Cement and sand (1:4) screeds and				
	pavings : one coat: steel trowell finish :				
	laid on concrete				
	40 4h-i al	2	1		
	40mm thick paving.	m ²			
7.01		<u>L</u>	144		<u>                                      </u>
	125 v. 125mm payed alripting	***			
	125 x 125mm coved skirting	m			
7.02			103		
	Wall Finishes				
	wan rinisites				
	15mm thick to cement and sand plaster,	$m^2$			
7.03	steel trowell finish to walls.		357		
			+		
	Painting: 'Sadolin Paints' or equal and				
	approved.				
	D 1 1 1 1	2			
	Prepare and apply one undercoat and	m ²			
7.04	two finishing coats of matt vinyl paint to		357		
	plastered surfaces.				
	1	1			
	Ceiling Finishes				
	9 x 24 SWG galvanized expanded metal	m ²			
7 05	_	***	144		
7.05	lathing U-nailed to timber branderings	1	144		
	Cement and sand (1:4) pricking course to	m ²			
7.06	metal lathing		144		
7.00	metal fathing		144		
	12mm cement and sand plaster to ceiling	m ²			
7.07	Fg		144		
7.07		-	177		
		<u> </u>			
	Extra for 150 x 150mm thick cement and	m			
7.08	sand (1:3) cornice		115		
	SHILL (LIE) COLLIECT	1		1	

	Ceiling Structure				
	Cening Structure				
	Pressure impregnated sawn Cypress				
	1 8 71				
	50 x 50mm branderings	m			
7.09			285		
	50 x 100mm joists	m			
7.10			360		
	Painting				
	Prepare and apply three coats of first				
	and amulaion naint on				
	grade emulsion paint on:		1	1	
	Plastered ceiling	$\mathbf{m}^2$			
7.11			144		
/,11		-	144		
	Cornice: Over 100 but not exceeding	m			
7.12			115		
1.12	200mm girth.		115		
	Total Carried to Collection				
	Total Carried to Concetion				
	Earthquake areas				
	For Earthquake areas / Soils with poor				
	bearing capacity price the following items				
	in lieu of items 7.10 - 7.13.				
	we went of wellto 1.10 1.13.				
	6mm Thick internal quality plywood	$\mathbf{m}^2$			
7.13	nailed to branderings.		144		
,,10	Annea to Manatings		A 17	1	
		1			
	25 x 45mm Wrot Hardwood Cornice.	m			
7.14			115		
, v f					
	Total Carried to Collection				
		+			
	COLLECTION				
		1	1	-	
	Page 2/16				
	Page 2/16				

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Page 2/17			
1 agc 2/17			
TOTAL INTERNAL FINISHES TO			
SUMMARY.			
SUMMAK1.			
	1		
ELEMENT NO. 8			
	1		
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 aluminum 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			
	Service Haich			
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	1	
0.07	iii siau		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 blackboard 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	
	D # C			
	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 galvanized corrugated iron sheets: the whole with one coat red oxide primer	no	1	
	and three coats of gloss oil paint.			
	Total Carried to Collection			
	COLLECTION			
	Page 2/18			
	Page 2/19			
	Tage 2117			
	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.			

	T	1	1	T	<del> </del>
	Sanitary Appliances				
	18 Gauge Stainless Steel Sink as	no			
9.01	ARMITAGE SHANKS htm64 doon single bowl sink,S5861(5337014K)(SK-1),		4		
	no tap holes, no overflow, complete with				
	single nimbus 13mm bib tap,				
	S7206(661041G), anti-splash 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.				
	Come A combine Travel Doil with handleste				
9.02	60cm Acrylic Towel Rail with brackets, as ARMITAGE SHANKS MAYFAIR	no	4		
	S5014 (20811TR) or equal approved				
	Water Supply to Appliances				
	Water Supply to Appliances				
	25 mm class B cold water pipe, buried in	m	1_		
9.03	the ground, buried in wall, clipped to wall, or in duct complete with all fittings		5		
	and accessories.				
	20 mm class B cold water pipe,burried in	m			
9.04	the ground, buried in wall, clipped to	m	5		
	wall, or in duct complete with all fittings				
	and accessories.				
	12 mm class B cold water pipe, buried in	m			
9.05	wall, clipped to wall, or in duct, complete with all fittings and accessories.		10		
	with an fittings and accessories.				
0.03	12mm gate valves as Peglar heavy duty	no			
9.06	or equal approved.		2		
	20mm gate valves as Peglar heavy duty	no			
9.07	or equal approved.		1		
	25mm gate valves as Peglar heavy duty	no			
9.08	or equal approved.		1		
	Flexible tubes (stainless steel braid on	no			
9.09	PVC) for connection of appliances,	110	4		
	complete.				
			1		

			Total Carried to Collection	
			Total Carried to Concetion	
			Water Supply	
	1	no	6,000 litre pvc tank placed on ground concrete base (measured separately), complete with all accessories.	9.10
	1	no	25mm gate valves as Peglar heavy duty or equal approved.	9.11
			* **	
		Item	12mm Stand by nine complete with	
		Heili	12mm Stand by pipe, complete with	0.10
	1		12 12mm gate valve, tap and all accessories	9.12
	1	no	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.	9.13
			usove water tarmy completes	
_			I-4	
			Internal Drainage	
	30	m	38mm PVC heavy gauge pipes complete with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap.	9.14
			External Drainage	
			- J	
	20	m	110mm PVC heavy gauge pipework buried in the ground to a fall of 1:60 complete with excavations, bedding, backfilling and all accessories.	9.15
	2	no	Gully Trap (GT) complete with PVC trap, masonry construction 300x300mm, with steel cover and all accessories.	9.16
	1	no	Manhole 450 x 600mm in masonry brickwork, rendered smooth inside complete with benching, heavy duty	9.17
	20	m	with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap.  External Drainage  110mm PVC heavy gauge pipework buried 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.  Manhole 450 x 600mm in masonry brickwork, rendered smooth inside	9.15

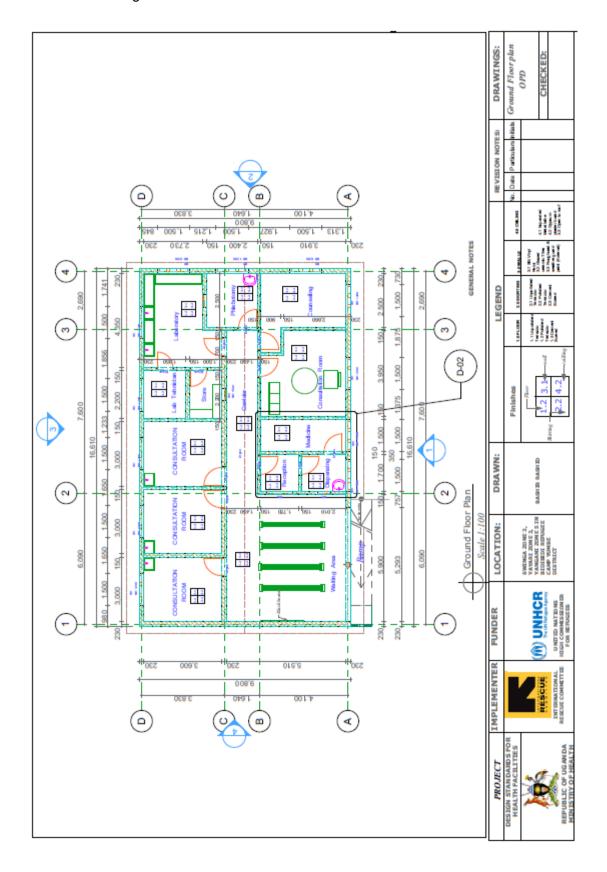
	manhole cover made out of concrete and			1	<u> </u>
	angles and all accessories.				
	angles and an accessories.				
	Soak Pit Size approx. 2500mm on top	no			
9.18	tapering to 1500mm and depth of		1		
	1500mm complete with hardcore and all				
	accessories.				
	Total Carried to Collection				
	COLLECTION				
	Page 2/20				
	9				
	Page 2/21				
	TOTAL MECHANICAL				
	INSTALLATION TO SUMMARY				
	ELEMENT NO. 10				
	ELECTRICAL INSTALLATION				
	Supply, install, connect and set to work the				
	following, all as described in the				
	Specifications and Drawings.				
	Power Supply				
	100A 6-Way SPN MCB Consumer Unit	no			
10.01	flush mounting complete with integral		1		
10.01	isolator, MCBs and all accessories as				
	MEM, CRABTREE or equal approved.				
	,				
	Supply Cable 16mm ² x 3core	m			
10.02	PVC/SWA/PVC Copper cables in 25mm	-	15		
	PVC concealed conduits complete with				
	terminations clipping and all accessories				
	from UEDCL meter to the consumer				
	Unit above.				
	1	<u> </u>		1	1

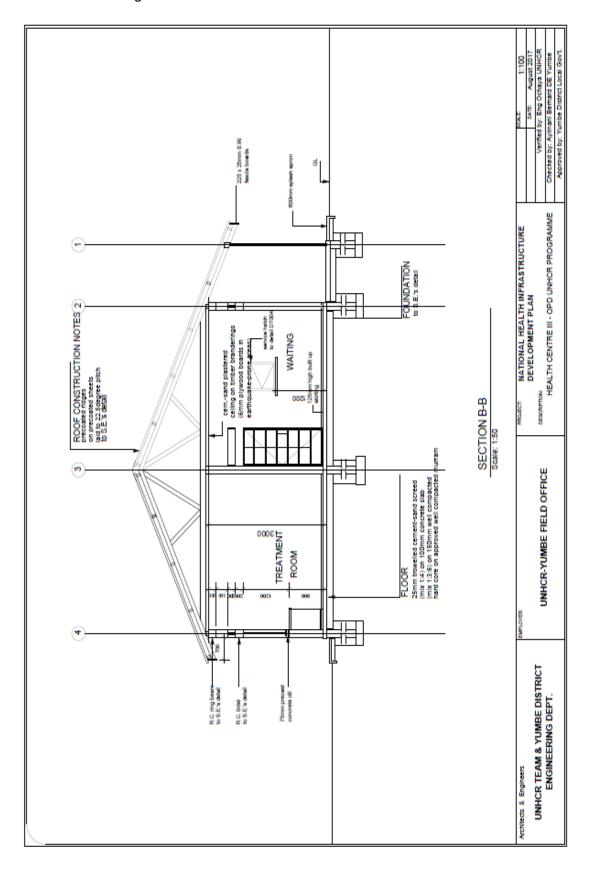
	Adaptable box to contain UEDCL meter	no		
10.03	and cutouts.		1	
	Main Earth at adaptable box by 25mm ²	item		
10.04	PVC copper cables to copper electrode in	Ittiii	1	
10.04			1	
	manhole complete with all accessories.			
	Provisional Sum for UEDCL Power	item		
10.05	Connections		1	
	Lighting			
	Lighting			
	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	110	13	
10.07	tube switch start and all accessories as			
	Thorn or equal approved.(F1)			
	1 1077 (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 molded switch as MK	no		
10.09	or approved equal.		16	
	Sockets			
		<b>n</b> o		
10.10	Socket outlet point wired by 2.5mm ² twin	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			
			<u> </u>	
	Colum Down on			
	Solar Power.			
	Solar Power Supply and Lighting			
			]	

