



Bidding Document for Procurement Of:

CONSTRUCTION OF OFFICE BLOCK IN GARISSA AND A LABORATORY/ADMINISTRATION BUILDING IN DADAAB

NCB No: KE-GAWASCO-436012-CW-RFB

Project: WATER AND SANITATION DEVELOPMENT PROJECT
(WSDP)

Credit No.: IDA-60300KE

Country: REPUBLIC OF KENYA

Employer: GARISSA WATER AND SEWERAGE COMPANY LTD
(GAWASCO)

CONTENTS

BILL OF QUANTITIES VOLUME II

Issued on: August, 2024

Contents

| | |
|--|------------|
| 1. INTRODUCTION | 3 |
| 2. DEFINITIONS | 3 |
| 3. RATES AND PRICES TO BE FULLY INCLUSIVE..... | 4 |
| 4. MEASUREMENTS FOR PAYMENT | 4 |
| 4.1 LABOUR | 4 |
| 4.2 PLANT..... | 4 |
| 4.3 MATERIALS | 5 |
| 5. PROVISIONAL SUMS | 5 |
| 6. PROVISIONAL ITEMS | 5 |
| 7. METHODS OF PAYMENT | 5 |
| 8. CURRENCY OF THE BOQ..... | 5 |
| SECTION 01: PRELIMINARIES..... | 6 |
| SECTION 02: PROPOSED OFFICES FOR GAWASCO..... | 31 |
| SECTION 03: PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | 73 |
| SECTION 04: PROVISIONAL SUMS AND PRIME COSTS SUMS..... | 105 |
| SECTION 05: DAYWORKS | 109 |
| GRAND SUMMARY..... | 112 |

PREAMBLE TO BILL OF QUANTITIES

1. INTRODUCTION

It is necessary that the bidder fills in rates after having carried out thorough analysis of the proposed works.

The items are to be priced in conjunction with the drawings and specifications.

The bill of quantities is not exhaustive or explanatory of all the obligations and duties of the contractor. The contractor shall be deemed to have satisfied himself with the correctness and sufficiency of the rates and prices stated in the bill of quantities.

The bill of quantities shall cover all his obligations under the contract (including those in respect of the supply of goods, materials, plant or services) and all matters and things necessary for the proper execution and completion of the works.

Prices are to include the remedying of any defects therein and which may reasonably be inferred during the defect's liability period.

A detailed description of the works is listed in the particular specifications.

The contractor shall be deemed to have inserted against each item in the bills such rates and prices as he may deem necessary to cover the requirements of the contract. Where no rate or price is inserted against any item in the bills, the cost thereof will be deemed to have been priced elsewhere by the contractor and no additional payments will be paid. In the same con-text, the bidder shall not amend the bills of quantities.

All quantities measured for payment will be measured by the engineer on the basis of actual quantities in place of accepted works. Items not used shall not be measured or included by the contractor in his statements. Items listed as "sum" in the BoQ will also be paid as measured by the engineer, or paid upon completion of the respective item.

The quantities given in the bill are approximates. In no sense shall such quantities be considered as limiting or extending the amount of the work to be done by the contractor and of the materials to be supplied by him. The contractor shall be responsible for checking quantities and for making any necessary site investigations prior to placing his order for materials.

This bill of quantity shall form part of the contract.

2. DEFINITIONS

"As before" shall mean in all respects as earlier described in the same or a previous bill. "Do or Ditto" shall mean the whole of the preceding description except as qualified in the description in which it occurs. Where it occurs in descriptions of succeeding items it shall mean the same as in the first description of the

series in which it occurs except as qualified in the description concerned. Where it occurs in brackets it shall mean the whole of the preceding description which is contained within the appropriate brackets.

7,354,126.55 means: seven million, three hundred and fifty-four thousand, one hundred and twenty-six decimals fifty-five.

3. RATES AND PRICES TO BE FULLY INCLUSIVE

In pricing the items of the bill of quantities the contractor shall cover self and will be deemed to have covered self for:

- All work, services and materials which according to the true intent and meaning of the contract may be reasonably inferred as necessary for completion of the works described in the drawings, specifications and bill whether expressly mentioned therein or not.
- All duties, obligations, liabilities and responsibilities which the contract places upon the contractor in connection with or in relation to the contract.

More particularly the contractor shall include in his tendered prices, unless itemized separately, for:

- All costs of design and supply to the engineer of all necessary drawings and technical documents.
- All profits and charges for the supply and delivery of the plant.
- All costs and insurances of delivering the plant and materials to site.
- All costs of handling, moving into position, erecting and fixing including supervision, tools, special appliances, scaffolding, tackle, consumable items, etc.
- All costs for testing, disinfecting.
- All insurances as required by the conditions of contract.

The cost of preparing and submitting all drawings, details, manuals and progress reports required under the terms of the contract.

4. MEASUREMENTS FOR PAYMENT

4.1 LABOUR

The contract rates for excavations/Earthworks and other works are to be inclusive of all labour.

4.2 PLANT

The rates are to be inclusive of all plant and equipment to use, except where the equipment is listed separately.

4.3 MATERIALS

Payment for materials will be made on the actual amount of the materials delivered to the site.

The rates shall cover for profit, transport, all overhead charges, and other on-costs for whatever cause arising.

5. PROVISIONAL SUMS

No item for which a provisional sum is inserted shall be expended by the contractor until the engineer has given written instructions to this effect and it shall be the duty of the contractor to make an application to the engineer sufficiently in advance of the progress of the work for instructions with regard to such items. The contractor shall obtain competitive quotations and samples if required and shall submit these to the engineer for approval.

6. PROVISIONAL ITEMS

Provisional Items shall be used at the discretion of the engineer and only if ordered or required by the engineer in writing.

7. METHODS OF PAYMENT

To be prepared and submitted as per the bidding documents and procurement regulations volume 1

8. CURRENCY OF THE BOQ

The BoQ shall be priced in one currency only: Kenya Shillings as stipulated the Bid Data Sheet, BDS

| SECTION 01: PRELIMINARIES | | | | |
|---------------------------|--|----------|------|--------|
| Item | Description | Quantity | Rate | Amount |
| | Notes: | | | |
| | 1. The Conditions of Contract published by the World Bank. | | | |
| | 2. Tenderers are referred to the above-mentioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only. Where modifications are incorporated, these are referred to under the relevant clause or sub - clause heading as included in the "Particular Conditions". | | | |
| | 3. Tenderers are advised that any item left unpriced shall be deemed to have been included or allowed for elsewhere in prices | | | |
| | 4. Only those items which are priced in this Section, Preliminaries of the Bills of Quantities - will be reviewed for adjustment in the event of a variation and any such adjustment in each case shall be in accordance with the merits of each priced item in relation to the variation involved. Therefore, it is a condition of this Contract that this Section is priced according to the merits of each item. | | | |
| | 5. The contractor shall, within 14 days of taking possession of the site, give the Project Manager a breakdown, subdivided into the below categories, of the amount for preliminaries in tabulated form, all to the satisfaction of the Project Manager. | | | |
| | The amount of the preliminaries shall be adjusted in the following categories: - | | | |
| | (i) A fixed charge which shall not be varied. | | | |
| | (ii) A value related charge varied in proportion to the contract value as compared to the Contract sum. | | | |
| | (iii) A time related charge varied in proportion to the construction period as compared to the initial construction period. | | | |

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| | Should the contractor fail to provide such information within the period stipulated then the amount for the preliminaries shall be distributed by the Project Manager as he deems appropriate. | | | |
| A | METHOD OF MEASUREMENTS | | | |
| | The Contract Bills have been prepared in accordance with The Standard Method of Measurement of Building Works and associated Civil works, Second Edition (Metric) June 2008, published by the Architectural Association of Kenya, Chapter of Quantity Surveyors, which is available for inspection at the offices of the Project Manager by appointment. | | | |
| B | CONTRACT PARTICULARS | | | |
| | FORM OF CONTRACT | | | |
| | The Contractor will be required to enter into a Contract which will be as per the conditions of contract contained in the Standard Bidding Document for Procurement of Small Works published by the World Bank (2015 Edition) alongside with all updates and revisions. | | | |
| | The Contractor's attention is called to the following Clauses of the Conditions of Contract which shall be read in reference to the Particular Conditions of Contract & the Specifications as incorporated here-in the Tender documents and they shall allow any sums which they consider necessary for the carrying out and observance of such Conditions. | | | |
| | Clause 3: Language and Law | | | |
| | Clause 5 Delegation. | | | |
| | Clause 6 Communications. | | | |
| | Clause 7 Sub-contracting. | | | |
| | Clause 8 Other Contractors. | | | |
| | Clause 9 Personnel and Equipment. | | | |
| | Clause 10, 11 & 12 Employer's and Contractor's Risks. | | | |
| | Clause 13 Insurance. | | | |
| | Clause 14 Site Data. | | | |
| | Clause 15 Contractor to Construct the Works. | | | |
| | Clause 16 The Works to Be Completed by the Intended Completion Date | | | |
| | Clause 17 Approval by the Project Manager. | | | |
| | Clause 18 Health, Safety and Protection of the Environment. | | | |

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| | Clause 19 Archaeological and Geological Findings. | | | |
| | Clause 20 Possession of the Site | | | |
| | Clause 21 Access to the Site. | | | |
| | Clause 22 Instructions, Inspections and Audits. | | | |
| | Clause 23 Appointment of the Adjudicator. | | | |
| | Clause 24 Procedure for Disputes. | | | |
| | Clause 25 Fraud and Corruption. | | | |
| | Clause 26 Code of Conduct. | | | |
| | Carried to Collection | | | |
| | Clause 27 Security of the Site | | | |
| | Clause 28 Program. | | | |
| | Clause 29 Extension of the Intended Completion Date. | | | |
| | Clause 30 Acceleration. | | | |
| | Clause 31 Delays Ordered by the Project Manager. | | | |
| | Clause 32 Management Meetings. | | | |
| | Clause 33 Early Warning. | | | |
| | Clause 34 Identifying Defects. | | | |
| | Clause 35 Tests. | | | |
| | Clause 36 Correction of Defects. | | | |
| | Clause 37 Uncorrected Defects | | | |
| | Clause 38 Contract Price | | | |
| | Clause 39 Changes in the Contract Price. | | | |
| | Clause 40 Variations. | | | |
| | Clause 41 Cash Flow Forecasts. | | | |
| | Clause 42 Payment Certificates. | | | |
| | Clause 43 Payments. | | | |
| | Clause 44 Compensation Events. | | | |
| | Clause 45 Tax. | | | |
| | Clause 46 Currencies. | | | |

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| | Clause 47 Price Adjustment. | | | |
| | Clause 48 Price Retention. | | | |
| | Carried to Collection | | | |
| | Clause 49 Liquidated Damages. | | | |
| | Clause 50 Liquidated Damages. | | | |
| | Clause 51 Advance Payment. | | | |
| | Clause 52 Securities. | | | |
| | Clause 53 Day works. | | | |
| | Clause 54 Cost of Repairs. | | | |
| | Clause 55 Completion. | | | |
| | Clause 56 Taking Over. | | | |
| | Clause 57 Final Account. | | | |
| | Clause 58 Operating and Maintenance Manuals. | | | |
| | Clause 59 Termination. | | | |
| | Clause 60 Payment upon Termination. | | | |
| | Clause 61 Property. | | | |
| | Clause 62 Release from Performance. | | | |
| | Clause 63 Suspension of Bank Loan or Credit | | | |
| | Carried to Collection | | | |
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| | GENERAL MATTERS | | | |
| C | SUFFICIENCY OF TENDER | | | |
| | The Contractor shall be deemed to have satisfied himself before tending as to the correctness and sufficiency of his tender for the works and of the rates and prices used in arriving at the lump price(s) stated in the priced tender documents under the contract and all matters and things necessary for the proper completion and maintenance of the works. | | | |

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| D | DRAWINGS | | | |
| | i) Drawings used for the tender documents are attached to the tender. | | | |
| | Contractors to note that any difference between the tender drawings and or measured quantities do not give room for any claims. | | | |
| | ii) Before submitting tenders, contractors may examine all the drawings and satisfy themselves regarding all details as no claim by reason of ignorance to this connection will be entertained. | | | |
| | iii) The contract shall satisfy himself as the correctness of all drawings and measurement. if the contract finds any discrepancy between the drawings and the Bills of the Quantities, he shall immediately refer the same to the project manager who shall decide which shall be followed. | | | |
| | iv) Figured dimensions will be used in preference to scales mentioned on or attached to any drawing. | | | |
| | Carried to Collection | | | |
| | v) The contractor is to take the necessary particulars for ordering his and not use the bills of quantities for that purpose. | | | |
| | vi) while every effort shall be made to furnish the contractors with all necessary details, the contractors shall not demand bar bending schedules more than six weeks before they are required to be fixed on site. | | | |
| E | SITE | | | |
| | The sites are located at Garissa water & Sewerage Company Ltd Head office site, Garissa Town and within Dadaab | | | |
| | The sites of the works shall be used solely for the purpose of executing and completing the contract to the satisfaction of the project manager. | | | |
| | The contractor shall obtain the Project Manager's approval for the siting of all temporary storage areas for materials. All costs associated with temporary storage shall be the main contractor's responsibility | | | |
| | The contractor shall visit the site to acquaint themselves with its nature and position, scope of demolition works, the nature of the ground, sub- strata and other local conditions, site constrains, position of power and water supplies, access roads or any other limitations, and no claims for extras will be considered on account of lack of knowledge in this respect | | | |

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| | The contractor's attention is drawn to the fact that they shall confine themselves to the area necessary for executing the works as instructed by the project manager. | | | |
| | The contractor must obtain the project manager's approval and directions regarding the use of any material found on the site. Any such material utilized in the execution of the contract shall be measured and value assessed by the project manager and the amount credited to the employer. | | | |
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| F | <u>CONTRACTUAL REQUIREMENTS</u> | | | |
| | | | | |
| i | Allow for provision of Performance Security in accordance with Clause 42 of Section I of the General Conditions. | Item | L.S | |
| | | | | |
| ii | Allow for provision of Insurance of Works and Contractor's Equipment in accordance with Clause 13 of Section VIII of the General Conditions. | Item | L.S | |
| | | | | |
| iii | Allow for provision of Third-Party Insurance (including Employer's Property) all in accordance with Clause 13 of Section VIII of the General Conditions. | Item | L.S | |
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| iv | Allow for provision of Insurance against Accident to Workmen in accordance with Clause 13 of Section VIII of the General Conditions. | Item | L.S | |
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| G | FIGURED DIMENSIONS | | | |
| | Figured dimension are to be followed in preference to dimensions scaled from the Drawing; but whenever possible dimensions are to be taken on the site or from the building. Before any work is commenced by sub-contractor, specialist firms, dimension must be checked on the site and/or building and agreed and with the contractor irrespective of the dimensions shown on the drawing. The Contract comparable shall be responsible for the accuracy of such dimensions. | | | |
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| H | PROVISIONAL WORK | | | |
| | All "provisional" and other work liable to adjustment under this contract shall be left to uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by project manager. | | | |
| | Immediately after the work is ready for measurement, the contractor shall give notice to the project manager. | | | |
| | If the contractor makes default in these respects, he shall, if the project manager so directs, uncover the work at his own expense to enable the measurements to be taken. | | | |
| I | SITE CONSTRAINTS | | | |
| | The contractor must take all steps necessary to safe guard existing property, make good at their own expense any damage to persons or property caused thereon. | | | |
| | The contractor shall minimize nuisance from dust, noise or any other source to the occupiers of the existing adjacent property. | | | |
| J | SITE LEVELS | | | |
| | Before commencing work the contractor must arrange for and agree with the project manager the existing site levels and similarly establish and agree on a bench mark | | | |
| K | SETTING OUT | | | |
| | The contractor shall set out the works in accordance with the dimensions and levels shown on the drawings and shall be responsible for the correctness of all dimensions and levels so set out by him and will be required to amend all errors arising from inaccurate setting out at his own cost and expense. In the event of any error or discrepancy in the dimensions or levels marked on the drawings being discovered, such errors or discrepancies must be reported by the contractor to the consultants for their immediate attention | | | |

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| | No work shall be commenced by the contractor until he has received written instructions from the project manager to adjust such discrepancies which may be proved. Upon receipt of such instruction the contractor shall thereupon be adjustments necessary to comply with such instruction and <u>no claim for extra expense</u> or relief from the provisions or clauses of the conditions of contract based on any discrepancy or error in the dimension or levels shown on the drawings may be made thereafter. | | | |
| | Before any work is commenced by sub-contractors or specialist firms, dimensions must be checked on the site and/or buildings and agreed with the contractor irrespective of the comparable dimensions shown on the drawings. The contractor shall be responsible for the accuracy of such dimensions. | | | |
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| L | SAMPLES AND MOCK UPS | | | |
| | The Contractor shall furnish at the earliest possible opportunity before works commences and at his own cost, samples of materials or workmanship that may be called for by the consultants for their approval or rejection and any other samples in the case of rejections until such samples are approved by the consultants and such samples when approved shall be the minimum standard for the works to which they apply. | | | |
| | Samples and mock ups are to be, but not limited to; | | | |
| | Mock up floor finishes, wall finishes and ceiling finishes, Windows, Doors, iron-mongery and all specified products/materials | | | |
| M | AS BUILT DRAWINGS | | | |
| | The contractor shall prepare the requisite "As Built" drawings for Architectural and Mechanical/Electrical works to the satisfaction of the project manager. All expense therewith shall be borne by the contractor. The contractor shall allow for the maintenance of As Built drawings as the works progress to ensure that the works are accurately captured. | Item | 1 | |

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| | All As-Built drawings shall be on blue prints, at least A2 and shall bear the name, address, and telephone number of the firm preparing the drawing and the date the as-built data is added to the original via the revision block. The AS BUILT DRAWING or RECORD DRAWING shall be clearly labelled on each sheet. All drawings shall be submitted in the following formats: | | | |
| | Native CAD files (*.pln;*.pla;*.dwg etc.) and PDF format files should be generated using the same page size as the drawings Title Blocks. | | | |
| | Hard copies sheet size and the no. of copies to be determined through consultation with the project manager. | | | |
| N | EXISTING SERVICES | | | |
| | Prior to the commencement of any work the contractor is to ascertain from the relevant authorities the exact position, depth and level of all existing electric cables, water pipes and other services in the area and he shall make whatever provisions may be required by the authorities concerned for the support and protection of such services. Any damage or disturbance caused to any service shall be reported immediately to the project manager and the relevant authority shall be made good to their satisfaction at the contractor's expense. | | | |
| O | MATERIALS, TOOLS AND PLANT | | | |
| | The contractor shall provide all the necessary cranes, passenger and goods hoists, machinery, tackle, plant, vehicles, scaffolding, tools and appliances of every description for the satisfactory completion of the works and shall remove same on completion. | | | |
| | The contractor shall provide, erect and maintain all temporary scaffolding, sufficiently strong and efficient for the due performance of the works, including sub-contract works, provide special scaffolding as and when required during the works and remove on completion and make good. | | | |
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| | All such plant, tools and scaffolding shall comply with all regulations whether general or local in force throughout the period of the contract and shall be altered or adapted during the contract as may be necessary to comply with any amendments in or additions to such regulations. | | | |

