



REPUBLIC OF KENYA

**MINISTRY OF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS,
HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT OF PUBLIC WORKS**

**BILL OF QUANTITIES
FOR**

**PROPOSED CONSTRUCTION OF 1 NO. TWIN
LABORATORY BLOCK AT KURAWA SECONDARY SCHOOL
NG-CDF MAGARINI**

TENDER NO. MGR/NG-CDF/2630205-2020 / 21 - 009

TENDER DOCUMENT

**REGIONAL QUANTITY SURVEYOR
MOMBASA REGION
P.O. BOX 90350
MOMBASA**

**REGIONAL WORKS OFFICER
MOMBASA REGION
P.O. BOX 90350
MOMBASA**

APRIL, 2021

SECTION V- STANDARD FORM

- i. Form of invitation for tender
- ii. Form of Tender
- iii. Letter of Acceptance
- iv. Form of Agreement
- v. Form of tender security
- vi. Performance bank guarantee
- vii. Bank guarantee for advance payment
- viii. Qualification information
- ix. Tender questionnaire
- x. Confidential business questionnaire
- xi. Statement of foreign currency requirement
- xii. Details of sub-contactors

FORM OF INVITATION FOR TENDER

----- (date)
To: ----- (name of contractor)
----- (address)

Dear sirs:

Reference: ----- (contract name)

You have been prequalified to tender for the above project.

We hereby invite you and other prequalified tenders to submit a tender for the execution and completion of the above contract.

A complete set of tender documents may be purchased by from-----

(Mailing address, cable/telex/facsimile numbers).

Upon payment of a non-refundable fee of kshs -----
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All tenders must be accompanied by -----number of
copies of the same and a security in the form and amount specified in the tendering documents,
and must be delivered to

(Address and location)

At or before ----- (time and date). Tenders will be opened immediately
thereafter, in the presence of tenders' representatives who choose to attend.

Please confirm receipt of this letter immediately in writing by cable/ facsimile or telex.

Yours faithfully,

----- authorized signature

----- Name and title

FORM OF TENDER

To :----- (name of employer)-----
(date)

----- (name of contract)

Dear Sir,

- 1 In accordance with the conditions of contract, specifications, drawings and bills of quantities for the execution of the above named works, we, the undersigned offer to construct, install and complete such works and remedy any defects therein for the sum of kshs. ----- (amount in figures) Kenya shillings -----
----- (amount in words)
- 2 We undertake, if our tender is accepted, to commence the works as soon as is reasonably possible after the receipt of the project manager's notice to commence, and to complete the whole of the works comprised in the contract within the time stated in the appendix to conditions of contract.
- 3 We agree to abide by this tender until ----- (insert date), and it shall remain binding upon us and may be accepted at any time before that date.
- 4 Unless and until a formal agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding contract between us.
- 5 We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this ----- day of ----- 20-----

Signature ----- in the capacity of -----

Duly authorized to sign tenders for and on behalf of -----
----- (name of employer)

Of ----- (address of employer)

Witness; name -----

Address -----

Signature -----

Date -----

LETTER OF ACCEPTANCE

(Letter head paper of the employer)

----- (date)

To : -----

(Name of the contractor)

(Address of the contractor)

Dear Sir,

This is to notify you that your tender dated -----

For the execution of -----

(Name of the contract price of kshs. ----- (amount in figure) {Kenya shillings -----
----- (amount in words) } in accordance with the instructions to tenders is hereby accepted.

You are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Authorized signature -----

Name and title of signatory-----

Attachment: agreement

FORM OF AGREEMENT

THIS AGREEMENT, made the -----day of -----20-----

Between-----of (or whose registered office is situated at)-----
---[HEREINAFTER called "THE Employer "] of the one part AND

-----of [or whose registered office is situated at] -----

(hereinafter called the CONTRACTOR of the other part.

WHEREAS THE Employer is desirous that the Contractor executes

(name and identification number of contract) hereinafter called "the works" located at -----
----- (place/ location of the works) and the employer has accepted the tender
submitted by the contractor for the execution and completion of such works and the remedying of
any defects therein for the contract price of

Ksh ----- (amount in figures) ksh -----
----- amount in words

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions of contract here in after referred to
2. The following documents shall be deemed to form and shall be read and construed as part of this agreement
 - I. Letter of acceptance
 - II. Form of tender
 - III. Conditions of contract part one
 - IV. Conditions of contract part two and appendix to conditions of contract
 - V. Specifications
 - VI. Drawings
 - VII. Price bills of quantities
3. In consideration of the payments to be made by the employer to the contractor as here in after mentioned, the contractor here by covenants with the employer to execute and complete the works and remedy any defects therein in conformity in all respects with the provisions of the contract
4. The employer hereby covenants to pay the contractor in consideration of the execution and completion of the works and the remedying of defects therein, the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

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

The common seal of -----

Was hereunto affixed in the presence of -----

Signed sealed, and delivered by the said-----

Binding signature of employer -----

Binding signature of contractor -----

In the presence of (i) Name -----

Address -----

Signature-----

(ii) Name -----

Address -----

Signature-----

QUALIFICATION INFORMATION

1 Individual tenders or individual members of joint ventures

1.2 constitution or legal status of tender (attach copy or incorporation certificate);

Place of registration: -----

Principal place of business -----

Power of attorney of signatory of tender -----

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

| | | |
|------|----------|--------|
| Year | volume | |
| | Currency | volume |
| | | |

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

| Project name | Name of client and contact person | Type of work Performed and year of completion | Value of contract |
|--------------|-----------------------------------|---|-------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