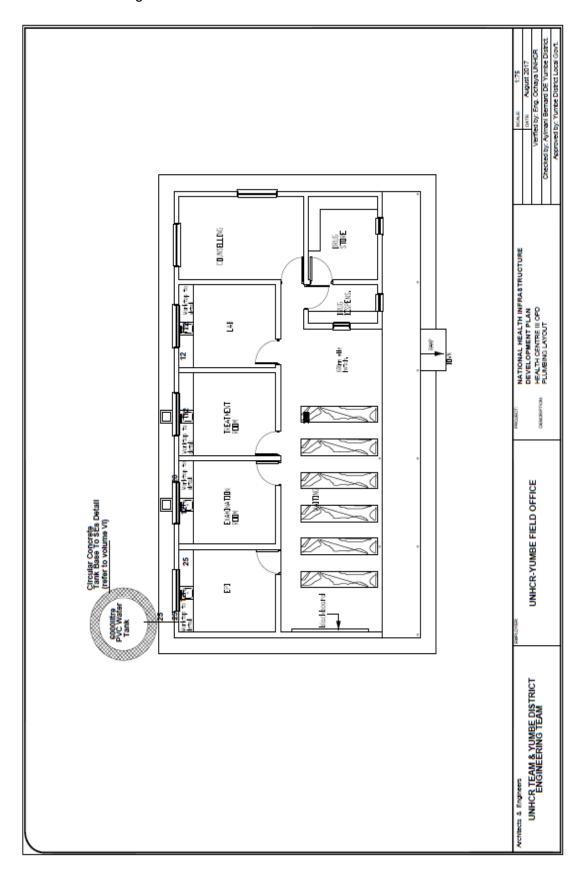
10.12	Solar Panel, with Peak power of 75W, Max.Current of 4.5A, Max. Voltage of 17V DC, Short circuit current of 4.8A, Open circuit voltage of 21.4V DC, as SIEMENS SP75, BP SOLAR BP 275 or equal approved.	no	4		
			4		
10.13	Galvanized steel supporting structure mounted above ground at an Optimum tilt angle to be determined by site location, complete with brackets and all accessories.	no	1		
	4777 GD3135GD G				
10.14	4Way SPN MCB Consumer Unit as MEM or equal approved.	no	1		
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.	no	1		
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.	no	1		
	of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th				
10.17	Deep Cycle Maintenance Free Solar Batteries, of 115AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved.	no	4		
	Battery cable with fuse and	item			
10.18	interconnecting cables to Consumer unit.		1		
10.19	Earth installation by 25mm ² PVC copper cables to copper electrode in manhole complete with all accessories.	item	1		
10.20	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		
		I	1	1	

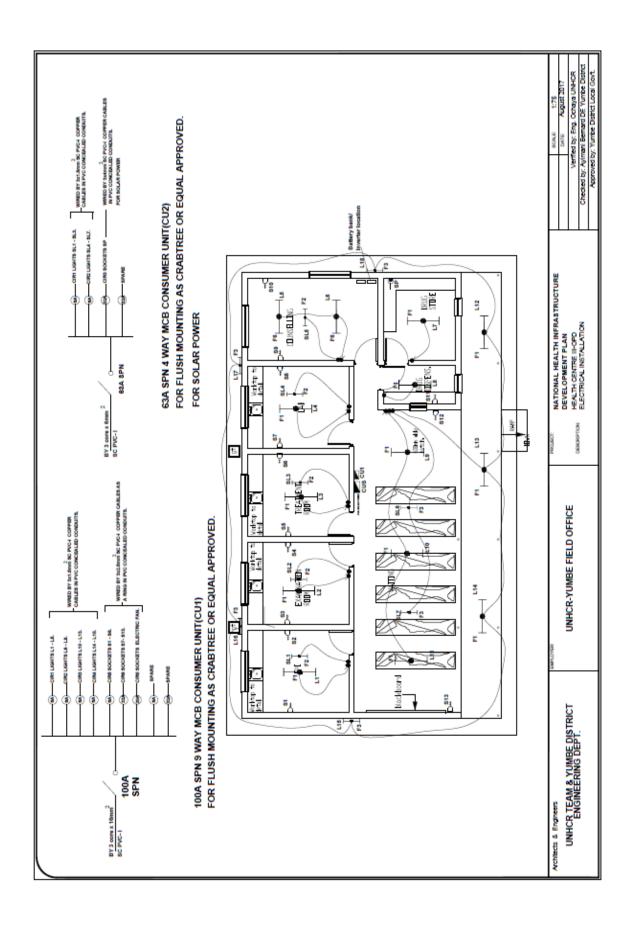
10.21	Lighting points wired by 2.5mm ² twin with earth PVC-I copper cables in 20mm pvc conduits complete with all accessories.	no	7		
10.22	1x18W 600mm single bare batten fluorescent fitting complete with daylight tube switch start and all accessories as Thorn or equal approved (F2).	no	7		
10.23	1 gang 1 way 6A molded switch as MK or approved equal.	no	7		
	Total Carried to Collection				
	Contrate				
	Sockets.		1		
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		
	124.2 (1.1.1.4.1.4.1.4.1.4.1.4.1.4.1.4.1.4.1.4				
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		
10.28	Test Blocks complete as by FURSE or equal.	no	2		
	- 4		†-		
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		
	Fine Fielding		1		
	Fire Fighting.		1		
		l		]	

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	_	_	_	-
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				

	TOTAL BILL NO. 1 : HEALTHC STAFF HOUSE CARRIED TO G						
	SUMMARY	LINLINA	<b>\</b>				
Ita	Description		l lm!4		Dete	America	
ltem	Description		Unit	Otre	Rate	Amount ) (UgShs)	
				Qty	(UgShs	, (ugana)	
	ELEMENT No. 4						
	ELEMENT No. 1						
	DDELIMINADIES AND SENES	A I					
	PRELIMINARIES AND GENERA	4L					

	ITEMS				
	TI EMO				
	General				
Α	The contractor must allow for costs				
A					
	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				
	Foncing		1		
В	Fencing	ITEM	1		
Ь	Immediately upon taking possession of the site, the	I I E IVI	I		
	contractor will be required to erect				
	fencing and gates for the security of				
	his materials, plant and stores				
	Storage				
С	The contractor must provide for the	ITEM	1		
	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				
	Program of works				
D	A program of works MUST be				
D	provided by the contractor				
	provided by the contractor				
	<b>Building Regulations</b>				
E	The whole of the works shall be				
	executed according to current				
	building regulations and to the				
	satisfaction of local authorities				
	Definitions and abbreviations		1		
F	The following definitions and	1			
-	abbreviations to denote the unit of				
	measurement, are used throughout				
	these bills of quantities				

	1		1	T	<del> </del>
	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		Rate	Amount
ILEIII	Description	Ollit	Otv		(UgShs)
			Qty	(UgShs)	(Ugons)
	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>				
Α	The contractor shall allow for a	ITEM			
	qualified and experienced foreman				
	FULL-TIME on site. The employer's				
	representative shall approve the				
	foreman				
	<u>Transport</u>				
D					
В	The contractor shall include in his				
	prices the transportation of				
	materials, workmen, plant and tools,				
	to and from site				
	<u>Samples</u>				
С	The contractor shall furnish, before				
	commencement of works any				
	samples or workmanship at his own				
	•	ı	1	1	1

	cost for approval by the Engineer				
	<u>Sanitation</u>				
D	The contractor shall provide onsite, the necessary latrines for his staff and workmen to the requirements and satisfaction of the health authorities	ITEM	1		
	Security				
E	The contractor shall adequately safeguard the site, works, materials and plant from theft and damage by vandals	ITEM	1		
	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				
Item	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
	Water				
G	The contractor shall provide for all the necessary water to execute the works at his own cost	ITEM	1		
Н	Site Meetings 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 ar after completion				
I	Work at or after completion The contractor shall allow for making good all damages				
	Sign Poords				
	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		
Total Carried to Collections 1/3				
COLLECTIONS  Total Carried to Collections 1/1				
Total Carried to Collections 1/2				
Total Carried to Collections 1/3				
TOTAL PRELIMINARIES & GENERAL ITEMS				
•	Unit	Qty	Rate (UgShs)	Amount (UgShs)
Site Preparation				
Excavate top vegetable soil average 150mm deep and cart to spoil	m ²	280		
Anti-termite treatment to : sides and bottoms of foundations	m²	330		-
Ditto: stripped surfaces of ground	m ²	280		-
Ditto : blinded surfaces of hardcore	m ²	145		-
	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  Total Carried to Collections 1/1  Total Carried to Collections 1/2  Total Carried to Collections 1/3  TOTAL PRELIMINARIES & GENERAL ITEMS Description  ELEMENT NO 1: SUBSTRUCTURE Site Preparation  Excavate top vegetable soil average 150mm deep and cart to spoil  Anti-termite treatment to : sides and bottoms of foundations  Ditto : stripped surfaces of ground	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  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 PRELIMINARIES & GENERAL ITEMS  Description  ELEMENT NO 1: SUBSTRUCTURE  Site Preparation  Excavate top vegetable soil average 150mm deep and cart to spoil  Anti-termite treatment to : sides and bottoms of foundations  Ditto : stripped surfaces of ground m²	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  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 PRELIMINARIES & GENERAL ITEMS  Description  Unit  ELEMENT NO 1: SUBSTRUCTURE  Site Preparation  Excavate top vegetable soil average 150mm deep and cart to spoil  Anti-termite treatment to : sides and bottoms of foundations  Ditto : stripped surfaces of ground  Ditto : blinded surfaces of hardcore m²	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  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 PRELIMINARIES & GENERAL ITEMS  Description  Unit Qty (UgShs)  ELEMENT NO 1: SUBSTRUCTURE  Site Preparation  Excavate top vegetable soil average 150mm deep and cart to spoil  Anti-termite treatment to: sides and bottoms of foundations  Ditto: stripped surfaces of ground  Ditto: blinded surfaces of hardcore m²