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| | All such plants, tools and scaffolding is not measured hereinafter and the contractor must allow here or in his rates. | | | |
| P | STATUTORY REGULATIONS AND BY LAWS | | | |
| | The contractor is to comply with all local regulations and by-laws of the local Authority including serving of notices and application for statutory licenses and paying fees. | | | |
| Q | SUPERVISION | | | |
| | The said works shall be executed under the direction and to the entire satisfaction of the consultants and who shall at all times have access to the works and to the yards and workshops of the contractor or other places where work is being prepared for the building works. | | | |
| R | TRANSPORT TO AND FROM THE SITE | | | |
| | The contractor shall include in his prices for the transport of the materials, workmen, etc., to and from the site of the proposed works, at such hours and by such routes as are permitted by the authorities. | | | |
| | The contractor shall ensure that the picking and dropping off of workmen at the construction sites happen within the boundaries of the site. | | | |
| | All current rules by the Transport Licensing Board (TLB) of the Republic of Kenya shall be adhered to | | | |
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| S | ACCOMODATION ON SITE | | | |
| | No accommodation on site will be permitted for the contractor's staff or work people including those of sub- contractors unless with the approval of the project manager and the relevant authorities. | | | |
| T | FAIR WAGES | | | |
| | The contractor shall pay rates of wages and observe hours and conditions of labour not less favorable than the minimum rates of remuneration and minimum conditions of employment applicable in the district in which the work is carried out. The relevant notice must be posted up and be kept posted upon the site where it can be conveniently be read by the employees concerned. | | | |

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| | The contractor is to comply with the Regulation of Wages and Conditions of Employment Act, Building and Construction Industry Wages Council and is to be responsible for compliance by sub- contractors employed in the execution of the contract. | | | |
| | Should a claim be made to the consultants alleging the contractor's default in payment of fair wages of any workman employed on the contract and if proof thereof satisfactory to the consultants is furnished by the Labour Department, the consultants may, failing payment by the contractor, pay the claim out of any monies due or which may become due to the contractor under this contract. | | | |
| U | SECURITY OF WORKS | | | |
| | The contractor shall be entirely responsible for the security of all the works, stores, materials, plants, personnel etc., both his own and sub- contractors and shall provide all necessary watching, lighting and other precautions as necessary to ensure the security and the protection of the public. | Item | 1 | |
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| V | PUBLIC AND PRIVATE ROADS, PAVEMENT ETC., | | | |
| | The contractor will be required to make good at his own expense any damage he may cause to the present approach road surfaces and pavements within and beyond the site during the period of the works. | | | |
| | The contractor will ensure that his delivery trucks entering or leaving the site causes minimal environmental concerns by putting in place dust and mud control and ensuring that he adhere strictly to NEMA by laws. | | | |
| | The contractor shall ensure that an adequate storm water management plan and drainage system is in place within and around the site. | | | |
| W | AREAS TO BE OCCUPIED BY CONTRACTOR | | | |
| | The area of the site which may be occupied by the contractor for use as storage and for the purpose of erecting workshops, etc, shall be defined on the site by the project manager. | | | |
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| X | WORKING HOURS AND OVERTIME | | | |

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| | The working hours shall be 7:00am to 5:00pm Monday to Friday, and 7:00am to 1:00pm Saturdays. The work shall not be carried on Sundays, gazetted public holidays or above working hours unless under direct permission of NEMA as allowed for in the NEMA By Laws. | | | |
| | All working hours must conform to the requests of the statutory authorities. | | | |
| | If overtime is worked in accordance with a written instruction issued by the project manager, the contractor will be reimbursed in respect of such overtime to the extent only of the additional net cost of unproductive payable over and above the basic hourly rates as laid down by the Regulation of Wages and Conditions of Employment Act, Building and Construction Industry Wages Council and excluding any bonuses, profits and overheads. | | | |
| Y | CONTRACTOR'S SUPERINTENDENCE | | | |
| | The contractor shall constantly keep on the works One (1) literate English-speaking agents or representatives, competent and experienced in the type of work involved, who shall give their whole time to the superintendence of the works. Such agents or representatives shall receive on behalf of the contractor, directions and instructions from the project manager and such directions and instructions shall be deemed given to the contractor in accordance with the conditions of contract. The agents shall not be replaced without the specific approval of the project manager. | | | |
| | It is to be a specific condition of this contract that the successful tenderer shall provide on-site throughout the period up to the date for practical completion a suitably qualified, experienced and competent person to ensure that the works are carried out to the standard required by the specifications and detailed on the drawings; and shall ensure that upon any termination of employment a suitable replacement is found. | | | |
| | The contractor shall provide a sub-contracts manager to specifically co-ordinate sub-contractors activities. | | | |
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| | Before the tenderers offer is accepted, the project manager will personally interview the Contractor's proposed Representatives. Curriculum Vitae of the | | | |

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| | past experience and qualifications must be provided for the Project Manager's scrutiny. | | | |
| | The Contractor shall submit within 28 days after contract award, a site staff Organogram to the Project Manager for approval. | | | |
| | The project Manager's decision will be final regarding the suitability of the proposed Representatives. | | | |
| | The project manager shall for the entire duration of the contract, retain the right to ask the contractor to replace any site agent to the Project Manager's approval. | | | |
| Z | SUB- CONTRACTORS ATTENDANCE | | | |
| | The Contractor shall accept responsibility for providing the following to all sub- contractors: | | | |
| | GENERAL ATTENDANCE- The following services are described as allow for general attendance | | | |
| | a) Use, for the purpose of the sub- contractor works of any scaffolding belonging to or provided by the contractor while it remains so erected upon the site, provided that no warranty or other liability on the part of the contractor or his other sub- contractors shall be created or implied in regard to the fitness, condition or suitability of the said scaffolding. | | | |
| | b) Provision of power, water, lighting, watching and attendance for the purpose of sub- contract works. | | | |
| | c)Use of sanitary accommodation, mess rooms and welfare facilities. | | | |
| | d)Provision of space for erection of offices or stores or space for storage of plant and materials. | | | |
| | e) Clearing away rubbish produced by them. | | | |
| | SPECIAL ATTENDANCE. The following services are applied under a separate item and where described under the following headings shall mean; | | | |
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| | a) Taking delivery shall mean the provision of unskilled labour necessary to attend upon the sub- contractor's workmen for the purpose of unloading plant and materials when received upon the site and placing in position within the sub-contractor's storage space or store | | | |
| | b) Hoisting shall mean the provision of unskilled labour and the use any Contractor's standing plant for the purpose of assisting the Sub- Contractors workmen inb hoisting the Sub- Contractors plant and materials to the various levels but not placing in its final position. | | | |
| AA | NOMINATED SUPPLIERS | | | |
| | The Contractor shall take delivery anywhere in Nairobi of all materials or goods supplied by the Nominated Suppliers and shall sign a receipt as having received them in good order and condition. He shall offload, transport to site, unload, hoist, provide safe storage and thereafter be responsible for any loss or damage or replacement of any such lost or damaged articles at his own expense and shall return empty cases if so required. Provision is made herein following each appropriate P.C. sums for the cost of the foregoing services against items reading "Take Delivery and Fix Only" | | | |
| AB | PRIME COST RATES | | | |
| | Where description of items includes a P.C. rate per unit this rate is to cover the net supply cost of the unit only. The Contractor's price must include for the cost of the unit at the rate stated, plus waste, taking delivery, storage, fixing in position, profit and overheads. The actual net cost per unit will be adjusted within the Final Account against the P.C. rate stated | | | |
| AC | PROGRAM OF WORKS | | | |
| | A Programme for the works is to be submitted in accordance with the Conditions of Contract. The Programme is to be a computerized critical path Programme schedule which the Contractor will prepare, develop and maintain during the course of the Contract. The schedule shall show in detail the construction time and order in which each section of the work is to be carried out and be sub- | | | |

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| | divided into elements, trades and tasks. The time schedule is to be agreed with the Consultants. | | | |
| | At the end of each month the Contractor is to incorporate actual start and finish dates into the time schedule and produce a construction schedule update and analysis for the Engineer. The analysis is to show actual start and finish dates, identify out of sequence work, critical activities and any constraints which have or may have an effect on the progress of the works. | | | |
| | During the execution of the works the Contractor will incorporate any changes to the time schedule only if approved in writing' by the Consultants arising for whatsoever reason, and produce a revised schedule. | | | |
| | The Contractor will provide the Project Manager with a soft copy of the time schedule including monthly updates, progress report: comprising photos and analysis together with four printed copies of the relevant data. | | | |
| | The contractor shall within the Programme, allow for at least 14 days for the approval of any submitted samples | | | |
| AD | RAIN & DELAYS | | | |
| | Contractors Method Statement and Programme should reflect how the wet seasons envisaged during the contract period and any adverse weather that is reasonably forecasted by the Kenya Meteorological department at the time of tender, with commensurate delays, will be accommodated within the contract period. | | | |
| AE | SITE PHOTOGRAPHS | | | |
| | The Contractor shall allow for taking digital site photographs on a weekly basis to the satisfaction of the Consultants. Copies of the photographs shall be provided to the V I Employer and Consultants as required, and a weekly record shall be placed on a board in the Site Office. | | | |

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| AF | LIGHTING AND POWER | | | |
| | The Contractor shall provide at his own risk and cost all artificial lighting and power on a 24 hour/7-day basis for use on the works, including Consultants offices and all subcontractors and specialists' requirements and including all temporary connections, wiring, fittings etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith. | | | |
| | All such temporary works shall be cleared away on completion. | | | |
| AG | WATER | | | |
| | The Contractor shall provide at his own risk and cost all water for use in connection with the Works including Consultants office and the work of sub-contractors; make arrangements with the Local Authority for the installation of a separate meter for all water used by him throughout the Contract and pay all costs and fees in connection therewith. The Contractor may however connect (if he wishes) into the existing water supply for water for use in connection with the work including the work of specialists and sub-contractors: but he shall make arrangements with the Employer | | | |
| | for the installation of a separate meter for all water used by him and the Sub-Contractors throughout the contract and pay all costs and fees in connection therewith at a rate to be agreed with the Employer in advance. The Contractor shall not use existing water services unless the said agreement with the Employer has been effected in writing. He shall also provide temporary storage tanks and tubing etc., as he may consider necessary and clear away at completion. All tanks for permanent retention/incorporation shall not be used for this item. | | | |
| | All water shall be fresh, clean and pure, free from earthy, vegetable or organic matter, acid or alkaline substance in solution or suspension. | | | |
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| AH | SAFETY | | | |
| | The Contractor shall comply at all times with the requirements of the Factory Act (Cap 514), Building Construction Rules. Supplement 18. Legal Notice No. 40 dated 5th April, 1984 and all subsequent revisions and / or amendments; he shall ensure that the safety of his work people and authorized visitors to the Site is protected at all times. In particular, there shall be proper provision of planked footways and guard rails to scaffolding, etc., protection against falling materials and tools and the Site shall be kept tidy and clear of dangerous rubbish. | | | |
| | The Contractor shall appoint a Safety Officer / Fire Marshal to the approval of the Project Manager and as required by the Factory Act and notify the Factory Inspector of his name. The Safety Officer / Fire Marshal shall be qualified in the Factory Act and must have had experience in First Aid and Fire safety. The Safety Officer / Fire Marshal shall be on site at all times and all directions given by the Project Manager to the Safety Officer shall be deemed to be Project Manager's Instructions and shall be complied with promptly without additional cost to the Contract. | | | |
| | A fully equipped first Aid kit and Portable fire extinguishers must be kept on site at all times. | | | |
| | The Project Manager shall be empowered to suspend work on the Site should he consider these conditions are not being observed, and no claim arising from such a suspension will be allowed. | | | |
| AI | PROTECTIVE CLOTHING | | | |
| | The Contractor shall provide all protective or any other special clothing or equipment for his employees that may be necessary. This shall include, inter-alia. safety helmets, gloves, goggles, earmuffs, gumboots, face masks, high visibility jackets, overalls and all Personal Protective Equipment according to the type of work. The Contractor shall ensure that safety helmets are worn by all staff and authorized visitors on site at all times. | Item | 1 | |
| a | OCCUPATIONAL HEALTH AND SAFETY (OHS) | | | |
| | The Contractor shall allow for meeting all requirements of the Occupational Safety and Health Act (OSHA) 2007 and its subsidiary legislation, and all health and safety provisions in the Project's ESMP | | | |

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|-----------|---|--|--|--|
| b | ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP) | | | |
| | The Contractor shall allow for meeting all requirements of the Environmental Management and Coordination Act (EMCA) 1999 and its subsidiary legislation, and the provisions in the Project's ESMP | | | |
| c | OCCUPATION CERTIFICATE | | | |
| | The Project Manager will provide to the Contractor a duly completed application together with the requisite "As Built" drawings. The contractor will be required to submit the application and obtain the Occupation Certificates from the Local Authority not later than the end of the Defects Liability Period. | | | |
| | The Contractor will deliver the original certificates to the owner with a copy to the Project Manager. The Contractor shall be responsible for obtaining the Occupation Certificate from the relevant Authorities and shall allow for all processes and procedures for expeditiously obtaining the same. | | | |
| | | | | |
| AJ | <u>MATERIALS AND WORKMANSHIP</u> | | | |
| | GENERALLY; | | | |
| | All materials shall be new unless otherwise directed or permitted by the Project Manager and in all cases where the quality of goods or materials is not described or otherwise specified, is to be the best quality obtainable in the ordinary meaning of the word "best" and not merely a trade signification of that word. | | | |
| | All materials and workmanship shall, unless otherwise specified or described, conform to the appropriate British Standards Institution Specification current at the date of Tender. | | | |
| | The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that such materials are on Site when required for use in the Works. | | | |
| | The Contractor shall be responsible for and shall replace or make good at his own expense any materials lost or damaged. | | | |

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| | The Works throughout shall be executed by skilled workmen well versed in their respective trades. | | | |
| | The contractor shall carry out concrete cube tests for all major concrete works for analysis by an independent laboratory to be approved by the consultants, the results of which must be shared with the consultants upon receipt of the results. | | | |
| AK | REJECTED WORKMANSHIP OR MATERIALS | | | |
| | Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the Site and replaced at the Contractor's expense, as required. | | | |
| | | | | |
| AL | PROPRIETARY MATERIALS | | | |
| | Where proprietary materials are specified herein- after, the Contractor may propose the use of materials of other manufacturer but of equal quality for approval by the Project Manager. | | | |
| | All materials and goods, where specified to be obtained from a particular manufacturer or supplier are to be used or fixed strictly in accordance with their instructions. | | | |
| AM | <u>TEMPORARY WORKS</u> | | | |
| | ACCESS TO SITE AND TEMPORARY ROADS | | | |
| | Means of access to the site shall be agreed with the Project Manager prior to commencement of the work and the Contractor must allow for building any temporary access roads for the transport of materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges or any other means or gaining access. | | | |
| | All access" shall be in accordance with the soil erosion and sedimentation control plan for the project as prepared by the contractor. | | | |

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| | The contractor shall provide adequate space for a minimum of Ten (10) parking spaces for consultants. | | | |
| | Upon the completion of the Works the Contractor shall remove such temporary roads, temporary culverts, bridges etc. and make good and reinstate all works and services disturbed to the satisfaction of the Project Manager. | | | |
| | | | | |
| AN | TEMPORARY BUILDINGS AND SITE OFFICE & SHED FOR STORAGE OF MATERIALS | | | |
| | The Contractor shall provide site office, mess rooms and all other buildings required by the contractor for his own use and the use of sub-contractors for both Garissa office and Dadaab laboratory site. The Contractor shall provide, erect and maintain on the site, in such positions as may be directed, ample temporary watertight, lock-up sheds for the proper storage and protection of cement and other materials liable to damage and shall remove same at completion and make good all surfaces disturbed. The stores shall be adequate for storage of the Employer's and sub contractor's goods and materials. | Item | 1 | |
| | | | | |
| AO | TELEPHONE & DATA SERVICES | | | |
| | The Contractor shall provide a cell phone for use on site for the period of the Works, and the contractor shall be responsible for all expenses involved with the relevant provider. The cellphone shall remain on site until completion of the works. The contractor shall also provide data connection services for use by the Client / Consultant representatives by way of a modem or any other approved and the contractor shall be responsible for all periodic expenses involved. | Item | 1 | |
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| AP | SANITATION FACILITIES | | | |
| | Contractor shall make arrangements for the necessary toilet facilities for their staff and workmen to the requirements and satisfaction of the Health authorities and maintain the same in a thoroughly clean and sanitary condition and pay all conservancy fees during the period of the Works and remove when no longer required for both Garissa and Dadaab site. The shed and water closet Shed be completed before the contractor will be permitted to commence the works. The Contractor shall allow for removing the said facilities and leaving the ground clean and free from pollution upon completion to the satisfaction of the Health and Medical authorities. | Item | 1 | |
| | | | | |
| AQ | SIGN BOARD | | | |
| | The Signboard and lettering on same for the display of the General and Sub-Contractors' names shall be of an approved size with the Employer's name painted thereon. The Project Manager's. Project Manager's Civil / Structural Engineers, Services Engineers and other Consultants' names shall be printed in 50 mm letters all to the Project Manager's approved design. No other signboard or advertising will be permitted without prior permission from the Project Manager. Rate to provide for 2 No signboards; one to be installed for the Garissa office site and one for Dadaab laboratory site. | Item | 1 | |
| | The Project's 3D image shall be fixed on the sign board. | | | |
| | The contractor shall also price for changing the 3D image appearing on the notice board and maintenance of the board including payments for all necessary permits and approvals until project completion for the two sites; Garissa and Dadaab | Item | 1 | |
| AR | SAFETY BOARDS | | | |
| | The Contractor shall allow for all safety notices and boards, as required by the OHS and Kenyan Law and as directed by the Project Manager for the 2 No. sites (Garissa & Dadaab). | Item | 1 | |

| | | | | |
|-----------|--|------|---|--|
| AS | HOARDING / SITE BOUNDARY | | | |
| | The Contractor shall enclose the site, with a hoarding 2.40 metres high, with openings and gates as required, constructed of substantial timbers to approval and covered with reasonably new corrugated galvanized iron sheeting painted to approval. | Item | 1 | |
| | If areas of the site are already built up and are in use during the currency of this project, the contractor must allow for keeping his/her employees from interfering with such other users and preventing and minimizing any nuisance arising from dust, noise or by way of trespass. | | | |
| | The Contractor shall also allow for thoroughly maintaining the same throughout the Contract and clearing away and making good disturbed surfaces on completion. The hoarding shall not be used for advertising unless expressly allowed by the Project Manager | Item | 1 | |
| | | | | |
| AT | PROTECTION OF WORKS, HOUSE KEEPING AND CLEANING | | | |
| | The Contractor shall during and, upon completion of the Works, at his own expense, remove and clear away plant, rubbish and unused materials and shall leave the whole of the Site and Works in a clean and tidy state to the satisfaction of the Project Manager, including clearing away and making good all traces of temporary access roads, offices, sheds, camps, etc. The Contractor is to find his own dump and shall pay all charges in connection therewith. | | | |
| | Contractor shall at all times keep site in a clean safe and tidy state including cleaning of access roads, paths and storm water drains around and adjacent to the site. | | | |

