

REPUBLIC OF KENYA



BUNGOMA COUNTY GOVERNMENT

MINISTRY OF TRANSPORT, INFRASTRUCTURE AND PUBLIC WORKS

PROPOSED ERECTION AND COMPLETION OF A TWIN SCIENCE

LABORATORY

AT

NAMARAMBI SECONDARY SCHOOL

FUNDED BY WEBUYE EAST NATIONAL GOVERNMENT

CONSTITUENCY DEVELOPMENT FUND

BILLS OF QUANTITIES

TENDER NO: _____

Prepared By:

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Ministry of Transport, Infrastructure and Public Works

P.O Box 763 - 50200

BUNGOMA

REPUBLIC OF KENYA

STANDARD TENDER DOCUMENT

FOR

**PROCUREMENT OF WORKS
(BUILDING AND ASSOCIATED
CIVIL ENGINEERING WORKS)**

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SECTION A:
INSTRUCTIONS TO TENDERERS

INSTRUCTIONS TO TENDERERS

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INSTRUCTIONS TO TENDERERS.

1. 1. General

- 1.1 The Employer as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The successful tenderer will be expected to complete the Works by the Intended Completion Date specified in the tender documents.
- 1.2 All tenderers shall provide the Qualification Information, a statement that the tenderer (including all members of a joint venture and subcontractors) is not associated, or has not been associated in the past, directly or indirectly, with the Consultant or any other entity that has prepared the design, specifications, and other documents for the project or being proposed as Project Manager for the Contract. A firm that has been engaged by the Employer to provide consulting services for the preparation or supervision of the Works, and any of its affiliates, shall not be eligible to tender.
- 1.3 In the event that pre-qualification of potential tenderers has been undertaken, only tenders from pre-qualified tenderers will be considered for award of Contract. These qualified tenderers should submit with their tenders any information updating their original pre-qualification applications or, alternatively, confirm in their tenders that the originally submitted pre-qualification information remains essentially correct as of the date of tender submission.
- 1.4 Where no pre-qualification of potential tenderers has been done, all tenderers shall include the following information and documents with their tenders , unless otherwise stated:
 - (a) copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the tender to commit the tenderer;
 - (b) total monetary value of construction work performed for each of the last five years;
 - (c) experience in works of a similar nature and size for each of the last five years, and details of work under way or contractually committed; and names and addresses of clients who may be contacted for further information on these contracts;
 - (d) Major items of construction equipment proposed to carry out the Contract and an undertaking that they will be available for the Contract.
 - (e) qualifications and experience of key site management and technical personnel proposed for the Contract and an undertaking that they shall be available for the Contract.
 - (f) reports on the financial standing of the tenderer, such as profit and loss statements and auditor's reports for the past five years;
 - (g) evidence of adequacy of working capital for this Contract (access to line(s) of credit and availability of other financial resources);
 - (h) authority to seek references from the tenderer's bankers;

- (i) information regarding any litigation, current or during the last five years, in which the tenderer is involved, the parties concerned and disputed amount; and
 - (j) proposals for subcontracting components of the Works amounting to more than 10 percent of the Contract Price.
- 1.5 Tenders submitted by a joint venture of two or more firms as partners shall comply with the following requirements, unless otherwise stated:
- (a) the tender shall include all the information listed in clause 1.4 above for each joint venture partner;
 - (b) the tender shall be signed so as to be legally binding on all partners;
 - (c) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;
 - (d) one of the partners will be nominated as being in charge, authorised to incur liabilities, and receive instructions for and on behalf of all partners of the joint venture; and
 - (e) the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.
- 1.6 To qualify for award of the Contract, tenderers shall meet the following minimum qualifying criteria;
- (a) Annual volume of construction work of at least 1.5 times the estimated annual cash flow for the Contract;
 - (b) Experience as main contractor in the construction of at least two works of a nature and complexity equivalent to the Works over the last 5 years (to comply with this requirement, works cited should be at least 70 percent complete);
 - (c) Proposals for the timely acquisition (own, lease, hire, etc.) of the essential equipment listed as required for the Works;
 - (d) A Contract manager with at least five years' experience in works of an equivalent nature and volume, including no less than three years as Manager; and
 - (e) Liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, of no less than 4 months of the estimated payment flow under this Contract.
- 1.7 The figures for each of the partners of a joint venture shall be added together to determine the tenderer's compliance with the minimum qualifying criteria of clause 1.6 (a) and (e); however, for a joint venture to qualify, each of its partners must meet at least 25 percent of minimum criteria 1.6 (a), (b) and (e) for an individual tenderer, and the partner in charge at least 40 percent of those minimum criteria. Failure to comply with this requirement will result in rejection of the joint venture's tender. Subcontractors' experience and resources will

not be taken into account in determining the tenderer's compliance with the qualifying criteria, unless otherwise stated.

- 1.8 Each tenderer shall submit only one tender, either individually or as a partner in a joint venture. A tenderer who submits or participates in more than one tender (other than as a subcontractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the tenderer's participation to be disqualified.
- 1.9 The tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible or liable for those costs.
- 1.10 The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the tenderer's own expense.

2. Tender Documents

- 2.1 The complete set of tender documents comprises the documents listed below and any addenda issued in accordance with Clause 2.4.
 - (a) These Instructions to Tenderers
 - (b) Form of Tender and Qualification Information
 - (c) Conditions of Contract
 - (d) Appendix to Conditions of Contract
 - (e) Specifications
 - (f) Drawings
 - (g) Bills of Quantities
 - (h) Forms of Securities
- 2.2 The tenderer shall examine all Instructions, Forms to be filled and Specifications in the tender documents. Failure to furnish all information required by the tender documents, or submission of a tender not substantially responsive to the tendering documents in every respect will be at the tenderer's risk and may result in rejection of his tender.
- 2.3 A prospective tenderer requiring any clarification of the tendering documents may notify the Employer in writing or by cable, telex or facsimile at the address indicated in the letter of invitation to tender. The Employer will only respond to requests for clarification received earlier than seven days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all persons issued with tendering documents, including a description of the inquiry, but without identifying its source.
- 2.4 Before the deadline for submission of tenders, the Employer may modify the tendering documents by issuing addenda. Any addendum thus issued shall be part of the tendering documents and shall be communicated in writing or by cable, telex or facsimile to all tenderers. Prospective tenderers shall acknowledge receipt of each addendum in writing to the Employer.
- 2.5 To give prospective tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend, as necessary, the deadline for submission of tenders, in accordance with Clause 4.2 herebelow.

3. Preparation of Tenders

- 3.1 All documents relating to the tender and any correspondence shall be in English language.
- 3.2 The tender submitted by the tenderer shall comprise the following:
 - (a) These Instructions to Tenderers, Form of Tender, Conditions of Contract, Appendix to Conditions of Contract and Specifications;
 - (b) Tender Security;
 - (c) Priced Bill of Quantities ;
 - (d) Qualification Information Form and Documents;
 - (e) Alternative offers where invited; and
 - (f) Any other materials required to be completed and submitted by the tenderers.
- 3.3 The tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items for which no rate or price is entered by the tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause relevant to the Contract, as of 30 days prior to the deadline for submission of tenders, shall be included in the tender price submitted by the tenderer.
- 3.4 The rates and prices quoted by the tenderer shall only be subject to adjustment during the performance of the Contract if provided for in the Appendix to Conditions of Contract and provisions made in the Conditions of Contract.
- 3.5 The unit rates and prices shall be in Kenya Shillings.
- 3.6 Tenders shall remain valid for a period of 90 **days** from the date of submission. However in exceptional circumstances, the Employer may request that the tenderers extend the period of validity for a specified additional period. The request and the tenderers' responses shall be made in writing. A tenderer may refuse the request without forfeiting the Tender Security. A tenderer agreeing to the request will not be required or permitted to otherwise modify the tender, but will be required to extend the validity of Tender Security for the period of the extension, and in compliance with Clause 3.7 - 3.11 in all respects.
- 3.7 The tenderer shall furnish, as part of the tender, a Tender Security for the amount specified in the invitation to tender. This shall be in the form of a bank draft or a bank guarantee from an established and reputable bank approved by the Employer.
- 3.8 The format of the Tender Security should be in accordance with the form of Tender Security included in Section G - Standard forms or any other form acceptable to the Employer . Tender Security shall be valid for 30 days beyond the validity of the tender.
- 3.9 Any tender not accompanied by an acceptable Tender Security shall be rejected. The Tender Security of a joint venture must define as "Tenderer" all joint venture partners and list them

in the following manner: a joint venture consisting of”.....”,and
“.....”.

- 3.10 The Tender Securities of unsuccessful tenderers will be returned within 28 days of the end of the tender validity period specified in Clause 3.6.
- 3.11 The Tender Security of the successful tenderer will be discharged when the tenderer has signed the Contract Agreement and furnished the required Performance Security.
- 3.12 The Tender Security may be forfeited
- (a) If the tenderer withdraws the tender after tender opening during the period of tender validity;
 - (b) If the tenderer does not accept the correction of the tender price, pursuant to Clause 5.7;
 - (c) In the case of a successful tenderer, if the tenderer fails within the specified time limit to
 - (i) Sign the Agreement, or
 - (ii) Furnish the required Performance Security.
- 3.13 Tenderers shall submit offers that comply with the requirements of the tendering documents, including the basic technical design as indicated in the Drawings and Specifications. Alternatives will not be considered, unless specifically allowed in the invitation to tender. If so allowed, tenderers wishing to offer technical alternatives to the requirements of the tendering documents must also submit a tender that complies with the requirements of the tendering documents, including the basic technical design as indicated in the Drawings and Specifications. In addition to submitting the basic tender, the tenderer shall provide all information necessary for a complete evaluation of the alternative, including design calculations, technical specifications, breakdown of prices, proposed construction methods and other relevant details. Only the technical alternatives, if any, of the lowest evaluated tender conforming to the basic technical requirements shall be considered.
- 3.14 The tenderer shall prepare one original of the documents comprising the tender documents as described in Clause 3.2 of these Instructions to Tenderers, bound with the volume containing the Form of Tender, and clearly marked “ORIGINAL”. In addition, the tenderer shall submit copies of the tender, in the number specified in the invitation to tender, and clearly marked as “COPIES”. In the event of discrepancy between them, the original shall prevail.
- 3.15 The original and all copies of the tender shall be typed or written in indelible ink and shall be signed by a person or persons duly authorised to sign on behalf of the tenderer, pursuant to Clause 1.5 (a) or 1.6 (b), as the case may be. All pages of the tender where alterations or additions have been made shall be initialled by the person or persons signing the tender.

4. Submission of Tenders

- 4.1 The tenderer shall seal the original and all copies of the tender in two inner envelopes and one outer envelope, duly marking the inner envelopes as “**ORIGINAL**” and “**COPIES**” as appropriate. The inner and outer envelopes shall:
- (a) be addressed to the Employer at the address provided in the invitation to tender;
 - (b) bear the name and identification number of the Contract as defined in the invitation to tender; and
 - (c) provide a warning not to open before the specified time and date for tender opening.
- 4.2 Tenders shall be delivered to the Employer at the address specified above not later than the time and date specified in the invitation to tender. However, the Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with Sub-Clause 2.5 in which case all rights and obligations of the Employer and the tenderers previously subject to the original deadline will then be subject to the new deadline.
- 4.3 Any tender received after the deadline prescribed in clause 4.2 will be returned to the tenderer un-opened.
- 4.4 Tenderers may modify or withdraw their tenders by giving notice in writing before the deadline prescribed in clause 4.2. Each tenderer’s modification or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with clause 3.13 and 4.1, with the outer and inner envelopes additionally marked “**MODIFICATION**” and “**WITHDRAWAL**”, as appropriate. No tender may be modified after the deadline for submission of tenders.
- 4.5 Withdrawal of a tender between the deadline for submission of tenders and the expiration of the period of tender validity specified in the invitation to tender or as extended pursuant to Clause 3.6 may result in the forfeiture of the Tender Security pursuant to Clause 3.11.
- 4.6 Tenderers may only offer discounts to, or otherwise modify the prices of their tenders by submitting tender modifications in accordance with Clause 4.4 or be included in the original tender submission.

5. Tender Opening and Evaluation

- 5.1 The tenders will be opened by the Employer, including modifications made pursuant to Clause 4.4, in the presence of the tenderers’ representatives who choose to attend at the time and in the place specified in the invitation to tender. Envelopes marked “**WITHDRAWAL**” shall be opened and read out first. Tenderers’ and Employer’s representatives who are present during the opening shall sign a register evidencing their attendance.
- 5.2 The tenderers’ names, the tender prices, the total amount of each tender and of any alternative tender (if alternatives have been requested or permitted), any discounts, tender modifications and withdrawals, the presence or absence of Tender Security, and such other details as may be considered appropriate, will be announced by the Employer at the opening. Minutes of the

tender opening, including the information disclosed to those present will be prepared by the Employer.

- 5.3 Information relating to the examination, clarification, evaluation, and comparison of tenders and recommendations for the award of Contract shall not be disclosed to tenderers or any other persons not officially concerned with such process until the award to the successful tenderer has been announced. Any effort by a tenderer to influence the Employer's officials, processing of tenders or award decisions may result in the rejection of his tender.
- 5.4 To assist in the examination, evaluation, and comparison of tenders, the Employer at his discretion, may ask any tenderer for clarification of the tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, telex or facsimile but no change in the price or substance of the tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered in the evaluation of the tenders in accordance with Clause 5.7.
- 5.5 Prior to the detailed evaluation of tenders, the Employer will determine whether each tender (a) meets the eligibility criteria defined in Clause 1.7;(b) has been properly signed; (c) is accompanied by the required securities; and (d) is substantially responsive to the requirements of the tendering documents. A substantially responsive tender is one which conforms to all the terms, conditions and specifications of the tendering documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the works; (b) which limits in any substantial way, inconsistent with the tendering documents, the Employer's rights or the tenderer's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other tenderers presenting substantially responsive tenders.
- 5.6 If a tender is not substantially responsive, it will be rejected, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.
- 5.7 Tenders determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:
 - (a) where there is a discrepancy between the amount in figures and the amount in words, the amount in words will prevail; and
 - (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will prevail, unless in the opinion of the Employer, there is an obvious typographical error, in which case the adjustment will be made to the entry containing that error.
 - (c) In the event of a discrepancy between the tender amount as stated in the Form of Tender and the corrected tender figure in the main summary of the Bill of Quantities, the amount as stated in the Form of Tender shall prevail.
 - (d) The Error Correction Factor shall be computed by expressing the difference between the tender amount and the corrected tender sum as a percentage of the corrected Builder's Work (i.e. Corrected tender sum less P.C. and Provisional Sums)

- (e) The Error Correction Factor shall be applied to all Builder's Work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.
 - (f) the amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and, with concurrence of the tenderer, shall be considered as binding upon the tenderer. If the tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security may be forfeited in accordance with clause 3.11.
- 5.8 The Employer will evaluate and compare only the tenders determined to be substantially responsive in accordance with Clause 5.5.
- 5.9 In evaluating the tenders, the Employer will determine for each tender the evaluated tender price by adjusting the tender price as follows:
- (a) making any correction for errors pursuant to clause 5.7;
 - (b) excluding provisional sums and the provision, if any, for contingencies in the Bill of Quantities, but including Dayworks where priced competitively.
 - (c) making an appropriate adjustment for any other acceptable variations, deviations, or alternative offers submitted in accordance with clause 3.12; and
 - (d) making appropriate adjustments to reflect discounts or other price modifications offered in accordance with clause 4.6
- 5.10 The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the tender documents or otherwise result in unsolicited benefits for the Employer will not be taken into account in tender evaluation.
- 5.11 The tenderer shall not influence the Employer on any matter relating to his tender from the time of the tender opening to the time the Contract is awarded. Any effort by the Tenderer to influence the Employer or his employees in his decision on tender evaluation, tender comparison or Contract award may result in the rejection of the tender.
- 5.12 Firms incorporated in Kenya where indigenous Kenyans own 51% or more of the share capital shall be allowed a 10% preferential bias provided that they do not sub-contract work valued at more than 50% of the Contract Price excluding Provisional Sums to an non-indigenous sub-contractor.