			1	
				-
	<b>Excavations and Earthworks</b>			
				_
				_
E	Excavate foundation trenches: not			
	exceeding 1.5m deep :	-		-
	commencing from stripped level	m³		
			80	
				-
F	Excavate column bases : not			
-	exceeding 1.5m deep :			_
		m ³		_
	commencing from stripped level	III.		
				-
				-
G	Extra over excavations : breaking	m ³		
	up rock met with in excavations		5	
				_
	Diamond of averaged materials			_
	<u>Disposal of excavated materials</u>			
				-
				-
Н	Return, fill and ram: selected			
	excavated materials around			_
	foundations: in 200mm layers	m ³		
	compacted to 95% MDD.		40	
	Compacted to 95 % WIDD.		40	
				-
	Surplus excavated material: Load			
	up, cart, deposit, spread and			-
	level on site where directed.	m³		
			40	
				_
	Eillinge			
	<u>Fillings</u>			
				-
				-
J	125mm Murram filling : well watered			
	and compacted to 95%			-
	MDD 95% : to make up levels under	m ²		
	floor bed		127	
	IIOOI DGU		141	
	<u> </u>			-
K	150mm Hardcore bed : in broken			

	-4		<u> </u>	
	stone blinded with and			-
	including 20mm layer of approved	m ²		
	blinding; under floor bed		127	
				-
L	Ditto : under splash aprons	m²		
_	Bitto : undoi opidon aprono		30	
			30	
				-
	Mass in-situ concrete class15/20mm			
	aggregate,			-
	[mix 1:3:6] : in			
				=
				-
М	Foundation in trenches	m ³		
141	1 Januarion in dictiones	***	23	
			23	
		-		-
	Mass in-situ concrete class			
	15/20mm aggregate,			-
	[mix 1:3:6] : in			
				-
				_
N	Ramp : size 5690 x 900 x 250mm	m ³		
IN		1111		
	thick (average)		1	
				-
0	100mm Floor bed	m ²		
			171	
				-
Р	75mm Splash apron bed	m²		
-	органия принятия		45	
		1		
•	75 v 405mm Concrete down story			-
Q	75 x 125mm Concrete down stand	m	75	
			75	
				-
				-
				_
		1		
				-

	1		1	1	I
					=
					-
					-
					-
					_
	Total Carried to Collection			Shs	
Item	Description	Unit		Rate	Amount
			Qty	(UgShs)	(UgShs)
				, ,	, ,
	Mild steel reinforcement to DC 4402				
	Mild steel reinforcement to BS 4483				
Α	Steel fabric mesh reinforcement ref				
	no. A98 weighing				
	1.58kg/m ² : in floor bed: including	m ²			
		''''	4=4		
	tying wire and distance blocks	1	171		
					-
	Plain in-situ concrete class				
	10/38mm aggregate[mix 1:4:8] : in				-
					-
В	50mm Blinding : to bottoms of	m ²			
_	excavations				_
	CAGGVALIONS				
					-
	Reinforced in-situ concrete class				
	25/20mm aggregate				_
	[mix 1:2:4]: in				
		1			_
					-
С	Column bases	m ³			
					_
		+			
					-
D	Stud columns	m³			
					-
		1			
_	0	2			-
E	Ground beams	m³			
		<u> </u>		<u>                                     </u>	-
					_
		1		<u> </u>	1

	112-1 - 2-1 17 21 (11		T 1		
	High yield tensile steel bar				
	reinforcement to BS 4461 as			-	
	described including cutting and				
	<u>16mm SWG (1.6mm),</u>			-	
	bending and fixing, tying wire and				
	spacer blocks			-	
				_	
F	12mm Diameter bars	ka			
	12mm Diameter Dars	kg			
				-	
				-	
	Mild steel bar reinforcement to BS				
	<u>4461</u>			-	
				-	
G	8mm Diameter bars	kg			
		1.9		_	
	0				
	Sawn formwork : to				
				-	
				-	
Н	Vertical sides: foundation bases	m ²			
				-	
				_	
ı	Ditto : columns	m ²			
•	Ditto : Goldiniio	1		_	
_				-	
J	Edges of bed : 75 - 150mm width	m			
			74		
				-	
K	Soffites of projecting edge of floor	m			
	bed: not exceeding 75mm girth		74		
	<u> </u>				
				_	
L	Vertical sides of ramp : average	m		-	
<b>-</b>		""	20		
	250mm wide cut to profile of ramp		20		
				-	
M	20 SWG Hoop iron wall tie 25mm				
	wide x 450mm long cast			-	
	75mm into concrete and built into	sum			
	joint of block walling		1		
	1,	1	1		

		1	•	1	1
	Foundation Walls				-
	I Odildation Walls				_
					_
					_
	Hard burnt clay bricks to BS 3921				
	(3.5N/mm ² compressive				_
	strength) bedded and jointed in				
	cement and sand (1:3)				_
	mortar.				
					_
					_
N	230mm Wall	m ²			
			112		
					-
					-
	Damp proof membrane				
					-
Р	1000 Gauge polythene sheet damp				
-	proof membrane : in one layer				_
	with 300mm end laps: laid on	m ²			
	blinded hardcore (m/s)		171		
	Total Carried to Collection			Shs	
Item	Description	Unit		Rate	Amount
	•		Qty	(UgShs)	(UgShs)
					, ,
	Horizontal Damp proof course :		1		
	hessian based bitumen felt :				
	lapped 150mm on ends laid on				
	cement and sand (1:3) mortar				
	bed				
Α	230mm Wide : laid under walls	m			

			1440	
			112	
				-
	150mm Wide : laid under walls	m		
			20	
				-
	Plinth finishes			
				-
				-
В	15mm Cement and sand (1:3) render	m ²		
	: steel trowelled smooth		60	
С	Prepare and apply three coats			
C				
	bituminous or other approved	2		-
	water resistant paint to : rendered	m ²		
	plinth walls		60	
				-
	Maintenance for excavations			
				-
				-
D	Allow for upholding and	sum		
	maintaining sides of excavations		1	
	<b>J</b>			
				_
Е	Allow for keeping excavations free	sum		
_	from surface water	Juin	1	
	Trom surface water		<del>  •</del>	
	Overlite: Comtrol		+	
	Quality Control			
		sum		
F	Tests (GCC Clause 32)			
G	Project sign post (bill board) with	sum		
	clear writing of subproject name			
	Environmental Mitigation			
Н	Planting 50 (Fifty) tree seedlings of	nr.		
''	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				
					_
ı	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	m ²			-
	END OF SUBSTRUCTURE	+			
		1			
		+			
	Total Carried to Collection			Shs	
Item	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
	COLLECTION				
	Page No. 6/33				

Page No. 8/33  Page No. 8/33  Page No. 8/33			
	Page No. 7/33		
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	Page No. 8/33		

	T		1	I	
	TOTAL ELEMENT NO 4				
	TOTAL ELEMENT NO.1				
	SUBSTRUCTURES CARRIED TO				
	BILL SUMMARY				
•					
Item	Description	Unit		Rate	Amount
			Qty	(UgShs)	(UgShs)
	ELEMENT NO 2 : BUILDING FRAME			, ,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	LLLIVILINI NO 2 . BUILDING FRAIVIL				
	Reinforced in-situ concrete class				
	25/20mm aggregate,				
	[mix 1:2:4]: in				
	[IIIIX 1.2.4]. III				
Α	Ring beam	m ³			
			8		
					=
В	Columns	m ³			
					_
					-
	High yield tensile steel bar				
	reinforcement to BS 4461 as				-
	described including cutting to	<u> </u>			
	lengths handling beloting to				
	lengths, bending, hoisting	1			-
	and fixing including all necessary				
	tying wire and spacing				-
	blocks.				
	NICONO.				
					-
					-
С	12mm Diameter bars	kg			
	in Diamotor Daro	.,a	502		
			302		
					-
		•	-		