1.4 Major items of contractor's equipment proposed for carrying out the works. List all information requested below.

| Item of equipment | Description, Make and age (years) | Condition (new, Good, poor) and number available | Owned, leased (from whom?), Or to be purchased (from whom?) |
|-------------------|-----------------------------------|--|---|
| | | | |
| | | | |
| | | | |
| | | | |
| (et.c) | | | |

1.5 Qualifications and experience of key personnel proposed for administration and execution of the contract. Attach biographical data

1.6

| Position | Name | Years of Experience (general) | Years of Experience in proposed position |
|----------|------|-------------------------------|--|
| | | | |
| | | | |
| (etc) | | | |

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

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

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

1.10 Statement of compliance with the requirements of clause 1.2 of the instructions to tenderers.

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2 Joint ventures

2.4 the information listed in 1.1-1.10 above shall be provided for each partner of the joint venture

2.5 The information required in 1.11 above shall be provided for the joint venture

2.6 Attach the power of attorney of the signatory) of the tender authorizing signature of the tender on behalf of the joint venture

2.7 Attach the agreement among all partners of the joint venture (and which is legally binding on all partners), which shows that:

- a. All partners shall be jointly and severally liable for the execution of the contract in accordance with the contract terms;
- b. One of the partners will be nominated as being in charge, authorized to incur liabilities and receive instruction for and on behalf of any and all partners of the joint venture;
- c. The execution of the entire contract, including payment, shall be done exclusively with the partner in charge.

TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full names of tenderer

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

3. Telephone number (s) of tenderer

4. Telex address of tenderer

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

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

Signature of tenderer

Make copy and deliver to: -----

CONFIDENTIAL BUSINESS QUESTIONNAIRE

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

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

Part 1- general

Business name -----

Location of business premises; country/town -----

Plot NO ----- street/town -----

Postal address ----- tel NO-----

Nature of business -----

Current trade licence NO ----- expiring date -----

Maximum value of business which you can handle at any time : k. pound -----
~

Name of your bankers -----

Branch -----

Part 2 (a) – sole proprietor

Your name in full ----- age -----

Nationality ----- country or origin-----

*Citizenship details -----

Part 2 (b) – partnership

Give details of partnership as follows

Name n full nationality citizenship details shares

1) -----

2) -----

3) -----

Part 2 (c) – registered company:

Private or public -----

State the nominal and issued capital of the company.

Nominal kshs -----

Issued kshs -----

Give details of all directors as follows:

| Name full. | Nationality. | Citizenship details* | shares |
|-------------------|--------------|----------------------|--------|
| 1) ----- -- | | | |
| 2) ----- -- | | | |
| 3) ----- ----- | | | |
| 4) ----- ----- | | | |

Part 2 (d) – interest in the firm:

Is there any person / persons in ----- (name of employer) who has interest in this firm? Yes/ no ----- (delete as necessary)

I certify that the information given above is correct

(Title) (Signature) (Date)

Attach proof of citizenship

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| A | <p><u>PARTICULAR PRELIMINARIES</u> The contractor is advised to carefully read and understand all insertions to particular preliminaries.</p> <p><u>DESCRIPTION OF THE WORK AND SCOPE OF CONTRACT</u> Works generally consists of demolitions walling, sheet roofing, doors, windows finishes fittings c and associated mechanical and electrical installation works.</p> | |
| B | <p><u>MEASUREMENTS</u> In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with clause 22 of the conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with clause 22 of the said conditions.</p> <p><u>LOCATION OF SITE</u> The site of the proposed works is Kurawa Secondary School. The contractor is advised to visit the site to familiarize himself with the nature and position of the site. No claims arising from the contractor's failure to do so will be Entertained.</p> | |
| C | <p><u>CLEARING AWAY</u> The contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant , equipment, rubbish , unused works and stains and leave in a clean and tidy state to the reasonable satisfaction of the project manager.</p> <p>The whole of the works shall be delivered up clean, complete and in perfect in Condition in every respect to the satisfaction to the project manager</p> | |
| D | <p style="text-align: center;">Carried to collection</p> | |

| | | |
|---|--|--|
| A | SECURITY | |
| | The contractor shall provide adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the contractor for not maintaining adequate security for both the works and workers. | |
| B | <p>URGENCY OF THE WORKS</p> <p>The contractor is notified that here “works are urgent” and should be completed within the period stated in these particular preliminaries.</p> <p>The contractor should allow for any costs he may incur by having to complete the works within the stipulated contract period.</p> | |
| C | <p>PAYMENT FOR MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the project manager. This is to include materials of the contractor, nominated sub-contractors and nominated suppliers.</p> | |
| D | <p>SIGN BOARD</p> <p>Allow for providing, erecting and maintaining throughout the course of the contract and afterwards clearing away a sign board in accordance with the ministry of roads and public works standard details to be obtained from the PM.</p> | |
| E | <p>PRICING OF PRELIMINARIES</p> <p>The tender is required to price items covered in these preliminaries as items for which no price is entered will not be paid for but shall be deemed covered by other rates and prices in these bills of quantities.</p> | |
| F | <p>ADJOINING PROPERTY</p> <p>Take all necessary precautions to prevent damage to adjoining property. Any damage occurring must be made good to the satisfaction of the PM and/ or owner (s) of the adjoining property at the contractor’s expense.</p> | |
| G | <p>USE OF SITE</p> <p>Do not use the site for any other purpose other than carrying out the works. Do not permit or display any advertisement without the consent of the PM</p> | |
| | CARRIED TO COLLECTION | |