| AU | DIRECT CONTRACTS | | | |
|----|---|--|--|--|
| | The Employer shall have the right to employ other Contractors (hereinafter referred to as "Direct Contractors") to execute any special or other works whether contained in this Contract or not, concurrently with the work being executed under this Contract. In addition, the Employer shall have the right to send on to the Works any furniture, furnishings, curtaining, carpeting and fittings and have same installed by his own employees or by Direct Contractors. | | | |
| | The Contractor shall not be entitled to any percentage, profit or discount on the value of any work executed by "Direct Contractors but shall nevertheless allow these Direct Contractors and the Employer's employees to have access to the Works, allocate reasonable space in the building for the storage of their materials, tools and equipment, and co-ordinate the work of and "attend upon" such Direct Contractors as necessary all to the satisfaction of the Project Manager. | | | |
| | The Contractor shall allow the Direct Contractors, etc. to use. free of charge, the toilets and water and power supply of the site, and shall not in any way hinder or prevent the execution of their work. | | | |
| | The Contractor is to allow for any costs in connection with providing access for and coordinating and "attending upon" such Direct Contractors, etc. and for the use of the facilities stated above and no additional claim will be entertained due to the presence on the Works of such Direct Contractors. | | | |
| | Without in any way detracting from the generality of the above. Tenderers are advised that the following works may be carried out by the Employer or tenants and/or their direct contractors: Computer installations. Special wall and ceiling decor Burglar alarm and security installations Signage, graphics and the like Safes, Closed circuit television installation and access control installation. Emergency management system. | | | |

| | | | | |
|-----------|--|------|---|--|
| AV | OVERLOADING | | | |
| | The Contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the Works or temporary works, e.g. scaffolding, etc. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Project Manager for his approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the Engineers requirements in connection with the provision of temporary support work, etc. Any damage caused to the Works by overloading shall be made good by the Contractor at his sole expense. | | | |
| | Notwithstanding any approval, comments or directions given by the Project Manager the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense. | | | |
| | | | | |
| AW | GENERAL IN REGARD TO EARLY OCCUPATION BY CLIENT | | | |
| | The Contractor shall do everything necessary to complete the Works and the individual sections thereof by the dates stipulated in the Appendix to Conditions of Contract. | | | |
| | Including providing the requisite manpower and resources and working overtime, extra shifts, weekends, holidays, etc. | | | |
| | After progressive occupation by the Client, the Contractor shall carry out the balance of his work in such a manner as will least interfere with the activities of the Client's workmen. Direct Contractors and specialists who must be allowed free access at all times and for whom the Contractor must maintain all services and facilities. | | | |
| | Partial occupation of the building by Client for the purposes of interior fit - outs, etc., shall not be deemed to imply that practical completion of the relevant areas in relation to the respective clauses of the JBC Contract has been achieved. | | | |
| AX | CONCRETE AND OTHER TESTS | | | |
| | The Contractor must allow in his price for all costs in relation to concrete and other tests. | Item | 1 | |

| | | | | |
|-----------|---|--|--|--|
| | Concrete test cubes i.e. per set of three as later described in the specifications, including testing fees, labour and materials, making moulds, transport and handling etc. and ensuing copies of tests are promptly dispatched to the Project Manager's. Project Manager's and Civil/Structural Engineer's offices. | | | |
| | Tenderer to allow for undertaking successful tests throughout the project period as and when required at an approved Laboratory. | | | |
| AY | VALUE ADDED TAX (VAT) | | | |
| | The Contractor's attention is drawn to The Finance Bill. 1993 which requires payment by the Contractor of Value Added Tax (VAT) to the Government of Kenya for all contracts entered into after 1st September 1993. | | | |
| | The tender amount shall be considered to contain VAT at current rates. | | | |
| AZ | WITHHOLDING TAX | | | |
| | The Contractors attention is drawn to The Finance Bill 2002 (amended 2010) The Contractor shall ensure that he has full knowledge of the workings of withholding tax. Withholding tax shall be deducted from all payments, as applicable. | | | |
| BA | COPYRIGHT | | | |
| | The copyright of these documents is vested in the Project Manager and they may not be reproduced in whole or in part without the Project Manager's written permission. | | | |
| | | | | |
| | TOTAL AMOUNT - SECTION 01: PRELIMINARIES CARRIED TO GRAND SUMMARY | | | |

SECTION 02: PROPOSED OFFICES FOR GAWASCO

| | | | | | |
|-------------|--|-------------|-----------------|-------------|---------------|
| | | | | | |
| | PROPOSED OFFICE BLOCK FOR GAWASCO | | | | |
| | <u>ON PLOT No.</u> | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>ELEMENT NO. 1 : SUB-STRUCTURES (ALL PROVISIONAL)</u> | | | | |
| | | | | | |
| | <u>Filling</u> | | | | |
| A | 50mm Thick murram or quarry dust blinding to hardcore | SM | 455.1 | | |
| | | | | | |
| B | 300mm Approved hardcore or other approved fill materials to make up levels compacted inlayers 0f 150mm thickness. | CM | 136.5 | | |
| | | | | | |
| | <u>Damp-proof membrane</u> | | | | |
| | | | | | |
| C | 1000 Gauge polythene sheet laid under surface beds | SM | 470 | | |
| | | | | | |
| | <u>Anti-termite treatment</u> | | | | |
| D | Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to surfaces of hardcore, etc.. | SM | 470 | | |
| | | | | | |
| | <u>Vibrated reinforced concrete class 20 (20mm aggregate)</u> | | | | |
| | | | | | |
| E | 150mm Thick floor bed | SM | 470 | | |
| | | | | | |
| | <u>Fabric reinforcement</u> | | | | |
| | | | | | |

| | | | | | |
|---|--|----|-------|--|--|
| F | BRC mesh type No. A142 weighing 2.22kg/sm including 200mm minimum end and side laps | SM | 470 | | |
| | | | | | |
| | <u>Formwork to:</u> | | | | |
| | | | | | |
| G | Edges of slab 75 - 150mm girth | LM | 143 | | |
| | | | | | |
| | <u>Natural stone walling in cement and sand, mortar (1:4) with 26-gauge hoop iron in every alternate course</u> | | | | |
| | | | | | |
| H | Walling, thickness - 200mm | SM | 129.5 | | |
| | | | | | |
| | <u>Finishes to the plinths</u> | | | | |
| | | | | | |
| I | 19mm Thick cement sand rendering (1:3) to plinth walls | SM | 43 | | |
| | | | | | |
| J | Prepare and apply three coats black bituminous paint to rendered plinths externally | SM | 43 | | |
| | | | | | |
| | SUB-TOTAL 1-CARRIED TO COLLECTION | | | | |
| | | | | | |
| | <u>COLLECTION</u> | | | | |
| | | | | | |
| | SUB-TOTAL 1 | | | | |
| | | | | | |
| | TOTAL FOR SUB-STRUCTURES (PROVISIONAL) CARRIED TO SECTION SUMMARY. | | | | |
| | | | | | |

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|------|--|------|-----------|------|--------|
| | | | | | |
| | <u>ELEMENT NO. 2 : FRAME / R.C SUPERSTRUCTURE</u> | | | | |
| | <u>Vibrated reinforced concrete class 25 (20mm aggregate) in:</u> | | | | |
| | | | | | |
| A | Beams and Ring beams | CM | 28.8 | | |
| | | | | | |
| B | Columns | CM | 7.9 | | |
| | | | | | |
| C | 150mm thick slab | SM | 350 | | |
| | | | | | |
| D | Landing slabs, - 150mm | SM | 3 | | |
| | | | | | |
| E | Stairs and steps | CM | 12 | | |
| | | | | | |
| F | Gutter bottom thickness 150 mm | SM | 36.8 | | |
| | | | | | |
| G | Gutter sides, thickness 200mm | SM | 96.6 | | |
| | <u>Reinforcement (Provisional)</u> | | | | |
| | | | | | |
| | <u>High yield deformed steel bar reinforcement to B.S. 4461</u> | | | | |
| H | Assorted reinforcement bar sizes | KG | 13,800.00 | | |
| | | | | | |
| | <u>Sawn formwork to:</u> | | | | |
| I | Sides and soffites of beams and ring beams | SM | 336 | | |
| | | | | | |
| J | Columns | SM | 222 | | |
| | | | | | |

| | | | | | |
|---|--|----|-------|--|--|
| K | 150mm thick slab | SM | 350 | | |
| | | | | | |
| L | Ditto to edges of suspended slabs | LM | 100 | | |
| | | | | | |
| M | Landing slabs, - 150mm | SM | 3 | | |
| | | | | | |
| N | Risers - 75 to 150mm | LM | 24 | | |
| | | | | | |
| O | Edges of stairs, extreme height - 400mm | LM | 1.4 | | |
| | | | | | |
| P | To sides and bottom of concrete gutters | SM | 225.4 | | |
| | Structural steel | | | | |
| | <u>Supply and fix structural mild steel grade 43C : allow for SFW continuous smooth welding : 3.2mm blanked open ends : one workshop coat zinc chromate primer : with and including all connection plates, cleats, bolts and making holes for the same : (the tenderer shall allow for all required bolts, plates, angle cleats, truss to concrete beam connection plate rawl bolts and setting into position, end cleats and any other accessory within the all-in-rate for roof trusses: no further claim will be entertained for this items during post contract) : hoist and fix to position: including one zinc chromate primer before delivery to site and spray paint with three coats High Performance Acrylic Metal Coating paint to steelwork ; to Crown Paints or other equal and approved; painted in accordance with manufacturers specifications ; colour to approval : all as specified in Engineers drawings</u> | | | | |
| N | 150 x 150 x 5mm RHS Columns: with and including Base plate, anchor bolts, gussets etc. cut-out to Engineer's approval: all to Engineer's approval | KG | 197.4 | | |
| | | | | | |
| | Steel Sundries | | | | |
| Q | 270 x 180 x 20mm Thick Base Plate: 4 times drilled | NO | 4 | | |
| | | | | | |
| R | 18mm Diameter x 150mm Long HD Bolts: cast onto concrete | NO | 16 | | |
| | | | | | |
| | TOTAL FOR RC SUPERSTRUCTURE CARRIED TO SUMMARY. | | | | |

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|------|---|------|----------|------|--------|
| | <u>ELEMENT NO. 3: WALLING</u> | | | | |
| | | | | | |
| | <u>External Walling</u> | | | | |
| | | | | | |
| | <u>Machine cut stone walling in cement and sand mortar (1:3) with minimum crushing strength of 7.0 N/mm² reinforced with and including 25mm wide 26-gauge hoop iron at alternate courses.</u> | | | | |
| | | | | | |
| A | 200mm Thick stone walling | SM | 891.5 | | |
| | | | | | |
| B | Ditto but gable walling | SM | 107 | | |
| | | | | | |
| | <u>Internal Walling</u> | | | | |
| | <u>Machine cut stone walling in cement and sand mortar (1:3) with minimum crushing strength of 7.0 N/mm² reinforced with and including 25mm wide 26-gauge hoop iron at alternate courses</u> | | | | |
| | | | | | |
| C | 100mm Thick stone walls | SM | 47.3 | | |
| | | | | | |
| D | 150mm Thick stone walls | SM | 22.1 | | |
| | | | | | |
| E | 200mm Thick stone walls | SM | 551 | | |
| | | | | | |
| | TOTAL FOR WALLING CARRIED TO SECTION SUMMARY | | | | |
| | | | | | |

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|------|---|------|----------|------|--------|
| | | | | | |
| | <u>ELEMENT NO. 4: ROOFING AND RAINWATER DISPOSAL</u> | | | | |
| | <u>Roof Cover</u> | | | | |
| | <u>IT4/IT5 roofing sheets as per "safdek" or approved equivalent including all accessories, fixed strictly in accordance with the manufacturer's written instructions;</u> | | | | |
| | | | | | |
| A | Gauge 26 roofing covering – ‘pre-painted in the factory: colour to approval’ not exceeding 30 degrees from the horizontal including all necessary fixtures | SM | 600 | | |
| | | | | | |
| B | Matching ridge / hip cover to suppliers’ specifications | LM | 113 | | |
| | | | | | |
| | <u>(All provisional works)</u> | | | | |
| C | 100 x 50mm Wall plates including fixing with J bolts to masonry / concrete. | LM | 86 | | |
| | | | | | |
| D | 100 x 50mm Ties and struts | LM | 356 | | |
| | | | | | |
| E | 150 x 50mm Common Rafters | LM | 491.9 | | |
| | | | | | |
| F | 100 x 50mm Hip or valley rafters | LM | 48.5 | | |
| | | | | | |
| G | 200 x 50mm Ridge boards | LM | 51 | | |
| | | | | | |
| H | 100 x 50mm Tie beams | LM | 148 | | |
| | | | | | |
| I | 100 x 50mm Rafters | LM | 180 | | |

| | | | | | |
|-------------|---|-------------|-----------------|-------------|---------------|
| | | | | | |
| J | 100 x 50mm purlins | LM | 301.5 | | |
| | | | | | |
| | <u>Wrot general grade cypress as described:</u> | | | | |
| K | 200 x 25mm Fascia or badge boards | LM | 92 | | |
| | | | | | |
| L | 100 x 25mm Tongued and grooved boarding to eaves soffites including 50 x 50 sawn cypress branderling | SM | 32.2 | | |
| | | | | | |
| M | 25 x 25mm Quadrant beadings | LM | 184 | | |
| | | | | | |
| | <u>Knot, prime, stop and apply two undercoats and one gloss finishing coat of oil paint on wood work</u> | | | | |
| | | | | | |
| N | Surfaces of fascia boards 200 - 300mm girth | LM | 92 | | |
| | | | | | |
| | SUB-TOTAL 1-CARRIED TO COLLECTION | | | | |
| | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>Sundries</u> | | | | |
| | | | | | |
| A | Mortices in concrete for holding down bolts, and grouting in, size - 100 X 100 X 100mm | NO | 200 | | |
| | | | | | |
| B | 12mm Diameter rawl bolt with nut and washer, length - 175mm | NO | 120 | | |
| | | | | | |
| C | 3mm thick Mild steel Gussel plate, size - 200 x 500mm | NO | 120 | | |
| | | | | | |

| | | | | | |
|---|---|----|-----|--|--|
| D | 12mm Diameter rawl bolt with nut and washer, length - 175mm | NO | 120 | | |
| | | | | | |
| | <u>Rain Water Goods</u> | | | | |
| | <u>18 Gauge galvanized mild steel as described</u> | | | | |
| | | | | | |
| E | 800mm Girth box gutter fixed to fascia board and tucked under tiles | LM | 12 | | |
| | | | | | |
| F | Extra over ditto for cutting 100mm diameter hole | NO | 10 | | |
| | | | | | |
| G | 100mm Diameter UPVC downpipe | LM | 60 | | |
| | | | | | |
| H | Extra over ditto for sawn neck over 600mm wide eaves | NO | 10 | | |
| | | | | | |
| I | Extra over ditto for shoe | NO | 10 | | |
| | | | | | |
| | SUB-TOTAL 2-CARRIED TO COLLECTION | | | | |
| | | | | | |
| | <u>COLLECTION</u> | | | | |
| | | | | | |
| | SUB-TOTAL 1 | | | | |
| | | | | | |
| | SUB-TOTAL 2 | | | | |
| | | | | | |
| | TOTAL FOR ROOFING CARRIED TO SECTION SUMMARY. | | | | |
| | | | | | |

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|------|---|------|----------|------|--------|
| | | | | | |
| | <u>ELEMENT NO.5: WINDOWS</u> | | | | |
| | | | | | |
| | <u>Steel casement windows (Including Integral burglar proofing)</u> | | | | |
| | Supply and fix the following steel casement windows with permanent ventilation along the full length: finished with one coat red lead oxide primer, complete with 75mm heavy duty hinges, 300mm long heavy-duty window stays, and polished heavy-duty brass fasteners, including cutting, fixing lugs to walling and bedding all round frame in cement and sand (1:3) mortar all as per Architect's Drawing attached with the tender documents. | | | | |
| A | Window overall size 1800 x 1500mm high | NO | 5 | | |
| | | | | | |
| B | Ditto overall size 2400 x 1500mm ditto | NO | 30 | | |
| | | | | | |
| C | Ditto overall size 900 x 900mm ditto | NO | 20 | | |
| | | | | | |
| D | Ditto overall size 1200 x 1500mm ditto | NO | 12 | | |
| | | | | | |
| E | Ditto overall size 1200 x 1200mm ditto | NO | 4 | | |
| | | | | | |
| F | Ditto overall size 900 x 1200mm ditto | NO | 2 | | |
| | | | | | |
| G | Ditto overall size 1500 x 1500mm ditto | NO | 1 | | |
| | | | | | |
| H | Ditto overall size 3000 x 1500mm ditto | NO | 1 | | |
| | | | | | |
| I | Ditto overall size 900x 1500mm ditto | NO | 1 | | |
| | | | | | |
| | <u>The following in Wrot mahogany</u> | | | | |

| | | | | | |
|---|--|----|-------|--|--|
| J | 150 x 25mm window board with two labours and rounded edge plugged to walling | LM | 123 | | |
| K | 20mm Diameter quadrant | LM | 123 | | |
| | Vertical Blinds to the Windows | | | | |
| L | Supply and install vertical blinds with high quality fabric and as per the approved blind-type. Rate to include materials for the slats and controls as per the types instructed by the Engineer | LM | 123 | | |
| | Precast / insitu concrete: class 20/20 vibrated | | | | |
| M | 175x 75mm Window cill to approved profile jointed and pointed in cement and sand mortar (1:4) weathered and throated | LM | 142.2 | | |
| | Glazing | | | | |
| N | <u>4mm clear sheet glazing including fixing with tropicalized putty to:</u> | | | | |
| | Panes not exceeding 0.1sm | SM | 199.3 | | |
| | Painting and Decorating | | | | |
| | <u>Prepare and apply one undercoat wood preservative to woodwork before fixing</u> | | | | |
| O | Touch up primer prepare and apply three coats of gloss oil paint to metal surfaces of windows both sides measured overall | SM | 398.5 | | |
| | TOTAL FOR WINDOWS CARRIED TO SECTION SUMMARY | | | | |