Mild steel bar reinforcement to BS 4461  -			+	1	
D 8mm Diameter bars kg 235  Sawn formwork: to		Mild steel bar reinforcement to BS			
Sawn formwork: to  Sawn formwork: to  Sides and soffites: beams  F Vertical sides: columns  F Vertical sides: columns  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 throated  F Sundries  A 235		<u>4461</u>			-
Sawn formwork: to  Sawn formwork: to  Sides and soffites: beams  F Vertical sides: columns  F Vertical sides: columns  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 throated  F Sundries  A 235					
Sawn formwork: to  Sawn formwork: to  Sides and soffites: beams  F Vertical sides: columns  F Vertical sides: columns  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 throated  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					_
Sawn formwork: to  Sawn formwork: to  Sides and soffites: beams  F Vertical sides: columns  F Vertical sides: columns  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 throated  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum	<u> </u>	8mm Diameter hars	ka		
Sawn formwork: to  Sawn formwork: to  Sides and soffites: beams  F Vertical sides: columns  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 throated  F Sundries  A 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into	D	onini Diameter Dars	ng	225	
E Sides and soffites: beams m² 88  F Vertical sides: columns m²  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 throated m 16  Sundries  B Sundries  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum				235	
E Sides and soffites: beams m² 88  F Vertical sides: columns m²  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 throated m 16  Sundries  B Sundries  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					
E Sides and soffites: beams m² 88  F Vertical sides: columns m²  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 throated m 16  Sundries  B Sundries  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					-
E Sides and soffites : beams m² 88  F Vertical sides : columns m² -  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 throated m 16  Sundries -  B 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast -  T5mm into concrete and built into sum		Sawn formwork: to			
F Vertical sides : columns					_
F Vertical sides : columns					
F Vertical sides : columns					
F Vertical sides : columns			<u> </u>		
F Vertical sides : columns m²	E	Sides and soffites : beams	m²		
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 throated  -  Sundries  -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum				88	
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 throated  -  Sundries  -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					
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 throated  Fair on exposed surfaces: bedded and jointed in cement and and throated					_
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 throated  -  Sundries  -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum	F	Vertical sides : columns	m ²	_	
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 - sand (1:4) mortar - Sand throated		vertical sides . Columns	'''	_	
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 throated 16  Sundries  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					-
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 throated 16  Sundries  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					
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 throated 16  Sundries  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					-
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		Precast concrete : class 25/(12mm			
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 throated  M 16  Sundries  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into					_
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 throated  -  Sundries  -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into  sum					
fair on exposed surfaces: bedded and jointed in cement and sand (1:4) mortar - Sand (1					
and jointed in cement and sand (1:4) mortar - Sand (1:4) mortar - Sand (1:4) mortar - Sand (1:4) mortar - Sund throated m 16 - Sundries - Sundries - Sundries - T5mm into concrete and built into sum - Sundries - T5mm into concrete and built into sum					-
Sand (1:4) mortar  G 325 x 75mm Cill : sunk, weathered and throated  Sundries  -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					
G 325 x 75mm Cill : sunk, weathered and throated		and jointed in cement and			-
G 325 x 75mm Cill : sunk, weathered and throated		sand (1:4) mortar			
G 325 x 75mm Cill : sunk, weathered and throated -  Sundries -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast - 75mm into concrete and built into sum					_
G 325 x 75mm Cill : sunk, weathered and throated -  Sundries -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast - 75mm into concrete and built into sum					
G 325 x 75mm Cill : sunk, weathered and throated -  Sundries -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast - 75mm into concrete and built into sum					
and throated 16  Sundries  -  Bundries  -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast - 75mm into concrete and built into sum					-
Sundries  Sundries  -  Bundries  -  -  H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast  75mm into concrete and built into sum	G	325 x 75mm Cill : sunk, weathered	m		
H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into		and throated		16	
H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into					
H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into					_
H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into		Sundrine			
H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum		Sundites			
H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					-
H 20 SWG Hoop iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into sum					
wide x 450mm long cast - 75mm into concrete and built into sum					-
wide x 450mm long cast - 75mm into concrete and built into sum	Н	20 SWG Hoop iron wall tie 25mm			
75mm into concrete and built into sum	= =	wide x 450mm long cast			_
		75mm into concrete and built into	cum		
joint of block wailing			Sulli		
		Joint of block wailing		1	
			<u> </u>		
				+ +	

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			1		
			†		
	TOTAL FLEMENT NO C /DUM DING		+		
	TOTAL ELEMENT NO.2 (BUILDING FRAME)				
	CARRIED TO BILL SUMMARY				
Item		11 14		Data	Amount
		I Init		Pata	
iteili	Description	Unit	04.4	Rate	
iteili	Description	Unit	Qty	(UgShs)	(UgShs)
iteili	Description	Unit	Qty		
пеш	-	Unit	Qty		
iteili	ELEMENT NO 3 : WALLS	Unit	Qty		
iteili	ELEMENT NO 3 : WALLS	Unit	Qty		
iteili	ELEMENT NO 3 : WALLS  Hard burnt clay bricks to BS 3921	Unit	Qty		
nem	ELEMENT NO 3 : WALLS  Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive	Unit	Qty		
nem	ELEMENT NO 3 : WALLS  Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive	Unit	Qty		
nem	ELEMENT NO 3 : WALLS  Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in	Unit	Qty		
nem	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)	Unit	Qty		
item	ELEMENT NO 3 : WALLS  Hard burnt clay bricks to BS 3921 (3.5N/mm² compressive strength) bedded and jointed in	Unit	Qty		
	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.		Qty		
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)	m ²			
	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.		Qty 322		
	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.				
	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	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.  230mm Wall	m ²			(UgShs)
	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.		322		(UgShs)
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.  230mm Wall	m ²			(UgShs)
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.  230mm Wall	m ²	322		(UgShs)
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.  230mm Wall	m ²	322		(UgShs)
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.  230mm Wall	m ²	322		-
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.  230mm Wall  Allow for labour and materials for	m ²	322		-
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.  230mm Wall  Allow for labour and materials for eaves filling in 230mm walls:	m ²	322		-
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.  230mm Wall  Allow for labour and materials for	m ²	322		-
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.  230mm Wall  Allow for labour and materials for eaves filling in 230mm walls:	m ²	322		-

-					
					-
	150mm Hard burnt clay vent bricks		1		
	to BS 3921 (3.5N/mm ²				_
				1	
	compressive strength) bedded,				
	jointed and pointed in cement				-
	and sand (1:3) mortar in				
					-
					_
D	Vent : size 230 x 450mm	nr			
	Volice College Zoo X roomini		6		
			-		
					-
	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				
	and Jana (110) mortal m				_
					_
					-
E	Allow for the Construction of a fire				
	place to Architects detail				-
	including flue pipes, chimney	sum			
	stacks				-
					_
F	Allow for the Construction of				
•	Wardrobes to Architects Detail				
					-
	including				
	shelves, shutters and locking	sum			
	devices				-
			<del>                                     </del>		
				1	
				<u>                                     </u>	
		1	<u> </u>		

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			ļ		
	TOTAL ELEMENT NO.3 (WALLS)				
	CARRIED TO BILL SUMMARY		1		
140.00		Unit	1	Doto	Amarint
ltem	Description	Unit	01	Rate	Amount
			Qty	(UgShs)	(UgShs)
	ELEMENT NO 4 : ROOF				
	Structural timbers:				
	Structural timbers.				
	Sawn cypress or other approved:				
	pressure impregnated				
	with Tanalith or other approved				
	The following in 14No. Truss :				
	6460mm clear span x 1670mm				
	rise : nailed together, hoisted and				
	tivad 2 0m abaya graund				
	fixed 3.0m above ground	+		i .	ĺ
A	150 x 50mm Rafter	m			
A		m	124		
A		m	124		
A		m	124		
	150 x 50mm Rafter		124		-
		m			-
A B	150 x 50mm Rafter		124		-
	150 x 50mm Rafter				-

С	150 x 50mm Tie beam	m	100	
	IF a d of 4 days. Traces			
	[End of 14no. Truss]			-
D	75 x 50mm Purlins	m		-
	75 X 30mm r urms		320	
E	100 x 50mm Under Purlins	m		-
F	100 x 75mm Wall plate	m	75	

				•	
	TOTAL ELEMENT NO 4 (DOOF		+		
	TOTAL ELEMENT NO.4 (ROOF				
	STRUCTURE)				
	CARRIED TO BILL SUMMARY				
Item	Description	Unit		Rate	Amount
	·		Qty	(UgShs)	(UgShs)
				(-3/	(-3/
	ELEMENT NO 5 : WINDOWS	-			
	ELEMENT NO 3: WINDOWS				
	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				
	wans				
	Win Jan 2:- 2 W/4 4500 or 4500 mm				
Α	Window size W1 1500 x 1500mm				
	high overall : comprising 300mm				
	high steel louvred vent for full width				
	: 2No side hung opening sash				
	size 500 x 1200mm : all divided in	nr			
	panes 0.1 - 0.5mm ² .		8		
					_
В	Ditto but Window W2 size : 600 x	nr			
Ь		'''	8		
	1000mm high overall : comprising		0		
	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				
					-
С	Ditto but Window size W7pv : 900 x	nr			
-	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 -	j		1	

	0.5mm2		<del></del>	
	0.5111112			
				-
D	Ditto but window W9pv size 600 x	nr		
	600mm high			-
				-
	Iron mongery and matching fixings			
				-
				-
Е	Fastener	nr		
			24	
				_
F	Stay	nr		
•	Stay	'''	24	
			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	m ²		
••	(measured flat both faces)		46	
	(ododiod nat both idoos)		10	
				_
	Propaga touch up primar and apply			
	Prepare touch up primer and apply one coat undercoat and			
	one coat undercoat and	]		

	tue finishing seats of place all point			
	two finishing coats of gloss oil paint			
	: on concrete	1		-
				-
I	Window Cills : 325 x 75mm average	m		
			16	
				_
	Cement and sand (1:4)			
	Comont and Sand (1.4)			_
	45 Plantanta nova da a successione			
J	15mm Plaster to reveals : average			
	200 - 300mm wide: steel			-
	trowelled smooth	m		
			57	
				-
	Prepare and apply three coats			
	weather guard emulsion			_
	paint : to			
	paint : to			_
				<del>-</del>
K	Plastered surfaces of reveals 200 -	m		
	300mm wide : external		28	
				-
	Prepare surfaces: apply three coats			
	vinyl silk soft white			-
	emulsion paint: on steel trowelled			
	plaster: to			_
	pidotori to			
	Diseased surfaces of versals 000			-
L	Plastered surfaces of reveals 200 -	m		
	300mm wide : internal		28	
				-
	Curtain Boxes			
				-
				_
М	Pelmet box comprising 150 x 25mm	m		
'*'	Fascia, 125 x 25mm top 150 x 125 x	'''	22	
	25mm stopped ends jointed			
	together, complete with and			
	including I-section aluminium			
	curtain rail with rollers			