| | | |
|----|---|--|
| A. | QUALITY OF THE WORKS | |
| B | <p>The works should be of high quality and the contractor will be required to make samples of the work to be executed for approval by the PM before he commences the carrying out of the works. The contractor should allow for sample works in his rates accordingly. In case a sample does not meet the standards set by the PM, the contractor shall be expected to make another sample at his cost until it is approved by the PM.</p> <p><u>BID SECURITY</u> The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement. The bid security shall, at the bidder's option, be in the form of a certified cheque, bank draft, standby letter of credit or guarantee from a reputable bank located in Kenya or foreign bank which has been determined by the bidder to be acceptable to the Government. The format of the bank guarantee shall be in accordance with the sample forms of bid security included in the post qualification forms, other formats may be permitted, subject to the prior approval of the Government. Letters of credit, bank Guarantees issued as surety for the bid shall be valid for a period of One Hundred and Twenty (1:20) days from the date of Tender Opening.</p> <p><u>TRAINING LEVY</u> Legal notice No. 237 of October, 1971 requires payment by the contractor of a training levy of a quarter percent of the value of the contract where the contract value exceeds Kshs. 50,000/=. The contractor will be required to furnish the Project Manager with a receipt showing that he has paid the required Training Levy to the Director of Industrial Training. In case the contractor fails to furnish the said receipt to the Project Manager, the Client will] pay the amount to the Director of industrial Training from monies due to the contractor.</p> <p><u>WATER FOR THE WORKS</u> The contractor is to make his arrangements for the provision of water for the works in the course of execution of this contract.</p> <p><u>EXISTING SERVICES</u> Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in</p> | |
| C | | |
| D | | |
| E | | |

| | | |
|--|---|--|
| | the and he shall make whatever provisions may be required by the authorities concof6P for the support, maintenance and protection of such services. | |
| | CARRIED TO COLLECTION | |

| | | |
|----------|--|--|
| A | PREVENTION OF ACCIDENT, DAMAGE OR LOSS | |
| | The Contractor is notified that these works are to be carried out on a site where the Client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he d | |
| B | FORM OF CONTRACT | |
| | The font of contract will be the Republic of Kenya Standard Tender Document for Procurement of Works (2006 Edition) teems necessary by taking such care within the site. | |
| C | PERFORMANCE BOND | |
| | A bond of 5% of the contract sum will be required in accordance with clause 6.5, award of contract of the Conditions of Contract. No payment will be made without the required performance security. | |
| D | DELIVERY OF TENDER | |
| | Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited in the tender box as specified in the advertisement and or letter of invitation to tender. Tenders will be opened at the time specified in the advertisement and/or letter of invitation to tender. Tenders arriving later than the specified time will not be considered | |
| E | CORRECTION OF ERRORS IN TENDER | |
| | Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and the quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. | |
| | CARRIED TO COLLECTION | |

| | | |
|------------------------------|---|--|
| A | VIEWING OF DRAWINGS | |
| | Any tenderer interested in viewing the drawings related to this project before submission of the tenders may do so by contacting the District Works Officer, Ministry of Public Works, Kilifi Office. | |
| B | STANDARD FORMS Any tender with standard forms not filled as appropriate will be treated as non-responsive. | |
| C | INTERRUPTION OF WORK The Contractor is to carry out the works on site where the user is carrying on with his normal activities. Periodic stoppages of work will be experienced and therefore the Contractor should assess the delays and losses likely to be incurred and price accordingly. No claim in respect of extension of time and losses will be entertained due to any failure by the Contractor. | |
| D | VALUE ADDED TAX The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21 (b) operative from 1st September, 1993 which requires payment of VAT on all contracts. The Contractor shall therefore insert 16% of the Sub Total for the VAT at the grand summary but includes any other Government taxes currently in force in his rates. <i>Any tenderer who does not strictly conform to this clause will be adjudged as not responsive and his tender rejected.</i> | |
| E | The tenderer is advised that in accordance with Government public notice No. 35 &36 Dated 11th September 2003 operational from 1st October 2003, withholding VAT will be levied against the contract sum by the Employer and remitted to the Commissioner of VAT through all interim certificates. It should however be noted that this is not additional tax but a new mode of payment of VAT, any excess payment will be refundable once the Contractor has submitted monthly returns to the Commissioner of VAT who will do the refunds when satisfied that the VAT regulations have been complied with. | |
| F | TENDER VALIDITY "Clause 3.6 if the Instructions to Tenderers has been amended to read: "Tenders submitted remain valid for a period of One Hundred and Twenty (120) days from the date of Tender Opening, and not Sixty (68) days. All Tenderers are advised to note this amendment when filling the Form of Tender". | |
| CARRIED TO COLLECTION | | |