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|------|---|------|----------|------|--------|
| | | | | | |
| | | | | | |
| | <u>ELEMENT NO.6 : DOORS</u> | | | | |
| | | | | | |
| | <u>45mm thick ordinary veneered semi solid core flush doors: -</u> | | | | |
| | | | | | |
| A | Double leaf door overall size 1900 x 2400mm high | NO | 1 | | |
| | | | | | |
| B | Ditto but 1200 x 2400 mm high | NO | 3 | | |
| | | | | | |
| C | Single leaf size 900 x 2100 mm high | NO | 19 | | |
| | | | | | |
| D | Ditto but size 900 x 2400 mm high | NO | 39 | | |
| | | | | | |
| | <u>Doors frames and finishing in wrought cypress</u> | | | | |
| | | | | | |
| E | 150 x 50mm Thick rebated frame | LM | 337.6 | | |
| | | | | | |
| F | 150 x 50mm Transom | LM | 34.1 | | |
| | | | | | |
| G | Architrave with one labour, size - 45 X 25mm | LM | 337.6 | | |
| | | | | | |
| H | 20mm Quadrant beading | LM | 337.6 | | |
| | | | | | |
| I | Glazing Beads, size - 15 x 15mm | LM | 55.6 | | |
| | | | | | |
| | <u>Supply and fix the following ironmongery all as per the "UNION" or other equal and approved:-</u> | | | | |

| | | | | | |
|---|---|-------|-------|--|--|
| | | | | | |
| J | 100mm Double washer stainless steel hinges | Pairs | 93 | | |
| | | | | | |
| K | 3 level lock complete with handle for the internal bedroom flush doors | NO | 43 | | |
| | | | | | |
| L | 2 level lock complete with handle for the internal bathroom flush doors | NO | 19 | | |
| | | | | | |
| M | 40mm Diameter rubber door stop | NO | 63 | | |
| | | | | | |
| N | Overhead door Closers with slide arms; with hold /open function; ref 8825 - H-SI or any equal an approved | NO | 63 | | |
| | | | | | |
| | <u>Painting and decoration</u> | | | | |
| | | | | | |
| | Prime back to surfaces of wood before fixing | | | | |
| | | | | | |
| O | Surfaces - not exceeding 100mm | LM | 675.2 | | |
| | | | | | |
| P | Surfaces exceeding 200mm girth but not exceeding 300mm girth | LM | 371.7 | | |
| | | | | | |
| | Knot, prime, prepare and apply three coats of paint to: | | | | |
| | | | | | |
| Q | Timber Door surfaces | SM | 214.9 | | |
| | | | | | |
| R | Wood surfaces not exceeding 100 mm girth | LM | 675.2 | | |
| | | | | | |
| S | Surfaces exceeding 200mm girth but not exceeding 300mm girth | LM | 371.7 | | |

| | | | | | |
|-------------|---|-------------|-----------------|-------------|---------------|
| | | | | | |
| | <u>Clear Sheet Glass to Fanlights</u> | | | | |
| | | | | | |
| T | 4mm Glass and glazing to timber with timber glazing beads (m.s.) in panes, girth - 0.10 to 0.50 square meters | SM | 8.4 | | |
| | | | | | |
| | | | | | |
| | TOTAL FOR DOORS CARRIED TO SECTION SUMMARY. | | | | |
| | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | | | | | |
| | <u>ELEMENT NO. 7 : EXTERNAL FINISHES</u> | | | | |
| | | | | | |
| | <u>Wall Finishes</u> | | | | |
| | | | | | |
| | <u>Cement and sand (1:4)</u> | | | | |
| | | | | | |
| A | 15mm Thick rendering to surfaces of beams and columns. | SM | 1,274.50 | | |
| | | | | | |
| B | Prepare and apply three coats of exterior quality paint to rendered concrete and masonry surfaces. | SM | 1,274.50 | | |
| | | | | | |
| | TOTAL FOR EXTERNAL FINISHES CARRIED TO SECTION SUMMARY. | | | | |
| | | | | | |

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|------|--|------|----------|------|--------|
| | | | | | |
| | <u>ELEMENT NO. 8 : INTERNAL FINISHES</u> | | | | |
| | | | | | |
| | <u>Floor Finishes</u> | | | | |
| | | | | | |
| | <u>Cement and sand (1:4) screed troweled smooth as a floor finish:</u> | | | | |
| | | | | | |
| A | Ditto but 32mm thick screed to receive ceramic tiles | SM | 630 | | |
| | | | | | |
| B | 330 x 330 x10mm Thick tiles on prepared backing (measured separately) complete with adhesive and grouting. | SM | 630 | | |
| | | | | | |
| C | 100x10mm thick ceramic as skirting | LM | 805 | | |
| | | | | | |
| D | Ceramic tiles Treads, size - 300 x 10mm | LM | 24 | | |
| | | | | | |
| E | Ceramic tiles Risers, size - 150 x 10mm | LM | 25.2 | | |
| | | | | | |
| | <u>Wall Finishes</u> | | | | |
| | <u>Cement and sand (1:1:6) lime plaster</u> | | | | |
| F | 12mm Thick two coat plaster to walls | SM | 927.9 | | |
| | | | | | |
| | <u>Prepare and apply three coats first grade silk vinyl paint to: -</u> | | | | |
| G | Plastered wall surfaces | SM | 927.9 | | |
| | | | | | |
| | <u>Wall tiles</u> | | | | |
| | | | | | |

| | | | | | |
|---|--|----|----------|--|--|
| H | 20mm thick backing to walls to receive tiles | SM | 313 | | |
| | | | | | |
| I | 250x250x8mm thick ceramic wall tiles fixed with adhesive and grout | SM | 313 | | |
| | | | | | |
| | <u>Ceiling Finishes</u> | | | | |
| | | | | | |
| | <u>Soft board ceiling</u> | | | | |
| | | | | | |
| J | 12mm thick soft board ceiling including 4 No trap doors 600 x 600mm. | SM | 356 | | |
| | | | | | |
| | <u>Sawn treated cypress</u> | | | | |
| K | 50 x 50mm cypress brandering | LM | 3,872.00 | | |
| | | | | | |
| L | 50 x 50mm ditto plugged | LM | 400 | | |
| | | | | | |
| | <u>Wrot prime grade cypress to:</u> | | | | |
| M | 100 x 25mm cornice | LM | 805 | | |
| | | | | | |
| | <u>Prepare and apply one undercoat two finishing coats of matt emulsion paint to: -</u> | | | | |
| | | | | | |
| N | Soft board ceilings | SM | 356 | | |
| | | | | | |
| O | Ditto to surfaces n.e 100mm girth | LM | 805 | | |
| | | | | | |
| | TOTAL FOR INTERNAL FINISHES CARRIED TO SECTION SUMMARY. | | | | |

| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
|------|---|------|----------|------|--------|
| | | | | | |
| | <u>ELEMENT NO. 9 : BALUSTRADING AND RAILING</u> | | | | |
| | | | | | |
| | <u>Sundries</u> | | | | |
| | | | | | |
| A | <u>Mortices in wall for end of balustrades and</u> | NO | 38 | | |
| | <u>rails, and grouting in, size - 75 x 75 x 75 mm</u> | | | | |
| | | | | | |
| | <u>Balustrade Railing in Rolled hollow section</u> | | | | |
| | | | | | |
| B | Balustrade railing with 1 No. RHS handrail size 75 x 50 x 3mm, 2 No. m.s. flats intermediate rails size 50 x 25mm and 20mm diameter m.s. bars in balustrades at 300mm centres including fixing balusters to mortices fixed into concrete at 400mm centres with 6mm diameter expanded holding down bolts with nuts and washers and painting in three coats gloss oil paint, overall height - 900mm | LM | 20.1 | | |
| | | | | | |
| | <u>Wrought Mahogany</u> | | | | |
| | | | | | |
| C | Moulded Handrail, size - 75 x 50mm | LM | 20.1 | | |
| | | | | | |
| | <u>Prepare and apply three coats polyurethane varnish to woodwork</u> | | | | |
| | | | | | |
| D | Surfaces, - 100 to 200mm girth | LM | 20.1 | | |
| | | | | | |
| | | | | | |
| | TOTAL FOR BALUSTRADING AND RAILING CARRIED TO SUMMARY SECTION. | | | | |

| | GENERAL SUMMARY FOR BUILDERS' WORKS | | | | |
|---|---|--|--|--|--|
| | | | | | |
| | <u>SECTION SUMMARY</u> | | | | |
| | | | | | |
| 1 | Substructures (All provisional) | | | | |
| | | | | | |
| 2 | R.C Superstructure / Frame | | | | |
| | | | | | |
| 3 | Walling | | | | |
| | | | | | |
| 4 | Roofing | | | | |
| | | | | | |
| 5 | Windows | | | | |
| | | | | | |
| 6 | Doors | | | | |
| | | | | | |
| 7 | External Finishes | | | | |
| | | | | | |
| 8 | Internal Finishes | | | | |
| | | | | | |
| 9 | Balustrades and Railing | | | | |
| | | | | | |
| | | | | | |
| | TOTAL AMOUNT FOR BUILDERS' WORK CARRIED TO GRAND SUMMARY | | | | |
| | | | | | |

| | BILL NO.1 OFFICE BLOCK - GROUND FLOOR (ELECTRICAL WORKS) | | | | |
|------|---|------|----------|------|--------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | Supply, Install, Test, Commission and Set to Work the following: - | | | | |
| | | | | | |
| A | Lighting point completely wired in 3x1.5mm ² single core PVC insulated copper cables drawn into 20mm diameter heavy gauge PVC conduits for one way switching including all accessories but excluding the switch. | No | 58 | | |
| | | | | | |
| B | As item (A) above but wired for two way switching | No | 16 | | |
| | | | | | |
| C | As item (A) above but wired for Ceiling Fan | No | 11 | | |
| | | | | | |
| D | As item (A) above but wired to be controlled by a photocell | No | 15 | | |
| | | | | | |
| E | 10A white moulded plate switch as Crabtree list No. 4070 or approved equivalent: - | | | | |
| | (a) 1-gang 1-way | No | 8 | | |
| | (b) 1-gang 2-way | No | 4 | | |
| | (c) 2-gang 1-way | No | 10 | | |
| | (d) 2-gang 2-way | No | 2 | | |
| | | | | | |
| F | 20A DP white moulded switched outlet with neon indicator for the Ceiling Fans as Crabtree list No. 4015/3 or A/E | No | 11 | | |
| | | | | | |
| G | Photocell kit with 70-75 lux switch-on level and 1.5 maximum differential and 5A switching capacity complete with wiring as Thorn Cat. No. QPK or approved equivalent | No | 1 | | |

| | | | | | |
|---|--|----|----|--|--|
| | | | | | |
| H | 10A 240V 4 Pole AC1 contactor as Telemecanique for the control of external lights | No | 1 | | |
| | | | | | |
| I | A versatile square luminaire, 600mm x 600mm for recessed/surface mounting with 36W LED light source, 4000K colour temperature, CRI>80 and a lifetime of 50,000 Hours @ L70 Ta 25C as Thorn Omega LED. or approved equivalent | No | 25 | | |
| | | | | | |
| J | As item I above but Emergency Version | No | 2 | | |
| | | | | | |
| K | 12W, 1200mm, LED batten luminaire, high colour rendering (CRI>80), IP 20, lifetime upto 20,000 hours, as Ledvance (Osram) or approved equivalent | No | 1 | | |
| | | | | | |
| L | Standard circular surface luminaire with polycarbonate body and trim in white, polycarbonate opal diffuser and integral control gear for 15W LED as Thorn Club or approved equivalent | No | 12 | | |
| | | | | | |
| M | 7W, 600mm, LED batten luminaire, high colour rendering (CRI>80), IP20, lifetime upto 20,000hrs as Ledvance (Osram) or approved equivalent mounted above the mirror | No | 9 | | |
| | | | | | |
| | SUB TOTAL 1-CARRIED TO COLLECTION | | | | |
| | | | | | |
| A | 15W LED, IP65, polycarbonate bulkhead with white base, tool-less gear tray fixation, with opal diffuser as Thorn Leopard or approved equivalent | No | 15 | | |
| | | | | | |

| | | | | | |
|---|---|----|----|--|--|
| B | Fresh contemporary circular luminaire with 1200lm, 12W LED with polycarbonate body and opal diffuser in polycarbonate with electronic gear connected to Quick Fix Bracket as Thorn Loire or approved equivalent | No | 8 | | |
| | | | | | |
| C | IP65 Self-contained emergency luminaire for ceiling mounting with local battery supply for 3h emergency lighting, display of luminaire status via status LED. Manual test, SelfTest as Thorn Voyager Solid or approved equivalent | No | 10 | | |
| | | | | | |
| D | Economical wall mounted maintained 3-hour duration emergency exit sign, IP20 with LED lamp, door illumination panel, down arrow ISO legend and epoxy coated mild steel construction as Thorn Voyager E Exit Sign LED | No | 4 | | |
| | | | | | |
| E | Fire alarm circuit completely wired in 3x2.5mm ² single core PVC insulated copper cables drawn into 20mm dia. heavy gauge PVC conduit including all accessories and moulded white 13A fused unswitched connection unit | No | 1 | | |
| | | | | | |
| F | 13A socket outlet point completely wired in 3x2.5mm ² single core PVC insulated copper cables drawn into 20mm diam. heavy gauge PVC conduits including 13A Twin-outlet socket plates as Crabtree range or equal and approved | No | 32 | | |
| | | | | | |
| G | 230.5mm(H)x328mm(W), grey ABS Galvanised Steel Access Floor Box 6 Universal Sockets+ 2 RJ45+ 2RJ11 as Tronic BF 320P or approved equivalent | No | 1 | | |
| | | | | | |

| | | | | | |
|--|--|----|----|--|--|
| H | Data/Voice socket outlet point comprising of 25mm diameter heavy gauge PVC conduit including all accessories and draw wire but excluding the socket outlet and the cabling (to be provided by others) | No | 12 | | |
| I | TV/SAT dual outlet for satellite Master Antenna TV system complete with draw wire in 25mm diameter heavy gauge PVC conduit but excluding the outlet and cabling (provided by others) | No | 2 | | |
| J | Cooker circuit completely wired in 3x6.0mm ² single core PVC insulated copper cables drawn into 25mm PVC conduit including white moulded 45A DP switched cooker control unit with 13A switched socket outlet and pilot light as Crabtree Cat. No. 4520/31 or approved equivalent and white moulded 45A cooker connector unit as Crabtree Cat. No. 4506 or approved equivalent | No | 1 | | |
| K | Hand drier circuit completely wired in 3x2.5mm ² single core PVC insulated copper cables drawn into 20mm diameter heavy gauge PVC conduit including white moulded 20A DP switched outlet with neon indicator as Crabtree Cat. No. 4015/3 | No | 5 | | |
| SUB TOTAL 2-CARRIED TO COLLECTION | | | | | |
| A | Air Conditioning circuit completely wired in 3x4.0mm ² single core PVC insulated copper cables drawn into 25mm diameter heavy gauge PVC conduit including white moulded 20A DP switch with neon indicator as Crabtree Cat. No. 4015/3 or approved equivalent and final connection for AC | No | 4 | | |

| | | | | | |
|---|--|----|----|--|--|
| B | One (1) Loop Analogue Addressable Fire Control Panel complete with battery and charger as Menvier Cat No. DF6100 or approved equivalent | No | 1 | | |
| C | Addressable call point incorporating short circuit isolator as Menvier Cat. No. MBG 814 or approved equivalent | No | 3 | | |
| D | Analogue addressable optical smoke detector incorporating short circuit isolator as Menvier Cat. No. MAP 820 or approved equivalent | No | 16 | | |
| E | Analogue addressable multi-mode heat detector incorporating short circuit isolator as Menvier Cat. No. MAH 830 or approved equivalent | No | 1 | | |
| F | Analogue addressable wall sounder incorporating short circuit isolator as Menvier Cat. No. MAS 850 LPS or approved equivalent | No | 3 | | |
| G | Wiring to all call points, detectors and sounders in 1.5mm ² twin with earth fire resistant screened cable drawn into 20mm diameter heavy gauge PVC conduit separate from other services and wired in a loop. | No | 23 | | |
| H | Flush Mounted, 12 Way 100A TP&N Distribution Board complete with integral hinged protective cover but excluding MCCBs as Crabtree Loadstar Cat. No.18LS12 or approved equivalent complete with the following: | No | 1 | | |
| I | 10 Amp S.P MCB | No | 6 | | |

| | | | | | |
|---|--|-----|----|--|--|
| J | 16 Amp S.P MCB | No | 10 | | |
| | | | | | |
| K | 32 Amp S.P MCB | No | 1 | | |
| | | | | | |
| L | 40 Amp S.P MCB | No | 2 | | |
| | | | | | |
| M | 40 Amp T.P MCB | No | 1 | | |
| | | | | | |
| N | 32 Amp AFDD+RCBO | No | 3 | | |
| | | | | | |
| O | Blanking plates for spare ways | No | 11 | | |
| | | | | | |
| | SUB TOTAL 3- CARRIED TO COLLECTION | | | | |
| A | Surge Protective Devices SPD Class II as ABB SPD FP-OVRT2 3N40-275PQS or approved equivalent | No. | 1 | | |
| | | | | | |
| B | 600x600x230mm, 16 SWG galvanized sheet steel weatherproof meter box | No. | 1 | | |
| | | | | | |
| C | 63 Amp TP MCCB installed in the meter board | No. | 1 | | |
| | | | | | |
| D | 250mm x 250mm x 150mm fully recessed metal spray painted box for data/voice cables | No. | 1 | | |
| | | | | | |
| E | 50mm diam. HG/PVC conduit for the ICT Cable | No | 20 | | |
| | | | | | |
| F | Sub-main wiring from the Meter Box to the GF Distribution Board in 5x16mm ² SC/PVC copper conductor cables all drawn in concealed 50mm diam. HG/PVC conduit | M | 15 | | |
| | | | | | |

| | | | | | |
|---|---|--------------------|----|--|--|
| G | Sub-main wiring from the GF Distribution Board to the FF Distribution Board in 5x10mm ² SC/PVC copper conductor cables all drawn in concealed 50mm diam. HG/PVC conduit | M | 15 | | |
| H | 2C, 6.0mm ² PVC/SWA/PVC copper cable from Office Block GF Distribution Board to LAB PDB (Power Draw in Box) | m | 30 | | |
| I | Cable glands for the 2C 6.0mm ² cable above | No | 2 | | |
| J | 2C, 6.0mm ² PVC/SWA/PVC copper cable from Office Block GF Distribution Board to Guard House PDB (Power Draw in Box) | m | 30 | | |
| K | Cable glands for the 2C 6.0mm ² cable above | No | 2 | | |
| L | Comprehensive protective multiple earthing in 1500mm long 12mm diameter pure electrolytic copper earth rod deep driven to permanent moisture level, copper clamp. 25mm ² green earth lead complete with all accessories and earth inspection pit. (Note: Use parallel rods if effective earthing cannot be achieved with 1 No. rod). | No. | 1 | | |
| | SUB TOTAL 4- CARRIED TO COLLECTION | | | | |
| | COLLECTION | | | | |
| | | SUB TOTAL 1 | | | |
| | | SUB TOTAL 2 | | | |

| | | | | | |
|---|---|--------------------|----|--|--|
| | | | | | |
| | | SUB TOTAL 3 | | | |
| | | | | | |
| | | SUB TOTAL 4 | | | |
| | | | | | |
| | GROUND FLOOR ELECTRICAL WORKS CARRIED TO ELECTRICAL SUMMARY | | | | |
| | | | | | |
| | BILL NO.2 OFFICE BLOCK - FIRST FLOOR (ELECTRICAL WORKS) | | | | |
| | | | | | |
| | Supply, Install, Test, Commission and Set to Work the following: - | | | | |
| | | | | | |
| A | Lighting point completely wired in 3x1.5mm ² single core PVC insulated copper cables drawn into 20mm diameter heavy gauge PVC conduits for one way switching including all accessories but excluding the switch. | No | 53 | | |
| | | | | | |
| B | As item (A) above but wired for two way switching | No | 20 | | |
| | | | | | |
| C | As item (A) above but wired for Ceiling Fan | No | 11 | | |
| | | | | | |
| D | 10A white moulded plate switch as Crabtree list No. 4070 or approved equivalent: - | | | | |
| | (a) 1-gang 1-way | No | 5 | | |
| | (b) 1-gang 2-way | No | 2 | | |
| | (c) 2-gang 1-way | No | 9 | | |
| | (d) 2-gang 2-way | No | 3 | | |
| | | | | | |