	I		1	1	
	TOTAL ELEMENT NO.5 (WINDOWS)				
	CARRIED TO BILL SUMMARY				
Item	Description Description	Unit		Rate	Amount
ittiii	Description		Qty	(UgShs)	(UgShs)
				(-9)	(-9)
	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.				
_	Door time D4: 45 mm accoment time				
Α	Door type D1: 45mm casement-type door and frame : size 1000 x	nr	4		
			4		
	2400mm high overall : comprising				
	300mm high steel louvred vent for full width: double door shutter size				
	500 x 2100mm high				
	David was DO 45 www Madallia as I'll				-
	Door type D2: 45mm Metallic solid	nr	1		
	door and frame : size 900 x 2400mm		4		
	high overall : comprising 300mm				
	high steel louvred vent for full width				
	: door shutter size 900 x 2100mm				
	high				
	150 155				-
	150 x 45 Frames in selected				
	hardwood kept clean for stained finishes				_
	- Innones				
В	Frame size 900 x 2400mm high with	nr			-
	50 x 15 door stop and transom		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	10	
			12	
				-
	Knot prime stop and apply one coat			
	undercoat and two			-
	finishing coats gloss oil paint on			
	wood			-
D	Wooden surfaces	m ²		-
0	Wooden surfaces	'''	61	
				-
Е	Prepare touch up primer and apply			
	one undercoat and two			-
	finishing coats of gloss oil paint:	m ²		
	glazed metal doors		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	nr		-
Г	appropriately screwed to walls of	nr	24	
	floors			
				-
G	Steel casement locks	nr		
			8	
Н	Mortice locks	nr		-
"	WOITICE IOCKS	nr	16	
			1.0	
				-
				-
	Cement and sand (1:4)			
				-
1	15mm Plaster to reveals : average		+ +	-
•	13111111 Flaster to reveals . average			

	200 - 300mm wide: steel				-
	trowelled smooth	m			
			138		
					-
	Prepare and apply three coats				
	weather guard emulsion				-
	paint : to				
					-
					-
J	Plastered surfaces of reveals 200 -	m			
	300mm wide : external		69		
					-
	Prepare surfaces: apply three coats				
	vinyl silk soft white				-
	emulsion paint: on steel trowelled				
	plaster: to				-
					-
K	Plastered surfaces of reveals 200 -	m			
	300mm wide : internal		69		
					-
	Prepare and apply three coats of				
	polyurethane lacquer: on woodwork				-
					-
М	General surfaces of pelmet boxes	m ²			
	•		7		
	TOTAL ELEMENT NO.6 (DOORS)				
	CARRIED TO BILL SUMMARY				
Item	Description	Unit		Rate	Amount
пеш	Description	Unit	Qty		
			QLY	(UgShs)	(ogona)
	FI EMENT NO 7 - FI OOD ENVOYED		-		
	ELEMENT NO 7 : FLOOR FINISHES				
	Cement and sand (1:4)				
Α	30mm thick paving	m ²			
			141		

				1
В	100 x 25mm Skirt : square top and	m		
	coved junction at bottom			
	Propare curfaces: apply three coats			
	Prepare surfaces: apply three coats			
	vinyl silk soft white			
	emulsion paint: on steel trowelled			
	plaster: to			
С	General surfaces : 75 - 150mm	m		
	width in skirting	•••		
	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;			
	Joinett, Joo x Joo x 10 IIIII tiller,			
A 4	To flagge and constitutions and	2		
<b>A</b> 1	To floors and verandas generally;	m ²		
			141	
A2	Ditto but non-slip type for	m ²		
	bathrooms		8	
B1	To ekirtinge, 100 mm high and			
ы	To skirtings; 100 mm high and	m	400	
	10mm thick		196	
	Ceiling Finishes			
	Sawn cypress or other equal			
	approved including necessary			
	suspension system: well seasoned			
	cellcured: selected and kept clean			
D	100 x 50 ceiling battens at	m		
	perimeter, plugged		246	
			<del>  - · •   -</del>	<u> </u>
	Calling brondering 400 v 50 vvv			
E	Ceiling brandering 100 x 50 mm	m		
	members one way set into timber		389	
	truss and tie members and 100 x 50			
	members at 600 centres other way			
				_
F	Supply and fix 600 x 600 mm access	nr		
•		'''	1	
	panel with sides cut bavelled to		4	
	45 degrees and fixed on and			

				1	
	including painting to all exposed surfaces				-
					_
G	9 x 24 SWG galvanized expanded metal lathing U-nailed to timber branderings	m²	144		
Н	Cement and sand (1:4) pricking course to metal lathing	m ²	144		-
					_
I	12mm cement and sand plaster to ceiling	m ²	144		-
J	Extra for 150 x 20mm thick cement and sand (1:3) cornice	m	246		-
J	Prepare and apply three coats of	m ²			-
	plastic emulsion paint plastered ceiling	""	144		
					_
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)				
A	20mm Render in two coats : wood float finished first coat and final coat tyrolean (rough cast) finish	m²	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				-
С	Rendered surfaces : walls	m²	154		-
	Prepare and apply three coats bituminous paint on				-
D	Skirt	m	80		-
	Internal wall finishes				-
	Cement/lime putty/sand (1:2:9):				-
E	15mm Plaster to : Walls and Concrete surfaces : steel				-
	trowelled smooth.	m²	544		

## Construction of Health Centre HCIII

		ı	1		
					-
	Prepare surfaces: apply three coats				
	vinyl silk soft white				_
	emulaian paint: an ataal trawallad				
	emulsion paint: on steel trowelled				
	plaster: to				-
					_
_	<u> </u>	-			-
F	Walls and concrete surfaces	m ²			
	internally		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;				
	Tarrella of Otana and O. 4. 11. 1	2		<del> </del>	<u> </u>
G	To walls of Stores up to 2.1m high	m ²			
			15		
				1	
Н	Provide and fix marble plaque size	No.			
	600mm x 600mm engraved with		1		
			•		
	writings (wordings shall be issued				
	to the contractor by the project				
	manager)				
				<del> </del>	<u> </u>
				+	+
				1	
	I and the second	1	1	1	1

	TOTAL ELEMENT NO.8 (WALL FINISHES)				
	CARRIED TO BILL SUMMARY				
ltem	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
	ELEMENT NO 9 : ROOF FINISHES				
	Prime grade joinery timber: wrot pine				
Α	205 v 20mm Fassis and Laws I.				
Α	225 x 20mm Fascia and barge board	m	89		
	20 Cours was costed building		-		
	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	Roof covering	m ²			
	Nooi covering	111	235		
С	Matching ridge caping	m	27		
	Knot prime stop and apply one coat undercoat and two				
	finishing coats gloss oil paint on wood				
D	Surfaces 200 - 300mm girth : fascia and barge boards	m	89		
	I and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	1	1	1	1

## Construction of Health Centre HCIII

		1	-		
	TOTAL ELEMENT NO.9 (ROOF	1			
	FINICHES				
	FINISHES)				
	CARRIED TO BILL SUMMARY				
Item	Description	Unit		Rate	Amount
	•		Qty		
	ELEMENT NO 40 - BOOK WATER			(5955)	(2900)
	ELEMENT NO 10 : ROOF WATER				
	DRAINAGE				
	Supply and fix : rainwater disposal				
	system				
	<u>ayatem</u>				

	uPVC Gutter to BS 4576			
	<u></u>			
Α	110mm Streamline gutter complete with gutter unions fascia			
	clips for fixing to fascia	m	53	
	Extra over gutter for :			
В	110mm Gutter angles	nr		
_	440,000 0100 00010			
С	110mm Stop ends	nr	4	
			4	
D	110 x 75mm Gutter outlets	nr		
	Tro x romm duttor duttots		4	
	uPVC Down pipe to BS 4576			
E	80mm Diameter rain water down			
	pipe : clipped to walls with			
	approved holder bats	nr	4	
	Future every device vive for .			
	Extra over down pipe for :			
F	Bend : 80mm x 90°.	nr	+	
	Bena . Bonnin x 90 .	- "	24	
G	100mm Shoe	nr		
			4	
	The following in 2No 5,000L			
	rainwater storage tank			
	Toulshand			
	Tank base			
Н	Everyote ten vegetable seil everere	m ²		
П	Excavate top vegetable soil average 150mm deep and cart to spoil	'''-	18	
	Toomin deep and eart to spon		10	
ı	Anti-termite treatment to : sides and	m ²		
-	bottoms of foundations		28	
J	Ditto: blinded surfaces of hardcore	m ²		
			12	

Excavate foundation trenches: not				
	m ³			
commonents from empped to te		6		
				_
Return, fill and ram : selected				
	m 3			-
compacted to 95% MDD.	m°	2		
				_
Surplus excavated material : Load up, cart, deposit, spread and				_
level on site where directed.	m ³	4		
				-
125mm Murram filling : well watered and compacted to 95%				_
MDD 95%: to make up levels under floor bed	m ²	12		
				_
150mm Hardcore bed : in broken stone blinded with and				-
including 20mm layer of approved blinding; under floor bed	m²	12		
				-
Plain concrete class 15/20mm aggregate, (mix 1:3:6) in :	m³	2		
foundation in trenches				-
				_
Ditto: 100mm Floor bed	m ²	18		
Total Carried to Collection				
	exceeding 1.5m deep: commencing from stripped level  Return, fill and ram: selected excavated materials around foundations: in 200mm layers compacted to 95% MDD.  Surplus excavated material: Load up, cart, deposit, spread and level on site where directed.  125mm Murram filling: well watered and compacted to 95%  MDD 95%: to make up levels under floor bed  150mm Hardcore bed: in broken stone blinded with and including 20mm layer of approved blinding; under floor bed  Plain concrete class 15/20mm aggregate, (mix 1:3:6) in: foundation in trenches	exceeding 1.5m deep:  commencing from stripped level  Return, fill and ram: selected excavated materials around foundations: in 200mm layers compacted to 95% MDD.  Surplus excavated material: Load up, cart, deposit, spread and level on site where directed.  m³  125mm Murram filling: well watered and compacted to 95%  MDD 95%: to make up levels under floor bed  150mm Hardcore bed: in broken stone blinded with and including 20mm layer of approved blinding; under floor bed  Plain concrete class 15/20mm aggregate, (mix 1:3:6) in: foundation in trenches	exceeding 1.5m deep:  commencing from stripped level  Return, fill and ram: selected excavated materials around foundations: in 200mm layers compacted to 95% MDD.  Surplus excavated material: Load up, cart, deposit, spread and level on site where directed.  125mm Murram filling: well watered and compacted to 95% MDD 95%: to make up levels under floor bed  12  150mm Hardcore bed: in broken stone blinded with and including 20mm layer of approved blinding; under floor bed  Plain concrete class 15/20mm aggregate, (mix 1:3:6) in: foundation in trenches  Ditto: 100mm Floor bed  m²  m³  2	exceeding 1.5m deep:  commencing from stripped level  Return, fill and ram : selected excavated materials around foundations: in 200mm layers compacted to 95% MDD.  Surplus excavated material : Load up, cart, deposit, spread and level on site where directed.  125mm Murram filling : well watered and compacted to 95% MDD 95% : to make up levels under floor bed  12  150mm Hardcore bed : in broken stone blinded with and including 20mm layer of approved blinding ; under floor bed  Plain concrete class 15/20mm aggregate, (mix 1:3:6) in : foundation in trenches  Ditto : 100mm Floor bed  m²  plitto : 100mm Floor bed  m²  m³  2