| <u>SPECIAL PRELIMINARIES</u> | | |
|------------------------------|--|--------|
| A | <p>OTHER PROJECT COMPONENTS The contractor's attention is drawn to the treasury circular NO. 5 of 1974, instruction No.8, which requires the Ministry, Agency or Department responsible for the development project to provide for the cost of the other project components (i.e equipments, vehicles allowances etc)</p> <p>NB:- The figures for these special preliminaries from Pages 87 Items C to J must be carried to preliminaries summary and subsequently to Grand summary failure to which will lead to automatic Disqualification</p> <p><u>NOTES ON DISBURSMENT OF FUNDS</u></p> | |
| B | The funds referred in items PP/8C, PP/8E,PP/8G, PP/81 PP/9A and PP/9C below B I given to the concerned officers in advance in every month by the contractor for the duration of the contract. | |
| C | <p><u>MOBILE PHONE AIRTIME FOR OFFICERS</u> Provide mobile air time for MOPW Officers for the duration of the contract.</p> | 5,000 |
| D | Allow a percentage sum for the contractor's administration cost and profit for the above (%) | |
| E | <p><u>LUNCH FOR THE PROJECT TEAM</u> Provide Lunches during inspection visits and site meetings for during the duration of the contract</p> | 30,000 |
| F | Allow a percentage sum for the contractor's administration cost and profit for the above (%) | |
| G | <p><u>TRANSPORTATION FOR SUPERVISION TEAM</u> Provide fuel for the project managers vehicle for the duration of the contract</p> | |
| H | Allow a percentage sum for the contractor's administration cost} (%) | |
| I | Allow a sum of Kenyan Shillings Fifteen Thousand (15,000.00) Manager's Management expenses , Administrative costs and administered as per Project Manager's Instructions. | 15,000 |
| J | Allow a percentage sum for the contractor's administration cost and profit for the above (%) | |
| CARRIED TO COLLECTION | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| | <u>ELEMENT NO. 1: -</u> | | | | |
| | <u>SUBSTRUCTURE (ALL PROVISIONAL): -</u> | | | | |
| | <u>Excavations and Earthworks: -</u> | | | | |
| A | Excavate oversite average 150mm deep and cart away | 406 | Sm | | |
| B | Excavate trench for for strip foundation not exceeding 1.5m deep | 124 | Cm | | |
| C | Return fill and ram | 60 | Cm | | |
| D | Cart away surplus excavated material from site | 64 | Cm | | |
| E | Allow for planking and strutting | 1 | Item | | |
| F | Allow for keeping excavations free from water | 1 | Item | | |
| | <u>Hardcore: -</u> | | | | |
| G | 300mm thick approved hardcore | 321 | Sm | | |
| H | 50mm thick murrum blinding | 321 | Sm | | |
| I | Treat hardcore surface with approved antitermite | 321 | Sm | | |
| | <u>Concrete works: -</u> | | | | |
| J | Plain concrete (1:4:8) in 50mm blinding under strip foundation | 83 | Sm | | |
| | <u>Vibrated reinforced concrete (1:2:4) in: -</u> | | | | |
| K | Strip foundation | 17 | Cm | | |
| L | Ground beam | 8 | Cm | | |
| M | 100mm surface bed | 321 | Sm | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <u>Sawn formwork to: -</u> | | | | |
| A | Sidea of ground beam | 83 | Sm | | |
| B | Edges of surface bed 75 - 150mm | 81 | Lm | | |
| | <u>High yield deformed bars: -</u> | | | | |
| C | 8mm diameter bars | 249 | Kg | | |
| D | 10mm ditto | 447 | Kg | | |
| E | 12mm ditto | 538 | Kg | | |
| F | BRC mesh type A142 | 321 | Sm | | |
| | <u>Sub-wall: -</u> | | | | |
| G | 200mm thick coral block foundation walling in cement sand (1:3) mortar | 179 | Sm | | |
| H | Etra-over ditto for attached pier size 200 - 200mm | 29 | Lm | | |
| | <u>Damp proof course: -</u> | | | | |
| I | 200mm wide Hessian based bituminous felt DPC | 113 | Lm | | |
| J | 1000 gauge polythene sheet DPM | 321 | Sm | | |
| | <u>Plinth: -</u> | | | | |
| K | 15mm thick cement sand (1:3) rendering on plinth walls | 29 | Sm | | |
| L | Prepare and apply three coats Bitumastic paint on plinth walls | 29 | Sm | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| | <u>Paving slabs around the Building: ~</u> | | | | |
| A | Excavate oversite average 150mm deep and cart away | 53 | Sm | | |
| B | Excavate trench for strip foundation not exceeding 1.5m deep | 25 | Cm | | |
| C | Return fill and ram | 11 | Cm | | |
| D | Cart away surplus excavated material from site | 14 | Cm | | |
| E | Mass concrete (1:3:6) in strip foundation | 6 | Cm | | |
| F | 150mm coral block edge walling in cement sand (1:3) mortar | 37 | Sm | | |
| G | 600 x 600 x 50mm pre-cast concrete paving slabs jointed in cement sand bed including approved antitermite | 54 | Sm | | |
| | Carried to collection below | | | | |
| | <u>COLLECTION: ~</u> | | | | |
| | Brought forward from page LAB / 1 | | | | |
| | Brought forward from page LAB / 2 | | | | |
| | Brought down from above | | | | |
| | TOTAL OF SUBSTRUCTURE, | | | | |
| | CARRIED TO SUMMARY | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <u>ELEMENT NO. 2: -</u> | | | | |
| | <u>RING BEAM AND WALLING: -</u> | | | | |
| A | Vibrated reinforced concrete (1:2:4) in ring beam | 7 | Cm | | |
| B | 200mm thick machine cut coral block walling in cement sand (1:30 mortar) | 285 | Sm | | |
| C | Extra-over ditto for attached pier size 200 x 200mm | 30 | Lm | | |
| D | 8mm diameter high yield reinforcement bars | 235 | Kg | | |
| E | 12mm ditto | 442 | Kg | | |
| F | Formwork to sides and soffites of ring beam | 115 | Sm | | |
| G | 100mm diameter x 2mm thick mild-steel CHS verandah pipes | 63 | Lm | | |