| | | | | | |
|---|---|----|----|--|--|
| E | 20A DP white moulded switched outlet with neon indicator for the Ceiling Fans as Crabtree list No. 4015/3 or A/E | No | 11 | | |
| | | | | | |
| F | A versatile square luminaire, 600mm x 600mm for recessed/surface mounting with 36W LED light source, 4000K colour temperature, CRI>80 and a lifetime of 50,000 Hours @ L70 Ta 25C as Thorn Omega LED or approved equivalent | No | 24 | | |
| | | | | | |
| G | As item F above but Emergency Version | No | 2 | | |
| | | | | | |
| H | 12W, 1200mm, LED batten luminaire, high colour rendering (CRI>80), IP 20, lifetime up to 20,000 hours, as Ledvance (Osram) or approved equivalent | No | 1 | | |
| | | | | | |
| I | Standard circular surface luminaire with polycarbonate body and trim in white, polycarbonate opal diffuser and integral control gear for 15W LED as Thorn Club or approved equivalent | No | 15 | | |
| | | | | | |
| J | 7W, 600mm, LED batten luminaire, high colour rendering (CRI>80), IP20, lifetime upto 20,000hrs as Ledvance (Osram) or approved equivalent mounted above the mirror | No | 7 | | |
| | | | | | |
| K | Fresh contemporary circular luminaire with 1200lm, 12W LED with polycarbonate body and opal diffuser in polycarbonate with electronic gear connected to Quick Fix Bracket as Thorn Loire or approved equivalent | No | 7 | | |
| | | | | | |
| L | IP65 Self-contained emergency luminaire for ceiling mounting with local battery supply for 3h emergency lighting, display of luminaire status via status LED. Manual | No | 5 | | |

| | | | | | |
|---|---|----|----|--|--|
| | test, Self-Test as Thorn Voyager Solid or approved equivalent | | | | |
| | | | | | |
| | SUB TOTAL 1-CARRIED TO COLLECTION | | | | |
| | | | | | |
| A | Economical wall mounted maintained 3-hour duration emergency exit sign, IP20 with LED lamp, door illumination panel, down arrow ISO legend and epoxy coated mild steel construction as Thorn Voyager E Exit Sign LED | No | 1 | | |
| | | | | | |
| B | IP65 single point suspension LED high bay luminaire with plug and play connection for rapid installation, 15000lm with rack/wide beam optic. Fixed output (HF) and DALI(HFI-X) as Thorn HiPak or approved equivalent | No | 6 | | |
| | | | | | |
| C | 13A socket outlet point completely wired in 3x2.5mm ² single core PVC insulated copper cables drawn into 20mm diam. heavy gauge PVC conduits including 13A Twin-outlet socket plates as Crabtree range or equal and approved | No | 26 | | |
| | | | | | |
| D | 230.5mm(H)x328mm(W), grey ABS Galvanized Steel Access Floor Box 6 Universal Sockets+ 2 RJ45+ 2RJ11 as Tronic BF 320P or approved equivalent | No | 1 | | |
| | | | | | |
| E | Data/Voice socket outlet point comprising of 25mm diameter heavy gauge PVC conduit including all accessories and draw wire but excluding the socket outlet and the cabling (to be provided by others) | No | 10 | | |
| | | | | | |

| | | | | | |
|---|--|----|----|--|--|
| F | TV/SAT dual outlet for satellite Master Antenna TV system complete with draw wire in 25mm diameter heavy gauge PVC conduit but excluding the outlet and cabling (provided by others) | No | 1 | | |
| | | | | | |
| G | Cooker circuit completely wired in 3x6.0mm ² single core PVC insulated copper cables drawn into 25mm PVC conduit including white moulded 45A DP switched cooker control unit with 13A switched socket outlet and pilot light as Crabtree Cat. No. 4520/31 or approved equivalent and white moulded 45A cooker connector unit as Crabtree Cat. No. 4506 or approved equivalent | No | 1 | | |
| | | | | | |
| H | Hand drier circuit completely wired in 3x2.5mm ² single core PVC insulated copper cables drawn into 20mm diameter heavy gauge PVC conduit including white moulded 20A DP switched outlet with neon indicator as Crabtree Cat. No. 4015/3 | No | 5 | | |
| | | | | | |
| I | Air Conditioning circuit completely wired in 3x4.0mm ² single core PVC insulated copper cables drawn into 25mm diameter heavy gauge PVC conduit including white moulded 20A DP switch with neon indicator as Crabtree Cat. No. 4015/3 or approved equivalent and final connection for AC | No | 5 | | |
| | | | | | |
| J | Addressable call point incorporating short circuit isolator as Menvier Cat. No. MBG 814 or approved equivalent | No | 1 | | |
| | | | | | |
| K | Analogue addressable optical smoke detector incorporating short circuit isolator as Menvier Cat. No. MAP 820 or approved equivalent | No | 15 | | |
| | | | | | |
| | SUB TOTAL 2-CARRIED TO COLLECTION | | | | |

| | | | | | |
|---|--|-----|----|--|--|
| | | | | | |
| A | Analogue addressable multi-mode heat detector incorporating short circuit isolator as Menvier Cat. No. MAH 830 or approved equivalent | No | 1 | | |
| | | | | | |
| B | Analogue addressable wall sounder incorporating short circuit isolator as Menvier Cat. No.MAS 850 LPS or approved equivalent | No | 1 | | |
| | | | | | |
| C | Wiring to all call points, detectors and sounders in 1.5mm ² twin with earth fire resistant screened cable drawn into 20mm diameter heavy gauge PVC conduit separate from other services and wired in a loop. | No | 18 | | |
| | | | | | |
| D | Flush mounted, 8 Way 100A TP&N MCB Distribution Board complete with integral main switch and hinged protective cover but excluding MCBs as Crabtree Loadstar Cat. No.18LS08 or approved equivalent | No | 1 | | |
| | | | | | |
| E | 10 Amp S.P MCB | No | 5 | | |
| | | | | | |
| F | 16 Amp S.P MCB | No | 10 | | |
| | | | | | |
| G | 32 Amp S.P MCB | No | 1 | | |
| | | | | | |
| H | 32 Amp AFDD+RCBO | No | 3 | | |
| | | | | | |
| I | Blanking plates for spare ways | No. | 5 | | |
| | | | | | |
| J | Surge Protective Devices SPD Class II as ABB SPD FP-OVRT2 3N40-275PQS or approved equivalent | No. | 1 | | |

| | | | | | |
|---|---|--------------------|---|--|--|
| | | | | | |
| | SUB TOTAL 3-CARRIED TO COLLECTION | | | | |
| | | | | | |
| | COLLECTION | | | | |
| | | | | | |
| | | SUB TOTAL 1 | | | |
| | | | | | |
| | | SUB TOTAL 2 | | | |
| | | | | | |
| | | SUB TOTAL 3 | | | |
| | | | | | |
| | FIRST FLOOR ELECTRICAL WORKS CARRIED TO ELECTRICAL SUMMARY | | | | |
| | | | | | |
| | BILL NO.3 GUARD HOUSE (ELECTRICAL WORKS) | | | | |
| | | | | | |
| | Supply, Install, Test, Commission and Set to Work the following: - | | | | |
| A | Lighting point completely wired in 3x1.5mm ² single core PVC insulated copper cables drawn into 20mm diameter heavy gauge PVC conduits for one way switching including all accessories but excluding the switch. | No | 4 | | |
| | | | | | |
| B | As item (A) above but wired to be controlled by a photocell | No | 4 | | |
| | | | | | |
| C | 10A, 1-gang 1-way, white moulded plate switch as Crabtree list No. 4070 or approved equivalent: - | No | 3 | | |
| | | | | | |
| D | Photocell kit with 70-75 lux switch-on level and 1.5 maximum differential and 5A switching capacity complete with wiring as Thorn Cat. No. QPK or approved equivalent | No | 1 | | |

| | | | | | |
|---|---|----|---|--|--|
| | | | | | |
| E | 12W, 1200mm, LED batten luminaire, high colour rendering (CRI>80), IP 20, lifetime upto 20,000 hours, as Ledvance (Osram) or approved equivalent | No | 1 | | |
| | | | | | |
| F | Standard circular surface luminaire with polycarbonate body and trim in white, polycarbonate opal diffuser and integral control gear for 15W LED as Thorn Club or approved equivalent | No | 2 | | |
| | | | | | |
| G | 7W, 600mm, LED batten luminaire, high colour rendering (CRI>80), IP20, lifetime upto 20,000hrs as Ledvance (Osram) or approved equivalent mounted above the mirror | No | 1 | | |
| | | | | | |
| H | 15W LED, IP65, polycarbonate bulkhead with white base, tool-less gear tray fixation, with opal diffuser as Thorn Leopard or approved equivalent | No | 4 | | |
| | | | | | |
| I | 13A socket outlet point completely wired in 3x2.5mm ² single core PVC insulated copper cables drawn into 20mm diam. heavy gauge PVC conduits including 13A Twin-outlet socket plates as Crabtree range or equal and approved | No | 1 | | |
| | | | | | |
| J | Flush mounted, 4 Way 100A SP&N MCB Consumer Unit complete with 100A DP integral main switch and hinged protective cover but excluding MCBs as Crabtree Loadstar Cat. No.18MS4 or approved equivalent | No | 1 | | |
| | | | | | |
| K | 10 Amp S.P MCB | No | 2 | | |
| | | | | | |
| L | 20 Amp AFDD+RCBO | No | 1 | | |
| | | | | | |

| | | | | | |
|---|---|--------------------|----|--|--|
| M | Blanking plates for spare ways | No | 1 | | |
| | | | | | |
| | SUB TOTAL 1-CARRIED TO COLLECTION | | | | |
| | | | | | |
| A | Standard Cable Loop-in Box (CLB) to Engineer's approval complete with 80A lacy cut-out with neutral block and 60A HRC fuses. | No | 1 | | |
| | | | | | |
| B | Sub-main wiring from the Cable Loop-in Box (CLB) to the Lab Consumer Unit in 3x6.0mm ² SC/PVC copper cables all drawn in concealed 38mm diam. HG/PVC conduit | M | 15 | | |
| | | | | | |
| C | Earthing comprising of 6mm ² single core cable drawn into 20mm diameter heavy gauge PVC conduit, 1500mm long by 12mm diameter copper earth rod with clamo and inspection manhole with cover to KPLC statutory requirements | No | 1 | | |
| | | | | | |
| | SUB TOTAL 2-CARRIED TO COLLECTION | | | | |
| | | | | | |
| | COLLECTION | | | | |
| | | | | | |
| | | SUB TOTAL 1 | | | |
| | | | | | |
| | | SUB TOTAL 2 | | | |
| | | | | | |
| | GUARD HOUSE ELECTRICAL WORKS CARRIED TO ELECTRICAL SUMMARY | | | | |
| | | | | | |

| | SUMMARY FOR GARISSA OFFICE ELECTRICAL WORKS | | | | |
|-------------|---|-------------|-----------------|-------------|-------------------|
| | | | | | |
| A | BILL NO.1 - OFFICE BLOCK - GROUND FLOOR | | | | |
| | | | | | |
| B | BILL NO.2 - OFFICE BLOCK - FIRST FLOOR | | | | |
| | | | | | |
| C | BILL NO.3 - GUARD HOUSE | | | | |
| | | | | | |
| | TOTAL AMOUNT FOR GAWASCO OFFICE BLOCK ELECTRICAL WORKS CARRIED TO GRAND SUMMARY | | | | |
| | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT KSH |
| | | | | | |
| | BILL NO. 1 - SANITARY FITTINGS (GARISSA OFFICE BLOCK MECHANICAL WORKS) | | | | |
| | | | | | |
| | <i>Supply and install the following including all materials and jointing to supply, waste and over flow pipes. Note that trade names are used to signify the need for high quality and durable fittings. Equal and approved alternatives can be fitted where the quoted fittings are not available.</i> | | | | |
| | | | | | |
| A | WATER CLOSET | | | | |
| | Twyford white ceramic close coupled W.C. suite as complete with Seat and cover, soft closing mechanism6/4 litre dual flush cistern | No. | 14 | | |
| | | | | | |
| B | HAND WASH BASIN | | | | |

| | | | | | |
|---|--|-----|----|--|--|
| | <p>Twyforde Sola 510 No. WB 2525WH vitreous china wall hung wash basin size 510 x 420 mm.</p> <p>1 tap hole and chain stay hole.</p> <p>15mm chrome plated pillar tap to approval</p> <p>32mm chrome plated waste and chain</p> <p>32mm 75mm seal bottle trap, mounting brackets</p> <p>Semi pedestal as Galeria E54970WH wall mounting brackets</p> | No. | 11 | | |
| | | | | | |
| C | KITCHEN SINK | | | | |
| | Single bowl single drainer stainless kitchen sink measuring 1000x550 mm complete with 40 mm bottle trap, chain & plug Wall mounted extended bib tap with wall flange | No. | 1 | | |
| | | | | | |
| | MIRROR | | | | |
| D | 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600x500mm plugged and screwed to wall with 4 No. Chrome plated capped screws and 5mm thick foam back rest. | No. | 8 | | |
| | | | | | |
| | TOILET ROLL HOLDER | | | | |
| E | Vitreous china toilet roll holder to BS 3402 in white colour size 150x150mm and semi-recessed into wall. | No. | 12 | | |
| | | | | | |
| | SUB TOTAL 1- CARRIED TO COLLECTION | | | | |
| | | | | | |
| A | TOWEL RAIL | | | | |
| | 20 mm dia x 750 mm long chrome plated towel rail with chrome plated brackets, plugged and screwed to wall. | No. | 4 | | |
| | | | | | |

| | | | | | |
|---|--|--------------------|----|--|--|
| B | COAT HOOK | | | | |
| | Satin aluminum coated coat hook screwed to wall or door. | No. | 12 | | |
| | | | | | |
| C | SHOWER MIXER | | | | |
| | 15 mm diam bronze concealed valve with chrome plated handle to serve as shower mixer | No. | 1 | | |
| | | | | | |
| D | SHOWER ROSE | | | | |
| | 150 mm diameter metallic shower head | No. | 1 | | |
| | | | | | |
| E | LABORATORY SINK | | | | |
| | Vulcathene (polypropylene) (PP) laboratory sink size 522x400mm Complete with Heavy Duty swan-neck lab sink tap | No. | 1 | | |
| | SUB TOTAL 2- CARRIED TO COLLECTION | | | | |
| | | | | | |
| | COLLECTION PAGE FOR SANITARY FITTINGS | | | | |
| | | | | | |
| | | SUB TOTAL 1 | | | |
| | | | | | |
| | | SUB TOTAL 2 | | | |
| | | | | | |
| TOTAL SANITARY FITTINGS CARRIED TO MECHANICAL SUMMARY PAGE | | | | | |
| | | | | | |

| | | | | | |
|---|---|-----|----|--|--|
| | | | | | |
| | BILL NO. 2 - INTERNAL PLUMBING | | | | |
| | <i>PPR class PN16 pipes and fittings with welded and screwed joints chased in wall. Tenderers must allow in their prices for all the couplings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holderbats (plugged and screwed) PVC sleeves through block wall etc. Test pressure 6 bar.</i> | | | | |
| | | | | | |
| | <u>Piping</u> | | | | |
| A | 20 mm diam PPR pipe | Lm. | 30 | | |
| | | | | | |
| B | 25 mm ditto | Lm. | 20 | | |
| | | | | | |
| | <u>Extra over pipes for the following</u> | | | | |
| | <u>Bends</u> | | | | |
| C | 20 mm diam PPR bend | No. | 18 | | |
| | | | | | |
| D | 25 mm ditto | No. | 8 | | |
| | | | | | |
| | <u>Tees</u> | | | | |
| E | 20x20x20 mm. PPR Tee | No. | 2 | | |
| | | | | | |
| F | 25x25x25 ditto | No. | 6 | | |
| | | | | | |
| | <u>Reducers</u> | | | | |
| G | 25x20mm reducer | No. | 7 | | |
| | | | | | |
| | <u>Unions</u> | | | | |
| H | 20 mm diam. PPR union | No. | 2 | | |
| | | | | | |
| I | 25 mm. diam ditto | No. | 2 | | |

| | | | | | |
|---|---|------|---|--|--|
| | | | | | |
| | Adaptor | | | | |
| J | 25 mm diam. PPR female adaptor | No. | 6 | | |
| | | | | | |
| | Angle Valve | | | | |
| K | 15mm brass angle valve, chrome plated for wc | No. | 2 | | |
| | | | | | |
| SUB TOTAL 1- CARRIED TO COLLECTION | | | | | |
| | Gate Valves | | | | |
| | <i>Medium pressure screw down gate valve with wheel head (as 'Peglar' or equal and approved)</i> | | | | |
| A | 20 mm diam (c/w ppr female adaptors) | No. | 1 | | |
| | | | | | |
| B | 25 mm diam (c/w ppr female adaptors) | No. | 1 | | |
| | | | | | |
| | FLEXIBLE CONNECTOR | | | | |
| C | 15 mm braided flexible connector to fittings | No. | 6 | | |
| | | | | | |
| | ROOF WATER TANK | | | | |
| D | 5,000 liters rectangular plastic water storage tank complete with perforations for 20 mm inlet, 25mm outlet, and 25mm overflow, ball valve, back nuts, long thread ms nipples, etc. | No. | 1 | | |
| | TESTING AND COMMISSIONING | | | | |
| E | Allow for test testing and commissioning | Item | 1 | | |
| | | | | | |
| SUB TOTAL 2- CARRIED TO COLLECTION | | | | | |

| | | | | | |
|---|--|--------------------|----|--|--|
| | | | | | |
| | COLLECTION PAGE FOR INTERNAL PLUMBING | | | | |
| | | | | | |
| | | SUB TOTAL 1 | | | |
| | | | | | |
| | | SUB TOTAL 2 | | | |
| | | | | | |
| TOTAL FOR INTERNAL PLUMBING CARRIED TO MECHANICAL SUMMARY PAGE | | | | | |
| | | | | | |
| | BILL NO. 3 - INTERNAL DRAINAGE | | | | |
| | | | | | |
| | <i>Supply and fix UPVC soil system to BS 4660 and BS 4514; and MuPVC waste systems to BS 5255 with screwed and socketed joints to BS 21. Solvent welded joints shall be as per the systems manufacturer's written instruction. Tenderers must allow in their pipework prices for all the couplings, connectors, joints etc. as required in the running lengths of pipework, and also where necessary for pipe fixing clips, plugged and screw holderbats, etc. The installation must comply with BS 5572. Note: Where trade names are mentioned, the tender is to provide the same material and other brands shall not be accepted without a written authority from the Engineer or Architect. MuPVC Waste System conforming to BS 5255(H.D. as manufactured by 'Key Terrain')</i> | | | | |
| | | | | | |
| A. | 40 mm ditto | Lm | 2 | | |
| | | | | | |
| B | 50mm ditto | Lm | 2 | | |
| | | | | | |
| C | 110mm diam soil and waste pipe | Lm | 30 | | |
| | | | | | |
| | <u>Extra over pipework for the following: -</u> | | | | |

| | | | | | |
|---|--|-----|---|--|--|
| | | | | | |
| D | 40 mm. sweep bend | No | 2 | | |
| | | | | | |
| E | 50 mm. sweep bend | No | 2 | | |
| | | | | | |
| F | 110 mm. sweep bend | No | 5 | | |
| | | | | | |
| G | 40 mm sweep Tee | No | 1 | | |
| | | | | | |
| H | 50 mm sweep Tee | No | 1 | | |
| | | | | | |
| J | 110 mm ditto (single branch) | No | 1 | | |
| | | | | | |
| J | 40 mm ditto Access plug | No | 1 | | |
| | | | | | |
| SUB TOTAL -1 CARRIED TO COLLECTION | | | | | |
| | | | | | |
| A | 110x50 mm diam floor trap for shower | No | 1 | | |
| | | | | | |
| B | 110 mm gully trap c/w painted ms cover | No | 2 | | |
| | | | | | |
| C | 110 mm Weathering apron | No | 1 | | |
| | | | | | |
| D | 110 mm Weathering slate | No | 1 | | |
| | | | | | |
| E | 110 mm Vent cowl | No | 1 | | |
| | | | | | |
| F | 100 mm WC connector | No. | 2 | | |
| | | | | | |