A	Sawn form work to : edges of bed : 75 - 150mm width	m	14		
					-
В	230mm Wall : built to a radius of 1.07m : in hard burnt clay bricks				-
	bedded and jointed in cement and sand (1:4) mortar	m²	8		
С	15mm Cement and sand (1:4) render	m ²			-
	: steel trowelled smooth	""	8		
					-
D	5,000 Litre HDPE water tank	nr	2		
					-
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				
	Page No. 18/33				
	Page No. 19/33				

## Construction of Health Centre HCIII

TOTAL ELEMENT NO.10 (ROOF WATER DRAINAGE) CARRIED TO BILL SUMMARY  Item Description Unit Qty (UgShs)  ELEMENT NO.11: LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing  A Inspection chamber: size 300mm x		T		1	ı	1
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing			+			
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
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WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing			1			
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
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WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
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WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
WATER DRAINAGE)  CARRIED TO BILL SUMMARY  Item  Description  Unit  Rate (UgShs)  ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
CARRIED TO BILL SUMMARY						
Item   Description   Unit   Qty   Rate (UgShs)   (UgShs)			1			
ELEMENT NO 11 : LIGHTNING PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing  Qty (UgShs) (UgShs)			<b> </b>			
PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing	Item	Description	Unit	Qty		
PROTECTION  Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
Supply, install, connect and set to work the following, all as described in the Specifications and Drawings  Earthing						
work the following, all as described in the Specifications and Drawings  Earthing						
work the following, all as described in the Specifications and Drawings  Earthing		O-make install assured as least	1	1		
as described in the Specifications and Drawings  Earthing		Supply, install, connect and set to				
as described in the Specifications and Drawings  Earthing		work the following, all				
and Drawings  Earthing		as described in the Specifications				
Earthing Earthing		and Drawings				
		and Diawings				
				<u> </u>		
		<b>Earthing</b>				
A Inspection chamber : size 300mm x						
A inspection chamber: Size 300mm X	Λ	Increation chamber: size 200mm				
	А	inspection chamber: Size 300mm x				

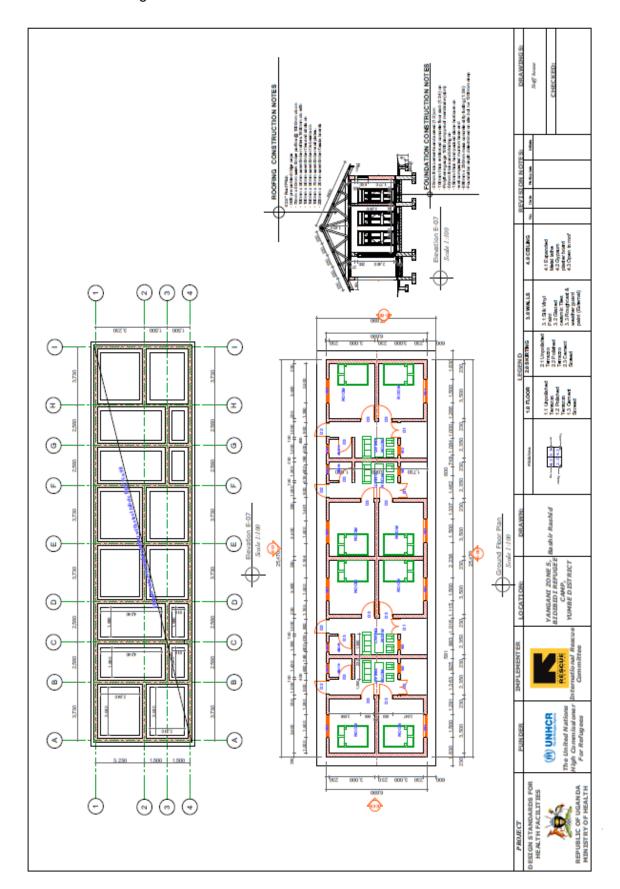
	300mm internal dimension :			
	complete with lid.	nr		
			2	
	Lightning Protection			
В	25mm x 3mm Copper tape.	m		
	Zonini x onini copper tape.	1111	16	
			10	
С	25mm x 3mm Aluminium tape.	m		
			12	
D	1200mm x 20mm Solid Copper bond			
	earth rod : complete with			
	couplers and driving tips	nr		
	couplers and driving tips	nr		
			2	
E	Bi-metallic connector.	nr		
			2	
F	Type A rod to clamp.	nr		
	Type A rou to clamp.	'''	2	
	_			
G	25mm x 3mm Copper square test	nr		
	clamp.		2	
Н	Air terminals complete with tape	nr		
	adapter and all accessories		2	
			_	
			1	
1				

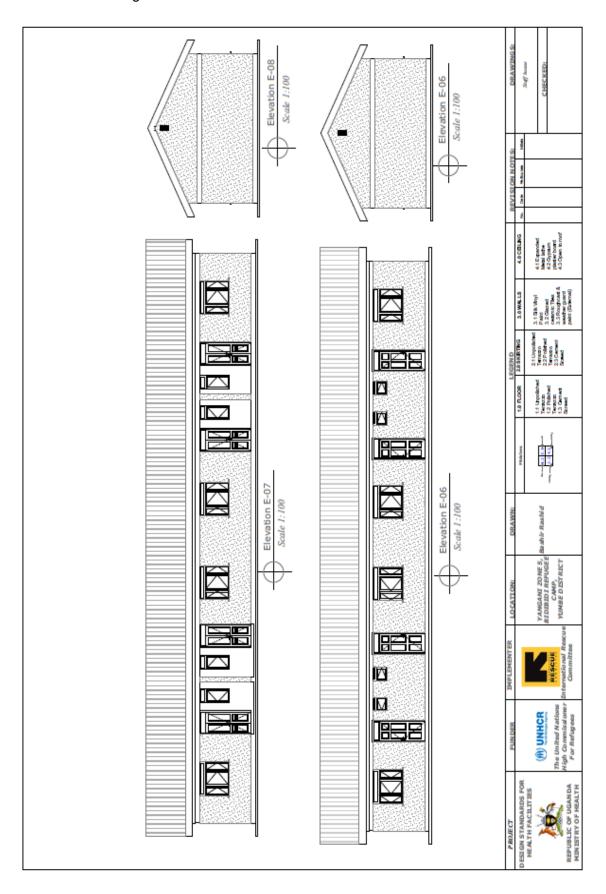
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	TOTAL ELEMENT NO.11				
	(LIGHTNING PROTECTION)				
	CARRIED TO BILL SUMMARY				
Item	Description	Unit	Qty	Rate (UgShs)	Amount (UgShs)
	ELEMENT NO. 12				
	ELECTRICAL INSTALLATION				
	Supply install connect and set to				
	Supply, install, connect and set to				
	work the following, all as described				
	in the Specifications and Drawings.				
	Power Supply				
Α	100A 6-Way SPN MCB Consumer	no			
	Unit flush mounting complete with				
	integral isolator, MCBs and all				
	accessories as MEM, CRABTREE or				
	equal approved.				
В	Supply Cable 16mm ² x 3core	m			
	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.				
			1		
С	Adaptable box to contain UEDCL	no			
	meter and cutouts.				
	Main Forth at adoptable have by	itara			
D	Main Earth at adaptable box by	item			
	25mm ² PVC copper cables to				
	copper electrode in manhole				
	complete with all accessories.				
	-				
		1		l	1

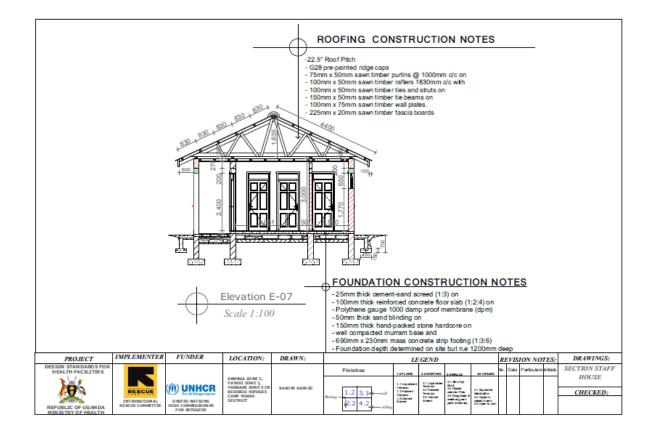
		T		1	
E	Provisional Sum for UEDCL Power	item			
	Connections				
	Lighting				
	Lighting				
F	Lighting points wired by 1.5mm ²	no			
	twin with earth PVC-I copper cables		30		
	in existing 20mm pvc conduits.				
	·				
G	1x11W energy saving solar bulb	no			
		110	24		
	fitting complete with all		24		
	accessories as Thorn or equal				
	approved.(F1)				
J	6A 1 gang 1 way moulded switch as	no			
=	MK or approved equal.	-	18		
	to approvou oquan		.5		
<u></u>	6A 1 2gang 1 way may label avrite!	no	+		
K	6A 1 2gang 1 way moulded switch	no			
	as MK or approved equal.		2		
	Sockets				
			1		
L	Socket outlet point wired by 2.5mm ²	no			
_	•	110			
	twin with earth PVC-I copper cables		8		
	in 20mm pvc conduits and all				
	accessories.				
M	13A 2gang switched socket outlet	no			
	as MK, in MK boxes complete with		8		
	all accessories.				
	Total Carried to Collection		+		
14		11 12	1	Det	<b>A</b>
Item	Description	Unit	1	Rate	Amount
			Qty	(UgShs)	(UgShs)
	Solar Power.				
	Solar Power Supply		1		
	Goldi i Gwel Guppiy		+		
<u> </u>			<del>   </del>		
N	Solar Panel, with Peak power of	no	6		
	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.				
	COLAIN DI 213 DI Equal approved.				
			1		
0	Steel supporting structure for solar	no	1		
	panels mounted on the roof at an				
	Optimum tilt angle to be determined				
		l .	_1	1	1

	by site location, complete with brackets and all accessories.				
P	63A 6-Way SPN MCB Consumer Unit flush mounting complete with integral isolator, MCBs and all accessories as MEM, CRABTREE or equal approved.	no	1		
Q	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		
R	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		
S	Deep Cycle Maintenance Free Solar Batteries, of 200AH, 12V / 24V, as DELCO 2000 by Steca GmbH Memmingen (Germany) or equal approved.	no	4		
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		
Х	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			