6. Award of Contract

- 6.1 Subject to Clause 6.2, the award of the Contract will be made to the tenderer whose tender has been determined to be substantially responsive to the tendering documents and who has offered the lowest evaluated tender price, provided that such tenderer has been determined to be (a) eligible in accordance with the provision of Clauses 1.2, and (b) qualified in accordance with the provisions of clause 1.7 and 1.8.

- 6.2 Notwithstanding clause 6.1 above, the Employer reserves the right to accept or reject any tender, and to cancel the tendering process and reject all tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected tenderer or tenderers or any obligation to inform the affected tenderer or tenderers of the grounds for the action.
- 6.3 The tenderer whose tender has been accepted will be notified of the award prior to expiration of the tender validity period in writing or by cable, telex or facsimile. This notification (hereinafter and in all Contract documents called the “Letter of Acceptance”) will state the sum (hereinafter and in all Contract documents called the “Contract Price”) that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract.

The notification of award will constitute the formation of the Contract, subject to the tenderer furnishing the Performance Security in accordance with Clause 6.6 and signing the Agreement in accordance with Clause 6.4.

- 6.4 The Agreement will incorporate all agreements between the Employer and the successful tenderer. It will be signed by the Procuring Entity and sent to the successful tenderer, within 30 days following the notification of award. Within 21 days of receipt the successful tenderer will sign the Agreement and return it to the Employer.
- 6.5 Within 21 days after receipt of the Letter of Acceptance, the successful tenderer shall deliver to the Employer a Performance Security in the amount stipulated in the Appendix to Conditions of Contract and in the form stipulated in the Tender documents. The Performance Security shall be in the form of a Bank Guarantee, and shall be issued at the tenderer’s option, by a reputable bank located in Kenya and acceptable to the Employer.
- 6.6 Failure of the successful tenderer to comply with the requirements of clause 6.5 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Tender Security.
- 6.7 Upon the furnishing by the successful tenderer of the Performance Security, the Employer will promptly notify the other tenderers that their tenders have been unsuccessful.

SECTION B:
CONDITIONS OF CONTRACT

CONDITIONS OF CONTRACT

1. Definitions

1.1 In this Contract, except where context otherwise requires, the following terms shall be interpreted as indicated;

“Bill of Quantities” means the priced and completed Bill of Quantities forming part of the tender.

“Compensation Events” are those defined in Clause 24 hereunder.

“The Completion Date” means the date of completion of the Works as certified by the Project Manager, in accordance with Clause 31.

“The Contract” means the agreement entered into between the Employer and the Contractor as recorded in the Agreement Form and signed by the parties including all attachments and appendices thereto and all documents incorporated by reference therein to execute, complete, and maintain the Works,

“The Contractor” refers to the person or corporate body whose tender to carry out the Works has been accepted by the Employer.

“The Contractor’s Tender” is the completed tendering document submitted by the Contractor to the Employer.

“The Contract Price” is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

“Days” are calendar days; **“Months”** are calendar months.

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

“The Defects Liability Certificate” is the certificate issued by Project Manager upon correction of defects by the Contractor.

“The Defects Liability Period” is the period named in the Contract Data and calculated from the Completion Date.

“Drawings” include calculations and other information provided or approved by the Project Manager for the execution of the Contract.

“Dayworks” are Work inputs subject to payment on a time basis for labour and the associated materials and plant.

“Employer”, or the **“Procuring entity”** as defined in the Public Procurement Regulations (i.e. Central or Local Government administration, Universities, Public Institutions and Corporations, etc) is the party who employs the Contractor to carry out the Works.

“Equipment” is the Contractor’s machinery and vehicles brought temporarily to the Site for the execution of the Works.

“The Intended Completion Date” is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.

“Materials” are all supplies, including consumables, used by the Contractor for incorporation in the Works.

“Plant” is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.

“Project Manager” is the person named in the Appendix to Conditions of Contract (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract and shall be an “Architect” or a “Quantity Surveyor” registered under the Architects and Quantity Surveyors Act Cap 525 or an “Engineer” registered under Engineers Registration Act Cap 530.

“Site” is the area defined as such in the Appendix to Condition of Contract.

“Site Investigation Reports” are those reports that may be included in the tendering documents which are factual and interpretative about the surface and subsurface conditions at the Site.

“Specifications” means the Specifications of the Works included in the Contract and any modification or addition made or approved by the Project Manager.

“Start Date” is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with the Site possession date(s).

“A Subcontractor” is a person or corporate body who has a Contract with the Contractor to carry out a part of the Work in the Contract, which includes Work on the Site.

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

“A Variation” is an instruction given by the Project Manager which varies the Works.

“The Works” are what the Contract requires the Contractor to construct, install, and turnover to the Employer, as defined in the Appendix to Conditions of Contract.

2. Interpretation

2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning in English Language unless specifically defined. The Project Manager will provide instructions clarifying queries about these Conditions of Contract.

- 2.2 If sectional completion is specified in the Appendix to Conditions of Contract, reference in the Conditions of Contract to the Works, the Completion Date and the Intended Completion Date apply to any section of the Works (other than references to the Intended Completion Date for the whole of the Works).
- 2.3 The following documents shall constitute the Contract documents and shall be interpreted in the following order of priority;
- (1) Agreement,
 - (2) Letter of Acceptance,
 - (3) Contractor's Tender,
 - (4) Appendix to Conditions of Contract,
 - (5) Conditions of Contract,
 - (6) Specifications,
 - (7) Drawings,
 - (8) Bill of Quantities,
 - (9) Any other documents listed in the Appendix to Conditions of Contract as forming part of the Contract.

Immediately after the execution of the Contract, the Project Manager shall furnish both the Employer and the Contractor with two copies each of all the Contract documents. Further, as and when necessary the Project Manager shall furnish the Contractor [always with a copy to the Employer] with three [3] copies of such further drawings or details or descriptive schedules as are reasonably necessary either to explain or amplify the Contract drawings or to enable the Contractor to carry out and complete the Works in accordance with these Conditions.

3. Language and Law

- 3.1 Language of the Contract and the law governing the Contract shall be English language and the Laws of Kenya respectively unless otherwise stated.

4 Project Manager's Decisions

- 4.1 Except where otherwise specifically stated, the Project Manager will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

5 Delegation

- 5.1 The Project Manager may delegate any of his duties and responsibilities to others after notifying the Contractor.

6 Communications

- 6.1 Communication between parties shall be effective only when in writing. A notice shall be effective only when it is delivered.

7 Subcontracting

- 7.1 The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.

8 Other Contractors

- 8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities etc. as listed in the Appendix to Conditions of Contract and also with the Employer, as per the directions of the Project Manager. The Contractor shall also provide facilities and services for them. The Employer may modify the said List of Other Contractors etc., and shall notify the Contractor of any such modification.

9 Personnel

- 9.1 The Contractor shall employ the key personnel named in the Qualification Information, to carry out the functions stated in the said Information or other personnel approved by the Project Manager. The Project Manager will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are substantially equal to or better than those of the personnel listed in the Qualification Information. If the Project Manager asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the Work in the Contract.

10 Works

- 10.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings. The Works may commence on the Start Date and shall be carried out in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them by the Intended Completion Date.

11 Safety and Temporary Works

- 11.1 The Contractor shall be responsible for the design of temporary works. However before erecting the same, he shall submit his designs including specifications and drawings to the Project Manager and to any other relevant third parties for their approval. No erection of temporary works shall be done until such approvals are obtained.
- 11.2 The Project Manager's approval shall not alter the Contractor's responsibility for design of the Temporary works and all drawings prepared by the Contractor for the execution of the temporary or permanent Works, shall be subject to prior approval by the Project Manager before they can be used.
- 11.3 The Contractor shall be responsible for the safety of all activities on the Site.

12. Discoveries

- 12.1 Anything of historical or other interest or of significant value unexpectedly discovered on Site shall be the property of the Employer. The Contractor shall notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them.

13. Work Program

- 13.1 Within the time stated in the Appendix to Conditions of Contract, the Contractor shall submit to the Project Manager for approval a program showing the general methods, arrangements, order, and timing for all the activities in the Works. An update of the program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Work, including any changes to the sequence of the activities.

The Contractor shall submit to the Project Manager for approval an updated program at intervals no longer than the period stated in the Appendix to Conditions of Contract. If the Contractor does not submit an updated program within this period, the Project Manager may withhold the amount stated in the said Appendix from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue program has been submitted. The Project Manager's approval of the program shall not alter the Contractor's obligations. The Contractor may revise the program and submit it to the Project Manager again at any time. A revised program shall show the effect of Variations and Compensation Events.

14. Possession of Site

- 14.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the Appendix to Conditions of Contract, the Employer will be deemed to have delayed the start of the relevant activities, and this will be a Compensation Event.

15. Access to Site

- 15.1 The Contractor shall allow the Project Manager and any other person authorised by the Project Manager, access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

16. Instructions

- 16.1 The Contractor shall carry out all instructions of the Project Manager which are in accordance with the Contract.

17. Extension or Acceleration of Completion Date

- 17.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a variation is issued which makes it impossible for completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining Work, which would cause the Contractor to incur additional cost. The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager in writing for a decision upon the effect of a

Compensation Event or variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay caused by such failure shall not be considered in assessing the new (extended) Completion Date.

17.2 No bonus for early completion of the Works shall be paid to the Contractor by the Employer.

18. Management Meetings

18.1 A Contract management meeting shall be held monthly and attended by the Project Manager and the Contractor. Its business shall be to review the plans for the remaining Work and to deal with matters raised in accordance with the early warning procedure. The Project Manager shall record the minutes of management meetings and provide copies of the same to those attending the meeting and the Employer. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

19. Early Warning

19.1 The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the Work, increase the Contract Price or delay the execution of the Works. The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.

19.2 The Contractor shall cooperate with the Project Manager in making and considering proposals on how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the Work and in carrying out any resulting instructions of the Project Manager.

20. Defects

20.1 The Project Manager shall inspect the Contractor's work and notify the Contractor of any defects that are found. Such inspection shall not affect the Contractor's responsibilities. The Project Manager may instruct the Contractor to search for a defect and to uncover and test any Work that the Project Manager considers may have a defect. Should the defect be found, the cost of uncovering and making good shall be borne by the Contractor, However, if there is no defect found, the cost of uncovering and making good shall be treated as a variation and added to the Contract Price.

20.2 The Project Manager shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the Appendix to Conditions of Contract. The Defects Liability Period shall be extended for as long as defects remain to be corrected.

20.3 Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified by the Project Manager's notice. If the Contractor has not corrected a defect within the time specified in the Project Manager's notice, the Project Manager will assess the cost of having the defect corrected by other parties and such cost shall be treated as a variation and be deducted from the Contract Price.

21. Bills Of Quantities

- 21.1 The Bills of Quantities shall contain items for the construction, installation, testing and commissioning of the Work to be done by the Contractor. The Contractor will be paid for the quantity of the Work done at the rate in the Bills of Quantities for each item.
- 21.2 If the final quantity of the Work done differs from the quantity in the Bills of Quantities for the particular item by more than 25 percent and provided the change exceeds 1 percent of the Initial Contract price, the Project Manager shall adjust the rate to allow for the change.
- 21.3 If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bills of Quantities.

22. Variations

- 22.1 All variations shall be included in updated programs produced by the Contractor.
- 22.2 The Contractor shall provide the Project Manager with a quotation for carrying out the variations when requested to do so. The Project Manager shall assess the quotation, which shall be given within seven days of the request or within any longer period as may be stated by the Project Manager and before the Variation is ordered.
- 22.3 If the work in the variation corresponds with an item description in the Bills of Quantities and if in the opinion of the Project Manager, the quantity of work is not above the limit stated in Clause 21.2 or the timing of its execution does not cause the cost per unit of quantity to change, the rate in the Bills of Quantities shall be used to calculate the value of the variation. If the cost per unit of quantity changes, or

if the nature or timing of the work in the variation does not correspond with items in the Bills of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of Work.
- 22.4 If the Contractor's quotation is unreasonable, the Project Manager may order the variation and make a change to the Contract price, which shall be based on the Project Manager's own forecast of the effects of the variation on the Contractor's costs.
- 22.5 If the Project Manager decides that the urgency of varying the Work would prevent a quotation being given and considered without delaying the Work, no quotation shall be given and the variation shall be treated as a Compensation Event.
- 22.6 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.
- 22.7 When the Program is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast.

23. Payment Certificates, Currency of Payments and Advance Payments

- 23.1 The Contractor shall submit to the Project Manager monthly applications for payment giving sufficient details of the Work done and materials on Site and the amounts which the Contractor considers himself to be entitled to. The Project Manager shall check the monthly application and certify the amount to be paid to the Contractor within 14 days. The value of Work executed and payable shall be determined by the Project Manager.
- 23.2 The value of Work executed shall comprise the value of the quantities of the items in the Bills of Quantities completed, materials delivered on Site, variations and compensation events. Such materials shall become the property of the Employer once the Employer has paid the Contractor for their value . Thereafter, they shall not be removed from Site without the Project Manager's instructions except for use upon the Works.
- 23.3 Payments shall be adjusted for deductions for retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 30 days of the date of issue of each certificate. If the Employer makes a late payment, the Contractor shall be paid simple interest on the late payment in the next payment. Interest shall be calculated on the basis of number of days delayed at a rate three percentage points above the Central Bank of Kenya's average rate for base lending prevailing as of the first day the payment becomes overdue.
- 23.4 If an amount certified is increased in a later certificate or as a result of an award by an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.
- 23.5 Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.
- 23.6 The Contract Price shall be stated in Kenya Shillings. All payments to the Contractor shall be made in Kenya Shillings and foreign currency in the proportion indicated in the tender, or agreed prior to the execution of the Contract Agreement and indicated therein. The rate of exchange for the calculation of the amount of foreign currency payment shall be the rate of exchange indicated in the Appendix to Conditions of Contract. If the Contractor indicated foreign currencies for payment other than the currencies of the countries of origin of related goods and services the Employer reserves the right to pay the equivalent at the time of payment in the currencies of the countries of such goods and services. The Employer and the Project Manager shall be notified promptly by the Contractor of an changes in the expected foreign currency requirements of the Contractor during the execution of the Works as indicated in the Schedule of Foreign Currency Requirements and the foreign and local currency portions of the balance of the Contract Price shall then be amended by agreement between Employer and the Contractor in order to reflect appropriately such changes.
- 23.7 In the event that an advance payment is granted, the following shall apply:-
- a) On signature of the Contract, the Contractor shall at his request, and without furnishing proof of expenditure, be entitled to an advance of 10% (ten percent) of the original amount of the Contract. The advance shall not be subject to retention money.
 - b) No advance payment may be made before the Contractor has submitted proof of the establishment of deposit or a directly liable guarantee satisfactory to the Employer in the amount of the advance payment. The guarantee shall be in the same currency as the advance.

- c) Reimbursement of the lump sum advance shall be made by deductions from the Interim payments and where applicable from the balance owing to the Contractor. Reimbursement shall begin when the amount of the sums due under the Contract reaches 20% of the original amount of the Contract. It shall have been completed by the time 80% of this amount is reached.

The amount to be repaid by way of successive deductions shall be calculated by means of the formula:

$$R = \frac{A(x^1 - x^{11})}{80 - 20}$$

Where:

R = the amount to be reimbursed

A = the amount of the advance which has been granted

X¹ = the amount of proposed cumulative payments as a percentage of the original amount of the Contract. This figure will exceed 20% but not exceed 80%.

X¹¹ = the amount of the previous cumulative payments as a percentage of the original amount of the Contract. This figure will be below 80% but not less than 20%.

- d) with each reimbursement the counterpart of the directly liable guarantee may be reduced accordingly.

24. Compensation Events

24.1 The following issues shall constitute Compensation Events:

- (a) The Employer does not give access to a part of the Site by the Site Possession Date stated in the Appendix to Conditions of Contract.
- (b) The Employer modifies the List of Other Contractors, etc., in a way that affects the Work of the Contractor under the Contract.
- (c) The Project Manager orders a delay or does not issue drawings, specifications or instructions required for execution of the Works on time.
- (d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon the Work, which is then found to have no defects.
- (e) The Project Manager unreasonably does not approve a subcontract to be let.
- (f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to

tenderers (including the Site investigation reports), from information available publicly and from a visual inspection of the Site.

- (g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer or additional work required for safety or other reasons.
 - (h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
 - (i) The effects on the Contractor of any of the Employer's risks.
 - (j) The Project Manager unreasonably delays issuing a Certificate of Completion.
 - (k) Other compensation events described in the Contract or determined by the Project Manager shall apply.
- 24.2 If a compensation event would cause additional cost or would prevent the Work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.
- 24.3 As soon as information demonstrating the effect of each compensation event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager will assume that the Contractor will react competently and promptly to the event.
- 24.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor not having given early warning or not having co-operated with the Project Manager.
- 24.5 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the Appendix to Conditions of Contract.
- 24.6 The Contractor shall give written notice to the Project Manager of his intention to make a claim within thirty days after the event giving rise to the claim has first arisen. The claim shall be submitted within thirty days thereafter.

Provided always that should the event giving rise to the claim of continuing effect, the Contractor shall submit an interim claim within the said thirty days and a final claim within thirty days of the end of the event giving rise to the claim.

25. Price Adjustment

- 25.1 The Project Manager shall adjust the Contract Price if taxes, duties and other levies are changed between the date 30 days before the submission of tenders for the Contract and the date of Completion. The adjustment shall be the change in the amount of tax payable by the Contractor.

- 25.2 The Contract Price shall be deemed to be based on exchange rates current at the date of tender submission in calculating the cost to the Contractor of materials to be specifically imported (by express provisions in the Contract Bills of Quantities or Specifications) for permanent incorporation in the Works. Unless otherwise stated in the Contract, if at any time during the period of the Contract exchange rates shall be varied and this shall affect the cost to the Contractor of such materials, then the Project Manager shall assess the net difference in the cost of such materials. Any amount from time to time so assessed shall be added to or deducted from the Contract Price, as the case may be.
- 25.3 Unless otherwise stated in the Contract, the Contract Price shall be deemed to have been calculated in the manner set out below and in sub-clauses 25.4 and 25.5 and shall be subject to adjustment in the events specified thereunder;
- (i) The prices contained in the Contract Bills of Quantities shall be deemed to be based upon the rates of wages and other emoluments and expenses as determined by the Joint Building Council of Kenya (J.B.C.) and set out in the schedule of basic rates issued 30 days before the date for submission of tenders. A copy of the schedule used by the Contractor in his pricing shall be attached in the Appendix to Conditions of Contract.
 - (ii) Upon J.B.C. determining that any of the said rates of wages or other emoluments and expenses are increased or decreased, then the Contract Price shall be increased or decreased by the amount assessed by the Project Manager based upon the difference, expressed as a percentage, between the rate set out in the schedule of basic rates issued 30 days before the date for submission of tenders and the rate published by the J.B.C. and applied to the quantum of labour incorporated within the amount of Work remaining to be executed at the date of publication of such increase or decrease.
 - (iii) No adjustment shall be made in respect of changes in the rates of wages and other emoluments and expenses which occur after the date of Completion except during such other period as may be granted as an extension of time under clause 17.0 of these Conditions.
- 25.4 The prices contained in the Contract Bills of Quantities shall be deemed to be based upon the basic prices of materials to be permanently incorporated in the Works as determined by the J.B.C. and set out in the schedule of basic rates issued 30 days before the date for submission of tenders. A copy of the schedule used by the Contractor in his pricing shall be attached in the Appendix to Conditions of Contract.
- 25.5 Upon the J.B.C. determining that any of the said basic prices are increased or decreased then the Contract Price shall be increased or decreased by the amount to be assessed by the Project Manager based upon the difference between the price set out in the schedule of basic rates issued 30 days before the date for submission of tenders and the rate published by the J.B.C. and applied to the quantum of the relevant materials which have not been taken into account in arriving at the amount of any interim certificate under clause 23 of these Conditions issued before the date of publication of such increase or decrease.

25.6 No adjustment shall be made in respect of changes in basic prices of materials which occur after the date for Completion except during such other period as may be granted as an extension of time under clause 17.0 of these Conditions.

25.7 The provisions of sub-clause 25.1 to 25.2 herein shall not apply in respect of any materials included in the schedule of basic rates.

26. Retention

26.1 The Employer shall retain from each payment due to the Contractor the proportion stated in the Appendix to Conditions of Contract until Completion of the whole of the Works. On Completion of the whole of the Works, half the total amount retained shall be repaid to the Contractor and the remaining half when the Defects Liability Period has passed and the Project Manager has certified that all defects notified to the Contractor before the end of this period have been corrected.

27. Liquidated Damages

27.1 The Contractor shall pay liquidated damages to the Employer at the rate stated in the Appendix to Conditions of Contract for each day that the actual Completion Date is later than the Intended Completion Date. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not alter the Contractor's liabilities.

27.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rate specified in Clause 23.30

28. Securities

28.1 The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a reputable bank acceptable to the Employer, and denominated in Kenya Shillings. The Performance Security shall be valid until a date 30 days beyond the date of issue of the Certificate of Completion.

29. Dayworks

29.1 If applicable, the Dayworks rates in the Contractor's tender shall be used for small additional amounts of Work only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.

29.2 All work to be paid for as Dayworks shall be recorded by the Contractor on Forms approved by the Project Manager. Each

Completed form shall be verified and signed by the Project Manager within two days of the Work being done.

29.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.

30. Liability and Insurance

- 30.1 From the Start Date until the Defects Correction Certificate has been issued, the following are the Employer's risks:
- (a) The risk of personal injury, death or loss of or damage to property (excluding the Works, Plant, Materials and Equipment), which are due to;
 - (i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works, or
 - (ii) negligence, breach of statutory duty or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor.
 - (b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in Employer's design, or due to war or radioactive contamination directly affecting the place where the Works are being executed.
- 30.2 From the Completion Date until the Defects Correction Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is the Employer's risk except loss or damage due to;
- (a) a defect which existed on or before the Completion Date.
 - (b) an event occurring before the Completion Date, which was not itself the Employer's risk
 - (c) the activities of the Contractor on the Site after the Completion Date.
- 30.3 From the Start Date until the Defects Correction Certificate has been issued, the risks of personal injury, death and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer's risk are Contractor's risks.
- The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts stated in the Appendix to Conditions of Contract for the following events;
- (a) loss of or damage to the Works, Plant, and Materials;
 - (b) loss of or damage to Equipment;
 - (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract, and
 - (d) personal injury or death.
- 30.4 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation required to rectify the loss or damage incurred.
- 30.5 If the Contractor does not provide any of the policies and certificates required, the Employer may effect the insurance which the Contractor should have provided and recover the

premiums from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.

- 30.6 Alterations to the terms of an insurance shall not be made without the approval of the Project Manager. Both parties shall comply with any conditions of insurance policies.

31. Completion and taking over

- 31.1 Upon deciding that the Works are complete, the Contractor shall issue a written request to the Project Manager to issue a Certificate of Completion of the Works. The Employer shall take over the Site and the Works within seven [7] days of the Project Manager's issuing a Certificate of Completion.

32. Final Account

- 32.1 The Contractor shall issue the Project Manager with a detailed account of the total amount that the Contractor considers payable to him by the Employer under the Contract before the end of the Defects Liability Period. The Project Manager shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 30 days of receiving the Contractor's account if it is correct and complete. If it is not, the Project Manager shall issue within 30 days a schedule that states the scope of the corrections or additions that are necessary. If the final account is still unsatisfactory after it has been resubmitted, the Project Manager shall decide on the amount payable to the Contractor and issue a Payment Certificate. The Employer shall pay the Contractor the amount due in the Final Certificate within 60 days.

33. Termination

- 33.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract. These fundamental breaches of Contract shall include, but shall not be limited to, the following;
- (a) the Contractor stops work for 30 days when no stoppage of work is shown on the current program and the stoppage has not been authorised by the Project Manager;
 - (b) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 30 days;
 - (c) the Contractor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (d) a payment certified by the Project Manager is not paid by the Employer to the Contractor within 30 days (for Interim Certificate) or 60 days (for Final Certificate) of issue.
 - (e) the Project Manager gives notice that failure to correct a particular defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager;
 - (f) the Contractor does not maintain a security, which is required.

- 33.2 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under Clause 33.1 above, the Project Manager shall decide whether the breach is fundamental or not.
- 33.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.
- 33.4 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible. The Project Manager shall immediately thereafter arrange for a meeting for the purpose of taking record of the Works executed and materials, goods, equipment and temporary buildings on Site.

34. Payment Upon Termination

- 34.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the Work done and materials ordered and delivered to Site up to the date of the issue of the certificate. Additional liquidated damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable by the Contractor.
- 34.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a certificate for the value of the Work done, materials ordered, the reasonable cost of removal of equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works.
- 34.3 The Employer may employ and pay other persons to carry out and complete the Works and to rectify any defects and may enter upon the Works and use all materials on the Site, plant, equipment and temporary works.
- 34.4 The Contractor shall, during the execution or after the completion of the Works under this clause remove from the Site as and when required, within such reasonable time as the Project Manager may in writing specify, any temporary buildings, plant, machinery, appliances, goods or materials belonging to or hired by him, and in default the Employer may (without being responsible for any loss or damage) remove and sell any such property of the Contractor, holding the proceeds less all costs incurred to the credit of the Contractor.

Until after completion of the Works under this clause the Employer shall not be bound by any other provision of this Contract to make any payment to the Contractor, but upon such completion as aforesaid and the verification within a reasonable time of the accounts therefor the Project Manager shall certify the amount of expenses properly incurred by the Employer and, if such amount added to the money paid to the Contractor before such determination exceeds the total amount which would have been payable on due completion in accordance with this Contract the difference shall be a debt payable to the Employer by the Contractor; and if the said amount added to the said money be less than the said total amount, the difference shall be a debt payable by the Employer to the Contractor.

35. Release from Performance

- 35.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop Work as quickly as possible after receiving this certificate and shall be paid for all Work carried out before receiving it.

36. Corrupt gifts and payments of commission

The Contractor shall not;

- (a) Offer or give or agree to give to any person in the service of the Employer any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other Contract for the Employer or for showing or forbearing to show favour or disfavour to any person in relation to this or any other contract for the Employer.
- (b) Enter into this or any other contract with the Employer in connection with which commission has been paid or agreed to be paid by him or on his behalf or to his knowledge, unless before the Contract is made particulars of any such commission and of the terms and conditions of any agreement for the payment thereof have been disclosed in writing to the Employer.

Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the provisions of the Public Procurement Regulations issued under The Exchequer and Audit Act Cap 412 of the Laws of Kenya.

37. Settlement Of Disputes

- 37.1 In case any dispute or difference shall arise between the Employer or the Project Manager on his behalf and the Contractor, either during the progress or after the completion or termination of the Works, such dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an Arbitrator within thirty days of the notice. The dispute shall be referred to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed by the Chairman or Vice Chairman of any of the following professional institutions;

- (i) Architectural Association of Kenya
- (ii) Institute of Quantity Surveyors of Kenya
- (iii) Association of Consulting Engineers of Kenya
- (iv) Chartered Institute of Arbitrators (Kenya Branch)
- (v) Institution of Engineers of Kenya

On the request of the applying party. The institution written to first by the aggrieved party shall take precedence over all other institutions.

- 37.2 The arbitration may be on the construction of this Contract or on any matter or thing of whatsoever nature arising thereunder or in connection therewith, including any matter or thing left by this Contract to the discretion of the Project Manager, or the withholding by the Project Manager of any certificate to which the Contractor may claim to be entitled to or the measurement and valuation referred to in clause 23.0 of these conditions, or the rights and liabilities of the parties subsequent to the termination of Contract.
- 37.3 Provided that no arbitration proceedings shall be commenced on any dispute or difference where notice of a dispute or difference has not been given by the applying party within ninety days of the occurrence or discovery of the matter or issue giving rise to the dispute.
- 37.4 Notwithstanding the issue of a notice as stated above, the arbitration of such a dispute or difference shall not commence unless an attempt has in the first instance been made by the parties to settle such dispute or difference amicably with or without the assistance of third parties. Proof of such attempt shall be required.
- 37.5 Notwithstanding anything stated herein the following matters may be referred to arbitration before the practical completion of the Works or abandonment of the Works or termination of the Contract by either party:
- 37.5.1 The appointment of a replacement Project Manager upon the said person ceasing to act.
- 37.5.2 Whether or not the issue of an instruction by the Project Manager is empowered by these Conditions
- 37.5.3 Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
- 37.5.4 Any dispute or difference arising in respect of war risks or war damage.
- 37.6 All other matters shall only be referred to arbitration after the completion or alleged completion of the Works or termination or alleged termination of the Contract, unless the Employer and the Contractor agree otherwise in writing.
- 37.7 The Arbitrator shall, without prejudice to the generality of his powers, have powers to direct such measurements, computations, tests or valuations as may in his opinion be desirable in order to determine the rights of the parties and assess and award any sums which ought to have been the subject of or included in any certificate.
- 37.8 The Arbitrator shall, without prejudice to the generality of his powers, have powers to open up, review and revise any certificate, opinion, decision, requirement or notice and to determine all matters in dispute which shall be submitted to him in the same manner as if no such certificate, opinion, decision requirement or notice had been given.
- 37.9 The award of such Arbitrator shall be final and binding upon the parties.

38. Alternative Dispute Resolution

- 38.1 In pursuant to clause 37 it shall be a condition that no dispute shall be referred to Arbitration until Alternative Dispute Resolution methods have been exhausted.
- 38.2 The persons to conduct Alternative Dispute Resolution shall be agreed upon by the parties to the contract.
- 38.3** The Alternative Dispute Resolution methods to apply shall be **Reconciliation, Mediation, and Adjudication.**

SECTION C:
APPENDIX TO CONDITIONS OF CONTRACT

THE EMPLOYER IS

Name: **WEBUYE EAST NG-CDF**

Address: **P.O. BOX:**

Telephone:

Name of Authorised Representative: **FUND ACCOUNT MANAGER**

Address: **P.O. BOX:**

Telephone:

The Project Manager is;

Name: **MINISTRY OF ROADS, TRANSPORT, INFRASTRUCTURE AND PUBLIC WORKS – BUNGOMA COUNTY**

Address: **P.O. BOX 763, BUNGOMA**

Telephone:

The name (and identification number) of the Contract is

THE PROPOSED ERECTION AND COMPLETION WORKS FOR A TWIN SCIENCE LABORATORY AT WEBUYE EAST NG-CDF IN BUNGOMA COUNTY

The Works consist of, **Substructures, Walling, Reinforced Concrete, Windows, Doors, Roofing, Finishes and Electrical works.**

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

The Intended Completion Date for the whole of the Works shall be`

24 WEEKS FROM DATE OF POSSESSION

The following documents also form part of the Contract:

AS LISTED IN CLAUSE 2.3 OF CONDITIONS OF CONTRACT

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

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

The Site is located within **BUNGOMA COUNTY.**

The Defects Liability period is **180** days after handing over.

Other Contractors, utilities etc., to be engaged by the Employer on the Site

Include those for the execution of;

1. **MECHANICAL WORKS**
2. **ELECTRICAL WORKS**
3. **CIVIL WORKS**

The minimum insurance covers shall be;

- **Contractors All Risk Insurance**

The following events shall also be Compensation Events:

1. **NONE (ONLY AS LISTED IN CLAUSE 24 OF THE CONDITIONS OF CONTRACT**
2. _____
3. _____
4. _____

The period between Program updates is **FOURTEEN (14)** days.

The amount to be withheld for late submission of an updated Program is Kshs **5,000.00**

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

The Price Adjustment Clause **SHALL NOT** apply

The liquidated damages for the whole of the Works is Kshs. **5,000.00**(per week)

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

The Completion Period for the Works is **24 Weeks**.

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

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

Advance Payment **SHALL NOT** be granted.

Prices for **V.A.T should** be included in the unit prices of billed items but should be given as a percentage at the **GRAND SUMMARY PAGE**.

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

WITH HOLDING TAX of 3% shall be deducted from every payment due to the Contactor(s).

SECTION D:

DRAWINGS

DRAWINGS

As Listed below:

Drg. NO.

Drg. NO.

SECTION E:
STANDARD FORMS

STANDARD FORMS

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

FORM OF TENDER

TO: _____ [Name of Employer] _____ [Date]
_____ [Name of Contract]

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of

Kshs. _____ [Amount in figures] Kenya Shillings

-----Amount in words]

2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager’s notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.
3. We agree to abide by this tender until _____ [Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20 _____

Signature _____ in the capacity of _____

duly authorized to sign tenders for and on behalf of
_____ [Name of Contractor]

of _____ [Address of Contractor]

Witness; Name _____

Address _____

Signature _____

Date _____

FORM OF AGREEMENT

THIS AGREEMENT, made the _____ day of _____ 20 _____

between _____ of [or whose registered

office is situated at] _____

(hereinafter called “the Employer”) of the one part AND

_____ ---of [or whose registered

office is situated at] _____

(hereinafter called “the Contractor”) of the other part.

WHEREAS THE Employer is desirous that the Contractor executes

(*name and identification number of Contract*) (hereinafter called “the Works”) located
at _____ [*Place/location of the*

Works] and the Employer has accepted the tender submitted by the Contractor for the execution and
completion of such Works and the remedying of any defects therein for the Contract Price of

Kshs _____ [*Amount in figures*], Kenya

Shillings _____ [*Amount
in words*].

NOW THIS AGREEMENT WITNESSETH as follows:

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

(vii) Priced Bills of Quantities

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

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

The common Seal of _____

Was hereunto affixed in the presence of _____

Signed Sealed, and Delivered by the said _____

Binding Signature of Employer _____

Binding Signature of Contractor _____

In the presence of (i) Name _____

Address _____

Signature _____

[ii] Name _____

Address _____

Signature _____

FORM OF TENDER SECURITY

WHEREAS(hereinafter called “the Tenderer”) has submitted his tender dated for the construction of
..... (name of Contract)

KNOW ALL PEOPLE by these presents that WE having our registered office at(hereinafter called “the Bank”), are bound unto(hereinafter called “the Employer”) in the sum of Kshs..... for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents sealed with the Common Seal of the said Bank this Day of20.....

THE CONDITIONS of this obligation are:

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

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

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

[date]

[signature of the Bank]

[witness]

[seal]

PERFORMANCE BANK GUARANTEE

To: _____ (Name of Employer)

_____ (Date) _____ (Address of Employer)

Dear Sir,

WHEREAS _____ (hereinafter called “the Contractor”) has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ (hereinafter called “the Works”);

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

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

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

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

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

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

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

QUALIFICATION INFORMATION

1. Individual Tenderers or Individual Members of Joint Ventures

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

Place of registration: _____

Principal place of business _____

Power of attorney of signatory of tender _____

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

Year	Volume	
	Currency	Value

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

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

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

Namarambi Secondary School – Twin Science Laboratory

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

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

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

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

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

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

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

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

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

2 Joint Ventures

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

TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full names of tenderer

.....

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

.....

3. Telephone number (s) of tenderer

.....

4. Telex address of tenderer

.....

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

.....

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

.....

.....

Signature of Tenderer

Make copy and deliver to: _____(Name of Employer)

CONFIDENTIAL BUSINESS QUESTIONNAIRE

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

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

Part 1 – General

Business Name

Location of business premises; Country/Town.....

Plot No..... Street/Road

Postal Address..... Tel No.....

Nature of Business.....

Current Trade Licence No..... Expiring date.....

Maximum value of business which you can handle at any time: K. pound.....

Name of your bankers.....

Branch.....

Part 2 (a) – Sole Proprietor

Your name in full..... Age.....

Nationality..... Country of Origin.....

Citizenship details

Part 2 (b) – Partnership

Give details of partners as follows:

DETAILS OF SUB-CONTRACTORS

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

Failure to comply with this requirement may invalidate the tender.

- (1) Portion of Works to be sublet:
- (i) Full name of Sub-contractor and address of head office:
.....
- (ii) Sub-contractor’s experience of similar works carried out in the last 3 years with Contract value:
.....
.....

- (2) Portion of Works to sublet:
- (i) Full name of sub-contractor and address of head office:
.....
.....
- (ii) Sub-contractor’s experience of similar works carried out in the last 3 years with contract value:
.....

[Signature of Tenderer)

Date

·

Statement of Compliance

I confirm compliance of all clauses of the General Conditions, General Specifications and Particular Specifications in this tender.

I confirm I have not made and will not make any payment to any person, which can be perceived as an inducement to win this tender.

Signed:*for and on behalf of the Tenderer*

Date:

Official Rubber Stamp:

ITEM	DESCRIPTION	KSHS
	<p><u>GENERAL PRELIMINARIES</u></p> <p>A. PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p>B. ABBREVIATIONS</p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows: -</p> <p>C.M. Shall mean cubic metre</p> <p>S.M. Shall mean square metre</p> <p>L.M. Shall mean linear metre</p> <p>MM Shall mean Millimetre</p> <p>Kg. Shall mean Kilogramme</p> <p>No. Shall mean Number</p> <p>Prs. Shall mean Pairs</p> <p>B.S. Shall mean the British Standard Specification Published by the</p> <p>Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p>m.s. Shall mean measured separately.</p>	

a.b.d Shall mean as before described.

Carried to collection

ITEM	DESCRIPTION	KSHS
<p>A.</p>	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</p> <p>Attendance; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted: -</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same.</p> <p>B Fix Only: -</p> <p>"Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p> <p>C EMPLOYER</p> <p>The "Employer" is</p> <p>The term "Employer" and "Government" wherever used in the contract document shall be synonymous</p> <p>D PROJECT MANAGER</p> <p>The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorized to represent him on behalf of the Government.</p> <p>E ARCHITECT</p> <p>The term "Architect" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is County Works Office, Department of Public Works, P.O. Box 763, BUNGOMA.</p> <p>F QUANTITY SURVEYOR</p> <p>The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is County Works Office, Department of Public Works, P.O. Box 763, BUNGOMA.</p> <p>G ELECTRICAL ENGINEER</p> <p>The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is County Works Office, Department of Public Works, P.O. Box 763, BUNGOMA.</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
<p>A</p> <p>MECHANICAL ENGINEER</p> <p>The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is County Works Office, Department of Public Works, P.O. Box 763, BUNGOMA.</p> <p>B</p> <p>STRUCTURAL ENGINEER</p> <p>The term "Structural Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is County Works Office, Department of Public Works, P.O. Box 763, BUNGOMA.</p> <p>C</p> <p>FORM OF CONTRACT</p> <p>The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works (2000 Edition) a copy of which can be obtained from the Project Manager's office. The Conditions of Contract can also be obtained from the Project Manager's offices.</p> <p><i>Conditions of Contract</i></p> <p>These are numbered from 1 to 38 as set out in pages 14 to 31 of these tender documents.</p> <p>Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities</p> <p>D</p> <p>BOND.</p> <p>The Contractor shall find and submit on the Form of Tender and approved bank or Insurance Company and who will be willing to be bound the Government in an amount equal to five per cent (5%) of the Contract amount for the due performances of the Contract up to the date of completion as certified by the PROJECT MANAGER and who will when and if called upon, sign a Bond to that effect on the relevant standard form included herein. (Without the addition of any limitations) on the same day as the Contract Agreement is signed, by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p> <p>E</p> <p>PLANT, TOOLS AND VEHICLES</p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>		
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
A	<p>TRANSPORT.</p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
B	<p>MATERIALS AND WORKMANSHIP.</p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
C	<p>SIGN FOR MATERIALS SUPPLIED.</p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER</p>	
D	<p>STORAGE OF MATERIALS</p> <p>The Contractor shall provide at his own risk and cost were directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
E	<p>SAMPLES</p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Roads, Housing and Public Works.</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
	<p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p> <p>A GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.</p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the work people.</p> <p>The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p> <p>B SECURITY OF WORKSETC.</p> <p>The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p> <p>B PUBLIC AND PRIVATE ROADS.</p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
<p>A</p>	<p>EXISTING PROPERTY. The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER</p> <p>B VISIT SITE AND EXAMINE DRAWINGS. The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p> <p>C 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 Contractor must allow for building any necessary temporary access roads (approximately 70 metres long) for the transport of the 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 of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER The Contractor should also allow for relocating existing fence (approx. 30 metres long).</p> <p>D AREA TO BE OCCUPIED BY THE CONTRACTOR The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
	<p>OFFICE ETC. FOR THE PROJECT MANAGER</p> <p>A The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the type noted in the Particular Preliminaries, complete with Furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.</p> <p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</p> <p>B The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER. The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub-contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p> <p>SANITATION OF THE WORKS</p> <p>C The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p>	<p>SUPERVISION AND WORKING HOURS The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub- Contractors or other places where work is being prepared for the contract.</p> <p>PROVISIONAL SUMS. The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Such sums are net and no addition shall be made to them for profit.</p> <p>PRIME COST (OR P.C.) SUMS. The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods as stated in Condition No. 20 of the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p> <p>PROGRESS CHART. The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p> <p>ADJUSTMENT OF P.C. SUMS. In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them.</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
	<p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p> <p>A ADJUSTMENT OF PROVISIONAL SUMS. In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued as described for Variations in Conditions No. 22 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p> <p>B NOMINATED SUB-CONTRACTORS When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts as described in Condition No. 20 of the Conditions of Contract and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".</p> <p>C DIRECT CONTRACTS Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p> <p>D ATTENDANCE UPON OTHER TRADESMEN, ETC. The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECTMANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
	<i>Carried to collection</i>	

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

ITEM	DESCRIPTION	KSHS
A.	MATERIALS ARISING FROM EXCAVATIONS	
	<p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p> <p>B. PROTECTION OF THE WORKS. Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p> <p>C REMOVAL OF RUBBISH ETC. Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p> <p>D WORKS TO BE DELIVERED UP CLEAN Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p> <p>E GENERAL SPECIFICATION. For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
<p>A</p>	<p>TRAINING LEVY The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000.00 in value.</p> <p>B</p> <p>MATERIALS ON SITE This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p> <p>C</p> <p>HOARDING The Contractor shall enclose the site (approx.150M long) of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm centres with two 75 x 50 mm timber rails. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p> <p>D</p> <p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT The Contractor shall constantly keep on the works a literate English-speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
	<i>Carried to collection</i>	
	TOTAL FOR GENERAL PRELIMINARIES	

BILL NO 1

PARTICULAR PRELIMINARIES

PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	KSHS
<p>A</p> <p>B</p> <p>C</p> <p>D</p>	<p>PRICING ITEMS OF PRELIMINARIES</p> <p>Prices shall be inserted against items of preliminaries in the tenderers priced bill of quantities. The contractor is advised to read and understand all preliminaries items. The Engineer’s estimate is <u>Kes 12,018,696.00</u></p> <p>DESCRIPTION OF THE WORKS</p> <p>The works to be carried out under this contract basically involves: substructures, walling, roofing, doors, windows, finishes, fittings, painting, piping and external works.</p> <p>FLOOR AREAS</p> <p>The total gross floor areas are approximated as follows:</p> <p>352 square meters. Ensure the sand used is of clean river sand and should be properly sieved before using it. The verandah slab should be at the same level with the main slab.</p> <p>MEASUREMENTS</p> <p>In the event of any discrepancies arising between the bills of quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER.</p>	

	CARRIED TO COLLECTION PP5	
ITEM	DESCRIPTION	KSHS
A	<p>CLEARING WAY</p> <p>The contractor shall remove all temporary works, rubbish, debris and surplus materials from site as they accumulate and upon completion of the works, remove and clear away all rubbish, stains and leave in a clean and tidy state to the reasonable satisfaction of the project manager.</p>	
B	<p><u>SIGNBOARD (SIGNAGE WORKS)</u></p> <p>METALLIC SIGN(BRANDING)</p> <p>Allow for providing, erecting a signboard of 1500mmx1200mm surrounded with a metallic beading all round, with a milk white board in between and colours as shown in Annex 1, embedded in cement, sand concrete class 15. The extension below ground level to be 600mm and use sq tube of 50X50 Or 40mm Black pipe. Height above ground level at 2400mm.annex 1. Total Height 3m</p>	30,000
C	<p>ARCHITECTURAL BOARD (WOODEN)</p> <p>Allow for providing, erecting before commencement of works and maintaining throughout the course of the contract and afterwards clearing away a signboard for the contractor as designed in annex 2.</p>	25,000
	CARRIED TO COLLECTION PP 5	55,000

ITEM	DESCRIPTION	KSHS
<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p>	<p>VALUE ADDED TAX</p> <p>The prices quoted shall be VAT exclusive .and the contractor is expected to pay the taxes as required by law.</p> <p>The contractor completion period in accordance with the Conditions of contract must be strictly adhered to</p> <p>The PROJECT MANAGER shall strictly monitor the contractors progress in relation to the progress chart And should it be found necessary the project manager Shall inform the contractor in writing that his actual Performance on site is not satisfactory</p> <p>PLAQUE AND LABELLING(BRANDING)</p> <p>The contractor shall allow a sum for labeling on the Building and top of Iron Sheets after completion of the project and provide for a plaque as per the direction of the PROJECT MANAGER AND CLERK OF WORKS.</p> <p>DISCOUNT</p> <p>No discount shall be allowed at the end of this document hence ensure the calculation are accurate.</p> <p>FLOOR FINISHES</p> <p>The floor should be finished with approved Terrazzo</p>	<p>15,000</p>
	<p>CARRIED TO COLLECTION</p>	<p>70,000</p>

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	KSHS
A	<u>BILL NO 1. SUMMARY</u>	
	Particular preliminaries	
	Page no -2-	
	-3-	55,000
	-4-	15,000
	BILL NO 1 PRELIMINARIES CARRIED TO GRAND SUMMARY PAGE 17	70,000

BILL NO 2
BUILDERS WORKS.

PREAMBLES AND PRICING NOTES

A. GENERALLY

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

B. MANUFACTURERS' NAMES

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

C. WALLING

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

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

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

D. CARPENTRY

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

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

Prices must also include for all nails and fasteners.

A. JOINERY

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

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

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

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

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

B. IRONMONGERY

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

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

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

C. STRUCTURAL STEELWORK

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

A. PLASTERWORK AND OTHER FINISHES

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

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

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

B. GLAZING

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

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

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

C. PAINTING

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

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

Namarambi Secondary School – Twin Science Laboratory

PROPOSED TWIN SCIENCE LABORATORY FOR NAMARAMBI SECONDARY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUBSTRUCTURE(ALL PROVISIONAL)				
	EXCAVATION AND EARTHWORKS				
	SITE PREPARATION				
	Clearing site vegetation, grubbing up roots and starting from reduce level filling up voids left with selected excavated material				
A	Bushes shrubs undergrowth or the like and cart away from site	370	SM		
	EXCAVATION				
	Excavating vegetable soil for preservation, average 150mm thick				
B	Load up and store on site, later level and spread as directed on site and cart away surplus excavated material	111	CM		
C	Excavating surface to reduce level over 300mm deep	105.6	CM		
D	Excavating trenches: to receive foundations starting from reduce level not exceeding 1.50m deep	79	CM		
E	Breaking out existing material; extra over all kinds of excavations irrespective of depth rock irrespective of class	5	CM		
	Sub Total				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	DISPOSAL				
A	Excavated material; backfilling depositing and compacting in layers maximum 150mm thick	52	CM		
B	Surplus excavated material; removing from site	48	CM		
	DISPOSAL OF WATER				
C	Labour and materials; keeping excavation free from general water		ITEM		
	PLANKING AND STRUTTING		ITEM		
D	Labour and materials; to uphold sides of excavation generally				
	FILLING				
	<u>Cutting and filling</u>				
E	Excavate material to make up levels depositing and compacting in layers maximum 150mm thick	52	CM		
	HARDCORE				
F	250mm thick depositing and compacting layers maximum 150mm thick in making up levels	322	SM		
	MURRAM				
G	Blinding surfaces of fill 50mm thick	352	SM		
	ANTI-TERMITE AND HERBICIDE TREATMENT				
H	Applying of approved insecticide solution sprayed evenly to surface of fill and tops of foundation walls	450	SM		
	CONCRETE WORK				
	INSITU CONCRETE;REINFORCEMENT				
I	Plain mix 1:4:8 in foundation strip blinding 50mm thick	99	SM		
J	1:3:6 In Mixing steps	2	CM		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p>Normal :class 20/20mm):vibrated (1:2:4)</p> <p>Foundation strips irrespective of thickness(200mm thick)</p>	19.8	CM		
B	<p>Vibrated floor beds 150mm thick</p> <p>REINFORCEMENT</p> <p><u>Bars :high tensile steel: cold worked: BS 4461 including bends, hooks, tying wire, distance blocks and spacers</u></p>	352	SM		
C	<p>8mm diameter</p> <p><u>Bars: round mild steel :cold worked B.S 4449 including bends hooks, tying wire, distance blocks and spacers</u></p>	200	KGS		
D	<p>12 diameter; in any location</p> <p><u>Fabric:B.S 4483</u></p> <p>Reference A142 mesh 200x200mm weight 2.22kgs per square meter(measured net-no allowance made for laps);including bends, tying wire and distance blocks in any location</p>	450	KGS		
E			SM		
G	<p><u>SAWN FORMWORK TO INSITU CONCRETE</u></p> <p>Edges of floor bed 75 to 150mm wide</p> <p><u>WALLING</u></p> <p>200mm thick Natural stones walling obtained from an approved quarry jointed and bedded in gauged mortar (1:4);reinforced with hoop iron gauge 500 in every alternate course</p>	120	LM		
I			SM		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	DAMP PROOF MEMBRANES				
A	Polythene;500 gauge,150mm laps, no allowance for laps Horizontal 1 no layer (s) over 300mm wide	352	SM		
	PLINTH FINISHES				
B	Render, cement and sand (1:4),wood floated 12mm thick 2 no coat work, to concrete or brickwork base (m/s), generally external	15	SM		
C	Ditto 20 mm paving in steps finished smooth	15	SM		
D	Painting 3 coats black bituminous paint to rendered surface external	15	SM		
	PAVING SLAB AROUND THE STRUCTURE				
E	600mm wide cast in situ paving slab laid on murrum blinding in foundation depth 200mm deep with foundation of bricks	50	SM		
F	Ramp finished with steel trowel casting to approval of project manager approvals	2	SUM		
	EXPANSION JOINT				
G	12mm thick flex cell expansion joint lining	10.2	SM		
	Sub Total				
	TOTAL SUB STRUCTURES CARRIED TO SUMMARY				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	REINFORCED CONCRETE FRAME				
	CONCRETE WORK				
	INSITU CONCRETE;REINFORCEMENT				
	Normal class 20/20mm)vibrated				
A	Beams	8	CM		
B	round columns 200mm thick(veranda)	0.8	CM		
C	75mm thick slab casted on top of the 4 entrance doors	1.5	SM		
D	Ditto to concrete worktops including side benches with mesh wire	100	SM		
	<u>Bars high yield steel: cold worked</u> <u>B.S 4461 including bends, hooks, tying wire</u> <u>distance blocks and spacers</u>				
E	8 mm diameter, in any location	315	KGS		
F	10mm columns(verandah)	115	KGS		
G	12mm ditto	750	KGS		
	FORMWORK TO INSITU CONCRETE				
H	Sides and soffites of Ring beams, lintels and arches	250	SM		
I	Ditto columns	21	SM		
	TOTAL CARRIED TO SUMMARY				
	REINFORCED CONCRETE FRAME				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ROOFING				
	ROOF COVERING				
A	Gauge 30 GCI Sheets fixed to purlins. gal sheet resin coat blue in colour Normal profile	441	SM		
B	Gauge 30 G.I Ridge cap	35.7	LM		
	<u>CARPENTRY</u>				
	<u>STRUCTURALL TIMBERS</u>				
	<u>Approved pressure impregnated well-seasoned and treated timber</u>				
C	100X50mm wall plate bedded in cement sand (1:3) mortar bolted to concrete with and including 16mm diameter bolts cast into concrete at 1000mm centres	90	LM		
D	150X50mm tie beams spacing (1200mm c/c)	380	LM		
E	100X50mm rafters	445	LM		
F	100X50mm king post, queen post, ties and struts	530	LM		
G	75X50 mm purlins	650	LM		
	<u>BOARDING</u>				
H	Approved seasoned timber, prime grade, pressure impregnated 200X25mm thick fascia board	125	LM		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	RAINWATER INSTALLATIONS				
	<u>Gutter work, 28 gauge plastic gutters and fittings: purpose made</u>				
A	75X150mm gutter overlapped joints in the running lengths, fixing with metal brackets at 1000mm centre	70	LM		
B	Extra over gutters for 100mm pipe outlet	6	NO		
C	Ditto stopped end	6	NO		
	<u>Rainwater pipework, 2 upvc pressure pipes and fittings, purpose made</u>				
D	100mm diameter pipes connections in the running length, fixing with plastic holderbars at 1000mm centres to backgrounds requiring plugging	150	LM		
E	Extra over pipework for shoes	8	NO		
F	Ditto swan neck	8	NO		
	PAINTING AND DECORATING				
	<u>ONE UNDERCOAT TWO COATS OIL PAINT FULL GLOSS FINISH TO CROWN PAINTS OR EQUAL AND APPROVED</u>				
G	General timber board surfaces	125	LM		
	Total Sub Total				
	TOTAL ROOFING CARRIED TO SUMMARY				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>WALLING</u>				
	<u>MACHINE CUT STONES</u>				
	<u>Walling in Natural course stone obtained from a suitable quarry or concrete block jointing in cement sand mortar (1:3) as work proceeds</u>				
A	Walls 150mm thick reinforced with hoop iron gauge 500 in every alternate course .External	247	SM		
B	Ditto bricks for partitioning internally	161	SM		
C	Ditto side benches and concrete tables	90	SM		
D	Labour and materials in eaves filling 150mm thick mean height	138	LM		
E	Raking cutting to 150mm thick walling	70	LM		
F	Form or leave 250X250mm opening in 200mm walling	34	NO		
G	225mmX225mm precast concrete permanent vent mosquitoes gauzed laid in cement sand 1:3 mortar	68	NO		
	<u>DAMP PROOF COURSES</u>				
	B.S 743 type A, Bitumen hessian base 200mm laps no allowance made for laps				
H	150mm wide, bedded in cement mortar(1:3)	210	LM		
	<u>Expansion Joint</u>				
I	12mm thick flex cell expansion joint lining	31	SM		
J	25X25mm "expedite sealer"	3	LM		
	TOTAL WALLING CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>WINDOWS</u>				
	<u>Precast concrete, normal class 20/20mm vibrated</u>				
A	Sills 250 X 75 mm thick, once weathered, once throated, reinforced as necessary for handling, bedding, jointing and pointing in cement mortar(1:4)	46	LM		
	<u>Joinery :wrot camphor</u>				
B	100x50 mm window frame, moulded	6	LM		
C	150X25 mm window boards including rounded edges and 25 x 25mm bearers	6	LM		
D	Built up pelmet box made of 125 x 25 mm thick front, 100x 25 mm top and ends, 25 X 50 mm thick cypress bearers	13	LM		
	<u>Accessories</u>				
E	Aluminium "silent gliss" single curtain track, one runner per 75mm of track end stops per 1 length fixed with chromium plated screws to timber	6	LM		
	<u>METAL WORK</u>				
	<u>PURPOSE MADE UNITS</u>				
F	Casement window in standard metal casement Sections, permanent ventilators comprising T-bar gauze and metal hood to full width of window one coat primer by manufacturer complete with all necessary ironmongery, steel for glazing with putty lugs to two jamps, cutting and pinning to concrete or block work, fixing to head and sill with screws and plugging. All windows should have no grills Overall size 1800 X 1200mm high	23	NO		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	GLAZING				
A	4mm thick clear sheet glass to metal with putty 1.00 to 1.50 square meters	100	SM		
B	Ditto but obscure		SM		
	PAINTING AND DECORATING				
	ONE UNDERCOAT TWO COATS OIL PAINTFULL GLOSS FINISH TO CROWN PAINTS OR EQUAL AND APPROVED				
C	Wood surfaces 200 to 300 mm girth external /internal	26	LM		
D	Metal window surfaces over 300mm girth	100	SM		
E	Ditto grill surfaces	6	SM		
F	Concrete surfaces 200-300 mm girth external	46	LM		
	TOTAL WINDOWS CARRIED TO SUMMARY				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	DOORS				
	TIMBER DOORS				
A	Standard timber panel door complete with 900X2400 mm high panel door, with 6equal panels	5	NO		
	METAL DOORS				
B	1500X2400mm double leaf door	4	NO		
C	Ditto single leaf 900X2400mm high	2	NO		
D	double door for gas chamber	1	NO		
	JOINERY				
	Frames: wrot mahogany or equal and approved				
E	150X50mm rebated	30	LM		
F	ditto transom	30	LM		
G	20X25mm glazing beading	30	LM		
H	ditto quadrant	30	LM		
I	45x25mm architrave	30	LM		
	IRONMONGERY				
	<u>Supply and fix the following</u>				
J	steel butt hinges 100mm	9	PRS		
K	225 X 25 x 3 mm thick door fixing cramps one end bent and twice screwed to frame and the other end fanged and built in to block work	30	NO		
L	Door stops No 8400	5	NO		
M	2 lever 'union' mortise lock complete with set lever handle furniture	5	PRS		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PAINTING AND DECORATING				
	ONE COAT ALLUMINIUM HARDWOOD PRIMER TO CROWN PAINTS OR EQUAL AND APPROVED				
A	Ditto 100-200mm girth	20	LM		
	ONE UNDERCOAT TWO COATS OIL PAINT FULL GLOSS FINISH TO CROWN PAINTS OR EQUAL AND APPROVED				
B	Wood surfaces over 300mm girth external/internal	20	SM		
C	Wood surface 200 to 300mm girth	30	LM		
D	Ditto 0-100mm girth	29	LM		
E	Metal surfaces Over 300mm girth internal/external	30	SM		
F	Metal surface 200 to 300mm girth	37	LM		
G	Ditto 0-100mm girth	36	LM		
	Sub Total				
	TOTAL FOR DOORS CARRIED TO SUMMARY				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	FINISHES				
	FLOORS				
A	24mm thick, cement sand (1:3) Screed wood floated to receive terrazzo paving m/s	267	SM		
B	15mm thick polished terrazzo floor finishes	267	SM		
C	25x3mm plastic dividing stripslaid in an approved pattern	450	LM		
D	15mm thick 90mm high polished terrazzo skirting	100	LM		
	PLASTERWORKS				
	WALLS				
E	12mm thick, 2 no coat work plaster 1:2:6 to concrete or brickwork base (m/s) generally, internal steel trowelled	325	SM		
F	Ditto 15mm thick external.(Key pointing)	495	SM		
G	15mm thick 2 no coat work cement sand (1:4) rendered reveals jambs and openings	74	SM		
H	Ditto but columns(round verandah)	21	SM		
	CONCRETE WORKTOPS				
I	12mm thick, 2 no coat work plaster 1:2:6 to concrete Worktop finishing including walls below the worktops	100	SM		
	TILES ON THE WORKTOPS				
	SUPPLY AND FIX				
J	6mm thick colored/white plain tiles 300X150mm(Wall tiles)	100	SM		
	CEILLING BOARD				
K	50X75mm moulded cornice	150	LM		
L	50x50mm & 50X 75mm brandering	1300	LM		
M	12mm thick ceiling	267	SM		
N	600X600mm door trap	3	NO		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
PAINTING AND DECORATING					
THREE COATS PVA BASED EMULSION PAINT TO CROWN PAINTS OR EQUALL AND APPROVED					
A	Plastered walls surfaces over 300mm girth internal	325	SM	200	65,000
B	Ditto external surface	495	SM	200	99,000
C	Ditto to reveals jambs and openings	74	SM	200	14,800
D	Ditto to columns	21	SM	200	4,200
E	Ditto to ceiling surfaces	267	SM	200	53,400
FIXTURES & FITTINGS					
Supply and fix standard Celotex pinboard					
size 1200X1200mm including 50x20mm wrot cypress edging plugged to wall all complete with 3 coats oil paint					
F		2	NO	4500	9,000
G	Ditto whiteboard 1200X900mm	2	NO	16000	32,000
Sub Total					277,400

ITEM	DESCRIPTION	QTY	AMOUNT	
			Labou r	full contract
<u>SUMMARY OF ELEMENTS</u>				
1	SUBSTRUCTURE			
2	REINFORCED CONCRETE FRAME			
3	ROOFING			
4	WALLING			
5	WINDOWS			
6	DOORS			
7	FINISHES			
TOTAL FOR BUILDING WORKS CARRIED TO GRAND SUMMARY				

Namarambi Secondary School – Twin Science Laboratory

BILL NO.3

MECHANICAL WORKS AND PLUMBING

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>BILL NO.3</p> <p>BIOLOGY/CHEMISTRY LABORATORY</p> <p>LABORATORY SINKS</p> <p>Supply,deliver and install polypropylene laboratory sinks as vulcathene black injection moulded polypropylene sink with self drainage base and an outlet to accept the waste described below as cat no.602 complete with: vultex labline bench mounted i-way outlet fitting with inlet for supply and side valve havng swivel nozzle and spout.</p>	30			
A			NO		
	<p>"vulcathene waste, plug back, nut, butyl, rubber, gasket grating and chain as cat.504 provision c/w diameter valcathene bottle trap 20mm diameter 650mm high laboratory sink tap as swan neck in valcathene or equal and approved equivalent</p>	30			
B			No		
	<p>FUME CUPBOARD</p> <p>cupboard with sliding plexiglass face with a 12"work opening running full width of cabinet with cabinet,conter balance weight at the back base cabinet with sliding doors, an 8" diameter excaust collar connections, over head instrument control panel and shall incorporate a vulcathene sink, l.p gas outlet and a non corrosive bulk aluminium on working surface and sides to be as nimrod F3000 or equal and approved equivalent.diamensions</p>	1			
C			No		
	<p>Fume cupboard extract fan</p> <p>cupboard extract fan capble of 0.4m3 /s against a system pressure drop of 50n/m2 casing of fan to be in rigid pvc, impellers molded in phonelic resin and motor protected by sealing coat of polyurethane compound fan to be complete with motor starter,electrical control panel fixed near the fume cupboard with on/off and trip and manual override in the plant room,flexible c connections and anti-vibration mountings.</p>	1			
D			No		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	FUME CUPBOARD EXTRA FOR DUCT WORK				
A	Install 200mm diameter upvc duct work for the fume cupboard above				
B	200mm diameter upvc pipework class "D"	12	Lm		
C	Holder bats for 200mm diameter pipework	2	No		
D	200mm diameter bends	2	No		
E	200mm diameter ventilating cowl	1	No		
F	Weathering apron for 200mm dia pipe	1	No		
G	Neoprene fan connections supports antivibration mounting for fan and any other necessary items	1	NO		
	WATER SUPPLY				
J	Controll valve as vultex labline ref.no v12105 bench mounting outlet complete with back nut,spout as vultex labline ref no v12107/D	1	No		
K	Allow for 1000mm long 12mm diameter copper tube and nuts	1	No		
	GAS SUPPLY				
L	Controll valve as vultex labline ref.no v12109	1	No		
M	Back nut and nozzle as vultex labline ref no v12110D	1	No		
N	Allow for 1000mm long 12mm diameter copper tube and nuts	1	No		
	DRAINAGE				
O	1 1/4" diameter waste complete with intergral grating, removable chained plug and back nut as vulcathene ref no.504	1	No		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	LABORATORY L.P GAS INSTALLATION				
	L.P GAS SUPPLY				
A	25mm diameter GMS class B pipe	24	LM		
B	50mm diameter GMS class B pipe for sleeve	12	LM		
C	50mm diameter GMS bend	5	NO		
D	25mm diameter ditto	5	NO		
E	25mm diameter tee	5	NO		
F	25x15mm dia reducer	4	NO		
G	L.P gas Pressure gauge	1	NO		
	COPPER TUBE				
H	6/8mm diameter solid drawn heavy duty copper tubes	36	NO		
I	8/10mm ditto	30	NO		
J	10/12mm ditto	30	NO		
K	12mm ditto	24	NO		
	EXTRA OVER COPPER TUBES				
L	10mm dia copper socket/nipple	20	NO		
M	10/8 dia adaptors	10	NO		
N	10x8mm copper jointing regulator	12	NO		
O	15mm dia first stage gas pressure regulator rego 2403 V.9complete with connections and brackets for 1 no gas cylinder tank	1	NO		
P	15m dia second stage gas pressure regulator as rego 2503B for supply:	1	NO		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	CHANGE OVER VALVES				
Q	12mm diameter L.P heavy gauge change over valve gas valves	1	NO		
R	6/8mm diameter approved quarter turn, lever	4	NO		
S	Operated ball valve to BS 5154 and joints to copper gas outlet Low pressure L.P gas outlet with a safety drop lever To prevent accidental "turn on" 2CFM at 2p.s.i, 4mm diameter outlet and 1/4" BSP tail with back nut the outlet shall be as vultex labline 2 way bench mounted with 2 cocks spaced at 90degree model no VL2601/D	14	NO		
T	10x8mm dia coupler	10	NO		
U	10x6mm copper tees c/w nuts	10	NO		
V	10x8mm ditto	10	NO		
W	10x8mm copper flare nuts	10	NO		
X	10x6mm ditto	10	NO		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BURNERS AND ACCESSORIES				
A	Install standard school two way 180 degrees bench gas tap push and operation with fixed nozzle as method BM 405-1 or approved equivalent complete with isolating valve clips, rubber hose tubes, including all accessories and attachments	12	No		
B	Ditto but 90 degrees	3	No		
	VALVES, COCKS AND CONTROLS				
C	15mm diameter liquified petroleum gas gauge isolating Valves	1	No		
D	22mm ditto	1	No		
E	25mm ditto	1	No		
F	32mm dia gas cock	1	No		
	CHANGE OVER VALVES				
G	12mm diameter L.P heavy gauge change over valve	2	No		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PHYSICS LABORATORY				
A	polypropylene laboratory sinks as vulcathene black injection moulded polypropylene sink with self drainage base and an outlet to accept the waste described below as cat no.602 complete with: vultex labline bench mounted i-way outlet fitting with inlet for supply and side valve having swivel nozzle and spout. "vulcathene waste, plug back, nut, butyl, rubber, gasket grating and chain as cat.504 provision c/w diameter valcathene bottle trap	12	No		
B	20mm diameter 650mm high laboratory sink tap as swan neck in valcathene or equal and approved equivalent	12	No		
	WATER SUPPLY				
C	Control valve as vultex labline ref.no VL2105 bench mounting outlet complete with back nut spout as vultex labline Ref.no VL2107/D	1	No		
D	Allow for 1000mm long 12mm diameter copper tube and nuts	1	No		
	GAS SUPPLY				
E	Control valve as vultex labline ref.no VL2109 back nut and nozzles as vultex labline ref no VL2110D	1	No		
F	Allow for 1000mm long 12mm diameter copper tube and nuts	1	No		
	DRAINAGE				
G	11/4" diameter waste complete with intergral grating,removable chained plug and buck nut as vulcathene Ref no .504	1	No		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	LABORATORY L.P GAS INSTALLATION				
	L.P GAS SUPPLY				
A	25mm diameter GMS class B pipe	24	Lm		
B	50mm diameter GMS class B pipe for sleeve	12	Lm		
C	50mm diameter GMS bend	5	No		
D	25mm diameter ditto	5	No		
E	25mm diameter tee	5	No		
F	25x15mm dia reducer	4	No		
G	l.p gas Pressure gauge	1	No		
	COPPER TUBE				
H	6/8mm diameter solid drawn heavy duty copper tubes	36	No		
I	8/10mm ditto	30	No		
J	10/12mm ditto	30	No		
K	12mm ditto	24	No		
	EXTRA OVER COPPER TUBES				
L	10mm dia copper socket/nipple	20	No		
M	10/8 dia adaptors	10	No		
N	10x8mm copper jointing	12	No		
	REGULATOR				
O	15mm dia first stage gas pressure regulator rego 2403 V.9complete with connections and brackets for 1 no gas cylinder tank	1	No		
P	15m dia second stage gas pressure regulator as rego 2503B for supply:	1	No		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	CHANGE OVER VALVES				
Q	12mm diameter L.P heavy gauge change over valve	1	No		
	GAS VALVES				
R	6/8mm diameter approved quarter turn, lever operated ball valve to BS 5154 and joints to copper gas outlet	4	No		
S	Low pressure L.P gas outlet with a safety drop lever to prevent accidental "turn on" 2CFM at 2p.s.i, 4mm diameter outlet and 1/4" BSP tail with back nut the outlet shall be as vultex labline 2 way bench mounted with 2 cocks spaced at 90° angle model no VL2601/D	14	No		
T	10x8mm dia coupler	10	No		
U	10x6mm copper tees c/w nuts	10	No		
V	10x8mm ditto	10	No		
W	10x8mm copper flare nuts	10	No		
X	10x6mm ditto	10	No		
Sub Total					

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BURNERS AND ACCESSORIES				
	Install standard school two way 180 degrees bench gas tap push and operation with fixed nozzle as method BM 405-1 or approved equivalent complete with isolating valve clips, rubber hose tubes,etc including all accessories and attachments	12			
A			No		
B	ditto but 90degrees	3	No		
	VALVES, COCKS AND CONTROLS				
	15mm diameter liquified petroleum gas gauge isolating Valves	1			
C			No		
D	22mm ditto	1	No		
E	25mm ditto	1	No		
F	32mm dia gas cock	1	No		
	CHANGE OVER VALVES				
G	12mm diameter L.P heavy gauge change over valve	2	No		
H	Allow for builders work for the above	1	Item		
	Sub Total				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO. 3				
	INTERNAL PLUMBING WORKS				
	Supply, deliver and install pipes, tubing and fittings as descibed and shown on the drawings				
A					
	PIPES Where exposed to adverse weather condition and all conforming to the current European standards for PPR installations and to the engineers approval, Pipe jointing shall be by polyfusion or use of electric coupling, rates must allow for all metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support race ways, isolating sheaths, elastic materials,				
	PPR PIPES				
B	20mm diameter pipe work	60	Lm		
C	25mm ditto	30	Lm		
D	32mm ditto	30	Lm		
	BENDS				
E	20mm diameter bend	40	No		
F	25mm ditto	40	No		
G	32mm ditto	20	No		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	TEES				
A	25mm ditto	20	No		
B	32mm ditto	10	No		
	REDUCERS				
C	25x20mmdiameter reducer	20	No		
D	32x20mm ditto	10	No		
E	32x25mm ditto	10	No		
F	40x20mm ditto	12	No		
G	40x25mm ditto	12	No		
	UNIONS				
H	20mm diameter pipe unions	40	No		
I	25mm ditto	30	No		
J	32mm ditto	15	No		
	THREAD FITTINGS				
K	20mm diameter male/female) 90 degree bend/elbow	10	No		
Sub Total					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ROOF WATER TANK/METALIC STAND</u>				
A	Supply, deliver and install an approved 5000 litres capacity Upvc cylindrical vertical water storage tanks complete with cover and having screwed connections for the inlet, outlets, overflow pipes and drain pipes and floaters for its proper functioning.	2	No		
B	Construct a concrete stand with reinforcement bars as instructed by the Engineer.	2	No.		
	VALVES				
	25mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154PN for series B rating, with round male Threaded transition fittings. The gate valve to be as As PEGLER or approved equivalent .	2			
C			No		
D	32mm ditto	1	No		
E	40mm ditto	1	No		
F	25mm diameter non-return valve	2	No		
G	25mm diameter medium pressure ball valve	2	No		
H	Allow for setting to work, testing and commisioning of internal plumbing system	1	Item		
Sub Total					

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO 3				
	INTERNAL DRAINAGE				
A	Supply, deliver and install the following in pvc soil and waste system to BS4515 and 5255 with fittings fixed to manufacturers printed instructions and BS 5572(1978)				
	All PVC branches, tees, reducing tees and reducers are to be formed strictly in accordance with the manufacturers printed instructions and the Contractor must allow for all the various sizes of connectors adaptors, socket reducers, holder bats and clips required for the satisfactory functioning of the system				
B	100mm diameter UPVC golden brown soil pipe	48	Lm		
C	100mm diameter UPVC grey soil and waste pipe	48	Lm		
D	40mm diameter grey waste pipe	42	Lm		
E	32mm ditto	42	Lm		
	Extra over UPVC pipework for the following				
G	100mm diameter sweep bend	4	No		
H	100mm diameter gully piece complete with grating	2	No		
I	100x40mm diameter boss connector	8	No		
	EXCAVATION FOR PIPES				
J	Allow for excavation in soil/murram for drainage pipes not exceeding 1500mm deep and average 900mm deep, part return in fill, ram and surplus cart away.	40	Lm		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO 3				
	INTERNAL DRAINAGE CONT....				
A	100x40mm diameter boss connector	4	No		
B	50mm diameter trapped floor gully complete with floor gully inlet	8	No		
C	40x32mm diameter socket reducer	10	No		
D	40mm diameter sweep bend	15	No		
E	32mm ditto	10	No		
F	40mm diameter sweep tee	15	No		
G	32 mm ditto	10	No		
H	40mm diameter access plug	10	No		
I	32mm ditto	10	No		
	INSPECTION CHAMBERS				
	Allow for excavation, concreting to class 1:3:6, walling 150mm thick solid concrete block walls with 1:3 mortar and plastering to 1:2, medium duty rectangular cover and frame to specification for man hole not exceeding 1500mm depth.	7	No		
J			No		
	GULLY TRAPS				
K	Ditto but 100mm diameter gully trap complete with grating chamber and concrete cover	7	No		
L	Allow for setting to work, testing and commissioning of the internal drainage system	1	Item		
	Sub Total				

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SOAKPIT				
	Construct the following in 1no soak pit overall size 1500mm diameter x 6000mm deep				
A	Excavate for soakpit starting from ground level not exceeding 1.5m backfill after constructing soakpit and dispose excess material as directed by the DR	14	Cm		
B	Ditto Exceeding 1.5m but not exceeding 3.0m deep	14	Cm		
C	Ditto Exceeding 3m but not exceeding 4.5m deep	14	Cm		
D	Ditto Exceeding 4.5m but not exceeding 6.0m deep	14	Cm		
E	Extra over excavation for excavating in rock	30	Cm		
F	Allow for planking and strutting to sides of excavation as described		Item		
G	Allow for keeping all excavations free from all water including spring and running water		Item		
H	Backfill pit with hardcore upto 3/4 full	50	Cm		
I	Disposal Backfill approved excavated materials around excavations	14	Cm		
	Blinding				
	Plain concrete (1:4:8) as Described in:-				
J	50mm thick blinding to receive strip foundation	6	Sm		
	Vibrated reinforced concrete (1:2:4) class 20/20mm in:				
K	150mm thick strip foundation	6	Sm		
	Steel Reinforcement				
L	Mild steel to B.S. 4449 as described in 10mm diameter bars	50	Kgs		
	Walling				
M	150mm medium dressed natural stone walling laid in cement sand 1:3 mortar	10	Sm		
TOTAL CARRIED TO SUMMARY					

Namarambi Secondary School – Twin Science Laboratory

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PORTABLE FIRE FIGHTING EXTINGUISHERS				
	Supply,deliver the following portable fire fighting in positions indicated as per the contract drawings				
A	9 litres water/Carbondioxide extinguisher to BS5382 and BS5423 and with normal gauge and wall mounting brackets	2	NO		
B	5KGS Carbondioxide gas fire extinguisher to BS3326 and BS 3326 And BS 5423 and normal charge and wall mounting brackets	2	NO		
C	225mm wall mounted manual bell	1	NO		
D	9 kgs Dry chemical powder portable fire extinguisher complete with pressure gauge full charge and mounting brackets	2	NO		
E	Allow for sign writing for fire exit and fire instructions	1	ITEM		
	TOTAL FIRE FIGHTING EQUIPMENT CARRIED TO SUMMARY				

ITEM	DESCRIPTION	AMOUNT
A	Total for chemistry/Biology laboratory	
B	Total for physics	
C	Total for Plumbing	
D	Total for Drainage	
	TOTAL FOR MECHANICAL WORKS	

Namarambi Secondary School – Twin Science Laboratory

BILL NO.4

ELECTRICAL WORKS

**BILLS OF
QUANTITIES
FOR
ELECTRIC
AL
WORKS
INSTALLA
TIONS(TWI
N LAB)**

NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	Supply install, test and commission the following Lighting points wired in 1.5mm ² single core PVC insulated copper cables drawn in 20mm concealed H/G PVC conduit and all accessories excluding switches for:				
	(a) One way switching	21	NO		
	(b) Two way switching	4	NO		
2	Lighting fitting complete with tubes, bulbs and all accessories as follows:-				
	(a) 1200mmx36w(4Ft) florescent fittings C/W tubes	20	No		
	(b) semi-recessed weatherproof Bulkhead fitting complete with vandal proof enclosure as THORN or approved equivalent	7	NO		
3	10A ivory type plate switch as M.K range or approved equivalent:-				
	(a) 1 gang 1 way	6	NO		
	(b) 1 gang 2 way weatherproof	4	NO		
4	13A Ring mains circuit power points comprising switched socket outlet wired in 2.5mm ² single core PVC insulated copper cables drawn in concealed 25mm H/G PVC conduit and all accessories being				
	(a) Single	4	NO		
	(b) Twin	4	NO		
5	13A switched socket outlet C/W pilot as CRABTEE and all accessories being.				
	(a) 13A Socket outlets twin	16	NO		
6	PME comprising 25mm Ø X1500mm long steel cored copper clad earth electrode 6.0mm ² single core earth lead,earth clamp and all accessories including an inspection pit with removable concrete cover all to the requirements of KPLC	2	LOT		
SUB TOTAL ELECTRICAL WORKS					

Namarambi Secondary School – Twin Science Laboratory

NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
7	6 way consumers control unit complete with 60A intergral insualtor as CRABTEE or approved equivalent	1	No		
8	MCB's to be installed in the above consumer unit as follows:	4	NO		
(a)	5 A SP MCB				
(b)	30 A SP MCB	2	NO		
(c)	single blanking plates	6	NO		
8	2x6.0mm ² + 1x4.0mm ² single core PVCl Copper sub mains cable drawn in 32mm Ø concealed H/G PVC conduit from meter box to consumer unit	25	M		
9	16SWG Surface mounted and spray painted meter board of sufficient capacity to accommodate 1No single phase power metre 1No cut-out 60A- 80A main switch (KMBG) earth bonding and all accessories	2	Lot		
10	Allow for testing and commissioning	1	Item		
Sub total for electrical carried from above					
TOTAL ELECTRICAL WORKS CARRIED TO SUMMARY PAGE					

Namarambi Secondary School – Twin Science Laboratory

BILL NO.5

FURNITURE WORKS

NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO.5				
	<u>FURNISHING</u>				
A	Purchase of materials and fabrication of metallic lab stools 400x400 tops.	100	PCs		
B	Metallic physics lab tables with block board veneer tops or its equivalent	10	PCs		
C	Office desks with 3 drawers on 1 side with a block board top assembled on site	4			
	Metallic cushioned and mesh backside armed office chairs	4	PCs		
	shelves in 3 layers in the preparatory room	1	Item		
TOTAL FOR FURNITURES CARRIED TO GRAND SUMMARY					

P.C AND PROVISIONAL SUMS					
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	Allow a Provisional sum of kshs 30,000 (thirty thousand only) for project documentation	1	Item	30,000	30,000
B	Allow a Provisional sum of kshs 10,000 (ten thousand only) for project designs approvals by public health	1	Item	10,000	10,000
B	Allow a Provisional sum of Kshs.200,000 (Two Hundred thousand) only for Technical supervision	1	Item	200,000	200,000
C	Allow a Provisional sum of ksh. 200,000 (Two hundred thousand only) for PMC	1	Item	200,000	200,000
TOTAL FOR P.C & PROVISIONAL SUMS CARRIED TO GRAND SUMMARY					440,000

Namarambi Secondary School – Twin Science Laboratory

GRAND SUMMARY

ITEM	DESCRIPTION PAGE NO.	For Official use only	For Tenderer's use only
A	Bill No. 1 Preliminaries		
B	Bill No. 2 Builder's Works		
C	Bill No. 3 Electrical		
D	Bill No. 4 Mechanical works		
E	Bill No. 5 Furnitures		
F	Bill No. 6 Prime cost and Provisional sums		
GRAND TOTAL (VAT INCLUSIVE) CARRIED TO FORM OF TENDER:KSHS			

Amount in words: Kenya Shillings

Tenderer's Signature

Address

.....

Date

Witness Signature

Address

.....

Date

TENDER EVALUATION CRITERIA

After tender opening, the tenders will be evaluated in 3 stages, namely:

1. Determination of Responsiveness
2. Detailed Technical Examination
3. Financial Evaluation.

STAGE 1- DETERMINATION OF RESPONSIVENESS

A) PRELIMINARY EXAMINATION

This stage of evaluation shall involve examination of the pre-qualification conditions as set out in the Tender Advertisement Notice or Letter of Invitation to Tender and any other conditions stated in the bid document.

These conditions may include the following:

- i) Category of Registration with National Construction Authority in the relevant trade and or any other statutory bodies for building works: **NCA 7**.
- ii) Certified copy of Valid Single business permit from any county government authority
- iii) Certified copy of Valid Tax compliance certificate issued by Kenya Revenue Authority.
- iv) Certified copy of Company certificate of incorporation / certificate of registration.
- v) Dully filled, signed and stamped Form of Tender.
- vi) Provision of Bid Security of 1% of the tender sum from reputable bank or approved insurance firm by PPRA.
- vii) Certified copy of CR12 and must provide copies of IDs/passport for Directors.
- viii) Certified Renewed copy of practicing license with NCA as per the tender notice.
- xi) All pages **MUST** be serialized/ paged

The employer may seek further clarification/confirmation if necessary to confirm authenticity/compliance of any condition of the tender.

The tenderers who do not satisfy any of the above requirements shall be considered non-Responsive and their tenders will not be evaluated further.

B) COMPLETENESS OF TENDER DOCUMENT

The tender document shall be examined based on the Instruction to Tenderers which states as follows:

In accordance to Instructions to Tenderers, the tenderers will be required to provide evidence for eligibility of the award of the tender by satisfying the employer of their eligibility and adequacy of resources to effectively carry out the subject contract. The tenderers shall be required to fill the Standards Forms provided for the purposes of providing the required information. The tenderers may also attach the required information if they so desire.

The award of points for the **STANDARD FORMS** considered in this section shall be as shown below:

<u>PARAMETER</u>	<u>MAXIMUM POINTS</u>
(i) Statement of Compliance -----	3
(ii) Confidential business questionnaire-----	5
(iii) Key personnel - -----	20
(iv) Contract Completed in the last Five (5) years - -----	12
(v) Schedules of on-going projects -----	4
(vi) Schedules of contractor’s equipment -----	8
(vii) Contractor’s performance on existing contracts-----	15
(viii) Audited Financial Report for the last 3 years-----	10
(ix) Evidence of Financial Resources -----	10
(x) Name, Address and Telephone of Banks (Contractor to provide) ----	5
(xi) Litigation History-----	3
(xii) Sanctity of the tender document as in accordance with clause Of instruction to tenderer -----	5
TOTAL	<u>100</u>

The detailed scoring plan shall be as shown in table 1 below: -

Item	Description	Point Scored	Max. Point
i	<p>Statement of Compliance</p> <p>Filled signed and stamped-----3</p> <p>Signed but not stamped or vice versa ----- 2</p> <p>Not signed nor stamped ----- 0</p>		3
ii	<p>Confidential Business Questionnaire Form.</p> <p>Completely filled ----- 5</p> <p>Partially filled ----- 3</p> <p>Not filled ----- 0</p>		5
iii	<p>Key Personnel (Attach evidence)</p>		20
	<p>Director of the firm</p> <ul style="list-style-type: none"> ○ Holder of degree or diploma in relevant Engineering field-----5 ○ Holder of certificate in relevant Engineering field-3 ○ Holder of trade test certificate in relevant Engineering field-----2 ○ No relevant certificate -----0 	5	
	<p>At least 1No. degree/diploma holder of key personnel in relevant Engineering field</p> <ul style="list-style-type: none"> ○ With over 10 years relevant experience -----5 ○ With over 5 years relevant experience ----- 3 ○ With under 5 years relevant experience ----- 1 	5	
	<p>At least 2 No certificate holder of key personnel in relevant Engineering field</p> <ul style="list-style-type: none"> ○ With over 10 years relevant experience ----- 3 ○ With over 5 years relevant experience ----- 2 ○ With under 5 years relevant experience -----1 	6	
	<p>At least 2No artisan (trade test certificate in relevant Engineering field)</p> <p>Artisan with over 10 years relevant experience. -----2</p> <p>Artisan with under 10 years relevant experience ----- 1</p> <p>Non skilled worker with over 10 years relevant experience -----1</p>		4

Item	Description	Point Scored	Max. Point	
iv	Contract completed in the last five (5) years (A max of 4No.Projects) (attach evidence) <ul style="list-style-type: none"> ○ Project of similar nature, complexity and magnitude ----- -----3 ○ Project of similar nature but of lower value than the one in consideration----- 2 ○ No completed project of similar nature ----- 0 		12	
v	On-going projects (A max of 2No.Projects) (attach evidence) <ul style="list-style-type: none"> ○ Project of similar nature, complexity and magnitude ----- ----- 2 ○ Project of similar nature but of lower value than the one in consideration ----- 1 ○ No ongoing project of similar nature - -----0 		4	
vi	Schedules of contractor’s equipment and transport (attach proof or evidence of ownership) <ul style="list-style-type: none"> ○ Means of transport (Vehicle) ----- 4 ○ No means of transport ----- 0 		4	8
	For each specific equipment required in the installation of the work being tendered for. (Maximum No. of equipment to be considered – 4No.) --1		4	
vii	Contractor’s performance on existing contracts <ul style="list-style-type: none"> ○ Contracts on schedule/New contracts..... 15 ○ Contracts behind schedule without redress from project manager..... 5 ○ Contract with default notices without redress from project manager..... 3 ○ Terminated contract(s) in the last five years.... 0 		15	
viii	Financial report		10	
	Audited financial report (last three (3) years) <ul style="list-style-type: none"> ○ Annual turnover greater or equal to 5 times the cost of the project ----- 10 ○ Annual turnover greater or equal to 3 times the cost of the project----- 6 ○ Annual turnover greater or equal to the cost of the project -----4 ○ Turnover below the cost of the project ----- 2 			
ix	Evidence of Financial Resources (cash in hand, lines of credit, over draft facility etc)		10	

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	<ul style="list-style-type: none"> ○ Has financial resources equal or above the cost of the project-----10 ○ Has financial resources below the cost of the project ---5 ○ Has not indicated sources of financial resources ---0 ○ 		
x	Name, Address and Telephone of Banks (Contractor to provide) <ul style="list-style-type: none"> ○ Provided ----- 5 ○ Not provided ----- 0 		5
xi	Litigation History <ul style="list-style-type: none"> ○ Filled -----3 ○ Not filled -----0 		3
xii	Sanctity of the tender document <ul style="list-style-type: none"> ○ Having the document intact (not tampered with in any way) -----5 ○ Having mutilated or modified the tender document-----0 		5
	TOTAL		100

Any bidder who scores 60 points and above shall be considered for further evaluation

STAGE 2 - TECHNICAL EVALUATION

A) COMPLIANCE WITH TECHNICAL SPECIFICATIONS

(For equipment)

In this section, the bid will be analyzed to determine compliance with General and Particular technical specifications for the works as indicated in the tender document.