| H | 250mm girth x 100mm wide x 3mm thick "U" shaped plate welded to top of pipes | 21 | No | | |
| I | 25 x 25 x 2mm mild-steel angle lugs 100mm long welded to bottom of pipes | 42 | No | | |
| J | Prepare and apply primer and two coats gloss oil paint on mild-steel pipe (100mm diameter) | 63 | Lm | | |
| | TOTAL OF RING BEAM AND WALLING, | | | | |
| | CARRIED TO SUMMARY | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| | <u>ELEMENT NO. 3: -</u> | | | | |
| | <u>ROOFING: -</u> | | | | |
| | <u>Sawn treated cypress: -</u> | | | | |
| A | 150 x 50mm rafters | 284 | Lm | | |
| B | 150 x 50mm tie beams | 187 | Lm | | |
| C | 100 x 50mm ties and struts | 420 | Lm | | |
| D | 75 x 50mm purlins | 371 | Lm | | |
| E | 150 x 50mm verandah joist | 30 | Lm | | |
| F | 100 x 50mm wall plate bolted to ring beam at 1.2m centres | 60 | Lm | | |
| G | 200 x 25mm wrot cypress fascia and barge board | 103 | Lm | | |
| | <u>Roof coverings: -</u> | | | | |
| H | 30 gauge pre-painted roofing sheets | 417 | Sm | | |
| I | Matching ridge caps | 31 | Lm | | |
| | <u>Painting: -</u> | | | | |
| J | Prepare and apply undercoat and two coats gloss oil paint on fascia and barge board 200 - 300mm girth | 103 | Lm | | |
| | TOTAL OF ROOFING, | | | | |
| | CARRIED TO SUMMARY | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| | <u>ELEMENT NO. 4: -</u> | | | | |
| | <u>DOORS: -</u> | | | | |
| | <u>Timber doors: -</u> | | | | |
| | <u>Wrot hardwood: -</u> | | | | |
| A | 150 x 50mm wrot hardwood rebated door frame | 33 | Lm | | |
| B | 150 x 50mm ditto transoms | 5 | Lm | | |
| C | 45 x 20mm architrave with two labours | 33 | Lm | | |
| D | 25mm quadrant mould | 33 | Lm | | |
| E | 50mm thick solid panelled door size 900 x 2100mm | 5 | No | | |
| | <u>Fanlights: -</u> | | | | |
| F | Four blade carrier aluminium louvre jamb units | 5 | Prs | | |
| G | 5 x 150mm clear glass louvre blade | 20 | Lm | | |
| H | 12mm diameter mild-steel burglar proof bars covered with plastic sheath | 20 | Lm | | |
| I | Bore 50mm timber for 12mm bars | 40 | No | | |
| | <u>Mild-steel door: -</u> | | | | |
| J | Heavy duty mild-steel double door size 1500 x 2700mm comprising 50 x 50 x 3mm thick framing, 5mm thick panelled plates welded to framing, including all necessary hinges, bolts, fanlights with mosquito gauze and metal lugs | 2 | No | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| | <u>Iron mongery as "UNION" or equal and approved with matching screws: -</u> | | | | |
| A | 100mm long brass butt hinges | 7.5 | Prs | | |
| B | Two lever mortice locks | 5 | No | | |
| C | Heavy duty mild-steel door locks | 2 | No | | |
| D | 32mm diameter rubber door stop fixed with rawl bolt | 9 | No | | |
| | <u>Painting: -</u> | | | | |
| | <u>Prepare and apply three coats first quality varnish on: -</u> | | | | |
| E | General surfaces of timber | 10 | Sm | | |
| F | Surfaces 200 - 300mm girth | 38 | Lm | | |
| G | Surfaces not exceeding 100mm girth | 66 | Lm | | |
| H | Prepare and apply primer and two coats gloss oil paint on mild-steel surfaces | 16 | Sm | | |
| | Carried to collection below | | | | |
| | <u>COLLECTION: -</u> | | | | |
| | Brought forward from page LAB / 6 | | | | |
| | Brought down from above | | | | |
| | TOTAL OF DOORS, | | | | |
| | CARRIED TO SUMMARY | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <u>ELEMENT NO. 5: -</u> | | | | |
| | <u>WINDOWS: -</u> | | | | |
| A | Heavy duty mild-steel casement windows size 1700 x 1500mm comprising 50 x 45 x 3mm thick framing members ("Z" and "T" sections) including all necessary heavy duty hinges, bolts, fasteners, stays, fanlights with mosquito gauze and metal lugs | 18 | No | | |
| B | 5mm clear glass and glazing with metal putty in panes 0.1 - 0.5sm | 46 | Sm | | |
| C | Prepare and apply primer and two coats gloss oil paint on mild-steel surfaces | 92 | Sm | | |
| | TOTAL OF WINDOWS, CARRIED TO SUMMARY | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| | <u>ELEMENT NO. 6: ~</u> | | | | |
| | <u>FIXTURES AND FITTINGS: ~</u> | | | | |
| | <u>Worktops and Base cabinets: ~</u> | | | | |
| A | Reinforced concrete (1:2:4) in 100mm worktops | 67 | Sm | | |
| B | Plain concrete (1:3:6) in 100mm plinth | 32 | Sm | | |
| C | Ditto in teachers raised platform 200mm thick | 12 | Sm | | |
| | <u>Sawn formwork to: ~</u> | | | | |
| D | Soffites of worktops | 67 | Sm | | |
| E | Edges of worktops 75 - 150mm wide | 119 | Lm | | |
| F | Ditto edges of plinth | 56 | Lm | | |
| G | Edges of teachers platform 150 - 225mm wide | 15 | Lm | | |
| H | Box out formwork to form opening size 500 x 400mm | 48 | No | | |
| I | 10mm diameter high yield reinforcement bars | 214 | Kg | | |
| J | 150mm thick machine cut coral block dwarf walling in cement sand (1:3) mortar | 66 | Sm | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| A | 15mm thick cement sand (1:3) plaster on worktops and edges | 79 | Sm | | |
| B | Ditto dwarf walls | 132 | Sm | | |
| | <u>Wrot Hardwood: -</u> | | | | |
| C | 75 x 50mm rebated door frame | 202 | Lm | | |
| D | 50 x 25mm shelf bearers | 123 | Lm | | |
| E | 25mm block board shelves hardwood lipped at edges | 16 | Sm | | |
| F | Ditto doors | 45 | Sm | | |
| | <u>Iron mongery with matching screws: -</u> | | | | |
| G | Brass piano hinges | 90 | Lm | | |
| H | 100mm cupboard pull handles | 112 | No | | |
| I | Approved ball catches | 112 | No | | |
| | <u>Store shelvings: -</u> | | | | |