| | | | | | |
|---|--|------|----|--------------------|--|
| G | Excavation in red soil for 110 drain pipe average depth of 600mm | LM | 25 | | |
| | | | | | |
| H | DILUTION POT | | | | |
| | Vulcathene 4.5 litre capacity dilution recovery trap with 76mm trap seal | No | 1 | | |
| | | | | | |
| I | VULCATHENE PIPE | | | | |
| | 40 mm vulcathene drainage pipes for Lab sink | Lm | 3 | | |
| | | | | | |
| J | VULCATHENE BEND | | | | |
| | 40 mm vulcathene bends for Lab sink drainage | No | 2 | | |
| | | | | | |
| H | Testing and commissioning | Item | 1 | | |
| | | | | | |
| SUB TOTAL-2 CARRIED TO COLLECTION | | | | | |
| | | | | | |
| | COLLECTION PAGE FOR INTERNAL DRAINAGE | | | | |
| | | | | | |
| | | | | SUB TOTAL-1 | |
| | | | | | |
| | | | | SUB TOTAL-2 | |
| | | | | | |
| TOTAL FOR INTERNAL DRAINAGE CARRIED TO MECHANICAL SUMMARY PAGE | | | | | |

| | | | | | |
|---|--|-----|----|--|--|
| | BILL NO. 4 | | | | |
| | PORTABLE FIRE FIGHTING EQUIPMENT | | | | |
| | <u><i>Supply, deliver, and install the following portable fire-fighting equipment as shown on the drawing.</i></u> | | | | |
| A | 9-Litre water / carbon dioxide fire extinguisher to BS 1382 and BS 5423, complete with full charge and mounting brackets | No. | 1 | | |
| | | | | | |
| B | 4.5 kg Carbon dioxide fire extinguisher to BS 3326 and BS 5423, complete with full charge and wall mounting brackets | No. | 1 | | |
| | | | | | |
| C | 5 kg. dry chemical powder fire extinguisher complete with charge and mounting brackets | No. | 1 | | |
| | | | | | |
| TOTAL FOR FIRE FIGHTING EQUIPMENT CARRIED TO MACHANICAL SUMMARY PAGE | | | | | |
| | BILL NO. 5 - AIR CONDITIONING | | | | |
| | <u><i>Supply, deliver, and install the following Air Conditioning equipment</i></u> | | | | |
| | | | | | |
| 1 | CEILING FAN | | | | |
| | 1200 mm diameter 3-blade ceiling fan 240 volts, 60 w, 3 speeds, remote controlled metal construction | No. | 25 | | |
| | | | | | |
| 2 | Ditto 18000BTU/h AC units | No | 5 | | |
| | | | | | |
| TOTAL FOR AIR CONDITIONING CARRIED TO MECHANICAL SUMMARY PAGE | | | | | |
| | | | | | |

| | | |
|---|--|--|
| | SUMMARY FOR GARISSA OFFICE PLUMBING (MECHANICAL WORKS) BILL 1 - 5 WORKS | |
| 1 | Total brought forward from Bill No. 1 - (Sanitary Fittings) | |
| | | |
| 2 | Total brought forward from Bill No. 2 - (Internal Plumbing) | |
| | | |
| 3 | Total brought forward from Bill No. 3 - (Internal Drainage) | |
| | | |
| 4 | Total brought forward from Bill No. 4 - (Fire Fighting Equipment) | |
| | | |
| 5 | Total brought forward from Bill No. 5 - (Air Conditioning and Ventilation) | |
| | | |
| | Total Amount for Mechanical Works for Garissa Office Carried to Grand Summary | |
| | TOTAL AMOUNT - SECTION 02: PROPOSED OFFICES FOR GAWASCO CARRIED TO GRAND SUMMARY (BUILDERS WORKS + ELECTRICAL + MECHANICAL WORKS) | |
| | | |

| SECTION 03: PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
|---|--|----------------|----------|------|--------|
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | <u>ELEMENT 01: RC SUPERSTRUCTURE</u> | | | | |
| | | | | | |
| | <u>CONCRETE WORKS</u> | | | | |
| | <u>Vibrated reinforced concrete class 20 (20mm aggregate)</u> | | | | |
| | | | | | |
| A | 150 mm Roof Tank Slab | m ² | 10 | | |
| | | | | | |
| B | Beams | m ³ | 3.66 | | |
| | | | | | |
| | <u>Reinforcement (Provisional)</u> | | | | |
| | High yield deformed steel bar reinforcement to B.S. 4461 | | | | |
| C | Assorted reinforcement bar sizes | KG | 280.8 | | |
| | | | | | |
| | <u>FORMWORK</u> | | | | |
| | <u>Sawn formwork to:</u> | | | | |
| | | | | | |
| D | Edges of slab -75 to 150mm girth | m | 16.4 | | |
| | | | | | |
| E | 150 mm Roof Tank Slab | m ² | 12 | | |
| | | | | | |
| F | Vertical sides and soffites of horizontal floor or roof beams | m ² | 38.43 | | |
| | | | | | |
| TOTAL FOR CONCRETE SUPERSTRUCTURE CARRIED TO SECTION SUMMARY | | | | | |
| | | | | | |

| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
|---|---|----------------|----------|------|--------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | <u>ELEMENT 02: WALLING</u> | | | | |
| | | | | | |
| | <u>External Walls</u> | | | | |
| | <u>Selected Coral Stone Block Walling, Fine Chisel Dressed or Machine Dressed, Reinforced with 20 swg Hoop Iron at every third courses, and Bedded, Jointed and Pointed in Cement Mortar (1:5): -</u> | | | | |
| | | | | | |
| A | 200mm Thick walling | m ² | 20 | | |
| | | | | | |
| | <u>Labours</u> | | | | |
| B | Extra over walling for ruled horizontal joints | m ² | 20 | | |
| | | | | | |
| C | Fair raking cutting for walling | m | 10 | | |
| | | | | | |
| | <u>Quarry Tiles Cills</u> | | | | |
| | <u>150mm Wide Quarry Tiles Cill Bedded, Jointed and Pointed in Cement Mortar on Top of 200mm Wall, and Set in Window Opening: -</u> | | | | |
| | | | | | |
| D | 600mm Long | No | 3 | | |
| | | | | | |
| E | 1200mm Long | No | 2 | | |
| | | | | | |
| F | 1800mm Long | No | 5 | | |
| | | | | | |
| | <u>Internal Walls</u> | | | | |
| | | | | | |

| | | | | | |
|--|--|----------------|-----------------|-------------|---------------|
| | <u>Selected Coral Stone Block Walling, Medium Chisel Dressed, Reinforced with 20 swg Hoop Iron at every third courses, and Bedded, Jointed and Pointed in Cement Mortar (1:5): -</u> | | | | |
| G | 200mm Thick | m ² | 5 | | |
| | | | | | |
| H | 150mm Thick walling | m ² | 10 | | |
| | | | | | |
| TOTAL FOR WALLING CARRIED TO SECTION SUMMARY | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | <u>ELEMENT NO 03: ROOFING AND RAINWATER DISPOSAL</u> | | | | |
| | | | | | |
| | <u>ROOF COVER</u> | | | | |
| | <u>Concrete, Double Roll, Single Lap Interlocking Tiles fixed on sloping concrete roof including all necessary securing in position: -</u> | | | | |
| | | | | | |
| A | Tiles roof covering on and including sawn cypress (Grade 2) battens size 50 x 50mm at 300mm centres and pressure impregnated with approved preservative | m ² | 148 | | |
| | | | | | |
| B | Half round butt jointed ridge tiles bedded, jointed and pointed in cement mortar to match colour of tiles | m | 21 | | |
| | | | | | |
| C | Gauge 28 G.C.I sheets underlay laid over the rafters, lapped 300mm vertically and 150mm horizontally laid under | m ² | 148 | | |
| | | | | | |
| | <u>Roof Trusses</u> | | | | |

| | | | | | |
|---|---|----|-------|--|--|
| | <u>Double Pitch Roof Truss With 600mm eaves projection, in 150 x 50mm Rafters, Ceiling Joists, Struts and Ties in Sawn Cypress Grade II Seasoned and Pressure Impregnated with Wood Preservative and timber joints with bolted and nailed connections to the Engineer's Approval</u> | | | | |
| D | Equal truss 4700mm clear span and 973mm high | No | 11 | | |
| | | | | | |
| | <u>Other Roof Members</u> | | | | |
| | <u>Sawn Cypress Grade II Maximum Moisture Content 12% Seasoned and Pressure Impregnated with Wood Preservative and timber joints with bolted and nailed connections to the Engineer's Approval: -</u> | | | | |
| E | 100 x 50mm Intermediate rafters | m | 151.2 | | |
| | | | | | |
| F | 100 x 50mm Purlins | m | 161.6 | | |
| | | | | | |
| G | 200 x 50mm Fascia board | m | 40.4 | | |
| | | | | | |
| H | 200 x 50mm Barge board | m | 14.4 | | |
| | | | | | |
| I | 100 x 50mm Wall plate tied to wall with 20 s.w.g. hoop iron at 900mm centres | m | 47 | | |
| | | | | | |
| | <u>Sundries</u> | | | | |
| J | Bed wall plate in cement mortar (1:4) | m | 39 | | |
| | | | | | |
| SUB TOTAL 1- CARRIED FORWARD TO COLLECTION | | | | | |
| | | | | | |

| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
|---|--|----------------|----------|------|--------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>Rain Water Goods</u> | | | | |
| | 18 Gauge galvanized mild steel as described: | | | | |
| | | | | | |
| A | 800mm Girth box gutter fixed to fascia board and tucked under tiles | m | 42 | | |
| | | | | | |
| B | Extra over ditto for cutting 100mm diameter hole | No | 6 | | |
| | | | | | |
| C | 100mm Diameter UPVC downpipe | No | 6 | | |
| | | | | | |
| D | Extra over ditto for sawn neck over 600mm wide eaves | No | 6 | | |
| | | | | | |
| E | Extra over ditto for shoe | No | 6 | | |
| | | | | | |
| | <u>Eaves Finishes</u> | | | | |
| | <u>T & G Cypress Ceiling</u> | | | | |
| | | | | | |
| F | Horizontal planed Cypress T&G ceiling fixed on and including | m ² | 32.32 | | |
| | softwood frames of 50 x 50mm | | | | |
| | | | | | |
| G | Ceiling laid to slope not exceeding 15 degrees fixed to underside of trusses | m ² | 8.8 | | |
| | | | | | |
| | <u>PAINTING AND DECORATING</u> | | | | |
| | <u>Prepare, knot, prime, stop and apply two undercoats and one finishing coat hard gloss paint to woodwork: -</u> | | | | |
| | | | | | |

| | | | | | |
|--|--|-------------|--------------------------|-------------|---------------|
| H | General surfaces of fascia board Surfaces 200 - 300mm girth | m | 54.8 | | |
| | | | | | |
| | SUB TOTAL 2- Total Carried to collection | | | | |
| | | | | | |
| | | | <u>COLLECTION</u> | | |
| | | | | | |
| | | | SUB TOTAL 1 | | |
| | | | | | |
| | | | SUB TOTAL 2 | | |
| | | | | | |
| TOTAL FOR ROOFING AND RAINWATER DISPOSAL CARRIED TO SECTION SUMMARY | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>ELEMENT NO 04: DOORS</u> | | | | |
| | | | | | |
| | <u>Timber Doors</u> | | | | |
| | <u>50mm Thick Prime Grade Cypress Panelled Door With 50 x 100mm Stiles and Top Rails,50 x 150mm Middle and Bottom Rails and Infill Panels in 50 x 100mm T & G battens (See Door Details in Appendix): -</u> | | | | |
| | | | | | |
| A | Door size 900 x 2030 mm high semi-core flush door with hardwood lipping all round painted glazed fanlight over. | No | 4 | | |
| | | | | | |
| B | Door size 800 x 2050 mm high Flush doors | No | 6 | | |
| | | | | | |

| | | | | | |
|---|---|-------|------|--|--|
| | <u>Doors frames and finishings in wrought cypress</u> | | | | |
| | | | | | |
| C | 150 x 50mm Thick rebated frame | M | 53.6 | | |
| | | | | | |
| D | 150 x 50mm Transom | M | 4.8 | | |
| | | | | | |
| E | Architrave with one labour, size - 45 X 25mm | M | 53.6 | | |
| | | | | | |
| F | 20mm Quadrant beading | M | 53.6 | | |
| | | | | | |
| G | Glazing Beads, size - 15 x 15mm | M | 11.8 | | |
| | | | | | |
| | <u>Fanlights</u> | | | | |
| | <u>Fanlight Panel in-filled with 5mm thick Frosted Glass with a Clear Pattern and with 12mm Thick Hardwood Lipping All Round: -</u> | | | | |
| | | | | | |
| H | Fanlight panel size 875mm wide x 275mm high | No | 6 | | |
| | | | | | |
| | <u>IRONMONGERY</u> | | | | |
| | <u>Supply and afterwards Fix the following Ironmongery with Matching Screws as described: -</u> | | | | |
| I | Pairs 100 mm Stainless steel butt hinges | Pairs | 15 | | |
| | | | | | |
| J | Briton door closer (240 secs) | No | 8 | | |
| | | | | | |
| K | Three-lever mortice lock as "Union" Ref: 2279 complete with set of anodized aluminium lever handles as "Union" Ref.681- | No | 8 | | |
| | | | | | |

| | | | | | |
|--|--|-------------|-----------------|-------------|---------------|
| L | Two-lever mortice lock as "Union" Ref: 2279 complete with set of anodized aluminium lever handles as "Union" Ref.681- 06- | No | 2 | | |
| M | Stainless steel buffer coat hooks | No | 8 | | |
| N | Pair of Stainless steel lever handles | No | 10 | | |
| SUB TOTAL 1-CARRIED FORWARD TO COLLECTION | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| A | Stainless steel kicking plate size 800 x 200mm | No | 10 | | |
| B | Rubber door stop fixed to floor or wall with screw | No | 10 | | |
| C | Pairs 75mm. Brass butt hinges | No | 30 | | |
| D | 100mm D-pull handles | No | 10 | | |
| | <u>METAL PANELLED DOORS</u> | | | | |
| | <u>Supply and Fix the following 100 x 25mm RHS Stiles Top and Bottom Rails, 150 x 25mm RHS middle rail and infill panels in 50 x 25mm RHS battens. Rate to include 100 x 25mm Metal Frame, Hinges, Pad Bolts and Tower Bolts, All complete with 3 lever mortice lock including bedding and pointing around frames in cement mortar:</u> | | | | |
| E | Single door size 900 x 2400 mm high | No | 6 | | |
| | <u>PAINTING AND DECORATING</u> | | | | |
| | <u>Prepare, prime and apply three coats eggshell paint:</u> | | | | |

| | | | | | |
|---|---|----------------|--------------------|--|--|
| | | | | | |
| F | Metal Doors (measured flat overall) | m ² | 16 | | |
| | | | | | |
| | <u>GLAZING</u> | | | | |
| | <u>6mm Thick Tinted Glass to BS 9512, Free from Flaws, Bubbles, Specks and Other Imperfections, and glazing to aluminium windows or doors in panes: -</u> | | | | |
| | | | | | |
| G | 1.00 - 1.50 Square metres | m ² | 1.32 | | |
| | | | | | |
| | <u>PAINTING AND DECORATING</u> | | | | |
| | <u>Prepare, knot, prime, stop and apply two undercoats and one finishing coat hard gloss paint to woodwork: -</u> | | | | |
| | <u>Internally on: -</u> | | | | |
| | | | | | |
| H | General surfaces of doors (measured flat overall) | m ² | 35.28 | | |
| | | | | | |
| I | Surfaces 100 - 200mm girth | m | 53.6 | | |
| | | | | | |
| J | Surfaces 200 - 300mm girth | m | 58.4 | | |
| | | | | | |
| | SUB TOTAL 2- CARRIED FORWARD TO COLLECTION | | | | |
| | | | | | |
| | | | SUB TOTAL 1 | | |
| | | | | | |
| | | | SUB TOTAL 2 | | |
| | | | | | |
| TOTAL FOR DOORS CARRIED COLLECTION | | | | | |

| | | | | | |
|--|--|-------------|-----------------|-------------|---------------|
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>ELEMENT NO 05: STEEL CASEMENT WINDOWS</u> | | | | |
| | | | | | |
| | <u>Supply and Fix the following Standard Section Steel Casement Windows, including 4mm Thick Clear Sheet Glass glazed to Steel Casements with putty, complete with opening accessories, including building in lugs to jambs and head and water-proofing and filling around opening with approved compound; and including burglar- proofing fabricated from 12 x 12mm mild steel square bars at 150mm centres vertically and 150mm horizontally and fixed internally to surrounding wall with 12mm mild steel fish-tailed lugs at maximum 600mm centres; all finished with three coats oil paint, :-</u> | | | | |
| | | | | | |
| A | Window size 1800 x 1500 mm high with 1 No. fixed and 2 No. side hung opening bottom sashes and with 2 No. fixed and 1No. top-hung top ventilators with permanent ventilator hood over (W1) | No | 5 | | |
| | | | | | |
| B | Window size 1200 x 1500 mm high with 1 No. fixed and 1 No. side hung opening bottom sashes and with 1 No. fixed and 1No. top-hung top ventilators with permanent ventilator hood over (W3) | No | 2 | | |
| | | | | | |
| C | Window size 600 x 1200 mm high with 1 No. fixed bottom sashes and with 1 No. top-hung top ventilators 200mm high with permanent ventilator hood over (W4) | No | 3 | | |
| | | | | | |
| | <u>The following in Wrot mahogany</u> | | | | |
| D | 150 x 25mm window board with two labours and rounded edge plugged to walling | m | 14.2 | | |
| | | | | | |

| | | | | | |
|--|--|----------------|------------|-------------|---------------|
| E | 20mm Diameter quadrant | m | 14.2 | | |
| | | | | | |
| | Vertical Blinds to the Windows | | | | |
| F | Supply and install vertical blinds with high quality fabric and as per the approved blind-type. Rate to include materials for the slats and controls as per the types instructed by the Engineer | m | 14.2 | | |
| | | | | | |
| | <u>Precast / insitu concrete: class 20/20 vibrated</u> | | | | |
| G | 175x 75mm Window cill to approved profile jointed and pointed in cement and sand mortar (1:4) weathered and throated | m | 14.2 | | |
| | | | | | |
| SUB TOTAL 1-CARRIED FORWARD TO COLLECTION | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
| | | | | | |
| | <u>Glazing</u> | | | | |
| | 4mm clear sheet glazing including fixing with tropicalized putty to: | | | | |
| A | Panes not exceeding 0.1sm | m ² | 19.26 | | |
| | <u>Painting and Decorating</u> | | | | |
| | | | | | |
| | Prepare and apply one undercoat wood preservative to woodwork before fixing | | | | |
| | | | | | |
| B | Touch up primer prepare and apply three coats of gloss oil paint to metal surfaces of windows both sides measured overall | m ² | 38.52 | | |
| | | | | | |
| | <u>Prepare, prime and apply three coats eggshell paint:</u> | | | | |

| | | | | | |
|---|--|------|-------------|------|--------|
| | | | | | |
| D | Metal Windows (measured flat overall) | m² | 38.52 | | |
| | | | | | |
| | SUB TOTAL 2-CARRIED FORWARD TO COLLECTION | | | | |
| | | | | | |
| | | | COLLECTION | | |
| | | | | | |
| | | | SUB TOTAL 1 | | |
| | | | | | |
| | | | SUB TOTAL 2 | | |
| | | | | | |
| TOTAL FOR WINDOWS CARRIED TO COLLECTION | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | ELEMENT NO 06: EXTERNAL FINISHES | | | | |
| | External Rendering in 12mm (minimum) Thick in Two Coats, Undercoat Comprising Cement - Sand (1:5) and Finishing Coat Comprising Cement- Sand (1:5) Finished with a Dry Wood Float: - | | | | |
| | | | | | |
| A | Rendering to blockwork surfaces | m² | 80.78 | | |
| | | | | | |
| B | Ditto to concrete surfaces | m² | 17.2 | | |
| | | | | | |
| | Prepare and apply three coats of exterior first quality silk vinyl washable paint to :- | | | | |
| C | Rendered blockwork surfaces | m² | 80.78 | | |
| | | | | | |
| D | Rendered concrete surfaces | m² | 17.2 | | |

| | | | | | |
|--|--|----------------|-----------------|-------------|---------------|
| | | | | | |
| | | | | | |
| TOTAL FOR EXTERNAL FINISHES CARRIED TO COLLECTION | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>ELEMENT NO 07: INTERNAL FINISHES</u> | | | | |
| | | | | | |
| | <u>Wall Finishes</u> | | | | |
| | <u>Internal Plaster in 12mm (minimum) Thick in Two Coats, Undercoat Comprising Cement- Lime putty- Sand (1:2:9) and Finishing Coat Comprising Cement- Lime putty- Sand (1:1:6) Finished Smooth with a Steel trowel: -</u> | | | | |
| | | | | | |
| A | Plaster to vertical concrete or blockwork surfaces | m ² | 101 | | |
| | | | | | |
| B | Ditto to reveals of openings | m ² | 21.04 | | |
| | | | | | |
| | <u>Prepare and apply three coats of interior first quality silk vinyl washable paint to: -</u> | | | | |
| C | Plastered vertical concrete or blockwork surfaces | m ² | 101 | | |
| | | | | | |
| D | Plastered reveals of openings | m ² | 21.04 | | |
| | | | | | |
| | <u>Wall Tiles</u> | | | | |
| | <u>Coloured Ceramic Wall Tiles from Saj Co. as supplied by M/s Tile & Carpet Centre, or other equal and approved (P.C. Supply Price Kshs. 1200.00 per square metre): -</u> | | | | |
| | | | | | |

| | | | | | |
|--|---|----------------|-----------------|-------------|---------------|
| E | 200 x 300mm Thick coloured wall tiles laid on backing (measured separately) and joints filled in approved filler to match colour of tiles. | m ² | 72 | | |
| | | | | | |
| | <u>Sundries</u> | | | | |
| F | PVC tiling edge to external corners of tiles (Provisional) | m | 50 | | |
| | | | | | |
| | <u>FLOOR FINISHES</u> | | | | |
| | <u>Screeds and Backing</u> | | | | |
| | <u>Bonded cement and sand (1:4) screed bed in one coat, well bonded to concrete base as described: -</u> | | | | |
| | | | | | |
| G | 45mm Thick screed laid to falls to receive coloured floor tiles | m ² | 79 | | |
| | | | | | |
| H | Ditto but to receive 100mm high skirting | m | 90 | | |
| | | | | | |
| | <u>Bonded cement and sand (1:4) Backing 12mm (minimum) Thick in one coat, well bonded to concrete or blockwork with approved plasticiser as described: -</u> | | | | |
| I | Backing laid vertical to receive coloured ceramic wall tiles | m ² | 79 | | |
| | | | | | |
| SUB TOTAL 1- CARRIED FORWARD TO COLLECTION | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>Ceramic Floor Tiling</u> | | | | |

| | | | | | |
|---|--|----------------|-----|--|--|
| | <u>Coloured Ceramic Floor Tiles from Saj Co. as supplied by M/s Tile & Carpet Centre, or other equal and approved (P.C. Supply Price K. Shs 1500.00 per square metre): -</u> | | | | |
| A | 300 x 300mm Tiles laid on screed (measured separately) and joints filled in approved filler to match colour of tiles | m ² | 79 | | |
| B | Ditto but laid as skirting 100mm high | m | 90 | | |
| | <u>CEILING FINISHES</u> | | | | |
| | <u>Chipboard Ceiling</u> | | | | |
| | <u>12mm thick approved chipboard to BS 2604, Part 2, density 480- 640kgs, per square meter in sheets size 2400 x 1200mm fixed to and including 50 x 50mm sawn cypress Grade 2 battens at 600mm centres in both directions complete with gauge jointing material</u> | | | | |
| C | Horizontal ceiling fixed to underside of trusses | m ² | 79 | | |
| D | 12mm Cornice 50mm high, plugged | m | 120 | | |
| E | Extra over lining for forming removable access trap door size 600 x 600mm with 100 x 38 mm sawn treated cypress trimming joists | m | 95 | | |
| | <u>Prepare and apply one undercoat two finishing coats of matt emulsion paint to: -</u> | | | | |
| F | Chip board ceilings | m ² | 79 | | |
| G | Ditto to surfaces n.e 100mm girth | m | 95 | | |

| | | | | | |
|--|--|----------------|-----------------|-------------|---------------|
| | SUB TOTAL 2- CARRIED FORWARD TO COLLECTION | | | | |
| | | | | | |
| | <u>COLLECTION</u> | | | | |
| | SUB TOTAL 1- CARRIED FORWARD TO COLLECTION | | | | |
| | | | | | |
| | SUB TOTAL 2- CARRIED FORWARD TO COLLECTION | | | | |
| | | | | | |
| TOTAL FOR INTERNAL FINISHES CARRIED TO COLLECTION | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>ELEMENT NO 08: FITTINGS</u> | | | | |
| | | | | | |
| | <u>Work tops</u> | | | | |
| A | 20mm thick polished granite fixed with approved adhesive on 100mm thick concrete slab (m.s): all to the architect's approval | m ² | 5 | | |
| | | | | | |
| B | Ditto 20 x150mm high polished granite bach splash | m | 7 | | |
| | | | | | |
| C | Ditto 20 x 100mm high polished granite fascia | m | 7 | | |
| | | | | | |
| | <u>The following in 1No. Laboratory Fitting 600mm wide x 900mm high and overall 6900 mm girth</u> | | | | |
| | | | | | |
| D | 75mm Thick reinforced Concrete Class 20/20mm worktop | m ² | 5 | | |
| | | | | | |
| E | Mesh Reinforcement Ref. A 142 in concrete top slab. | m ² | 5 | | |
| | | | | | |

| | | | | | |
|---|--|----------------|----|--|--|
| F | Sawn formwork as described to horizontal soffites of worktop | m ² | 5 | | |
| | | | | | |
| G | Ditto to edges 75-150mm girth | m | 16 | | |
| | | | | | |
| H | 20mm Thick cement and sand (1:4) screed to top and sides of worktop | m ² | 5 | | |
| | | | | | |
| I | 12.5mm Thick gauged cement plaster to horizontal soffites of worktop | m ² | 4 | | |
| | | | | | |
| J | Prepare and apply two coats plastic emulsion paint to plastered horizontal soffits of worktop | m ² | 4 | | |
| | | | | | |
| K | Form groove 100mm deep in masonry wall to receive 75mm edge of concrete bench, build in last and make good | m | 7 | | |
| | | | | | |
| L | 125mm Concrete (1:3:6) in benching | m ² | 4 | | |
| | | | | | |
| M | Formwork to edge of benching 75-150mm high | m | 6 | | |
| | | | | | |
| N | 100mm Thick solid concrete block walling in gauged cement mortar | m ² | 1 | | |
| | | | | | |
| O | 100 x 19mm High cement and sand skirting | m | 3 | | |
| | | | | | |
| P | 12.5mm Thick gauged cement plaster to walls | m ² | 2 | | |
| | | | | | |
| Q | Prepare and apply two coats plastic emulsion paint to plastered walls | m ² | 2 | | |
| | | | | | |
| R | 50 x 25mm (finished) W rot prime grade cypress bearer | m | 3 | | |

| | | | | | |
|--|--|----------------|-----------------|-------------|---------------|
| | | | | | |
| S | 50 x 25mm (finished) W rot prime grade cypress bearer, plugged | m | 12 | | |
| | | | | | |
| T | 75 x 32mm Wrot prime grade cypress door frame, plugged | m | 20 | | |
| | | | | | |
| U | 25mm Blockboard shelves | m ² | 3 | | |
| | | | | | |
| V | 25mm Blockboard double door overall size 825 x 675mm high in two equal leaves, each leaf hardwood lipped all round | No | 3 | | |
| | | | | | |
| W | Ditto overall size 950 x 675mm high in two equal leaves, each leaf hardwood lipped all round | No | 3 | | |
| | | | | | |
| SUB TOTAL 1- CARRIED FORWARD TO COLLECTION | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| A | Prepare and apply one coat aluminium primer before fixing to wood surfaces 0 - 100mm girth | m | 32 | | |
| | | | | | |
| B | Prepare, knot, prime, stop and apply three coats first quality gloss paint to wood surfaces 100 - 200mm girth | m | 20 | | |
| | | | | | |
| C | Ditto general surfaces | m ² | 4 | | |
| | | | | | |
| D | Drawer size 550mm wide (front) x 500mm long and 150mm deep with 70 x 20mm sides and back, 90 x 20mm front (all finished sizes) and 5mm plywood bottom tongued all round. | No | 6 | | |
| | | | | | |
| E | 12x12mm (finished) Wrot camphor drawer runners | m | 6 | | |

| | | | | | |
|---|--|----------------|----|--|--|
| | | | | | |
| F | 25 x 25mm (finished) Wrot camphor lipping tongued in and glued to edge of blockboard | m | 11 | | |
| | | | | | |
| G | 12mm Cement and sand screed to benching steel trowelled smooth | m ² | 4 | | |
| | | | | | |
| | <u>The following in 1No. Tea Room Fitting 600mm wide x 900mm high and overall 2000 mm girth</u> | | | | |
| H | 75mm Thick reinforced Concrete Class 20/20mm worktop | m ² | 1 | | |
| | | | | | |
| I | Mesh Reinforcement Ref. A 142 in concrete top slab. | m ² | 1 | | |
| | | | | | |
| J | Sawn formwork as described to horizontal soffites of worktop | m ² | 1 | | |
| | | | | | |
| K | Ditto to edges 75-150mm girth | m | 2 | | |
| | | | | | |
| L | 20mm Thick cement and sand (1:4) screed to top and sides of worktop | m ² | 1 | | |
| | | | | | |
| M | 12.5mm Thick gauged cement plaster to horizontal soffites of worktop | m ² | 1 | | |
| | | | | | |
| N | Prepare and apply two coats plastic emulsion paint to plastered horizontal soffites of worktop | m ² | 1 | | |
| | | | | | |
| O | Form groove 100mm deep in masonry wall to receive 75mm edge of concrete bench, build in last and make good | m | 2 | | |
| | | | | | |
| P | 125mm Concrete (1:3:6) in benching | m ² | 1 | | |
| | | | | | |
| Q | Formwork to edge of benching 75-150mm. high | m | 2 | | |

| | | | | | |
|--|--|----------------|-----------------|-------------|---------------|
| | | | | | |
| R | 100mm Thick solid concrete block walling in gauged cement mortar | m ² | 1 | | |
| | | | | | |
| S | 100 x 19mm High cement and sand skirting | m | 1 | | |
| | | | | | |
| T | 12.5mm Thick gauged cement plaster to walls | m ² | 1 | | |
| | | | | | |
| U | Prepare and apply two coats plastic emulsion paint to plastered walls | m ² | 1 | | |
| | | | | | |
| SUB TOTAL 2- CARRIED FORWARD TO COLLECTION | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| A | 50 x 25mm (finished) Wrot prime grade cypress bearer | m | 1 | | |
| | | | | | |
| B | 50 x 25mm (finished) Wrot prime grade cypress bearer, plugged | m | 3 | | |
| | | | | | |
| C | 75 x 32mm Wrot prime grade cypress door frame, plugged | m | 4 | | |
| | | | | | |
| D | 25mm Blockboard shelves | m ² | 1 | | |
| | | | | | |
| E | 25mm Blockboard double door overall size 875 x 675mm high in two equal leaves, each leaf hardwood lipped all round | No | 1 | | |
| | | | | | |

| | | | | | |
|---|--|----------------|----|--|--|
| F | Ditto overall size 950 x 675mm high in two equal leaves, each leaf hardwood lipped all round | No | 1 | | |
| G | Prepare and apply one coat aluminium primer before fixing to wood surfaces 0 - 100mm girth | m | 7 | | |
| H | Prepare, knot, prime, stop and apply three coats first quality gloss paint to wood surfaces 100 - 200mm girth. | m | 7 | | |
| I | Ditto general surfaces | m ² | 1 | | |
| J | Drawer size 550mm wide (front) x 500mm long and 150mm deep with 70 x 20mm sides and back, 90 x 20mm front (all finished sizes) and 5mm plywood bottom tongued all round. | No | 1 | | |
| K | 12x12mm (finished) Wrot camphor drawer runners | m | 1 | | |
| L | 25 x 25mm (finished) Wrot camphor lipping tongued in and glued to edge of blockboard | m | 3 | | |
| M | 12mm Cement and sand screed to benching steel trowelled smooth | m ² | 1 | | |
| N | 75mm Barrel bolt | No | 16 | | |
| O | 100mm D-pull handles | No | 16 | | |
| P | Cupboard door lock | No | 8 | | |
| Q | Approved drawer knobs | No | 8 | | |

| | | | | | |
|--|--|-------------|-----------------|--------------------------|---------------|
| R | Hushed Hardware Cabinet Hinges; Frameless Full Overlay Adjustable Closing Speed, Soft Close Self-Closing Hinges for for Kitchen Cabinets Doors | Pairs | 18 | | |
| | | | | | |
| | SUB TOTAL 3 - CARRIED FORWARD TO COLLECTION | | | | |
| | | | | | |
| | | | | <u>COLLECTION</u> | |
| | | | | | |
| | | | | SUB TOTAL 1 | |
| | | | | | |
| | | | | SUB TOTAL 2 | |
| | | | | | |
| | | | | SUB TOTAL 3 | |
| | - | | | | |
| | | | | | |
| | TOTAL FOR FITTINGS | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>ELEMENT NO 9: PLUMBING AND DRAINAGE</u> | | | | |
| | <u>Builders' Work in Connection with Sanitary Fittings</u> | | | | |
| | <u>Allow for cutting and leaving all necessary holes, notches, mortices, sinkings and chases both in the structure and its finishes and for all making good in connection with the following (All Provisional): -</u> | | | | |
| | | | | | |
| A | White vitreous china squatting level washdown W.C. suite complete | No | 2 | | |

| | | | | | |
|---|--|----|----|--|--|
| | | | | | |
| B | White vitreous china washbasin complete | No | 2 | | |
| | | | | | |
| C | Shower unit complete | No | 1 | | |
| | | | | | |
| D | Local stainless steel sink with double bowls and double drainer | No | 1 | | |
| | complete | | | | |
| | | | | | |
| E | Mirror size 600 x 600mm plugged and screwed to wall | No | 2 | | |
| | | | | | |
| F | Toilet roll holder | No | 2 | | |
| | | | | | |
| G | Recessed soap tray | No | 1 | | |
| | | | | | |
| H | Chrome plated shower rail size 25mm diameter x 900mm long complete with mixers | No | 1 | | |
| | | | | | |
| | <u>Builders Work in Connection with Water and Drainage services</u> | | | | |
| | | | | | |
| I | Chase wall for small pipe and make good wall and its finishes | m | 28 | | |
| | | | | | |
| J | Chase wall for large pipe and make good wall and its finishes | m | 2 | | |
| | | | | | |
| K | Hole through 100mm walling for small pipe and make good | No | 2 | | |
| | | | | | |
| L | Hole through 200mm wall for small pipe ditto | No | 3 | | |
| | | | | | |

| | | | | | |
|--|---|-------------|-----------------|-------------|---------------|
| M | Hole through 150mm reinforced concrete floor slab for large pipe ditto | No | 2 | | |
| | | | | | |
| | <u>Water supply to tank</u> | | | | |
| | | | | | |
| | <u>PN20 PPR pipes and PPR encased brass fittings complying with relevant ISO standards. Pipe & pipe fitting dimensions refer to outside diameter</u> | | | | |
| | | | | | |
| N | 20mm diameter pipe fixed & jointed in /on wall, ceiling or duct | m | 13 | | |
| | | | | | |
| O | 25mm diameter overflow pipe | m | 1 | | |
| | | | | | |
| P | 20mm diameter elbow | No | 3 | | |
| | | | | | |
| Q | 20mm diameter bronze gate valves to BS5454 | No | 1 | | |
| | | | | | |
| | <u>Ball valve</u> | | | | |
| | | | | | |
| R | 32mm diameter medium pressure ball valve as "PORTSMOUTH" type or approved equivalent with brass stem and plastic float, screwed to threaded socket of tank | No | 1 | | |
| | | | | | |
| SUB TOTAL 1-CARRIED FORWARD TO COLLECTION | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>Water Distribution from Tank to Fittings</u> | | | | |

| | | | | | |
|---|---|----|----|--|--|
| | <u>PN20 PPR pipes and PPR encased brass fittings complying with relevant ISO standards. Pipe & pipe fitting dimensions refer to outside diameter</u> | | | | |
| | | | | | |
| A | 20mm diameter pipe fixed & jointed in /on wall, ceiling or duct | m | 14 | | |
| | | | | | |
| B | 20mm diameter elbow | Nr | 5 | | |
| | | | | | |
| C | 20mm diameter threaded elbow | Nr | 4 | | |
| | | | | | |
| D | 20mm diameter equal tee | Nr | 5 | | |
| | | | | | |
| E | 20mm diameter plug | Nr | 1 | | |
| | | | | | |
| F | 15mm diameter PN20 connector to W.C cistern, Urinal bowl, Wash basins and kitchen sink | Nr | 6 | | |
| | | | | | |
| G | 15mm diameter bronze gate valves to BS5454 | Nr | 1 | | |
| | | | | | |
| | <u>Roof Water storage tanks</u> | | | | |
| | | | | | |
| H | 2500 Litres capacity plastic water storage tank, dimension 55mm diameter and 90mm height, on roof slab and complete with cover and having screwed connections for inlet (20mm), outlets (20mm), overflow (25mm) and 20mm drain. As "Roto" or approved equivalent. | No | 1 | | |
| | | | | | |
| | <u>Foul/Waste drainage from fittings</u> | | | | |
| | | | | | |
| | <u>uPVC pipe and pipe fittings to BS4460 and BS4551</u> | | | | |
| | | | | | |

| | | | | | |
|--|--|-------------|-----------------|-------------|---------------|
| I | 40mm Waste fittings | No | 2 | | |
| | | | | | |
| J | 40mm Bottle trap | No | 2 | | |
| | | | | | |
| K | 40mm Outlet pipe | m | 2 | | |
| | | | | | |
| L | 15mm Bip tap | No | 1 | | |
| | | | | | |
| M | 15mm Bip tap | No | 1 | | |
| | | | | | |
| N | 32mm Waste fittings | No | 2 | | |
| | | | | | |
| O | 32mm Bottle trap | No | 2 | | |
| | | | | | |
| P | 32mm Outlet pipe | m | 2 | | |
| | | | | | |
| Q | 15mm Bip tap | No | 2 | | |
| | | | | | |
| R | 100mm diameter long radius bend with duct foot | No | 2 | | |
| | | | | | |
| S | Vent pipe fabricated from .3.40 m x 100mm diameter fixed and jointed on/in wall or ceiling including 300x300mm GMS paddle flanges. | No | 1 | | |
| | | | | | |
| SUB TOTAL 2-CARRIED FORWARD TO COLLECTION | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>SANITARY FITTINGS</u> | | | | |

| | | | | | |
|---|--|----|---|--|--|
| | <u>Supply, deliver and install the following appliances including their support brackets, screws etc and their connection to water supply, waste/soil drainage and electrical supply.</u> | | | | |
| | | | | | |
| | <u>Shower</u> | | | | |
| | | | | | |
| A | Hygiene hand spray (Arabian shower) complete with 1.5m CP flexible hose | No | 2 | | |
| | | | | | |
| | <u>Mirrors</u> | | | | |
| | | | | | |
| B | 610 x 457 x 6mm thick bevelled plate glass mirrors with chromium plated domed screws complete with 5mm thick foam back rest. | No | 2 | | |
| | | | | | |
| | <u>Soap Dispenser</u> | | | | |
| | | | | | |
| C | 130x231x231mm High, sturdy impact resistant ABS plastic lockable case, broad dispensing lever that can also be actuated by elbow, inspection window, screw to wall, 1 Litre Liquid soap dispenser including initial charge. As "Starmix" Model No. SP 1. | No | 2 | | |
| | | | | | |
| | <u>Hand Drier</u> | | | | |
| | | | | | |
| D | The hand drier shall be operated by infrared sensor which switches on when hands are placed under the hot-air outlet. The machine switches off when the hands are withdrawn or after 40secs. It shall be capable of delivering 36Litres/sec of warm air at 50° C above ambient temperature at an average speed of 17m/s and a relative drying time of 35 seconds with a power supply of 2.2Kw 240V,50Hz. It shall be as "Starmix" Automatic Hand Drier Model No. T50E. | No | 2 | | |

| | | | | | |
|--|--|-------------|-----------------|-------------|---------------|
| | | | | | |
| E | Allow for electrical connection from DP switch | Item | 1 | | |
| | | | | | |
| | <u>Sanitary appliances</u> | | | | |
| | | | | | |
| G | <u>All sanitary appliances shall be supplied as complete units with all fittings, fixtures, waste grids & traps and shall be as specified or approved equal (as per tendered document)</u> | | | | |
| | | | | | |
| H | Close coupled water closet as "(No Suggestions) Option" with cistern comprising *WC bowl with horizontal outlet with S trap outlet connector ,6-litre cistern with fittings & CP lever, *seat & cover | No | 2 | | |
| | | | | | |
| I | Wall mounted washbasin as "Twyfords Entice 575" with one tap & 32mm waste grid *basin mixer as "Europath Astra" with aerator & pop - up waste. *32mm CP bottle trap with tail pipe, cap-nut & wall flange as "Cobra" 340 & C-342/1/2/3 | No | 2 | | |
| SUB TOTAL 3-CARRIED FORWARD TO COLLECTION | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>Stainless steel sink</u> | | | | |
| | | | | | |
| A | Local stainless steel sink size 1000 x 500mm with single bowl and double drainer complete with 40mm waste, plug, and chain and one "Bricon" chromium plated bib tap type No.615/041 marked "cold" | No | 1 | | |

| | | | | | |
|--|---|-------------|--------------------|-------------|---------------|
| | | | | | |
| B | Black vulcathene laboratory sink internal size 450 x 300 x 200mm deep as "ALLIED FOUNDERS UK Model 602" complete with waste fitting and butyl rubber sealing gasket including fixing into prepared hole in concrete worktop | No | 1 | | |
| | | | | | |
| | | | | | |
| | SUB TOTAL 4 - CARRIED FORWARD TO COLLECTION | | | | |
| | | | | | |
| | | | SUB TOTAL 1 | | |
| | | | | | |
| | | | SUB TOTAL 2 | | |
| | | | | | |
| | | | SUB TOTAL 3 | | |
| | | | | | |
| | | | SUB TOTAL 4 | | |
| | | | | | |
| TOTAL CARRIED COLLECTION | | | | | |
| | | | | | |
| PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | RATE | AMOUNT |
| | | | | | |
| | <u>ELEMENT NO 10: ELECTRICAL INSTALLATIONS</u> | | | | |
| | | | | | |
| | <u>Builders Work in Connection with Electrical Installations</u> | | | | |

| | | | | | |
|---|--|----|----|--|--|
| | <u>Allow for cutting and leaving all necessary holes, notches, mortices, sinkings and chases both in the structure and its finishes and for all making good in connection with the following in concealed conduits or cables (All Provisional):</u> | | | | |
| A | Lighting points | No | 15 | | |
| B | Switch points | No | 15 | | |
| C | Socket outlet points | No | 5 | | |
| D | Twin socket outlets | No | 5 | | |
| E | Fire alarm points | No | 1 | | |
| F | Data outlet points | No | 1 | | |
| G | Telephone points | No | 1 | | |
| H | Isolator points | No | 1 | | |
| I | Main distribution board | No | 1 | | |
| J | Consumer units and distribution board points | No | 1 | | |
| | <u>LIGHTING INSTALLATION</u> | | | | |
| | <u>Final sub-circuits from consumer unit in a cable and conduit installation comprising concealed heavy gauge PVC conduit, 1.5 mm² PVC insulated copper cables, 1.5 mm² copper earthing cable including all accessories and fittings.</u> | | | | |

| | | | | | |
|---|--|----|----|--|--|
| K | Lighting point | No | 15 | | |
| | | | | | |
| L | 6 Amp one gang one-way switch as Crabtree | No | 15 | | |
| | | | | | |
| | <u>Light fittings complete with accessories, lamps and tubes, 1.5 mm² three core heat resisting cables and wiring to an adjacent lighting point and fixing</u> | | | | |
| | | | | | |
| M | 1x36W single fluorescent batten fitting. As Micromark Standard Batten Range Cat No MM8191 | No | 15 | | |
| | | | | | |
| | <u>TELEPHONE INSTALLATION</u> | | | | |
| | | | | | |
| N | (200x200x75) mm galvanized steel box for telephone cable entry. | No | 1 | | |
| | | | | | |
| TOTAL FOR ELECTRICAL INSTALLATION CARRIED TO SECTION SUMMARY | | | | | |

| <u>PROPOSED DEVELOPMENT OF DADAAB ADMINISTRATION /LABORATORY</u> | | | | | |
|---|---|--|--|--|--|
| <u>SECTION SUMMARY</u> | | | | | |
| | | | | | |
| 1 | RC SUPERSTRUCTURE\ FRAME | | | | |
| | | | | | |
| 2 | WALLING | | | | |
| | | | | | |
| 3 | ROOFING AND RAINWATER DISPOSAL | | | | |
| | | | | | |
| 4 | DOORS | | | | |
| | | | | | |
| 5 | STEEL CASEMENT WINDOWS | | | | |
| | | | | | |
| 6 | EXTERNAL FINISHES | | | | |
| | | | | | |
| 7 | INTERNAL FINISHES | | | | |
| | | | | | |
| 8 | FITTINGS | | | | |
| | | | | | |
| 9 | PLUMBING AND DRAINAGE | | | | |
| | | | | | |
| 10 | ELECTRICAL INSTALLATIONS | | | | |
| | | | | | |
| | TOTAL AMOUNT CARRIED TO GRAND SUMMARY | | | | |
| | TOTAL AMOUNT - SECTION 03 DADAAB ADMINISTRATION /LABORATORY CARRIED TO GRAND SUMMARY | | | | |

| SECTION 04: PROVISIONAL SUMS AND PRIME COSTS SUMS | | | | | |
|---|---|------|----------|-----------|--------------|
| Item | Description | Unit | Quantity | Rate | Amount KShs. |
| | | | | | |
| | PROVISIONAL SUMS AND PRIME COSTS SUMS | | | | |
| | | | | | |
| | JOINERY FITTINGS | | | | |
| A | Provide a provisional sum of 2,000,000 for Joinery fittings and fixtures for the Garissa office building. Item to include solid wood drawers and MDF cabinets & top shelvings and the associated divisions etc as instructed by the Engineer. | Sum | 1 | 200,000 | 200,000.00 |
| | | | | | |
| | Add% for Profit and general attendance on joinery works for Garissa office building. | % | | | |
| | | | | | |
| B | Allow for the Prime Cost of Shillings Four Hundred Thousand (Kshs. 400,000) for specialized kitchen fittings and office furniture installations for the Dadaab Laboratory building. Installation works to be executed by Specialist/ Nominated Sub-Contractor | Sum | 1 | 400,000 | 400,000.00 |
| | | | | | |
| | Add% for Profit and General attendance on fittings and furniture installations for Dadaab laboratory | % | | | |
| | | | | | |
| | SEPTIC TANKS | | | | |
| | | | | | |
| C | Provide a provisional sum of Ksh 1,500,000 for construction of a septic tank and soakaway to the structural engineer's approval for the Garissa office building. | Sum | 1 | 1,500,000 | 1,500,000.00 |
| | | | | | |
| D | Allow a Provisional Sum of Kshs. 600,000 for construction of a septic tank and soakpit as directed by the Engineer for the Dadaab Laboratory and administration building. | Sum | 1 | 600,000 | 600,000.00 |
| | | | | | |

| | | | | | |
|---|--|-----|---|-----------|--------------|
| | EXTERNAL WORKS (INCLUDING FENCING & LANDSCAPING) | | | | |
| | | | | | |
| E | Provide a provisional sum of Ksh 4,000,000 to the external works including: gate house, driveway, boundary wall and gate, walkways and landscaping works for the Garissa office building site | Sum | 1 | 4,000,000 | 4,000,000.00 |
| | | | | | |
| F | Allow a Provisional Sum of Kshs. 400,000 for construction of a gate and chain link fence around the Dadaab Laboratory site as directed by the Engineer | Sum | 1 | 400,000 | 400,000.00 |
| | | | | | |
| G | Allow a Provisional Sum of Kshs. 400,000 for landscaping works for the Dadaab Laboratory & administration building to the architect's approval. | Sum | 1 | 400,000 | 400,000.00 |
| | | | | | |
| | OFFICE FURNITURE | | | | |
| H | Provide a provisional sum of Kshs. 3,000,000 for supply of furniture for the Dadaab laboratory and administration building | Sum | 1 | 3,000,000 | 3,000,000.00 |
| | | | | | |
| | Add% for Profit for provision of furniture for the Dadaab laboratory and administration building | % | | | |
| | | | | | |
| | ELECTRICAL WORKS FITTINGS INSTALLATIONS | | | | |
| I | Allow a Provisional Sum of Kshs. 300,000 for provision of electrical fittings installations to the Dadaab Administration Block including all wiring, cabling, security lights, sockets, switches, Consumer Unit, Meters, lighting fixtures etc. as directed by the Engineer. | Sum | 1 | 300,000 | 300,000.00 |
| | | | | | |
| | Add % for Profit for provision of electrical fittings for Dadaab laboratory and administration building for the item I above. | % | | | |

| | | | | | |
|---|--|-----|---|---------|------------|
| | | | | | |
| J | Allow for inspection, testing and commissioning of the entire installation in accordance with the I.E.E Regulations to the satisfaction of the Engineer including submission of all test certificates for the Garissa office block | Sum | 1 | | |
| | | | | | |
| K | Allow for attendance on Kenya Power including application for electricity supply and the necessary follow up for Garissa office building | Sum | 1 | | |
| | | | | | |
| L | Allow a Provisional Sum for Kenya Power & Lighting Company Service Line Charges for Garissa office building | Sum | 1 | | |
| | | | | | |
| | Allow% profit, attendance upon for Item L above | % | | | |
| | | | | | |
| | MECHANICAL WORKS | | | | |
| | | | | | |
| M | Allow a Provisional Sum of Kshs. 500,000 for provision and installation of plumbing and drainage, firefighting and air conditioning installations to the Dadaab Administration Block as directed by the Engineer | Sum | 1 | 500,000 | 500,000.00 |
| | | | | | |
| | CAR SHED | | | | |
| N | Allow a provisional sum of two hundred and fifty thousand shillings (250,000.00) for roof cover and roof structure to the car shed to the Garissa office block (Details of the layout to be provided) | Sum | 1 | 250,000 | 250,000.00 |
| | | | | | |
| | WATER | | | | |
| O | Allow a Provisional Sum of 200,000 for provision of water for operations associated with the works for Dadaab laboratory & administration building | Sum | 1 | 200,000 | 200,000.00 |
| | | | | | |

| | | | | | |
|---|---|-----|---|-----------|-----------|
| | RE TRANSPORT | | | | |
| P | Allow a Provisional Sum of Kes 4,000,000 of 1No. New 4WD Double Cab (Leased on short term basis) with fuel, service and driver, of engine capacity n.e 3000 CC for use by the Resident Engineer for the duration of the contract. Ownership reverts to Contractor at end of Contract. | Sum | 1 | 4,000,000 | 4,000,000 |
| | TOTAL AMOUNT - SECTION 04: PROVISIONAL SUMS AND PRIME COSTS SUMS CARRIED TO GRAND SUMMARY | | | | |

| SECTION 05: DAYWORKS | | | | | |
|----------------------|---|-----|-------|-------|--------|
| ITEM | DESCRIPTION | QTY | UNITS | RATES | AMOUNT |
| | | | | | |
| | <u>Dayworks</u> | | | | |
| | | | | | |
| | All rates provided by the contractor to include and cover for profits and overheads, transport, insurance and premiums as required by regulatory authorities and all other mark-up | | | | |
| | | | | | |
| | <u>Schedule of rates for labour</u> | | | | |
| | | | | | |
| A | Engineer | 1 | HRS | | |
| B | Foreman | 1 | HRS | | |
| C | Skilled labour | 1 | HRS | | |
| D | Unskilled labour | 1 | HRS | | |
| E | Mason\Bricks\Block Layer | 1 | HRS | | |
| F | Metalworkers | 1 | HRS | | |
| G | Carpenter \Joiner | 1 | HRS | | |
| H | Plasterer | 1 | HRS | | |
| I | Decorator\Painter | 1 | HRS | | |
| J | HVAC Worker | 1 | HRS | | |
| K | Plumber | 1 | HRS | | |
| L | Electricians | 1 | HRS | | |
| M | Chargehand | 1 | HRS | | |
| N | Light Duty \Plant Operator | 1 | HRS | | |
| O | Attendant | 1 | HRS | | |
| | | | | | |
| | <u>Schedule of rates for Materials</u> | | | | |
| | | | | | |
| P | Ordinary portland Cement | 1 | Tons | | |

| | | | | | |
|---|---------------------------------|---|----------------|--|--|
| Q | Sulphate resisting cement | 1 | Tons | | |
| R | Reinforcement bars | 1 | Kgs | | |
| S | Coarse Aggregate for concrete | 1 | Tons | | |
| T | Fine Aggregate for concrete | 1 | Tons | | |
| U | Shuttering timber | 1 | Sm | | |
| V | 200mm thick concrete blocks | 1 | Pcs | | |
| W | Structural Steel works | 1 | Kgs | | |
| X | Plasterboard (12.7 mm thick) | 1 | M ² | | |
| Y | Building stones | 1 | Pcs | | |
| Z | Emulsion Paint | 1 | L | | |
| | | | | | |
| | Total carried to Summary | | | | |

| DAYWORKS | | | | | |
|-----------------|---|------------|--------------|--------------|---------------|
| ITEM | DESCRIPTION | QTY | UNITS | RATES | AMOUNT |
| | | | | | |
| | <u>Schedule of rates for Plant and Equipment</u> | | | | |
| AA | Dump Truck (minimum truck 20 tonnes) | 1 | HRS | | |
| AB | Dump Truck (minimum truck 10 tonnes) | 1 | HRS | | |
| AC | Compressor (two tool) | 1 | HRS | | |
| AD | Compressor (one tool) | 1 | HRS | | |
| AE | Pneumatic tool, hoses and fittings | 1 | HRS | | |
| AF | Mobile Cranes (1 - 10 tonnes) | 1 | HRS | | |
| AG | Mobile Cranes (10 - 20 tonnes) | 1 | HRS | | |
| AH | Mobile Cranes (20 - 30 tonnes) | 1 | HRS | | |
| AI | Dumper (1m ³) | 1 | HRS | | |
| AJ | Electric small hand tool | 1 | HRS | | |
| AK | Electric hand-held breaker | 1 | HRS | | |
| AL | Electric hand-held circular saw | 1 | HRS | | |
| AM | Wheelbarrow | 1 | HRS | | |
| AN | Pick up | 1 | HRS | | |
| AO | Welding machine | 1 | HRS | | |
| AP | Scrapping/cleaning /hand tools | 1 | HRS | | |
| AQ | Painting sprayer | 1 | HRS | | |
| AR | Concrete mixer | 1 | HRS | | |
| AS | Jack hammer | 1 | HRS | | |
| AT | Vibrator for concrete | 1 | HRS | | |
| AU | Water pump,75 - 80 mm | 1 | HRS | | |
| AV | Water bowser, 7m ³ | 1 | TRIPS | | |
| | | | | | |
| | Total carried to Summary | | | | |
| | TOTAL AMOUNT - SECTION 05: DAYWORKS CARRIED TO GRAND SUMMARY | | | | |

GRAND SUMMARY

| PROPOSED GAWASCO OFFICE BLOCK AND DADAAB ADMINISTRATION BLOCK & LABORATORY | | | |
|--|--|--|--------|
| | | | |
| | | | AMOUNT |
| | | | |
| A | TOTAL AMOUNT - SECTION 01: PRELIMINARIES | | |
| | | | |
| B | TOTAL AMOUNT - SECTION 02: PROPOSED OFFICES FOR GAWASCO | | |
| | | | |
| C | TOTAL AMOUNT -SECTION 03: DADAAB ADMINISTRATION /LABORATORY | | |
| | | | |
| D | TOTAL AMOUNT -SECTION 04: PROVISIONAL SUMS AND PRIME COSTS SUMS | | |
| | | | |
| E | TOTAL AMOUNT - SECTION 05: DAYWORKS | | |
| | | | |
| | BILL TOTAL EXCLUSIVE OF VAT (SUB-TOTAL 1) | | |
| | | | |
| | ADD 10% OF SUB-TOTAL 1 FOR CONTIGENCY | | |
| | | | |
| | BILL TOTAL INCLUDING CONTINGENCIES (SUB-TOTAL 2) | | |
| | | | |
| | ADD 16% VAT (16%* SUB-TOTAL 2) | | |
| | | | |
| GRAND TOTAL INCLUSIVE OF VAT CARRIED TO FORM OF TENDER | | | |

SIGNATURE OF BIDDER:

NAME:

ADDRESS :
.....
.....

DATE:.....