The tenderer shall fill in the Technical Schedule as specified in the tender document for Equipment and Items indicating the Country of Origin, Model/Make/Manufacturer of the Item/Equipment they propose to supply.

Where the Equipment proposed by the tenderer differs with the models specified in the tender document, it is mandatory that the brochures/catalogues of the same be submitted with the tender document highlighting the catalogues Numbers of the proposed items. Such brochures/catalogues should indicate comprehensive relevant data of the proposed equipment/items which should include but not limited to the following:

- a) Standards of manufacture
- b) Performance ratings/characteristics
- c) Material of manufacture
- d) Electrical power ratings and
- e) Any other necessary requirements (Specify)

Following the above analysis, where the proposed equipment is found not to satisfy the specifications, the tender will be deemed Non – Responsive and will not be evaluated further.

B) DETAILED TECHNICAL EXAMINATION

(For Builders work only tenders’ rates shall apply)

In this section, the information provided in Schedule of Unit Rates and Technical Schedule will be analyzed and points awarded as shown below.

	PARAMETER	MAXIMUM POINTS
(i)	Tender rates-----	30
(ii)	Technical Schedule - -----	<u>40</u>
TOTAL		<u>70</u>

The detailed scoring plan shall be as shown in table 2 below:

TABLE 2

Item	Description	Score	Max. score
i	<p>Tender rates (The average of tender sums of the bidders less PCs Sums and contingency shall be worked out. The deviation of bidders tender Sum from the average shall then be worked out as a percentage of the average and score allocated as follow:-)</p> <ul style="list-style-type: none"> ○ Deviation of between 0% to 5% ----- 30 ○ Deviation of between 5% to 10% ----- 25 ○ Deviation of between 10% to 15% -----20 ○ Deviation of between 15% to 20% -----15 ○ Deviation of between 20% to 25% ----- 10 ○ Deviation of between 25% to 30% ----- 5 ○ Deviation of above 30% ----- 2 		30
ii	<p>Technical schedule</p> <ul style="list-style-type: none"> ○ Relevant Manufacturer Brochures for items in the technical schedule with equipments to be supplied highlighted and meets specification (Where alternative are to supplied-----=----- 40 or ○ Completely filled Technical Schedule indicating Brand, Model/ Country of origin as per specification in the tender----- 40 ○ Relevant Manufacturer Brochures for items in the technical schedule with equipments to be supplied not highlighted but within range of those specified and meets specifications ----- 30 or ○ Completely filled Technical Schedule indicating items as specified in the tender but with about 75% of technical data left out -----30 ○ Relevant Manufacturer Brochures for less than 50% of items in the technical schedule with equipments to be supplied highlighted and meets specifications----- 20 or ○ About 50% of Technical Schedule filled indicating Brand, Model/Country of origin for the items considered as specified in the tender -----20 No technical data provided, either in form of brochures or filling of Technical Schedule. ----- 0 		40
TOTAL			70

For a bidder to be deemed technically responsive they must score 40 points and above based on the above scoring plan. For bidders in building and civil works they will be deemed technically responsive if they score 15 points out of 30 points. Any tenderer whose tender figure is deemed to be unreasonably too high or unreasonably too low shall not be included during the tabulation of the averages of the tender sum.

STAGE 3 - FINANCIAL EVALUATION

The evaluation shall be in two sections

1. Preliminary examinations and
2. Tender sum Comparisons

1. PRELIMINARY EXAMINATIONS

The preliminary examination in the Financial Evaluation shall be in accordance with Instruction to Tenderers.

The parameter to be considered under this section includes the following:

- a) Arithmetic errors

The bid shall be checked for arithmetic errors based on the rates and the total sums indicated in the bills of quantities.

- b) Confirmation shall be sought in writing from the tenderers whose tender sums will be determined to have a significant arithmetic error to their disadvantage, to confirm whether they stand by their tender sums. The error shall be treated as per **the Instructions to Tenderers**.

Non compliance with the above shall lead to **automatic disqualification from further evaluation**.

Discount if any shall be treated as an error in pursuant to the Instructions to Tenderers

2. TENDER SUM COMPARISONS

The evaluation team shall compare the prices offered by the tenderers and the financial scores (Fs) will be determined using the formulae bellow. The financial score will be allocated a maximum of 30%.

$$F_s = 30 \times F_m / F$$

Where F_s is the financial score, F_m is the lowest priced responsive financial bid and F is the price of the bid under consideration

CONCLUSION

COMBINATION OF TECHNICAL AND FINANCIAL SCORE

The evaluation team shall combine Technical and Financial Score as below:

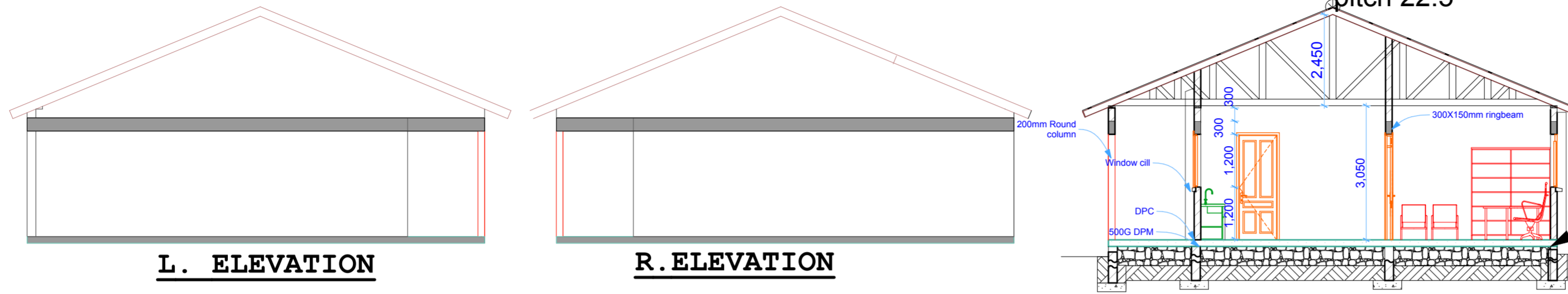
$$\text{Technical score (Ts) + Financial score (Fs) = 70\% + 30\%}$$

RECOMMENDATION

The combined technical and financial score shall be determined and the employer shall recommend for award of the **Tender** to the firm achieving the highest combined technical and financial scores.

NOTE: The technical score will range between 60 and 70 while that one for the financial will be between 20 and 30 depending on the project, to be decided by the client. But the combined total will remain at 100 points.

ridge cap on gci sheet on
75x50mm purlins on 100x50mm rafters and ties on
150x50mm tie beam on 100x50mm wall plate
pitch 22.5°



25MM CS SCREEDING ON
150MM THICK REINFORCED
WITH BRC A142 FLOOR SLAB ON
500 GAUGE POLYTHENE SHEET
ON 50MM MURRAM BLINDING
LAIDON 300MM HAR CORE

NOTES
- ALL DIMENSIONS ARE IN
MILLIMETRES UNLESS STATED
OTHERWISE

- WALLS SHALL BE BUILT OF BLOCKS
OF 150MM THICK JOINTS SHALL BE
10MM

- INTERNAL FINISH ON WALLS SHALL
BE 10 MM INTERNAL GAUGED LIME
PLASTER WITH FIRST GRADE
EMULSION FINISH

- FLOOR FINISH INDICATED IN THE
DRAWING IS PROVISIONAL AND SHALL
CONFIRMED ON SITE/ CLIENT

- LEVELS OF FOUNDATION TO BE
DECIDED ON SITE AFTER EXCAVATION
1200 MM EXISTING GROUND LEVEL

DOOR SCHEDULE

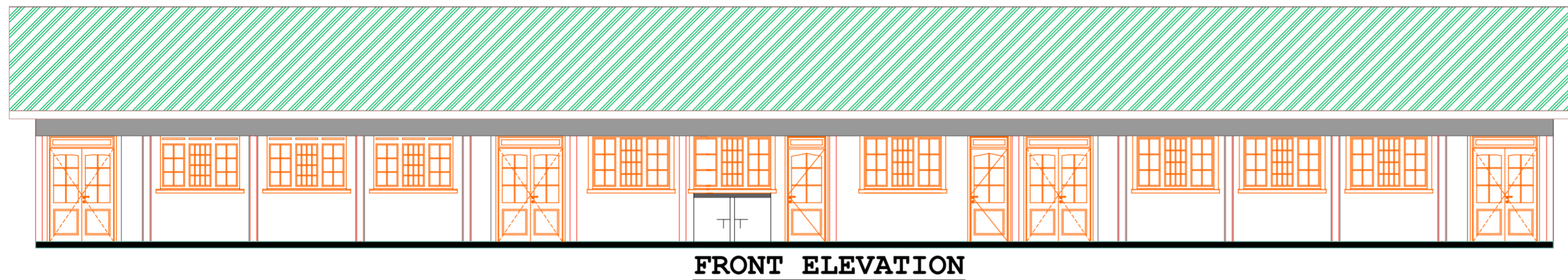
D1 STEEL DOUBLE LEAF DOOR
1500X2400- 4NR

D2 PANNEL DOOR 900X2400MM 5NR

D3 STEELL DOOR 900X2400M 2NR

WINDOW SCHEDULE

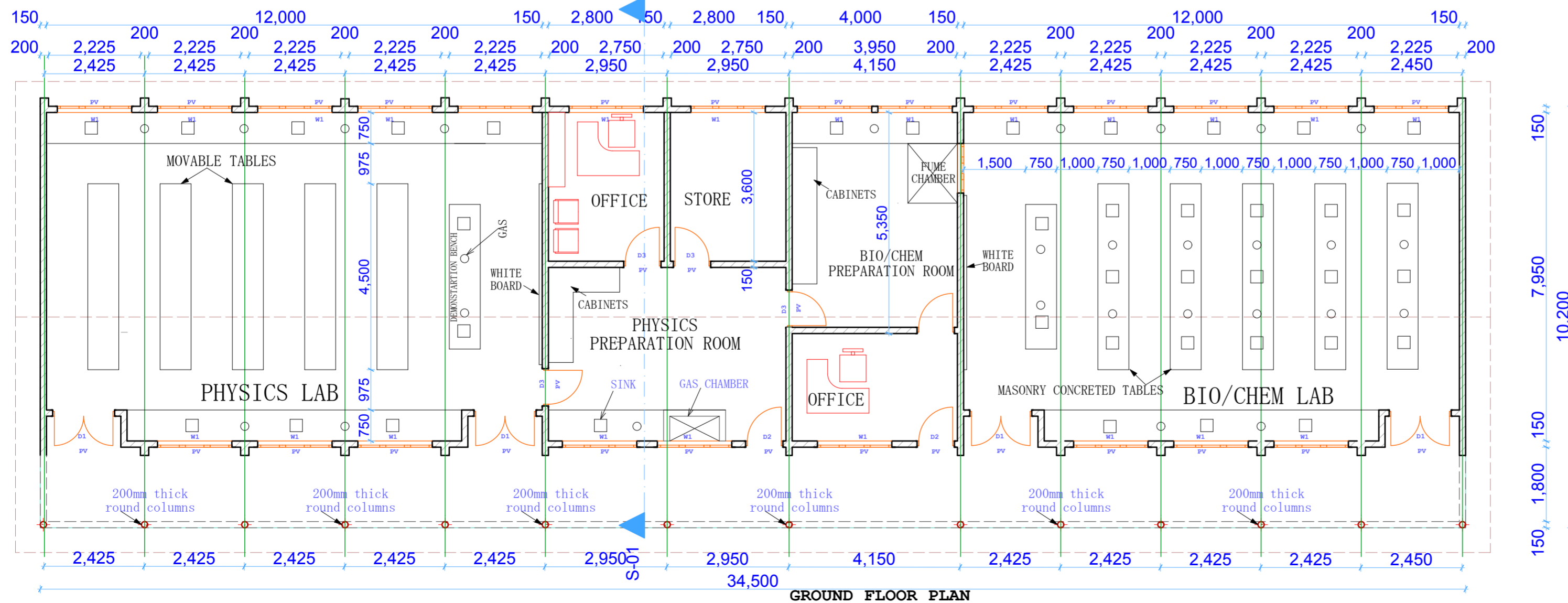
W1 STEEL CASED 1800X1200MM -20NR



FRONT ELEVATION



REAR ELEVATION



GROUND FLOOR PLAN

PROJECT

PROPOSED TWIN SCIENCE
LABORATORY

CLIENT

NAMARAMBI SECONDARY
SCHOOL P.O BO

DONOR

WEBUYE EAST NG-CDF
P.O BOX 404-50205
WEBUYE.

PROJECT

WORKING DRAWINGS
FLOOR PLAN,ELEVATIONS
LAYOUT

DRAWN BY IAN MADAGA

CHECKED BY

SCALE 1:100



ARCHITECTURAL
DEPT FOR THE
REPUBLIC OF
KENYA