| J | 50 x 25mm wrot hardwood shelf bearers | 39 | Lm | | |
| K | 25mm block board shelves hardwood lipped at edges | 20 | Sm | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| A | <u>Fume chamber (1 No.): -</u> 50 x 50 x 3mm thick aluminium framing including all necessary beadings, mastic locks and accessories | 3 | Sm | | |
| B | 5mm clear sheet glass 3 | 3 | Sm | | |
| C | Approved extractor fan | 1 | No | | |
| D | 100mm heavy duty PVC out-let pipe | 3 | Lm | | |
| E | <u>White boards: -</u> White board size 6 x 1.2m including aluminium framing | 2 | No | | |
| F | <u>Painting: -</u> <u>Prepare and apply undercoat and two coats gloss oil paint on: -</u> Plastered dwarf walls | 132 | Sm | | |
| G | General surfaces of timber | 162 | Sm | | |
| H | Surfaces of timber 200 - 300mm girth | 202 | Lm | | |
| I | Surfaces not exceeding 100mm girth | 162 | Lm | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <u>Gas cylinder cubicle: -</u> | | | | |
| A | Plain concrete (1:3:6) in 100mm plinth | 1 | Sm | | |
| B | Formwork to edges of plinth 75 - 150mm wide | 4 | Lm | | |
| C | 150mm thick coral block dwarf walling in cement sand (1:3) mortar | 5 | Sm | | |
| D | Vibrated reinforced concrete (1:2:4) in 100mm worktop | 1 | Sm | | |
| E | Formwork to soffites of worktop | 1 | Sm | | |
| F | Ditto edges 75 - 150mm wide | 4 | Lm | | |
| G | 10mm diameter high yield reinforcement bars | 8 | Kg | | |
| H | 15mm thick cement sand (1:3) plaster on worktop | 2 | Sm | | |
| I | Ditto on dwarf walls | 10 | Sm | | |
| J | Heavy duty mild-steel door size 1000 x 1500mm including hinges, bolts and metal lugs | 1 | No | | |
| K | Prepare and apply undercoat and two coats gloss oil paint on plastered dwarf walls | 10 | Sm | | |
| L | Prepare and apply primer and two coats gloss oil paint on mild-steel door | 3 | Sm | | |
| | Carried to collection below | | | | |
| | <u>COLLECTION:-</u> | | | | |
| | Brought forward from page LAB / 9 | | | | |
| | Brought forward from page LAB / 10 | | | | |
| | Brought forward from page LAB / 11 | | | | |
| | Brought down from above | | | | |
| | TOTAL OF FIXTURES AND FITTINGS, | | | | |
| | CARRIED TO SUMMARY | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <u>ELEMENT NO. 7: -</u> | | | | |
| | <u>FINISHES: -</u> | | | | |
| | <u>Wall finishes: -</u> | | | | |
| A | 15mm thick cement, sand, lime (1:1:6) plaster on walls internally | 417 | Sm | | |
| B | Ditto door and window jambs | 32 | Sm | | |
| C | 15mm thick cement sand (1:3) rendering on walls externally | 225 | Sm | | |
| | <u>Floor finishes: -</u> | | | | |
| D | 25mm thick cement sand (1:3) floor screed | 321 | Sm | | |
| E | 100 x 25mm ditto skirting | 136 | Lm | | |
| | <u>Painting: -</u> | | | | |
| F | Prepare and apply undercoat and two coats plastic emulsion paint on plastered walls internally | 225 | Sm | | |
| G | Ditto externally | 113 | Sm | | |
| H | Prepare and apply undercoat and two coats gloss oil paint on plastered walls internally | 225 | Sm | | |
| I | Ditto externally | 113 | Sm | | |
| | TOTAL OF FINISHES, | | | | |
| | CARRIED TO SUMMARY | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <u>ELEMENT NO. 8: -</u> | | | | |
| | <u>RAMP: ~</u> | | | | |
| A | Excavate oversite average 150mm deep and cart away | 8 | Sm | | |
| B | Excavate trench for strip foundation not exceeding 1.5m deep | 9 | Cm | | |
| C | Return fill and ram | 4 | Cm | | |
| D | Cart away surplus excavated material from site | 5 | Cm | | |
| E | 300mm thick approved hardcore | 8 | Sm | | |
| F | 50mm thick murrum blinding | 8 | Sm | | |
| G | Mass concrete (1:3:6) in foundation | 2 | Cm | | |
| H | Ditto in 100mm surface bed | 12 | Sm | | |
| I | Formwork to edges of slab 75 - 150mm wide | 16 | Lm | | |
| J | 150mm coral block edges walling in cement sand (1:3) mortar | 8 | Sm | | |
| K | 25mm thick cement sand (1:3) floor screed | 12 | Sm | | |
| | TOTAL OF RAMPS, | | | | |
| | CARRIED TO SUMMARY | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <u>ELEMENT NO. 9: -</u> | | | | |
| | <u>PLUMBING WORKS: -</u> | | | | |
| A | 25mm diameter heavy duty PPR pipe | 10 | Lm | | |
| C | 15mm ditto | 63 | Lm | | |
| | <u>Extra-over pipework for: -</u> | | | | |
| D | 25mm elbows | 4 | No | | |
| E | 20mm ditto | 39 | No | | |
| F | 15mm ditto | 21 | No | | |
| G | 25mm tees | 4 | No | | |
| H | 20mm ditto | 39 | No | | |
| I | 15mm ditto | 21 | No | | |
| J | 20 x 20 x 15mm tees | 48 | No | | |
| K | 25mm sockets | 3 | No | | |
| L | 20mm ditto | 19 | No | | |
| M | 15mm ditto | 10 | No | | |
| N | 25mm unions | 3 | No | | |
| O | 20mm ditto | 10 | No | | |
| P | 15mm ditto | 6 | No | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| A | 15mm nipples | 52 | No | | |
| | <u>Flexible tubes: -</u> | | | | |
| B | 15mm diameter x 450mm long flexible tubes | 48 | No | | |
| | <u>Gate valves: -</u> | | | | |
| C | 25mm diameter gate valve - peggler | 2 | No | | |
| D | 20mm ditto | 2 | No | | |
| | <u>Lab sinks: -</u> | | | | |
| E | 500 x 500mm heavy duty "Vulcathene" lab sinks, including lab taps, 40mm vulcathene waste outlet, plug and chain | 48 | No | | |
| | <u>Internal drainage: -</u> | | | | |
| F | 40mm diameter heavy duty PVC waste pipe | 128 | Lm | | |
| | <u>Extra-over pipe work for: -</u> | | | | |
| G | 40mm tees | 72 | No | | |
| H | 40mm inspection end caps | 10 | No | | |
| I | 40mm bends | 4 | No | | |
| | <u>Traps: -</u> | | | | |