BILLS CENTI	OF QUANTITIES: PROPOSED CONSTRUCTION O RE III,	F A NUTRI	ITION UN	NIT 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 d	ays			
	Quotation Authorised by:				
	Name:				
	Position:				
	Authorised for and on behalf of:				
			1	1	
	Address:				

	·	1			
ITEM	DESCRIPTION	UNIT	QTY	RATE	
	ELEMENT No. 1				
	PRELIMINARIES AND GENERAL ITEMS				
	General				
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				
	Foncing				
В	Fencing Immediately upon taking possession of the site, the contractor will be required to erect fencing and gates for the security of his materials, plant and stores	ITEM			
	Ctowner				
С	Storage 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				
ינ	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				
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	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  Foreman				
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 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				

	<b>G</b>				
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				
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Water				
<b>A</b>		TERM	1		
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				
C	The contractor shall allow for making good an damages				
	Sion Doords				
<b>D</b>	Sign Boards	TOTAL	1		
D	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		
	Total Carried to Collections 1/3				
	-				
			1		

	COLLEGIONG					
	COLLECTIONS					
	Total Carried to Collections 1/1					
	The state of the s					
	Total Carried to Collections 1/2					
	Total Carried to Collections 1/3					
	TOTAL PRELIMINARIES & GENERAL ITEMS					
ITEM	DESCRIPTION	UNIT	QTY			
112111	22001111011	01121	¥			
	ELEMENT No. 2					
	SUB-STRUCTURE					
					+	
	(All provisonal)					
	Excavation and earthworks					
A	Clear bush and excavate oversite average 150mm deep to	SM	230			
11		DIVI	250			
	remove vegetable soil and load and cart away from site					
В	Excavate oversite to reduce levels	CM	10			
		01.1	10			
-		CD 4	4.5			
C	Excavate trench for strip foundations to a depth not	CM	45			
	exceeding 1.5M deep (actual depth to be determined on					
	site)					
	, , , , , , , , , , , , , , , , , , ,					
10	D'44 . 1. 4 1 . 1'44 .	CM	1			
E	Ditto but in rock ditto	CM	1			
	Disposal of water					
F	Allow for keeping all excavations free from water,	ITEM	1			
_	including running water and river water by pumping or		•			
	otherwise					
	Planking and Strutting					
G	Provide all planking and strutting necessary to maintain	ITEM	1			=
G		TIEN	1			
	the sides of excavations and fillings to keep the					
	excavations clear of fallen materials, rubbish or debris					
	l	<u> </u>	1	<u> </u>	ı	

	Г		T	
	Disposal of excavated material			
H	Return, fill and ram selected materials around	CM	21	
	foundations in layers not exceeding 200mm thick			
I	Remove surplus excavated materials from site	CM	4	
	•			
J	Selected imported murram to fill around the foundation	CM	15	
	placed in 200mm layers, watered and compacted to 95%			
	MDD			
	Anti-Termite treatment			
T/		CM	260	
K	Dig out and cart away all anthill nests on the whole site,	SM	260	
	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			
ITEM	DESCRIPTION	UNIT	QTY	
		1	<b>X</b>	
	Hardcore filling			
L		SM	85	
L	150mm thick bed of hardcore spread, leveled, well	SIVI	00	
	compacted and blinded with 50mm layer of sand			
	T			
	Damp proofing			
M	1000 gauge diothene or other equal approved polythene	SM	96	
	sheeting as damp proof membrane dpm laid on blinded			
	hardcore (measured separately) with welted joints and			
	minimum 200mm end laps at all joints			
	Concrete work			
N	Mass concrete, mix 1:4:8/19mm aggregate; blinding in			
	foundation trenches			
0	Mass concrete, mix 1:3:6/20mm aggregate; in strip	CM	9	1
J	foundation			
	IVUIIUUUVII			
D	100mm thick concerts alsh (min 1.2.6/20	CNA	05	
P	100mm thick concrete slab (mix 1:3:6/20mm aggregates)	SM	85	
	laid on damp proof membrane	1		
Q	Ditto but in splash aprons and ramps	CM	6	

	-			
R	Vibrated reinforced concrete mix 1:2:4/20mm aggregates; in ground beams generally	CM		
	Reinforcements			
S	Steel fabric reinforcement to BS 4483 ref A98 weighing 1.58kg/M ² in concrete floor bed with minimum300mm end and side laps	SM	85	
T	Mild steel reinforcement bars to BS 4449:1969; 8mm diameter	KG		
U	High tensile steel reinforcement bars to BS 4449:1969; 12mm diameter	KG		
	Sawn formwork			
V	Sawn timber formwork to edges of floor slab 175-200mm high	LM	40	
<b>TX</b> 7	Ditto to sides of around hoom	LM		
W	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 metal strip at every third coarse	SM	75	
	Total Carried to Collections 2/2			
ITEM	DESCRIPTION	UNIT	QTY	
	Damp proof course			
Y	Pluvex No. 1 or other equal approved horizontal damp proof course to BS 743; 230mm wide laid with 200mm end laps	LM	43	
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	
	15mm thek reduct to pilitit wans	SIVI	13	
ZZ	pare and apply two coats of bituminous paint on rendered surfaces of plinth walls	SM	75	
	Total Carried to Collections 2/3			

	COLLECTIONS			
	Total Carried to Collections 2/1			
	Total Carried to Collections 2/2			
	Total Carried to Collections 2/3			
	1 our current to concentrate			
	TOTAL SUB-STRUCTURE			
		* 12 17 17 17 17 17 17 17 17 17 17 17 17 17	O.F.Y	
ITEM	DESCRIPTION	UNIT	QTY	
	ELEMENT No. 3			
	SUPER-STRUCTURE			
	Reinforced insitu concrete class 25/20mm aggt, (mix			
	1:2:4) vibrated in;			
A	Ring beams	CM	2	
A	King ocanis	CIVI	4	
D	Class	C 1 F		
В	Columns	CM		

	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.			
С	12mm diameter bars	KG	105	
	Mild steel bar reinforcement to BS 4461			
D	8mm diameter bars	KG	53	
	Sawn timber formwork to:			
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.			
G	230mm thick well burnt clay brickwall with 25x1.5mm metal strip (hoop iron) at every fourth course	SM	135	
Н	Ditto but 150mm thick walls	SM	20	
I	Allow for labour and materials for eaves filling in 230mm walls:	LM	36	
	Total Carried to Collections 3/1			
ITEM	DESCRIPTION	UNIT	QTY	
	150mm Hard burnt clay vent bricks to BS 3921 (3.5N/mm² compressive strength) bedded, jointed and pointed in cement and sand (1:3) mortar in			

1	<u> </u>			_	,
	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 U-plate 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				
		<u> </u>			
	COLLECTIONS				
	Total Carried to Collections 3/1				
	Total Carried to Collections 3/2				
	Total Callicu to Concenous 3/2	-			
	TOTAL CUINTIN CONTUNE	-			
	TOTAL SUPER-STRUCTURE				
ITEM	DESCRIPTION	UNIT	QTY		
	ELEMENT No. 4				
		1	1	1	

	<b>†</b>			
Structural timbers:				
Sawn cypress or other approved timber species: pressure impregnated with Tanalith or other approved wood preservative.				
The following in 7No. Truss: 7700mm clear span x 1600mm rise: nailed together, hoisted and fixed 3.0m above ground.				
100 x 50mm Rafters	LM	69		
100 x 50mm Struts/Ties	LM	96		
150 x 50mm Tie beam	LM	56		
100 x 50mm Purlins	LM	159		
100 x 75mm Wall plate	LM	30		
Prime grade joinery timber: wrot pine				
225 x 20mm Fascia and barge board	LM	46		
28 Gauge pre-coated (employer to decide colour) profilrd galvanised iron roofing sheets, fixed 1½ corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws or capped rofing wire nails				
Roof covering	SM	130		
Matching ridge caping	LM	14		
Knot prime stop and apply one coat undercoat and two finishing coats gloss oil paint on wood				
Surfaces 200 - 300mm girth : fascia and barge boards	LM	46		
	Sawn cypress or other approved timber species: pressure impregnated with Tanalith or other approved wood preservative.  The following in 7No. Truss: 7700mm clear span x 1600mm rise: nailed together, hoisted and fixed 3.0m above ground.  100 x 50mm Rafters  100 x 50mm Struts/Ties  150 x 50mm Purlins  100 x 50mm Purlins  100 x 75mm Wall plate  Prime grade joinery timber: wrot pine  225 x 20mm Fascia and barge board  28 Gauge pre-coated (employer to decide colour) profilrd galvanised iron roofing sheets, fixed 1½ corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws or capped rofing wire nails  Roof covering  Matching ridge caping  Knot prime stop and apply one coat undercoat and two finishing coats gloss oil paint on wood	Sawn cypress or other approved timber species: pressure impregnated with Tanalith or other approved wood preservative.  The following in 7No. Truss: 7700mm clear span x 1600mm rise: nailed together, hoisted and fixed 3.0m above ground.  100 x 50mm Rafters  LM  100 x 50mm Struts/Ties  LM  100 x 50mm Tie beam  LM  100 x 50mm Purlins  LM  Prime grade joinery timber: wrot pine  225 x 20mm Fascia and barge board  LM  28 Gauge pre-coated (emplover to decide colour) profilrd galvanised iron roofing sheets, fixed 1½ corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws or capped rofing wire nails  Roof covering  SM  Matching ridge caping  LM  Knot prime stop and apply one coat undercoat and two finishing coats gloss oil paint on wood	Sawn cypress or other approved timber species: pressure impregnated with Tanalith or other approved wood preservative.  The following in 7No. Truss: 7700mm clear span x 1600mm rise: nailed together, hoisted and fixed 3.0m above ground.  100 x 50mm Rafters  LM 69  100 x 50mm Struts/Ties  LM 56  100 x 50mm Tie beam  LM 56  100 x 75mm Wall plate  LM 30  Prime grade joinery timber: wrot pine  225 x 20mm Fascia and barge board  LM 46  28 Gauge pre-coated (employer to decide colour) profilrd galvanised iron roofing sheets, fixed 1½ corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws or capped rofing wire nails  Roof covering  Matching ridge caping  LM 14  Knot prime stop and apply one coat undercoat and two finishing coats gloss oil paint on wood	Sawn cypress or other approved timber species: pressure impregnated with Tanalith or other approved wood preservative.  The following in 7No. Truss: 7700mm clear span x 1600mm rise: nailed together, hoisted and fixed 3.0m above ground.  100 x 50mm Rafters  LM 69  100 x 50mm Struts/Ties  LM 96  150 x 50mm Tie beam  LM 56  100 x 50mm Purlins  LM 159  100 x 75mm Wall plate  LM 30  Prime grade joinery timber: wrot pine  225 x 20mm Fascia and barge board  LM 46  28 Gauge pre-coated (employer to decide colour) profilrd galvanised iron roofing sheets, fixed 1½ corrugations side laps: fixed to timber purlins (m/s) with galvanised iron drive screws or capped rofing wire nails  Roof covering  SM 130  Matching ridge caping  LM 14  Knot prime stop and apply one coat undercoat and two finishing coats gloss oil paint on wood

	3			
	TOTAL ROOFING			
ITEM	DESCRIPTION	UNIT	QTY	
	DESCRIPTION	OIVII	QII	+
	EX EX MENTO NI P			
	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			
	William Swill (201) include			
A	325 x 75mm Cill: sunk, weathered and throated	LM	6	
	,			
	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: comprising	No.	3	
	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			
	pulles oil oie ii			
	Iron mongery and matching fixings			
D	Fastener	No.	6	
E	Stay	No.	6	
		2,00		
	Ordinary quality clear chart glass & glazing			+
	Ordinary quality clear sheet glass & glazing			
$\mathbf{F}$	4mm Glass : Glazing to metal casement panes 0.1 - 0.5M ²	SM	5	
	with tropical glazing putty			
		1		
	Dointing			
	Painting	-		

G Glazed casement windows (measured flat both faces)  Total carried to Collections 5/1  ITEM DESCRIPTION  Prepare touch up primer and apply one coat undercoat and two finishing coats of gloss oil paint: on concrete  H 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: external  LM 9  Prepare surfaces: apply three coats vinvl silk soft white emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide: internal  DOORS  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.		Prepare touch up primer and apply one coat undercoat and two finishing coats of gloss oil paint : on metal			
Prepare touch up primer and apply one coat undercoat and two finishing coats of gloss oil paint : on concrete  H Window Cills : 325 x 75mm average  LM 6  Cement and sand (1:4)  I 15mm Plaster to reveals : average 200 - 300mm wide:	G	Glazed casement windows (measured flat both faces)	SM	6	
Prepare touch up primer and apply one coat undercoat and two finishing coats of gloss oil paint : on concrete  H Window Cills : 325 x 75mm average  LM 6  Cement and sand (1:4)  I 15mm Plaster to reveals : average 200 - 300mm wide:		Total carried to Collections 5/1			
and two finishing coats of gloss oil paint : on concrete  H Window Cills : 325 x 75mm average  LM 6  Cement and sand (1:4)  I 15mm Plaster to reveals : average 200 - 300mm wide: steel trowelled smooth  Prepare and apply three coats weather guard emulsion paint : to  J Plastered surfaces of reveals 200 - 300mm wide : external  Prepare surfaces: apply three coats vinyl silk soft white emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide : internal  DOORS  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	ITEM		UNIT	QTY	
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: external LM 9  Prepare surfaces: apply three coats vinyl silk soft white emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide: internal  DOORS  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					
I 15mm Plaster to reveals : average 200 - 300mm wide: steel trowelled smooth  Prepare and apply three coats weather guard emulsion paint : to  J Plastered surfaces of reveals 200 - 300mm wide : external  Prepare surfaces: apply three coats vinyl silk soft white emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide : internal  DOORS  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	Н	Window Cills : 325 x 75mm average	LM	6	
steel trowelled smooth  Prepare and apply three coats weather guard emulsion paint: to  J Plastered surfaces of reveals 200 - 300mm wide: external LM 9  Prepare surfaces: apply three coats vinyl silk soft white emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide: internal  DOORS  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		Cement and sand (1:4)			
steel trowelled smooth  Prepare and apply three coats weather guard emulsion paint: to  J Plastered surfaces of reveals 200 - 300mm wide: external LM 9  Prepare surfaces: apply three coats vinyl silk soft white emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide: internal  DOORS  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					
J Plastered surfaces of reveals 200 - 300mm wide: external LM 9  Prepare surfaces: apply three coats vinyl silk soft white emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide: internal  DOORS  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	I		LM	9	
Prepare surfaces: apply three coats vinyl silk soft white emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide: internal  DOORS  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					
Emulsion paint: on steel trowelled plaster: to  K Plastered surfaces of reveals 200 - 300mm wide : internal  DOORS  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	J	Plastered surfaces of reveals 200 - 300mm wide : external	LM	9	
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					
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	K	Plastered surfaces of reveals 200 - 300mm wide : internal			
sections with SHS 40x40x1.2mm framing and clad, faced / fabricated with 1.5mm steel plates : complete with		DOORS			
		sections with SHS 40x40x1.2mm framing and clad, faced / fabricated with 1.5mm steel plates : complete with			

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 carried to Collections 5/2			
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	
0	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			

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-					
COL	LLECTIONS				
<u>C01</u>	<u>LLECTIONS</u>				
Tota	al Carried to Collections 5/1				
		-			<del> </del>
Tota	al Carried to Collections 5/2				
TOT	ΓAL WINDOWS AND DOORS				
	SCRIPTION	UNIT	QTY		
TIENI DES	SCRIF HON	UNII	QII		
ELF	EMENT No. 6				
TATE					
INT	ERNAL FINISHES				
Wal	ll Finishes				
<u>vvai</u>	II I IIISHES				
Mor	rtar; Cement- Sand mix (1:4); Plaster; 10 mm first				
	of cement and sand (1:6); 3 mm second coat of				
thicl	t of cement and sand (1:6); 3 mm second coat of ent and lime putty (1:10); steel trowelled; 13 mm				
	t of cement and sand (1:6); 3 mm second coat of ent and lime putty (1:10); steel trowelled; 13 mm				
	t of cement and sand (1:6); 3 mm second coat of ent and lime putty (1:10); steel trowelled; 13 mm				
	t of cement and sand (1:6); 3 mm second coat of ent and lime putty (1:10); steel trowelled; 13 mm				
A 13m	t of cement and sand (1:6); 3 mm second coat of ent and lime putty (1:10); steel trowelled; 13 mm k	SM	160		
A 13m	t of cement and sand (1:6); 3 mm second coat of ent and lime putty (1:10); steel trowelled; 13 mm	SM	169		
	t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:		169		
	t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm second coat of tent and lime putty (1:		169		
	t of cement and sand (1:6); 3 mm second coat of ent and lime putty (1:10); steel trowelled; 13 mm k	SM SM	169		
B 13m	t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  mm plaster to brick wall.  mm plaster to sides and soffite of beams	SM	169		
B 13m	t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  mm plaster to brick wall.  mm plaster to sides and soffite of beams  adow and door jambs over 200mm but not exceeding		169		
B 13m	t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  mm plaster to brick wall.  mm plaster to sides and soffite of beams	SM	169		
B 13m	t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  mm plaster to brick wall.  mm plaster to sides and soffite of beams  adow and door jambs over 200mm but not exceeding	SM	169		
B 13m C Win 300r	tof cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  mm plaster to brick wall.  mm plaster to sides and soffite of beams  adow and door jambs over 200mm but not exceeding mm girth.	SM LM	169		
B 13m C Win 300r	t of cement and sand (1:6); 3 mm second coat of tent and lime putty (1:10); steel trowelled; 13 mm k  mm plaster to brick wall.  mm plaster to sides and soffite of beams  adow and door jambs over 200mm but not exceeding	SM	169		

	Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion paint on :-			
Е	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	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	

	Total carried to Collections 6/2				
_					
	COLLECTIONS				
	Total carried to Collections 6/1				
	Total carried to Collections 6/2				
	Total Callicu to Concentris 0/2				
	TOTAL INTERNAL FINISHES				
ITEM	DESCRIPTION	UNIT	QTY		
			_		
	ELEMENT No. 7				
	LALINIEN I INU. /				
	EXTERNAL FINISHES				
	Mortar; cement and sand (1:4)				
	,				
		1	<u> </u>	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	
	TOTAL EXTERNAL FINISHES			
ITEM	DESCRIPTION	UNIT	QTY	
	ELEMENT No. 8			

	-		<u> </u>	
	ELECTRICAL INSTALLATION			
	Supply, install, connect and set to work the following in			
	approved materials;			
	upproved materials;			
	T:.L4:		+	
	Lighting			
A	Lighting points wired by 1.5mm ² twin with earth PVC-I	No	7	
	copper cables in 20mm pvc 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)			
	accessories as Thorn of equal approved.(11)			
	1 1000 1 1 4 9 9	NT.		
C	1 x 18W 600mm single waterproof, surface mounted	No	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.			
		+		
	Sockets			
E	12 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	No	3	
L	Socket outlet point wired by 2.5mm ² twin with earth	110	3	
	PVC-I copper cables in 20mm pvc conduits complete			
	with all accessories.			
${f F}$	13A 2gang switched socket outlet as MK, in MK boxes	No	3	
	complete with all accessories.			
	Solar Power.			
	Solar Power Supply and Lighting			
	Som 201101 Supply with Englishing			
G	Color Donal with Dook nower of 120W May Comment of	No	2	
G	Solar Panel, with Peak power of 120W, Max.Current of	140	4	
	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 1	
	approved.			

	I			T .	T
	TOTAL CARRIED TO COLLECTIONS 8/1				
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	DESCRIPTION	UNII	QII	KAIL	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		