| J | 40mm diameter approved heavy duty sink traps | 48 | No | | |
| K | 100mm diameter gulley trap including masonry chamber | 24 | No | | |
| | <u>Tank: -</u> | | | | |
| L | 3000 litres capacity plastic water tank as "ROTO" or equal and approved | 1 | No | | |
| M | 25mm diameter ball valve as portsmouth or equal and approved | 1 | No | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <u>Water reticulation: ~</u> | | | | |
| A | Excavate trench for supply pipe average 1000mm deep, part return fill and ram and remainder cart away | 35 | Lm | | |
| B | 25mm diameter heavy duty PPR pipe laid in trench | 35 | Lm | | |
| C | Extra-over pipe work for 25mm sockets | 6 | No | | |
| D | Ditto tees | 5 | No | | |
| E | Ditto elbows | 5 | No | | |
| F | 25mm diameter heavy duty gate valve - peggler | 2 | No | | |
| | <u>Builders work in connection with plumbing works: ~</u> | | | | |
| G | Form chase for small pipe in walling and slab, including making good disturbed surfaces | 318 | Lm | | |
| H | Form or leave hole in 200mm walling for small pipe | 80 | No | | |
| | <u>Water tank tower: ~</u> | | | | |
| I | Excavate pits for column bases not exceeding 1.5m deep | 5 | Cm | | |
| J | Return fill and ram | 2 | Cm | | |
| K | Cart away surplus excavated material from site | 3 | Cm | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| A | Plain concrete (1:4:8) in 50mm blinding under column bases | 3 | Sm | | |
| | <u>Vibrated reinforced concrete (1:2:4) in: ~</u> | | | | |
| B | Column bases | 1 | Cm | | |
| C | Columns | 2 | Cm | | |
| D | Beams | 1 | Cm | | |
| E | 150mm suspended slab | 2 | Sm | | |
| | <u>Formwork to: ~</u> | | | | |
| F | Vertical sides of columns | 23 | Sm | | |
| G | Sides of beams | 14 | Sm | | |
| H | Soffites of suspended slab | 2 | Sm | | |
| I | Edges of suspended slab 75 - 150mm wide | 6 | Lm | | |
| J | 8mm diameter high yield deformed bars | 86 | Kg | | |
| K | 12mm ditto | 236 | Kg | | |
| L | 15mm thick cement sand (1:3) rendering on concrete surfaces | 34 | Sm | | |
| | <u>Testing:-</u> | | | | |
| M | Allow for testing the plumbing system to the satisfaction of the Project Manager | 1 | Item | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|--------------|
| | <p><u>COLLECTION: ~</u></p> <p>Brought forward from page LAB / 15</p> <p>Brought forward from page LAB / 16</p> <p>Brought forward from page LAB / 17</p> <p>Brought forward from page LAB / 18</p> | | | | |
| | <p>TOTAL OF PLUMBING WORKS,</p> <p>CARRIED TO SUMMARY</p> | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| | <u>ELEMENT NO. 10: -</u> | | | | |
| | <u>EXTERNAL SOIL DRAINAGE: -</u> | | | | |
| A | Excavate trench for drain pipe average 1000mm deep, part return fill and ram and remainder cart away | 130 | Lm | | |
| B | 100mm diameter heavy duty PVC drain pipe laid in trench | 130 | Lm | | |
| C | 600 x 450 x 1000mm average deep standard manholes | 18 | No | | |
| D | 600 x 450mm heavy duty PVC cover and frame | 10 | No | | |
| | <u>Soak pit size 2m diameter x 7.5m deep: -</u> | | | | |
| E | Excavate pit not exceeding 1.5m deep | 5 | Cm | | |
| F | Ditto 1.5 ~ 3.0m deep | 5 | Cm | | |
| G | Ditto 3.0 ~ 4.5m deep | 5 | Cm | | |
| H | Ditto 4.5 ~ 6.0m deep | 5 | Cm | | |
| I | Ditto 6.0 ~ 7.5m deep | 5 | Cm | | |
| J | Extra-oeer excavation for excavating in rock | 16 | Cm | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| A | Cart away excavated material from site | 25 | Cm | | |
| B | Allow for planking and strutting | 1 | Item | | |
| C | Allow for keeping excavations free from water | 1 | Item | | |
| D | Plain concrete (1:3:6) in foundation | 1 | Cm | | |
| E | Vibrated reinforced concrete (1:2:4) in 100mm cover slab | 3 | Sm | | |
| | <u>Sawn formwork to: -</u> | | | | |
| F | Sides of foundation | 2 | Sm | | |
| G | Soffites of suspended slab | 3 | Sm | | |
| H | Edges of suspended slab 75 - 150mm wide | 6 | Lm | | |
| I | Box out formwork to form opening size 600 x 450mm | 1 | No | | |
| J | 10mm diameter high yield reinforcement bars | 30 | Kg | | |
| K | 200mm thick coral block walling in cement sand (1:3) mortar | 23 | Sm | | |
| | Carried to collection | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|--|---|-----|------|------|--------------|
| A | Approved hardcore backfill | 18 | Cm | | |
| B | 600 x 450mm heavy duty PVC cover and frame | 1 | No | | |
| C | 15mm thick cement sand (1:3) plaster externally | 5 | Sm | | |
| D | <p>Testing: Allow for testing the drainage system to the satisfaction of the Project Manager</p> <p style="text-align: center;">Carried to collection below</p> <p>COLLECTION: ~ Brought forward from page LAB / 20 Brought forward from page LAB / 21 Brought down from above</p> | 1 | Item | | |
| TOTAL OF EXTERNAL SOIL DRAINAGE, CARRIED TO SUMMARY | | | | | |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|---|-----|------|------|--------------|
| | <u>SUMMARY: ~</u> | | | | |
| 1 | SUBSTRUCTURE FROM PAGE LAB / 3 | | | | |
| 2 | RING BEAM AND WALLING FROM PAGE LAB/4 | | | | |
| 3 | ROOFING FROM PAGE LAB / 5 | | | | |
| 4 | DOORS FROM PAGE LAB / 7 | | | | |
| 5 | WINDOWS FROM PAGE LAB / 8 | | | | |
| 6 | FIXTURES AND FITTINGS FROM PAGE LAB / 12 | | | | |
| 7 | FINISHES FROM PAGE LAB / 13 | | | | |
| 8 | RAMPS FROM PAGE LAB / 14 | | | | |
| 9 | PLUMBING WORKS FROM PAGE LAB / 19 | | | | |
| 10 | EXTERNAL SOIL DRAINAGE FROM PAGE LAB / 22 | | | | |
| | TOTAL OF BUILDERS WORK, | | | | |
| | CARRIED TO MAIN SUMMARY | | | | |

LAB / 23

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|---------|--|-----|------|------|------------------|
| | <u>PRIME COST AND PROVISIONAL SUMS: ~</u> | | | | |
| | <u>PRIME COST SUMS: ~</u> | | | | |
| A | Provide a prime cost sum of Kenya Shillings Three Hundred Thousand for Electrical Installation | | | | 300,000 |
| B | Provide a prime cost sum of Kenya Shillings Three Hundred and Fifty Thousand for Gas Installation | | | | 350,000 |
| C | Provide a prime cost sum of Kenya Shillings One Hundred Thousand for Fire Extinguishers | | | | 100,000 |
| | <u>PROVISIONAL SUMS: ~</u> | | | | |
| D | Provide a provisional sum of Kenya Shillings One Hundred Thousand for Contingencies | | | | 100,000 |
| E | Provide a provisional sum of Kenya Shillings Two Hundred Thousand for Project Administration Cost | | | | 200,000 |
| F | Provide a provisional sum of Kenya Shillings Two Hundred and Fifty Thousand for Project Management and Supervision | | | | 250,000 |
| | TOTAL OF PROVISIONAL AND PRIME COST | | | | |
| | SUMS, CARRIED TO SUMMARY | | | | 1,300,000 |

| Item No | Description | Qty | Unit | Rate | Total (Kshs) |
|--|--|-----|------|------|--------------|
| | <u>MAIN SUMMARY: -</u> | | | | |
| A | - PRELIMINARIES | | | | |
| B | BUILDERS WORK FROM PAGE LAB / 23 | | | | |
| C | P.C & PROVISIONAL SUMS FROM PAGE PS/ 1 | | | | 1,300,000 |
| | SUB-TOTAL | | | | |
| | ADD 16% VAT | | | | |
| TOTAL CARRIED TO FORM OF TENDER | | | | | |

AMOUNT IN WORDS:

.....

CONTRACTOR'S NAME:

ADDRESS:

SIGNATURE: DATE:

NAME OF WITNESS:

ADDRESS:

SIGNATURE: DATE:

