

MACHAKOS UNIVERSITY

TENDER DOCUMENT

FOR

PROPOSED PEDESTRIAN GATE HOUSE FOR MACHAKOS UNIVERSITY

CLOSING DATE: 10TH JUNE 2020



REPUBLIC OF KENYA

MINISTRY OF TRANSPORT, INFRASTURCTURE, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR PUBLIC WORKS

PROPOSED CONSTRUCTION AND COMPLETION OF PEDESTRIAN GATE HOUSE FOR MACHAKOS UNIVERSITY

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REPUBLIC OF KENYA

PROPOSED CONSTRUCTION AND COMPLETION OF PEDESTRIAN GATE HOUSE FOR MACHAKOS UNIVERSITY

Bills of quantities Supplied as part of the Contract for the Proposed Construction and

Completion of Pedestrian Gate House for Machakos University

Issued by: -

County Works Officer

Ministry of Transport, Infrastructure, Housing and Urban Development

State Department of Public Works

P.O. Box 874 - 90100

Machakos.

undersigned refers to this Bills of Quantities and the Ministry of Roads and Public Works General Specification dated March, 1976 (together with any amendments issued thereto) shall be read and construed as part of the said document.

.....

.....

CONTRACTOR

VICE CHANCELLOR

MACHAKOS UNIVERSITY

Date:

Date:

SPECIAL NOTES

The Contractor is required to check the numbers of the pages of these Bills of Quantities and should he find any missing or in duplicate or figures indistinct he must inform the County Works Officer, Machakos at once and have the same rectified.

Should the Contractor be in doubt about the precise meaning of any item or figure for any reason whatsoever, he must inform the County Works Officer, Machakos in order that the correct meaning may be decided before the date for submission of tenders.

No liability will be admitted nor claim allowed in respect of errors in the Contractor's Tender due to mistakes in the Specifications which should have been rectified in the manner described above.

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INTRODUCTION

- 1.1 This standard tender document for procurement of works has been prepared for use by procuring entities in Kenya in the procurement of works (i.e. Buildings and associated Civil Engineering Works).
- 1.2 The following guidelines should be observed when using the document: -
 - (a) Specific details should be furnished in the Invitation to tender and in the special conditions of contract (where applicable). The tender document issued to tenderers should not have blank spaces or options.
 - (b) The instructions to tenderers and the General Conditions of Contract should remain unchanged. Any necessary amendments to these parts should be made through Appendix to instructions to tenderers and special conditions of contract respectively.

1.3

- (b) Information contained in the invitation to tender shall conform to the data and information in the tender documents to enable prospective tenderers to decide whether or not to participate in the tender and shall indicate any important tender requirements
- (c) The invitation to tender shall be as an advertisement in accordance with the regulations or a letter of invitation addressed to tenderers who have been prequalified following a request for prequalification.
- 1.4 The cover of the document shall be modified to include:-
 - I. Tender number.
 - II. Tender name.
 - III. Name of procuring entity.
 - IV. Delete name and address of PPOA.

SECTION I

INVITATION FOR TENDERS

TENDER REF. NO. MksU/OT/06B/2019/2020

Tender Name: **PROPOSED PEDESTRIAN GATE HOUSE FOR MACHAKOS UNIVERSITY**

The MACHAKOS UNIVERSITY invites sealed tenders from eligible candidates for Provision of Medical Insurance Cover.

Interested eligible candidates may obtain further information from and inspect the tender documents in the Procurement Office at MACHAKOS UNIVERSTY during normal office working hours.

A complete set of tender documents may be obtained by interested candidates upon payment of a non-refundable fee of Ksh.1,000.00 in cash or banker's cheque payable to MACHAKOS UNIVERSITY and paid in Machakos University Finance Office.

Prices quoted should be net inclusive of all taxes, and delivery costs, must be in Kenya Shillings and shall remain valid for 120 days from the closing date of the tender.

Completed tender documents are to be enclosed in plain sealed envelopes, marked **Tender No: MksU/OT/06B/2019/2020** and be deposited in the Tender Box at the Administration block at Reception or be addressed to;

The Vice Chancellor Machakos University P.O Box 136-90100 Machakos

So as to be received on or before 10^{th} JUNE 2020 at 10.00 a.m.

Tenders will be opened publicly in the Conference Room 11 immediately after the above stated closing date and time in the presence of the candidates or their representatives who choose to attend. Late bids will be returned unopened.

VICE CHANCELLOR

SECTION II

INSTRUCTIONS TO TENDERERS

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INSTRUCTIONS TO TENDERERS.

General/Eligibility/Qualifications/Joint venture/Cost of tendering

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.

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.

All tenderers shall provide in the Form of Tender and Qualification Information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.

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.

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:

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:

total monetary value of construction work performed for each of the last five years:

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; major items of construction equipment proposed to carry out the Contract and an undertaking that they will be available for the Contract.

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.

reports on the financial standing of the tenderer, such as profit and loss statements and auditor's reports for the past five years;

evidence of adequacy of working capital for this Contract (access to line(s) of credit and availability of other financial resources);

authority to seek references from the tenderer's bankers;

information regarding any litigation, current or during the last five years, in which the tenderer is involved, the parties concerned and disputed amount; and

proposals for subcontracting components of the Works amounting to more than 10 percent of the Contract Price.

Tenders submitted by a joint venture of two or more firms as partners shall comply with the following requirements, unless otherwise stated:

the tender shall include all the information listed in clause 1.5 above for each joint venture partner;

the tender shall be signed so as to be legally binding on all partners;

all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;

one of the partners will be nominated as being in charge, authorized to incur liabilities, and receive instructions for and on behalf of all partners of the joint venture; and

the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

To qualify for award of the Contract, tenderers shall meet the following minimum qualifying criteria;

annual volume of construction work of at least 2.5 times the estimated annual cashflow for the Contract; experience as main contractor in the construction of at least

two works of a nature and complexity equivalent to the Works over the last 10 years (to comply with this requirement, works cited should be at least 70 percent complete); proposals for the timely acquisition (own, lease, hire, etc.) of the essential equipment listed as required for the Works;

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

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.

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 1.7 (a) and (e); however, for a joint venture to qualify, each of its partners must meet at least 25 percent of minimum criteria 1.7 (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.

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.

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.

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.

The procuring entity's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.

The price to be changed for the tender document shall not exceed Kshs.1,000/=

The procuring entity shall allow the tenderer to review the tender document free of charge before purchase.

Tender Documents

The complete set of tender documents comprises the documents listed below and any addenda issued in accordance with Clause 2.4.

These Instructions to Tenderers Form of Tender and Qualification Information Conditions of Contract Appendix to Conditions of Contract Specifications Drawings Bills of Quantities Forms of Securities

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.

A prospective tenderer making an inquiry relating to the tender 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.

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.

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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 here below.

Preparation of Tenders

All documents relating to the tender and any correspondence shall be in English language.

The tender submitted by the tenderer shall comprise the following:

These Instructions to Tenderers, Form of Tender, Conditions of Contract, Appendix to Conditions of Contract and Specifications;

Tender Security;

Priced Bill of Quantities;

Qualification Information Form and Documents;

Alternative offers where invited; and

Any other materials required to be completed and submitted by the tenderers.

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.

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.

The unit rates and prices shall be in Kenya Shillings.

Tenders shall remain valid for a period of sixty (60) 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.

The tenderer shall furnish, as part of the tender, a Tender Security in the amount and form specified in the appendix to invitation to tenderers. This shall be in the amount not exceeding 2 percent of the tender price

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.

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 ".....".

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.

The Tender Security of the successful tenderer will be discharged when the tenderer has signed the Contract Agreement and furnished the required Performance Security.

The Tender Security may be forfeited

if the tenderer withdraws the tender after tender opening during the period of tender validity;

if the tenderer does not accept the correction of the tender price, pursuant to Clause 5.7;

in the case of a successful tenderer, if the tenderer fails within the specified time limit to

sign the Agreement, or

furnish the required Performance Security.

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.

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.

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.

Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.

The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.

The tender security shall be in the amount of 0.5 - 2 per cent of the tender price.

Submission of Tenders

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:

be addressed to the Employer at the address provided in the invitation to tender;

bear the name and identification number of the Contract as defined in the invitation to tender; and

provide a warning not to open before the specified time and date for tender opening.

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.

Any tender received after the deadline prescribed in clause 4.2 will be returned to the tenderer un-opened.

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.

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.

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.

Tender Opening and Evaluation

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.

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.

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.

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.

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.

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.

Tenders determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:

where there is a discrepancy between the amount in figures and the amount in words, the amount in words will prevail; and

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.

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.

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)

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.

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.

The Employer will evaluate and compare only the tenders determined to be substantially responsive in accordance with Clause 5.5.

In evaluating the tenders, the Employer will determine for each tender the evaluated tender price by adjusting the tender price as follows:

making any correction for errors pursuant to clause 5.7;

excluding provisional sums and the provision, if any, for contingencies in the Bill of Quantities, but including Dayworks where priced competitively.

making an appropriate adjustment for any other acceptable variations, deviations, or alternative offers submitted in accordance with clause 3.12; and

making appropriate adjustments to reflect discounts or other price modifications offered in accordance with clause 4.6

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.

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.

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.

Award of Contract

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.

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.

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. At the same time the other tenderers shall be informed that their tenders have not been successful.

The contract shall be formed on the parties signing the contract.

The Agreement will incorporate all agreements between the Employer and the successful tenderer. Within 14 days of receipt the successful tenderer will sign the Agreement and return it to the Employer.

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 amount and specified form

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.

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.

Preference where allowed in the evaluation of tenders shall not be allowed for contracts not exceeding one year (12 months)

The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.

The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.

Contract price variations shall not be allowed for contracts not exceeding one year (12 months)

Where contract price variation is allowed, the valuation shall not exceed 15% of the original contract price.

Price variation request shall be processed by the procuring entity within 30 days of receiving the request.

The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.

The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.

A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.

Corrupt and Fraudulent practices

The procuring entity requires that tenderers observe the highest standards of ethics during procurement process and execution of contracts. A tenderer shall sign a declaration that he has not and will not be involved in corrupt and fraudulent practices.

TENDER EVALUATION CRITERIA

Evaluation will be done in six stages as follows:-Determination of responsiveness Technical evaluation Financial evaluation Combination of technical and financial evaluation Recommendation for award.

STAGE 1. (TENDER RESPONSIVENESS)

In accordance with the requirements of the Instruction to Tenderers under Clause 5, only substantially responsive tenders will be subject to detailed evaluation. For purposes of Clauses 5, a responsive tender is one which conforms to all the terms, conditions and specifications of the tendering documents, without material deviation or reservation.

The mandatory conditions to be complied with are: -

- 1. Copy of registration/incorporation
- 2. Valid tax compliance certificate
- 3. Copy of CR12
- 4. Copy of registration with NCA6 and above (Building)
- 5. Form of tender (Properly filled, signed and stamped)
- 6. Bid security of 2% tender sum.
- 7. Confidential business questionnaire (Properly filled, signed and stamped)
- 8. Declaration of the firm is not debarred from participating in public procurement
- 9. NCA Registration of Plumbing and Electrical services or having personnel registered with ERC class 2

A company shall fulfill all the above conditions in order to proceed to technical evaluation Any company that does not fulfill any of the above conditions shall be disqualified from further evaluation at this stage.

STAGE 2. (TECHNICAL EVALUATION)

The technical analysis will be allocated 60% score The tenderer **MUST** show proof of equipment, plant & machinery, vehicles, similar works etc The criteria for technical analysis will be as follows:

TECHNICAL EVALUATION

Item		Criteria		Score	Max score
	Similar Works Ongoing (at least 50% complete) max. consideration, 3projects			per project	1
		below 5 Million KSh over 5 Million KSh		per project	26
b)	Complete projects max. 3 projects in the last 5years				2
		below 5 Million KSh over 5 Million KSh			39 15
2	Availability of equipment	Pick up	3 number more than 3		2 4
		Truck	3 number more than 3		34 5
		Other relevant	number number		1 3
			and over		55 14

3	Qualified personnel in relevant trade i.e Construction industry)			per person	
6	a) Directors of the company (any one (1) director	y Diploma Degree Masters degree			1 2 3
Ъ)	2no. Key personnel but of different specialty with ove 5years experience (Qs' Architects, Str/Civil eng's & Constr. Managers)	er	1 boards		$ \begin{array}{c} 1 \\ 23 \\ 2 \\ 2 \\ 4 \\ 4 \\ 13 \\ \end{array} $
Item		Criteria		Score	Max score
4	Financial status KES - Audited financial reports	Financial statement of 2016 Financial statement of 2017 Financial statement of 2018			1 1 1 1 1 1 1 1
		Net yearly operating profit	Profit Loss		1 0 8

Proposed Pedestrian Gate House for Machakos University

	Non-current Asset base	0-1m over 1-2m over 2m- 3m over3m-4m over 4m	0 1 2 3 4	1	
				4	
working capital (Cash at hand & Banks-signed &	equal to the cost of the project more than 2X the cost of the project		0 4 10	10	10
	Total score				60

All companies that get a total score of 40 and below (out of 60) will be disqualified from further evaluation and will not proceed to financial evaluation.

All companies that score 30 and above (out of 60) will proceed to financial evaluation.

STAGE 3. (FINANCIAL EVALUATION)

(I) MATERIAL DEVIATIONS, MARKET PRICES AND CONSISTENCY OF RATES

The bidder's prices shall be evaluated further by comparing them to the market prices. Total score of 40% shall be allocated to financial evaluation as follows: -

(a) Front loading for main elements (10 marks)

The elemental total shall be compared against the market price as per engineer's estimates where the elemental total does not exceed +10% of the elemental market price, scores will be allocated as follows: -

Preliminaries	4 mks
Preparatory Works	3 mks
Roofing works	3 mks

TOTAL

10 mks

(b) Market rates for main items. (20marks)

The unit rate shall be compared against the market rate. Where the unit rate lies within the margin of -10% and +10% of the market rate, scores will be allocated as follows:-

	TOTAL	20 mks
L	High level water tanks	2 mks
Κ	100x50mm Truss Rafters	1 mk
silk	emulsion	
j	Painting to plastered walls, columns and beams internally viny	l 2 mks
i	Urinal bowl as "TWYFORDCLINTON"	2 mks
Η	Porcelain ceramic tiles floor finish 600x600x10mm	2 mks
G	Wrot Mahogany internal timber door 150x50mm	1 mk
F	Steel casement windows size 300x1500mm high	2 mks
e	Reinforcement steel	2 mks
d	VRC Class (1;2;4/20-20mm aggregate)	2 mks
С	Walling 200mm thick machine cut stone	1 mk
b	9-Way SPN consumer control unit	1 mk
а	Decra roof tile	2 mks

TOTAL

(c) Consistency of Rates (10 marks)

The tenderer's rates shall be thoroughly evaluated for consistency or lack of consistency. Specific emphasis will be given to work items of similar nature occurring in different elements or bills of the priced bill of quantities. If there is consistency in the rates; scores will be allocated as follows: -

10 mks

i)	Walling 200mm thick Machine cut stones	3 mks
ii)	Institu concrete: reinforced (class 20/20)	2 mks
iii)	Plasterwork	3 mks
iv)	Deformed bars	2 mks
	TOTAL	

STAGE 4. (COMBINATION OF TECHNICAL AND FINANCIAL EVALUATION)

The scores for technical and financial analysis shall be combined and a total score for each tenderer will be determined as follows: - pass mark 70%

Bidder	Total Technical Score (60)	Total Financial Score (40)	Combined Score (100)
1			
2			
3			

STAGE 5. RECOMMENDATION FOR AWARD

The lowest evaluated bidder to be awarded the tender.

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SECTION III CONDITIONS OF CONTRACT

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CONDITIONS OF CONTRACT

Definitions

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.

Interpretation

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.

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).

The following documents shall constitute the Contract documents and shall be interpreted in the following order of priority;

Agreement, Letter of Acceptance,

Contractor's Tender,

Appendix to Conditions of Contract,

Conditions of Contract,

Specifications,

Drawings,

Bill of Quantities,

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

Language of the Contract and the law governing the Contract shall be English language and the Laws of Kenya respectively unless otherwise stated. **Project Manager's Decisions**

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

Delegation

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

Communications

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

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.

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.

Personnel

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.

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.

Safety and Temporary Works

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.

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.

The Contractor shall be responsible for the safety of all activities on the Site.

12. Discoveries

12.1 Anyth ing 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.

Work Program

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.

Possession of Site

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.

Access to Site

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.

Instructions

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

Extension or Acceleration of Completion Date

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.

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

Management Meetings

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.

Early Warning

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.

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.

Defects

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.

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.

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.

Bills Of Quantities

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.

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.

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.

Variations

All variations shall be included in updated programs produced by the Contractor.

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. 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.

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.

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.

The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

When the Program is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast.

Payment Certificates, Currency of Payments and Advance Payments

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.

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. 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.

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.

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.

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 Contractor 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:-

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.

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.

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

 X_1 = 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%.

 X_{11} = 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%.

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

Compensation Events

The following issues shall constitute Compensation Events:

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.

The Employer modifies the List of Other Contractors, etc., in a way that affects the Work of the Contractor under the Contract.

The Project Manager orders a delay or does not issue drawings, specifications or instructions required for execution of the Works on time.

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.

The Project Manager unreasonably does not approve a subcontract to be let.

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.

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.

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.

The effects on the Contractor of any of the Employer's risks.

The Project Manager unreasonably delays issuing a Certificate of Completion.

Other compensation events described in the Contract or determined by the Project Manager shall apply.

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.

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.

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.

Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the Appendix to Conditions of Contract.

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.

Price Adjustment

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.

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.

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;

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.

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.

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.

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.

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.

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.

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.

Retention

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.

Liquidated Damages

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. 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

Securities

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.

Day works

If applicable, the Day works 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.

All work to be paid for as Day works 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.

The Contractor shall be paid for Day works subject to obtaining signed Day works forms.

Liability and Insurance

From the Start Date until the Defects Correction Certificate has been issued, the following are the Employer's risks:

The risk of personal injury, death or loss of or damage to property (excluding the Works, Plant, Materials and Equipment), which are due to;

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

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.

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.

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 defect which existed on or before the Completion Date.

an event occurring before the Completion Date, which was not itself the Employer's risk

the activities of the Contractor on the Site after the Completion Date.

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;

loss of or damage to the Works, Plant, and

Materials; loss of or damage to Equipment;

loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract, and

personal injury or death.

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.

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.

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.

Completion and taking over

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.

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.

Termination

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;

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;

the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 30 days;

the Contractor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

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.

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; the Contractor does not maintain a security, which is required.

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.

Notwithstanding the above, the Employer may terminate the Contract for convenience.

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.

Payment Upon Termination

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.

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.

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.

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 therefore 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.

Release from Performance

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.

Corrupt gifts and payments of commission

The Contractor shall not;

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. 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.

Settlement Of Disputes

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;

Architectural Association of Kenya

Institute of Quantity Surveyors of Kenya Association of Consulting Engineers of Kenya

Chartered Institute of Arbitrators (Kenya Branch)

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.

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.

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.

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.

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:

The appointment of a replacement Project Manager upon the said person ceasing to act.

Whether or not the issue of an instruction by the Project Manager is empowered by these Conditions.

Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.

Any dispute or difference arising in respect of war risks or war damage.

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.

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.

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.

The award of such Arbitrator shall be final and binding upon the parties.

SECTION IV – APPENDIX TO CONDITIONS OF CONTRACT

THE EMPLOYER IS

Name: MACHAKOS UNIVERSITY

Address: **P.O. BOX 136 - 90100, MACHAKOS**

Name of Authorized Representative: **THE VICE CHANCELLOR, MACHAKOS UNIVERSITY**

Address: **P.O. BOX 136 - 90100, MACHAKOS** Telephone: 044-21604; 0736 247939; 0723 805829 Fax: 044-20353 Email: **Info@machakosuniversity.ac.ke**

The Project Manager is

Name: COUNTY WORKS OFFICER – MACHAKOS COUNTY Address: P.O. BOX 874 – 90100 MACHAKOS

Telephone: _____

Facsimile: _____

The name (and identification number) of the Contract is **PROPOSED PEDESTRIAN GATE HOUSE FOR MACHAKOS UNIVERSITY**

The Works consist of **CONSTRUCTION OF AND COMPLETION PEDESTRIAN** GATE HOUSE AS PER DRAWINGS, SPECIFICATIONS AND BILLS OF QUANTITIES

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

The following documents also form part of the Contract: **AS LISTED IN CAUSE 2.1 OF THE CONDITIONS OF CONTRACT** The Contractor shall submit a revised program for the Works within 14 days of delivery of the Letter of Acceptance.

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

The Site is located at **MACHAKOS UNIVERSITY COLLEGE; KONZA/MAKUENI ROAD, MACHAKOS COUNTY** and is defined in drawings

The Defects Liability period is **180 days.**

Other Contractors, utilities etc., to be engaged by the Employer on the Site Include those for the execution of;

1. PLUMBING AND DRAINAGE WORKS

2. ELECTRICAL WORKS

The minimum insurance covers shall be;

Contractor's All Risk Insurance

The following events shall also be Compensation Events:

NONE OTHER THAN AS IS DEFINED IN THE CONDITIONS OF CONTRACT

The period between Program updates is **14 days**.

The amount to be withheld for late submission of an updated Program is **FULL CERTIFICATE**

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. 50,000.00 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 **26 Weeks**

The rate of exchange for calculation of foreign currency payments is **SHALL NOT APPLY**

The schedule of basic rates used in pricing by the Contractor is as: **ISSUED BY THE JOINT BUILDING COUNCIL (KENYA) THIRTY DAYS BEFORE THE DATE OF SUBMISSION OF TENDERS**

Advance Payment **SHALL NOT** be granted.

Performance Bond shall be from an **APPROVED BANK AND INSURANCE**

The contractor shall allow for 3% Withholding Tax within the pricing rates. The 3% Withholding Tax shall be deducted directly from all payments due to the contractor and paid to KRA.

SECTION VIII – STANDARD FORMS

- (i) Form of Invitation for Tenders
- (ii) Form of Tender
- (iii) Letter of Acceptance
- (iv) Form of Agreement
- (v) Form of Tender Security
- (vi) Performance Bank Guarantee
- (vii) Bank Guarantee for Advance Payment
- (viii) Qualification Information
- (ix) Tender Questionnaire
- (x) Confidential Business Questionnaire
- (xi) Statement of Foreign Currency Requirement
- (xii) Details of Sub-Contractors

FORM OF INVITATION FOR TENDER

[date]	
To:	[name of Contractor] [address]
Dear Sirs:	
Reference:	[Contract Name]
You have been prequalified to tende	er for the above project.
We hereby invite you and other pre- execution and completion of the abo	qualified tenderers to submit a tender for the ove Contract.
A complete set of tender documents	s may be purchased by you from
[mailing address,	cable/telex/facsimile numbers].
Upon payment of a non-refundable	fee of Kshs
	number of copies of the same unt specified in the tendering documents, and
[address and loca	ation]
	<i>(time and date).</i> Tenders will be opened ence of tenderers' representatives who choose
Please confirm receipt of this letter telex.	immediately in writing by cable/facsimile or
Yours faithfully,	
	Authorised Signature
	Name and Title

FORM OF TENDER

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

_[Name of Contract]

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs._____[Amount in figures]Kenya Shillings_____

[Amount in words]

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.

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.

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.

We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this		da	y of	_20			
Signature		in the	capacity o	f			
duly autho	orized to	sign	tenders			behalf <i>Emplo</i>	of uerl
of				_[Address		1	5 1
Witness; Nan	ne				-		
Ado	dress						
Sig	nature						
Da	.te						

LETTER OF ACCEPTANCE [letterhead paper of the Employer]

_____[date]

То: __

[name of the Contractor]

[address of the Contractor]

Dear Sir,

You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract documents.

Authorized Signature

Name and Title of Signatory

Attachment : Agreement

FORM OF AGREEMENT

THIS AGREEMENT, made the	day of _	20
between		_of[or whose registered
office is situated at]		
(hereinafter called "the Employer") of the one	part AND	
· · · · · ·		_of[or whose registered
office is situated at]		
(hereinafter called "the Contractor") of the oth	er part.	

WHEREAS THE Employer is desirous that the Contractor executes

(name and identification number of Con	<i>tract</i>) (hereinafter called "the Works")
located at	_[Place/location of the Works]and the
Employer has accepted the tender subm	itted by the Contractor for the execution
and completion of such Works and the r	emedying of any defects therein for the
Contract Price of Kshs	[Amount in figures],Kenya
Shillings	[Amount in words].

NOW THIS AGREEMENT WITNESSETH as follows:

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.

The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.

Letter of Acceptance

Form of Tender

Conditions of Contract Part I

Conditions of Contract Part II and Appendix to Conditions of Contract

Specifications

Drawings

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.

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.

1. CLIENT'S NAMEADDRESS
SIGNATURE
DATE
2. WITNESS' NAME
ADDRESS
SIGNATURE
DATE
3. CONTRACTOR'S NAME
ADDRESSSIGNATURE
DATE
4. WITNESS' NAME
ADDRESS
SIGNATURE
DATE

FORM OF TENDER SECURITY

THE CONDITIONS of this obligation are:

If after tender opening the tenderer withdraws his tender during the period of tender validity specified in the instructions to tenderers Or

If the tenderer, having been notified of the acceptance of his tender by the Employer during the period of tender validity:

fails or refuses to execute the form of Agreement in accordance with the Instructions to Tenderers, if required; or

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	

BANK GUARANTEE FOR ADVANCE PAYMENT

 To:
 [name of Employer]
 (Date)

 _____[address of Employer]
 _____(Date)

Gentlemen,

Ref:

[name of Contract]

We, ______[bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _______[name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding Kshs______[amount of Guarantee in figures] Kenya Shillings _______[amount of Guarantee in words], such amount to be reduced periodically by the amounts

Guarantee in words], such amount to be reduced periodically by the amounts recovered by you from the proceeds of the Contract.

We further agree that no change or addition to 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 _____ [name of Employer] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

No drawing may be made by you under this guarantee until we have received notice in writing from you that an advance payment of the amount listed above has been paid to the Contractor pursuant to the Contract. This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until

_______(name of Employer) receives full payment of the same amount from the Contract.

Yours faithfully,

Signature a	Signature and Seal		
Name of th	e Bank or financial institution		
Address _			
Date			
Witness:	Name:		
	Address:		
	Signature:		
	Date:		

QUALIFICATION INFORMATION

Individual Tenderers or Individual Members of Joint Ventures

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 _____

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

Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below.

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

(etc.)	 	

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

Position	Name	Years of experience (general)	Years of experience in proposed position
Project Manager			
		<u> </u>	<u> </u>
(etc.)			

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

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.

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

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

Proposed program (work method and schedule) for the whole of the Works.

Joint Ventures

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

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

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

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

all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;

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

the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

TENDER QUESTIONNAIRE

Please fill in block letters.	
Full names of tenderer	
Full address of tenderer to which tender correspondence is an agent has been appointed below)	to be sent (unless
Telephone number (s) of tenderer	
Telex address of tenderer	
Name of tenderer's representative to be contacted on matter the tender period	rs of the tender during
Details of tenderer's nominated agent (if any) to receive ten essential if the tenderer does not have his registered addres address, telephone, telex)	
Signature of Ten	derer
Make copy and deliver to:(Name of Em	ployer)

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
Nationality
*Citizenship details
Part 2 (b) – Partnership
Give details of partners as follows:
Name in full Nationality Citizenship Details Shares

2..... 3.....

Part 2(c) – Registered Company: Private or public..... State the nominal and issued capital of the Company-Nominal Kshs..... Issued Kshs..... Give details of all directors as follows: Name in full . Nationality. Citizenship Details*. Shares. 1. 2. 3.

4.

Part 2(d) – Interest in the Firm:

Is there any person / persons in(*Name of Employer*) who has interest in this firm? Yes/No......(*Delete as necessary*)

I certify that the information given above is correct.

•••••		
(Title)	(Signature)	(Date)

Attach proof of citizenship

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 s	ublet:
[i) Full name of Sub-cor and address of head office:	ntractor
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:	
Sub-contractor's experience of similar works carried out in the last 3 years with	
contract value:	
Signature of Tenderer)	Date
[Signature of reflucien]	Dail

LETTER OF NOTIFICATION OF AWARD

Address of Procuring Entity

То:_____

RE: Tender No._____

Tender Name_____

This is to notify that the contract/s stated below under the above mentioned tender have been awarded to you.

Please acknowledge receipt of this letter of notification signifying your acceptance.

The contract/contracts shall be signed by the parties within 30 days of the date of this letter but not earlier than 14 days from the date of the letter.

You may contact the officer(s) whose particulars appear below on the subject matter of this letter of notification of award.

(FULL PARTICULARS)_____

SIGNED FOR ACCOUNTING OFFICER

Proposed Pedestrian Gate House for Machakos University

PRELIMINARIES PARTICULAR PRELIMINARIES

Item	DESCRIPTION	Kshs.	Cts
A	AMENDMENTS TO TENDERING INSTRUCTIONS		
	a) Clause 3.6 of the Instructions to Tenderers has been amended to read; "Tenders shall remain valid for a period of One Hundred and Twenty (120) Days from the date of tender opening", and not ninety days. All tenderers are advised to note this amendment when filling the form of tender.		
	b) Clause 3.8 of the Instructions to Tenderers will hence be qualified and interpreted to mean; "Bid Bond/ Tender Security, which must be from an established bank , shall remain valid for a period of One Hundred and Fifty (150) days from the date of Tender Opening", i.e., it is still Thirty (30) days beyond the Tender Validity Period.		
В	PRICING ITEMS OF PRELIMINARIES		
	Prices SHALL BE INSERTED against items of "preliminaries" in the tenderer's priced Bills of Quantities.		
	Please note that failure to price any item of general particular preliminaries will be construed to mean that the tenderer wishes to provide for that item free of charge.		
	VALUE ADDED TAX & WITHHOLDING TAX		
	The contractor shall allow for addition of 16% Value Added Tax (V.A.T.) within the rates of these Bills of Quantities. Any omission in respect thereof shall be treated and corrected as an arithmetic error as per clause 5.7 of the instructions to Tenderers. The Contractor shall also allow for 3% Withholding Tax which should be included within the pricing rates		
	Please note that from every Interim and Final Payment 3% Withholding Tax shall be deducted and paid directly to the K.R.A. FIRM PRICE CONTRACT		
	This is a firm price contract and the Contractor must allow in his tender rates for any increase in the cost of labour and/ or materials during the currency of the contract.		
D			
	Carried to Collection		

Item	DESCRIPTION	Kshs.	Cts
Α	SCOPE OF THE CONTRACT		
	The works to be carried out under this contract comprise Construction and completion of Pedestrian Gate House for Machakos University including associated Electrical and mechanical works.		
B	DESCRIPTION OF THE WORKS		
	Construction and completion of Pedestrian Gate House for Machakos University		
С	FLOOR AREA		
	The total gross approximate floor area is 135 square metres . The total gross floor area is given without any warranty but for guidance only.		
D	MEASUREMENTS		
	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 document shall immediately be referred to the Project Manager.		
Е	LOCATION OF SITE		
	The site for works is located within Machakos University In Machakos Town along Makueni Road.		
	The tenderer shall be deemed to have visited the site and familiarized himself with all site conditions prior to submission of tenders.		
	No claims arising from the tenderers failure to do so will be entertained.		

Item	DESCRIPTION	Kshs.	Cts
Α	EXISTING BUILDING SERVICES		
	Special precautions shall be required throughout the contract period to avoid damage to the existing cables, drains and other services.		
	The Contractor shall allow for making good any damage arising from his actions during execution of this contract at his own expense.		
B	GENERAL		
	The Contractor is referred to General Specifications for Building Works – 1976 Edition Pages B1 – B2 and must allow for all costs in complying with these clauses.		
C	CONTRACT COMPLETION PERIOD		
	The contract completion period in accordance with condition 31 of the conditions of contract must be strictly adhered to.		
	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.		
	In all such cases, the Contractor shall accelerate his rate of performance, production and progress by all means such as additional labour, plant, e.t.c., and working overtime all at his cost.		
D	WORKING CONDITIONS		
	The Contractor shall allow in his rates for any interference that he may encounter in the course of execution of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed.		
	Carried to Collection		

Item	DESCRIPTION	Kshs.	Cts
A	SIGN BOARD		
	Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.		
B	LABOUR CAMPS		
	The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.		
C	MATERIALS FROM DEMOLITIONS		
	Any materials arising from demolitions and not re-used shall become the property of the government. The Contractor shall allow in his rates for the cost of assembling and keeping them in the Ministry of Works, Eldoret East premises.		
	PRICING RATES		
D	The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing all to comply with the said Conditions of Contract.		
	Carried to Collection		

Item	DESCRIPTION		Kshs.	Cts
	PARTICULARS OF INSERTIONS	<u>GREEMENT</u>		
	The following are the insertions to be made Contract Agreement: -	in the appendix to the		
A	Period of Final Measurement W	7ithin 3 Months From Practical completion		
B	Defects Liability Period	6 Months from practical completion		
C	Date for Possession	To be agreed with the Project Manager		
D	Date for Completion	26 Weeks from date of Possession		
1	Liquidated and Ascertained or part thereof	At the rate of Kshs 50,000.00 per week		
	Prime cost sums for which the The Contractor desires to tender			
н	Period of Interim Certificates	Monthly		
IJ	Period of Honouring Certificates	30 days		
	Percentage of Certified Value Retained	10%		
	Bonds Insurance Companies	Shall be from Approved Banks and		
	Carried to Collection			
	Carried to Collection			

Item	DESCRIPTION	Kshs.	Cts
	COLLECTION		
	Brought forward from page PP/1		
	Brought forward from page PP/2		
	Brought forward from page PP/3		
	Brought forward from page PP/4		
	Brought forward from page PP/5		
	PARTICULAR PRELIMINARIES CARRIED TO BILL No.1 SUMMARY		

ITEM DESCRIPTION KSHS CTS PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES A. Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification. 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. B. **ABBREVIATIONS** Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-C.M. Shall mean cubic metre *S.M.* Shall mean square metre *L.M.* Shall mean linear metre MM Shall mean Millimetre Kg. Shall mean Kilogramme No. Shall mean Number Prs. Shall mean Pairs **B.S.** Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England. Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs. Shall mean measured m.s. Carried to collection

GENERAL PRELIMINARIES

ITEM	DESCRIPTION	KSHSCTS	
А.	EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT <i>Attendance</i> ; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-		
	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.		
	Fix Only:-		
	"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.		
В.	EMPLOYER		
	The "Employer" is: The Principal Secretary, Ministry of Education, Science and Technology. The term "Employer" and "Government" wherever used in the contract document shall be synonymous		
	PROJECT MANAGER		
C. D.	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 authorised to represent him on behalf of the Government		
	ARCHITECT		
E.	The term "Architect" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Ministry of Transport, Infrastructure, Housing and Urban Devt, State Department of Public Works P.O. Box 874 MACHAKOS		
	QUANTITY SURVEYOR		I
	The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Ministry of Transport, Infrastructure, Housing and Urban Devt, State Department of Public Works P.O. Box 874 Machakos		
	Carried to collection		

ITEM	DESCRIPTION	KSHS	CTS
А.	ELECTRICAL ENGINEER		
	The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above unless otherwise notified is Ministry of Transport, Infrastructure, Housing and		
B.	Urban Devt, State Department of Public Works P.O. Box 874 MACHAKOS MECHANICAL ENGINEER		
	The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above whose address Unless otherwise notified is Ministry of Transport, Infrastructure, Housing and Urban Devt, State Department of Public Works P.O. Box 874 MACHAKOS STRUCTURAL ENGINEER		
1	he term "Structural Engineer" shall be deemed to mean "The P.M." as defined above unless otherwise notified is Ministry of Transport, Infrastructure, Housing and Urban Devt, State Department of Public Works P.O. Box 874 MACHAKOS		
	FORM OF CONTRACT		
	The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works(2006 Edition) included herein		
E.	The Conditions of Contract are also included herein		
	Conditions of Contract		
	These are numbered from 1 to 38 as set out in pages 18 to 38 of these tender documents. 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		
	BOND.		
	The Contractor shall find and submit on the Form of Tender and approved bank and who will be willing to be bound the Government in and 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.		
	Carried to collection		

ITEM	DESCRIPTION	кsнs	CTS
А.	PLANT, TOOLS AND VEHICLES		
	The Contractor shall find and submit on the Form of Tender and approved bank and who will be willing to be bound the Government in and 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.		
	TRANSPORT.		
B.			
	Allow for transport of workmen, Ministry of works supervision personnel, materials, etc to and from the site at such hours and by such routes as may be permitted by the compe authorities.		
C.	MATERIALS AND WORKMANSHIP.		
	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.		
D.	SIGN FOR MATERIALS SUPPLIED.		
	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		
E.	STORAGE OF MATERIALS		
	The Contractor shall provide at his own risk and cost where 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.		
	Carried to collection		
I		I	

ITEM	DESCRIPTION	KSHSCTS	
А.	SAMPLES		
	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 State Department of Public Works.		
	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.		
B.	GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.		
	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 workpeople.		
	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		
C.	entertained.		
	SECURITY OF WORKS ETC.		
	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.		
	Carried to collection		

ITEM	DESCRIPTION	KSHS C	TS
А.	PUBLIC AND PRIVATE ROADS.		
	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		
	EXISTING PROPERTY.		
В.	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		
	VISIT SITE AND EXAMINE DRAWINGS.		
C.	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.		
	ACCESS TO SITE AND TEMPORARY ROADS.		
D.	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		
	AREA TO BE OCCUPIED BY THE CONTRACTOR		
E.	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		
	- Carried to collection		

ITEM	DESCRIPTION	KSHSCTS	
A.	OFFICE ETC. FOR THE PROJECT MANAGER		
А. В.	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.		
	WATER AND ELECTRICITY SUPPLY FOR THE WORKS		
	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		
C.	augmenting this supply at his own cost. Nominated Subcontractors 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.		
	SANITATION OF THE WORKS		
D.	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		
	SUPERVISION AND WORKING HOURS		
E.	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.		
	PROVISIONAL SUMS.		
	Carried to collection		

ITEM	DESCRIPTION	KSHS	CTS
А.	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.		
В.	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.		
C.	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.		
	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 as if the work were executed by a Nominated Sub-Contractor.		
	- Carried to collection		

ITEM	DESCRIPTION	KSHS	CTS
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. 13of 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.		
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".		
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.		
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 PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.		
	Carried to collection		

ITEM	DESCRIPTION	KSHS	CTS
А.	INSURANCE		
	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.		
В.	PROVISIONAL WORK		
	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		
	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.		
C.	ALTERATIONS TO BILLS, PRICING, ETC.		
	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.		
D.	BLASTING OPERATIONS		
	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 <u>go</u> verning the use and storage of explosives.		
	Carried to collection		

ITEM	DESCRIPTION	KSHS	CTS
А.	MATERIALS ARISING FROM EXCAVATIONS		
В.	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.		
В.	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.		
	REMOVAL OF RUBBISH ETC.		
с.	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.		
	WORKS TO BE DELIVERED UP CLEAN		
D.	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		
	FIRM PRICE CONTRACT		
	Unless otherwise specifically stated in the Particular Preliminaries this is a firm price contract and the Contractor must allow in his tender rates for any increase in the cost of labour and/or materials during the currency of the contract.		
	- Carried to collection		

TEM	DESCRIPTION	KSHS	CTS
A.	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.		
B.	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.		
C.	MATERIALS ON SITE		
	All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.		
D.	HOARDING		
	The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100×50 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.		
Е.	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.		
F.	COPYRIGHT		
	The copyright of these documents is vested in the Chief Quantity Surveyor, State Department of Public Works . No part of this document may be reproduced in any form or by any means without their prior permission.		
	Carried to Collection		

ITEM	DESCRIPTION	KSHS	CTS
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	Brought Forward From Page GP/ 1		
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	Brought Forward From Page GP/ 12		
	OR GENERAL PRELIMINARIES CARRIED TO BILL No. 1 SUMMARY		
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ITEM	DESCRIPTION	Kshs	Cts
	SPECIAL PRELIMINARIES		
	CONSTRUCTION LEVY		
A	The Contractor's attention is drawn to Legal Notice No. 74 of		
	6 th June, 2014, which requires payment to the National Construction Authority by the owner of a construction at the rate of 0.5% of the		
	contract sum of any construction project above five million shillings.		
	Special Preliminaries carried forward to Bill No. 1		

ITEM	DESCRIPTION	AMOUNT
	SUMMARY:	
	PARTICULAR PRELIMINARIES (PAGE PP/ 6)	
	GENERAL PRELIMINARIES (PAGE GP/ 13)	
	SPECIAL PRELIMINARIES (PAGE SP/ 1)	
	TOTAL FOR PRELIMINARIES CARRIED FORWARD TO GRAND SUMMARY	

SPECIFICATIONS AND PRICING NOTES

The Contractor should read carefully the following specification for workmanship prepared in accordance with standard specifications for building works 1976 Edition prepared by the Ministry of Public Works.

GENERAL ITEMS

Materials Generally

A.1 All materials used on the works shall be new and of the qualities and kinds specified herein and equal to approved samples. Deliveries shall be made sufficiently I advance to enable samples to be taken and tested if required. No materials shall be used until approved and all materials which are not approved of which are damaged, contaminated or have deteriorated in any way or do not comply in any way with the requirements of this specification shall be rejected and shall be immediately removed from the site at the contractor's expense.

A.2 Materials for which there is a Kenya Bureau of Standard specification

All materials used in the works for which a Kenya Bureau of Standards Specification has been published shall conform with the latest edition thereof in every way. The Architect reserved the right to demand that the contractor shall obtain his own expense a certificate in respect of any materials to state that is in accordance with the Kenya Bureau of Standards Specification.

A.3 Materials for which there is no Kenya Bureau of Standards specification

All materials used in the works for which no Kenya Bureau of Standard Specification has been published shall conform with the British Standards specification for such materials. If there are no published standards as specified for any materials the quality of such materials shall be generally of a standard equal to those for which there is a Kenya Bureau of Standards or British Standard specification.

EXCAVATION AND EARTHWORKS

B.1 Site Clearance

Site clearance shall include the cutting down of all trees, stumps, bushes, vegetation and rubbish, burning the debris arising in approved locations and carting remaining materials to a tip provided by the contractor.

B.2 Nature of the soil

The contractor is advised to visit the site and ascertain the nature of the ground to be excavated and he shall price accordingly and not claim will be allowed for want of knowledge in this respect.

Rates for excavation shall include for excavation in soil, earth, black cotton, sand soil, tuff, soft rock, boulders or whatever other subsoil is encountered except hard rock as defined below.

B.3 Foundation Excavations

(a) The foundation trenches and column bases shall be excavated to the widths and depths of the concrete foundations shown on the drawings or to such widths as the Engineer may instruct after examination of the excavations. Quantities of all excavations shall be measured and valued by Quantity Surveyor and any difference between such measurements and the measurements herein given shall be dealt with as a variation to the contract.

If however, the contractor excavated to any greater depths than shown in the drawings or as instructed by the Engineer, then he shall at his own expenses fill in such extra depth of excavation with concrete as specified for the foundations to the satisfaction of the Engineer. The contractor shall not be paid for the cost of any excavation executed deeper or wider than shown on the drawings or instructed by the Engineer nor the cost of back filling such excavation or disposing of surplus.

B.4 Surplus Soil Disposal

Excavated materials not required for subsequent refilling shall be removed to areas off site which shall be approved by the Architect.

B.5 **Top Soil for Spreading**

Where required in the Bills of Quantities, top soil required for subsequent spreading over finished works shall be especially selected and shall be dumped in special heaps as indicated by the Architect. Such top soil shall be reasonably free from vegetation to the satisfaction of the Architect and shall be compacted as little as possible in the heaps.

B.6 Filling under surface Beds in Buildings i) Murram Filling

Murram filling as base course shall be from an approved source and the highest quality. It shall be laid in layers not less than 150mm thick and not greater than 230mm thick prior to compaction. Water will be applied to O.M.O. and each layer will be thoroughly compacted by at least 8 passes of a 10 tonne smooth wheeled roller or a 2 tonne vibrating roller until all movement ceases and 100% C.R. is obtained.

i) Hardcore filling

Hardcore filling shall be crushed rock, broken concrete or other approved hard granular materials broken to pass not greater than a 150mm ring or to be 75% of the finished thickness of the layers being compacted whichever is the less and graded so that it can be easily and thoroughly compacted by rolling. The filling is to be laid in layers each of consolidated thickness not exceeding 230mm.

B.7 Anti-termite treatment

Where described the top surface of filling shall be treated with Gladiator T.C. Pesticides to be supplied and applied by Retokil Ltd. P.O. Box 44360, Nairobi or other equal and approved firm strictly in accordance with the satisfaction of the Architect. The Contractor must destroy any termite nests found within the perimeter of the building and within 20 metres from the building externally and take out and destroy queens, impregnate holes and tunnels with approved insecticide and backfill with hard material, well rammed and consolidated. The specialist shall be required to issue a 10 year guarantee to the Employer.

B.8 **Polythene sheeting**

Polythene sheeting shall be produced by an approved manufacturer Joints in sheeting shall be treble folded with a 150mm fold and taped at 300mm intervals with 50mm wide back plastic adhesive tapes. The sheeting shall not stretch but shall be laid with sufficient wrinkles to permit shrinkage upto 15%.

The contractor shall ensure that the membrane is not pieced buying laying and concreting.

B.9 **Existing services**

Before commencing works, the contractor shall at his own expenses ascertain in writing from the relevant Local Authorities and all other Public bodies, companies and persons who may be affected, the position and depths of their respective ducts, cables, mains or pipes and appurtenance. He shall thereupon search for and locate such services.

Active existing services shall be adequately protected from damage or relocated as directed by the Architect. Inactive services shall be removed or sealed off in accordance with the direction of the Architect.

B.10 **Protection**

The contractor shall protect all graded and filled areas from the actions of the elements. Any settlement or washing away that occurs prior to acceptance of

the works shall be repaired and graded re-established to the required elevations and slopes.

CONCRETE WORKS

C.1 Codes of Practice

All workmanship, materials, tests and performances in connection with reinforced concrete shall be in conformity with the latest edition of the British Standard for concrete works (B.S B110 parts 1 & 2, B.S. 8004, B.S. 8007) and any other approved local and internal standards. Where inconsistence exists between these preambles and these Standards, the Contractor shall notify the Engineer in good time for his Clarification as to which of the two implications on the contract.

C.2 Supervision

A competent person approved by the Engineer shall be employed by the Contractor whose duty will be to supervise all stages in the preparation and placing of the concrete. All cubes shall be made and site tests carried out under his direct supervision on consultation with the Engineer.

C.3 Cement

Cement unless otherwise specified shall be ordinary Portland Cement of a brand and source approved by the Engineer and shall comply with the requirements of K.S.02.21. A Manufacturer's certificate of test in accordance with K.S.02-21 shall be supplied for each consignment delivered to the site.

C.4 Aggregate

Aggregate shall conform with the requirement K.S.02-95 and all the proposed sources, types and grading test results of all aggregate are to be approved in all respects by the Engineer before work commences.

If in the opinion of the Engineer the aggregates meets with the above requirements but is dirty or adulterated in any manner it shall be screed and/or washed with clean water at the contractor's expenses.

Aggregates shall be delivered to the site in their prescribed sizes or gradings and shall be stock-piled on paved areas to boarded platforms in separate units to avoid intermixing. On no account shall premixed cores aggregates be brought to the patching plant. On no account shall aggregates be stockpiled on the ground.

C.5 Water

The water used for mixing concrete shall be from an approved source, clean, fresh and free from harmful matter and comply with the requirements of B.S. 3148

C. 6 Quality Control at Works stage

Once the concrete mix is accepted from preliminary to works stage, the principal basis of control shall be analysis of the cube test results at 28 days.

C.7 Cement

The Quantity of cement shall be measured by weight. Where delivered in bags, each batch of concrete is to contain one or more bags of cement in accordance with the proportions specified. From non-structural concrete, volume batching may be used as indicated below: Class of concrete

Nominal mix by volume	15 1:3:6	10 1:4:8
Cubic metres of fine aggregate Per 50Kg bag of cement	0.12	0.16
Cubic metres of coarse aggregate Per 50Kg bag of cement	0.24	0.32
Max. size of coarse aggregate *or 20mm for blinding concrete where descri		* 40mm*

Where batching is by volume, approved gauge boxes of such a size as will give the correct proportions shall be used and full account shall be taken of bulking due to high moisture content.

C.8 **Construction Joints**

Construction joints shall be permitted only at the positions predetermined on the drawings or as instructed on the site by the Engineer. In general they shall be located at points of minimum shear, viz, vertical at, or near micspans of slabs, ribs and deems.

C.9 Faulty Concrete

Any concrete which fails to comply with these preambles or which shows signs or setting before it is placed shall be taken out of and removed from the site, where concrete is found to be defective after it has set the concrete shall be cut out and replaced in accordance with the Engineers instructions. On no account shall any faulty, honeycombed, or otherwise defective concrete be repaired or patched until the Engineer has made an inspection and issued instructions for the repair.

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C.10 Steel reinforcement

The steel reinforcement shall comply with the latest requirements of the following British Standards:

Hot rolled MS for the Reinforcement of concrete	KS 02-22
Hot rolled MS for the Reinforcement of concrete	KS 4449
Cold worked H.Y steel for the Reinforcement of concrete	BS 4461
Hard drawn steel wire	BS 4482

C.11 Fabric reinforcement

Fabric reinforcement shall be electrically cross welded steel wire mesh reinforcement to B.S. 4483 and of the size and weight specified and made of wire to B.S. 4482.

C.12 Fixing steel Reinforcement

Reinforcement shall be accurately bent to the shapes and dimensions shown on the drawings and Schedules and in accordance with B.S. 4466 and B.S. 8110. Reinforcement must be cut and bent cold and no welded joints will be permitted unless to detailed or directed by the Engineer.

C.13 Formwork

The method and system of formwork which the Contractor proposed to use shall be approved by the Engineer before constriction commences. Formwork shall be substantially and rigidly constructed of timber, steel, plastic, precast concrete or other approved material.

All timber formwork shall be good, sound, clean, sawn, well-seasoned timber free from warps and loose knots and of scantlings sufficiently strong for their purpose.

WALLING

MATERIALS

D.1 Cement

Cement used for making mortar shall be as described in concrete.

D.2 Lime

The lime for making mortar shall be obtained from an approved source and shall comply with BS 8900 Class A for non-hydraulic lime. The lime to be run to putty in an approved lined put or container. The water to be first rum into the pit or container and the lime to be added until it is completely submerged, stirred vigorously until all lumps are disintegrated and shall be kept constantly covered with water and regularly stirred for at least four weeks. The resulting milk-lime then to be run through a fine sieve and rum into a pit or other container and kept clean and moist for not less than two weeks before being used in the works.

D.3 Sand

Sand used for making mortar shall be clean, well graded siliceous sand of good sharp hard quality equal to samples which shall be deposited with and approved by the Architect. It shall be free from lumps of stone, earth, loam, dust, salt, organic matter and other deleterious substances, passed through a fine sieve and washed with clean water is so directed by the Architect.

D.4 Water

Shall be as described in concrete work.

D.5 Stone

All stones shall comply with the requirements of CP 121.202 for masonry and rubble walls respectively except where amended or extended by the following clauses.

D.6 **Reinforced Walls**

Steel reinforcing bars in walls shall be carefully placed and spacers used to ensure that a minimum of 20mm cover is given to the reinforcement unless otherwise specified.

Horizontal reinforcement in mortar joints shall be laid such that the reinforcement is not in contact with the blocks or stone.

D.7 Wall Ties

Wall ties shall be provided to connect walls to steel or concrete columns and beams to connect two unbounded leaves of wall.

Wall ties shall be provided at 450mm centres both vertically and 900mm centres horizontally and shall be staggered when used to connect two leaves of unbounded wall. Wall ties shall be embedded into each material by a minimum of 50mm.

D.8 Fair Face

All concrete and hollow blockwork described as finished with a fair face is to be built to a true and even face with the joints finished as specified hereinafter.

D.9 **Pointing**

Pointing of walls shall be prepared for pointing by raking out all loose or fri9able material to a minimum of 15mm to form a square recess. The joints shall then be wetted and new mortar shall be forced into the joints and finished as directed.

GLAZING

MATERIALS

E.I General

Glass used in glazing and for mirrors shall be best quality clear glass free from visibled defects so that to afford uninterrupted vision or reflection as appropriate and without obvious distortion.

E.2 Standards

Glass for glazing and mirrors shall be approved manufacture and is to comply with B.S. 952 in all respected free from flaws, bubbies, specks and other imperfections.

E.3 Clear Sheet Glass etc

The clear sheet glass shall be ordinary glazing (OG) quality.

E.5 **Obscured Glass**

To be of type described and as approved by the Architect.

E.6 **Putty**

The putty for glazing to wood sashes is to be linseed oil putty as B.S. 644.

E.7 Workmanship

Glazing of all types in all location shall be carefully executed by artisans skilled in this type of work and in conformance with the recommendations of CP 152. Glazing shall be carefully fitted so that it is not

subject to pressure and stresses imposed by being an overtight fit within framing.

METAL WORK

F.1 Generally

All materials shall be the best of their respective kinds free from defects and all work is to be carried out in the most workmanlike manner and strictly as directed by the Architect. The materials in all stages of transportation, handling and stacking shall be kept clean and prevented from injury by breaking, bending or distortion and weather action.

F.2 Mild Steel

Mild steel shall comply with B.S. 15

F.3 Hollow Section Tubing

Square and rectangular hollow section tubing shall be hot rolled mild steel in accordance with Grade 43C of B.S. 4360

F.4 **Bolts, Nuts and Washers**

These shall be fabricated from materials which comply with B.S. 15 and manufactured item shall comply with the appropriate B.S

F.5 Galvanized Sheet Steel

To be No. 24 S.W.G. of approved manufacture to B.S. 2989 of quality mild steel sheets cold rolled close annealed patent flattened and hot dip galvanized.

F.6 Stainless steel

Stainless steel tube be Austenic Steel B.S. comparable to B.S. 1449 Type 36 S 16

F.7 Steel Grills

Steel Grills shall be manufactured from section conforming with B.S.990 of heavy duty sections of the metric W20 range of approved manufacture and design approved by the Architect.

After manufacture and before delivery to site steel windows are to be hot galvanized by dipping in a

bath of molten zinc or painted with one coat primer.

WORKMANSHIP

F.8 Welding

All welding is to be in accordance with the requirements of B.S. 1856 and 938 and the electrodes shall comply with B.S. 639.

F.9 **Painting**

All steel is to be wire brushed and any loose scale, dirt or grease shall be removed before any painting is commenced. One coat of red oxide primer type A to B.S. 2523 SHALL BE applied at the shop.

F.10 **Fixing of Steel Grilles**

Fixing of metal frills shall include for assembling and fixing, including screwing to sub- frames or cutting mortices for lugs in concrete or walling and running with cement mortar 91:4, bedding frames in similar mortar, pointing in mastic, bedding sills, transoms and mullions in mastic, making good furnishings around both sides and fixing and adjusting all fittings and frames.

PLASTERWORK

G.1 Generally

Render both internal and externally shall be cement and sand in the proportions 1:4 finished to the thickness specified.

Plaster shall consist of an undercoat of a part cement to 6 parts sand by volume and a finishing coat of 1 part cement to 10 parts lime putty. Each coat shall be finished to the thickness specified.

G.2 Cement

Ordinary Portland cement and shall comply with k.s.02-21. White and coloured cements shall comply with B.S. 12 and be obtained from an approved manufacturer.

G.3 Lime

Lime shall be prepared from hydrated lime complying with B.S. 890, Part 2

G.4 Sands

Sands for cement and lime mixes shall comply with B.S. 1199, Table 1

G.5 Water

Water shall be clean and kept free from impurities

G.6 **Mixing of materials**

All materials shall be thoroughly mixed in the proportions described. No mixes of plasters, other than described shall be used.

G.7 **Period between coats**

Cement – lime undercoats shall be allowed to dry out thoroughly before a further coat is applied.

G8 Surfaces of beds and backings

Screeded beds for insitu finishings of floor finishings bedded in mortar shall be left rough from the screeded board.

<u>Floated beds</u> for inflexible floor finishings bedded in mastic, shall be left with a plain Untextured surface.

<u>Trowelled beds</u> for flexible finishings shall be finished smooth and free from score marks, grooves or depressions.

<u>Floated backings</u> for inflexible wall finishings fixed with adhesive shall be left with a plain surface.

<u>Trowelled backings</u> for flexible wall finishings shall be finished with smooth and free from score marks or depressions

Beds and Backings for finishings by specialist shall be to the approval of the specialist.

G.9 **Preparation of surfaces**

All surfaces to receive the finishings in this section shall be thoroughly cleaned. Screeds to receive finishings bedded in mortar shall be well wetted before laying is commenced.

PAINTING AND DECORATING

MATERIALS

H.1 Colour Range

Painting and decorative schemes shall be carried out in colours selected by the Architect from the approved range of colours

H2 Approval of brands

The contractor shall seek in writing, approval from the Architect for all brands of paint he wishes to use.

H.3 **Quality of products**

Where a type of paint is produced by the Manufacturer in more than one quality, only paints and materials of the first or best quality shall be used in the works. The container label shall indicate clearly the quality of the paint being used.

H.4 Where it is not evident that the first or best quality of paint is being used the Architect will order the removal of such materials from the site and rectification of any works executed with those materials all at the contractor's expenses.

H.5 Same makers materials used for coating

While materials for the work may be obtained from several makers, undercoats and finishings coats for a particular surface must be obtained from the same maker (i.e. one maker's undercoat).

H.6 **Remedying defects due to defective materials**

All materials, which in the opinion of the Architect are unsatisfactory, shall be immediately removed from the site and any work executed with such defective materials shall be made good by the contractor, at his expense, to the satisfaction of the Architect.

H.7 Emulsion paint

Emulsion paint (interior and/or exterior) shall have P.V.A. base and shall be of an approved brand. The first coat shall be thinned in accordance with the manufacturer's instructions. Where described as applied externally, the paint shall incorporate an approved fungicide to prevent fungus growth.

H.8 Black bituminous paint

Black Bituminous paint shall comply with B.S. 3416, Type ii for general for drinking water.

H.9 **Primer for iron and steelwork**

Prime for iron and steelwork shall:-

- (a) Lead based priming paint complying with B.S. 2523 Type B
- b) Calcium plumbate priming paint complying with B.S. 3698 Type A.

Primer for woodwork

Primer for internal woodwork, other than the internal surfaces of external doors, windows and their frames and linings, etc in contract with masonry, concrete or plaster, shall be leadless white or light grey priming paint not darker than 9-093 of B.S. 4800 which shall be compatible with the subsequent coats and obtained from the same maker.

Oil paint

Hard gloss, semi-gloss matt and flat oil paints, and respective undercoats, shall be approved quality as appropriate.

H.27 Polyurethane lacquer

Polyurethane lacquer shall be an approved single pack or two pack lacquer as described of interior or exterior quality, as appropriate.

H.31 Plaster, rendering, concrete blockwork and brickwork

All plaster or mortar splashes, etc shall be removed from plaster rendering, concrete, block work and brickwork by careful scraping; all holes, cracks etc shall be stopped and the whole of the surfaces shall be brushed down to remove dust and loose materials. In addition, all traces of mould oil shall be removed from concrete surfaces by scrubbing with water and detergent and rinsing with clean water to remove all detergent.

H.35 Iron and steel

Before fixing all rust and scale shall be removed from iron and steel surfaces by wirebrushing, scraping hammering, flame cleaning etc.

H.37 Hardwood

All dirt and grease shall be removed from hardwood surfaces. After priming all nail holes and other imperfections shall be stopped.

H.38 Fibreboard

All dirt shall be brushed off from fibreboard surfaces. After priming all nail holes and other imperfections shall be stopped.

H.39 Plywood

Surfaces of plywood to be painted shall be filled as required with a plaster based filler for internal work, and a filler as described in stopping here before for external work, and then rubbed down and all dust and loose materials brushed off.

H.40 Woodwork to be painted

Before fixing woodwork all surfaces which will be visible after fixing shall be rubbed down and all knots and resin pockets shall be scorched back and coated with knotting.

H.41 Woodwork to receive clear finish

All holes and other imperfections in surfaces to receive a clear finish shall be stopped and the whole surface shall be rubbed down to a fine satin finish and all dust brushed off.

Workmanship

H.42. Standard of workmanship

Prior to the commencement of internal or external decoration, areas not exceeding 50 square metres in total area and designated by the Architect, shall be completely decorated, and after approval shall be used as a standard for the whole of the works. Any additional cost involved in carrying out such decoration in advance of the general work shall be deemed be included in the Contract Sum. Such decorated surfaces shall be made good and touched up as necessary prior to the handing over of the works.

H.43 **Stirring of materials**

The contents of all cans and containers of all materials must be properly and thoroughly stirred before and during use and shall be suitably.

H.44 Manufacturer's instructions

All materials shall be used strictly in accordance with instructions issued by manufacturers concerned. The addition of thinners, driers or other materials will only be permitted when specially required by the maker and the procedure approved by the Architect.

H.45 Brush work

Unless otherwise described, all coatings shall be applied by Brush. Written permission must be obtained from the Architect for the application of coatings by spray or roller where not so described, and if permission is granted such application shall not result in extra cost to the Employer.

Proposed Pedestrian Gate House for Machakos University

BUILDERS' WORKS

PEDESTRIAN GATE HOUSE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 1				
	SUBSTRUCTURES (ALL PROVISIONAL)				
	Site clearance and demolations				
А.	Clear site of all shrubs, thicket and undergrowth including grubbing up of roots and dispose off as directed by the project manager	186	SM		
В.	Cut down trees of girth exceeding 600mm but not exceeding 900mm including grabbing up stamp and roots	4	NO		
C.	Ditto 900mm to 1200mm girth	4	NO		
D.	Carefully take down existing 900mm high metal balustrading approximately 14 lm including storing all arising as directed by the client.		ITEM		
E.	Carefully take down existing concrete paving slabs/ blocks covering approximately 30 sm. including storing them as directed by the client.		ITEM		
	Cut down existing Kei apple ("Kayaba") hedge fence covering approximately 12 lm including grubbing up of roots and disposing off all arising rubbish as				
F.	directed by the project manager.		ITEM		
G.	Carefully take down existing 2 No. sign boards including labour and materials for refixing then on new locations as directed by the project manager.		ITEM		
	Excavations and Earthworks				
	Bulk Excavation				
Н.	Excavate; using appropriate machinery to reduce levels; depth n.e 1.5m	279	СМ		
J.	Ditto exceeding 1.5m but n.e 3.00m	130	СМ		
K.	Excavate for strip foundation starting from reduced level not exceeding 1.50 meters deep and cart away as directed	20	СМ		
L.	Ditto but for column bases.	10	СМ		
М.	Extra over for excavation in rock class 1.	2	СМ		
	Total carried collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
А.	Allow for keeping excavations free from mud and all water including spring and running water by pumping, pailing or other approved means		ITEM		
B.	Allow for planking and strutting to sides of excavations		ITEM		
	Filling and carting away				
C.	Return, fill and ram selected excavated material around excavations.	30	СМ		
D.	Load and cart away surplus excavated material as directed by the project manager.	409	СМ		
	Hardcore as described				
E.	300mm Thick layer of imported hardcore filling including levelling and consolidating in 150mm layers	269	СМ		
	Blinding				
F.	50mm Thick Quarry dust blinding to the surface of hardcore;rolled smooth to receive polythene sheeting(m.s)	122	SM		
	Insecticide treatment				
G.	Dragnet FT termiticide 0.5% solution to be applied at the rate of 4 litres per square metre on top of hardcore filling over foundation walls or equal and approved treatment strictly in accordance with manufactureurer's printed instructions and subject to a TEN YEAR GUARANTEE Damp proof membrane	135	SM		
H.	500mm Gauge polythene or other equal and approved	135	SM		
	plastic sheet damp proof membrane laid over blinding(measured nett - allow for laps)				
	Total carried collection		I		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	In-situ concrete work				
	Plain concrete (1:4:8)				
A.	50mm thick under column bases.	16	SM		
B.	Ditto but under strip footing.	41	SM		
	Vibrated reinforced concrete (1:2:4/20-20mm aggregate) as described in:				
C.	Reinforced concrete in column bases.	5	СМ		
D.	Ditto but in strip footing.	8	СМ		
E.	Ditto columns below ground level.	2	СМ		
F.	In 150mm thick floor slab.	135	SM		
	Sawn formwork as described to:				
G.	To vertical sides of strip footing.	27	SM		
Н.	Ditto column bases.	19	SM		
J.	Ditto column below ground level.	32	SM		
K.	To vertical edges of floor slab 75-150mm girth.	47	LM		
	Steel reinforcement				
	Supply and fix bars reinforcement including bending, hooks,tyingwire, cutting,spacers and supporting all in position as described. High tensile deformed bars to B.S.4461				
L.	12mm diameter.	372	KG		
M.	10mm diameter.	274	KG		
N.	8mm Diameter	58	KG		
	Total carried collection	1	<u> </u>		

ITEM	DESCRIPTION	QTY	UNITI	RATE	AMOUNT
	Mesh reinforcement				
А.	Fabric mesh reinforcement to B.S. 4483 ref: A142 including laps tyingwire and spacer blocks complete(measured net-allow for laps)	135	SM		
	Foundation walling				
	200mm Thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron in every alternate course				
В.	Plinth area finishes	171	SM		
C.	12mm Thick cement and sand (1:3) wood float render to plinth area	14	SM		
D.		14	SM		
	Prepare and apply three coats black bitumastic paint to rendered area Paving slabs;-				
	600×600mm pre-cast concrete slabs including excavating,carting away,levelling bottom,laying and compacting 150mm murram bed,anti-termite treatment and 50mm thick quarry dust blinding.				
E.		31SN	1		
	Total carried collection below				
	<u>COLLECTION</u>				
	From page GH / 1				
	From page GH / 2				
	From page GH / 3				
	From above				
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUN
	ELEMENT NO. 2				
	REINFORCED CONCRETE SUPERSTRUCTURE				
	Insitu concrete; reinforced; class 20 / (20mm);machine mixed and vibrated				
A.	Beams and Ring beam	5	СМ		
B.	Columns	2	СМ		
C.	Ditto but concrete gutters	4	СМ		
	<u>Reinforcement</u>				
	Deformed bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks				
D.	12mm bars	450	KG		
E.	10mm bars	281	KG		
F.	8mm bars	226	KG		
	Sawn formwork to insitu concrete as described:-				
G.	To sides and soffits of beams and Ring beam	65	SM		
H.	Ditto columns	31	SM		
J.	Ditto gutters	81	SM		
	TOTAL FOR REINFORCED CONCRETE S CARRIED TO SUMMAR		TRUCI	TURE	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUN
	ELEMENT NO. 3				
	WALLING				
А. В.	 200 mm thick approved machine-cut stone, with and including hoop iron in every alternate course; bedding, jointing and pointing in cement sand (1:3) mortar 100 mm thick ditto Dump proof course 	133 3	SM SM		
C.					
D.	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar 100mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3)	56 1	LM LM		
	Metal grill wall				
E.	Fabricate and fix metal grill wall 2400mm high by use of 25 x 25 x 2mm thick R.H.S horizontal rails spaced at 300mm centres, welded to 40 x 40 x 2mm thick R.H.S vertical rails spaced at 200mm centres. The grill shall be welded in an approved pattern and all the welds ground smooth and have a primer coat before delivery to site; including embedding centrally into concrete columns, floor slab and beam.				
	Prepare and apply three coats oil paint full gloss to crown solo or other equal and approved to: -	24	SM		
F.	General grill surfaces; over 300mm girth internal.	24	SM		
G.	General grill surfaces; over 300mm girth external.	24	SM		
	TOTAL FOR WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 4				
	ROOFING				
	ROOF CONSTRUCTION				
А.	All timber to be sawn cypress of G.S grade seasoned to an equilibrium moisture content between 9% and 15% and to a requirement of K.S 02771 of 1991 treated with approved wood preservative 100 x 50mm wall plate on and including 10mm cement and sand (1:4) motar bed secured to reinforced concrete ring beam (m.s) by 12mm diameter mild steel anchor bolts at 1200mm	21	LM		
	The following in Double pitch Trusses including hoisting and fixing in position approx 12000mm above ground floor including all necessary jointing to Structural Engineer's details as described on:-				
B.	100 x 50mm Truss Rafters	97	LM		
C.	100 x 50mm Ceiling Joists	88	LM		
D.	100 x 50mm King posts	18	LM		
E.	100 x 50mm Struts/ties	108	LM		
	Independent members				
F.50	x 50mm battens	395	LM		
	Pre-painted IT5 roofing sheet fixed, approximately 6000mm average height from ground level, with and including galvanised nails and neoprene washers on timber purlins (ms) with one and a half corrugation side lap and 150mm end laps				
G.	<u>Covering</u> "DECRA ROOF TILE" or other equal and approved sand coated steel sheet tiles on timber battens (m.s.)	112	SM		
	Carried to collection		<u> </u>		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
А.	 SUNDRIES 12mm diameter x 300mm long black mild steel anchor bolt embedded 180mm deep in ring beam at 1200mm cc including holes to timber 100 x 100 x 6mm thick galvanised mild steel nailing cleat once bent to form angle, ten times drilled, one flange nailed to foot of rafter (m.s) other nailed to top of wall plate 	18	NO		
В.	RAIN WATER DISPOSAL	36	NO		
C.	100mm diameter upvc down pipe secured to wall with and including steel brackets	16	LM		
D.	Extra over ditto for swan neck	4	NO		
E.	Ditto for shoe	4	NO		
	Carried to collection below				
	COLLECTION From page GH /7				
	From above				
	TOTAL FOR ROOF CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5				
	DOORS				
	EXTERNAL DOORS				
	METAL DOORS				
	Supply, assemble and fix purpose metal panelled doors including all necessary ironmongery and accesories:-				
A.	Door opening overall size 1200 x 2400mm high	1	NO		
В.	Ditto overall size 900 x 2400mm high	2	NO		
C.	Door opening overall size 3000 x 2400mm high folding door in 4 no. openable pannels	2	NO		
D.	Prepare and spray paint one undercoat and two finishing coats of first quality aluminium paint on:- General surfaces of metal doors	43	SM		
D.	INTERNAL TIMBER DOORS	43	5101		
	45mm thick semi solid core flush doors veneered both sides with first quality plywood and lipped on all edges in approved hardwood				
E.	Door size 900 x 2100mm high	2	NO		
F.	Door size 800 x 1800mm high	2	NO		
	Wrot mahogany				
G.	150 x 50mm. Frame with two labours	27	LM		
H.	50 x 25mm. Splayed architrave.	25	LM		
J.	25mm. Quadrant beading	25	LM		
K.	10 x 50mm (finished) grazing bead	10	LM		
	Total carried collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	IRONMONGERY				
	Supply and fix the following ironmongery from 'UNION' or other equal & approved manufacturer including all necessary matching screws.				
A.	2 - Lever mortice lock with brass furniture	4	NO		
B.	Metal door lock	5	NO		
C.	100mm. Pressed brass butt hinges	6	PAIRS		
	Supply and fix the following to concrete or blockwork with screws including plugging				
D.	38mm Diamter door stopper	12	NO		
	Mild steel				
E.	25 x 16mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood	24	NO		
	<u>Glazing</u>				
F.	4 mm thick clear sheet glass and glazing to timber with glazing beads (m.s.)	1	SM		
G.	Ditto to metal doors with glazing putty	2	SM		
	Painting and Decoration				
	Prepare and apply three coats polyurethane clear varnish on woodwork internally.				
H.	Timber surfaces	14	SM		
J.	Timber surfaces: over 200 but not exceeding 300mm ; internally	27	LM		
K.	Ditto: not exceeding 100mm ; internally	49	LM		
	Prepare and apply one coat aluminium primer before fixing: to backing of wood				
L.	Surfaces over 100 but not exceeding 200mm	76	LM		
	Carried to collection below				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	COLLECTION				
	From page GH /9				
	From page GH /10				
	TOTAL FOR DOORS CARRIED TO				
	SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 6				
	WINDOWS				
	Supply, assemble and fix the following purposemade mild steel casement windows; heavy duty metal section from approved manufacturer complete with frames, transoms, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50 mm projection to full width of window, coupling mullions, approved iron mongery and one coat manufacturer's primer; all welding ground to smooth finish. Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or block work, fixing to head and sill with screws; plugging.				
A.	Window, overall size 3000 x 1500mm high designed to architet's window sechedule and approval.	2	NO		
B.	Window, overall size 3000 x 900mm high designed to architet's window sechedule and approval.	1	NO		
C.	Window, overall size 2100 x1500mm high ditto	2	NO		
	Glazing				
D.	5mm thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty.	15	SM		
E.	Ditto but obsecure	3	SM		
	Window cills				
F.	225x75mm thick concrete window cills weathered and throated including hoisting and fixing in place.	5	LM		
	Curtain rods				
	20 mm diameter hollow section metal curtain rod complete with curtain rings, rollers, end brackets(2No) and all other accessories, length 3000				
G.	mm	2	NO		
H.	Ditto length 2100 mm	2	NO		
	Carried to collection		I		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Painting and Decorations				
	On metal work				
	Prepare and apply three coats oil paint full gloss to crown solo or other equal and approved to: -				
А.	General window surface; over 300mm girth internal. General window surfaces; over 300mm girth external.	18	SM		
B.		18	SM		
	Carried to collection below				
	COLLECTION				
	From page GH /12				
	From above				
	TOTAL FOR WINDOWS CARRIED TO SUMMARY		<u> </u>		

ITEM	DESCRIPTION	QTY	UNITR	АТЕ	AMOUNT
	ELEMENT NO. 7				
	<u>FINISHES</u>				
	<u>Floor finishes</u>				
	Insitu cement and sand (1:3) backing screed, wood float finished, on concrete				
A. 3	2mm thick screed finished to receive floor tiles	125SN	ſ		
	Coloured approved non-slip cremic floor tiles				
B.	330 x 330 x 12mm thick floor tiles as "SAJ CERAMICS" bedded and pointed in matching cement and sand mortar	27	SM		
C.	100 x 12mm skirting ditto	45	LM		
	Porcelain ceramic floor tiles				
D.	600 x 600 x 10 mm thick porcelain ceramic high traffic floor tiles ceramic floor tiles as "SAJ CERAMICS" laid on backing screed (m.s.) with and including approved adhesive pointed with coloured cement	98	SM		
E.	100mm High ditto skirting ditto	20	LM		
	Wall finishes				
	Gauged Lime Plaster (1:2:9)				
	15mm Thick cement lime and sand (1:2:9) plaster				
F.	steel trowelled smooth	135	SM		
G.	12 mm thick one coat backings; wood floated to receive ceramic tiles (m/s) to concrete base; to walls; internal (1800mm high)	50	SM		
	coloured glazed wall tiles to regular or approved other pattern				
H.	200 x 300 x 6mm Thick "SAJ CERAMICS" glazed wall tiles fixed on backing screed (m.s.) with and approved adhesive; grouting with white cement	50	SM		
J.	20mm pvc tile edge finishing strips	45	LM		
	Carried to collection				

PROPOSED PEDESTRIAN GATE HOUSE FOR MACHAKOS UNIVERSITY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	External wall finishes				
А.	12mm Thick cement sand (1:3) render steel trowelled smooth to concrete surfaces of beam and columns.	13	SM		
B.	Ditto but gutters externally	43	SM		
C.	Ditto but internally and water proofed	43	SM		
D.	Ditto but on masonry wall (gables)	28	SM		
E.	Extra over horizontal pointing in 10mm thick rod in cement and sand (1:3) mortar to external wall	53	SM		
	Supply and apply integral capillary system water proofing as per ''SIKA'' catalogue or any other equal and approved				
F.	To plastered gutters internally	43	SM		
	Ceiling finishes				
	Prime grade wrot cypress timber selected and kept clean				
G.	100 x 25 mm Thick wrot cypress moulded cornice	119	LM		
H.	50 x 50mm brandering at 600 mm centres both ways	346	LM		
J.	Heavy gauge T & G PVC ceiling on 50 x 50mm timber brandering (m/s), nails punched and pittied; set to pattern to ceilings.	88	SM		
L.	Extra over chip board ceiling for trap door as before described	2	NO		
	Painting and decorations				
	<u>Prepare and apply three coats of first quality vinyl</u> silk matt emulsion paint to: -				
М.	Plastered walls, columns and beams internally	135	SM		
	Wallmaster				
N.	Prepare and apply wallmaster to external plastered surfaces of walls, columns, beams and gutters	84	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	COLLECTION				
	From page GH /14				
	From page GH /15				
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
1	SUBSTRUCTURE		G	H/ 4	
2	REINFORCED CONCRETE FRAME		G	H/ 5	
3	WALLING		G	H/ 6	
4	ROOF		G	H/ 8	
5	DOORS		GI	H/ 11	
6	WINDOWS		GI	H/ 13	
7	FINISHES		GI	H/ 16	
	TOTAL FOR PEDESTRIAN GATE HOUSE CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	ΟΤΥ	UNIT	RATE	AMOUNT
	ELECTRICAL WORKS (ALL PROVISIONAL)				
	Supply and install final sub-circuitsin a cable and conduit installation comprising concealed heavy gauge 20mm. diameter PVC conduits, 1.5mm. square PVC insulated copper cables, 1.5mm. square copper earthing cable including all accessories and fittings				
А.	One way switching Lighting points	6	No		
B.	Two way switching Lighting points	4	No		
C.	Photo cell controlled Switching	3	No		
	10A moulded switch plates to approal				
D.	1-gang 1-way	4	No		
E.	2-gang 1-way	2	No		
F.	2-gang 2-way	4	No		
G.	10A photocel switching unit	3	No		
	LIGHTING FITTINGS				
	Supply and install Lighting Fittings complete with all accessories, and fixing as below:-				
H.	1200mm long 36watts daylight deluxe single flourescent fitting				
	nourescent fitting	8	No		
J.	75W LED flood lights	3	No		
K.	Glass ball fitting	4	No		
L.	Self illuminated emergency exit light with sign as Thorn	2	No		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	POWER OUTLET POINTS				
A.	13A Twin socket outlet point concealed in PVC heavy gauge conduit complete with all accessories.				
		6	No		
В.	13A twin switched socket outlet plate as Crabtree	6	No		
	POWER DISTRIBUTION				
C.	9 - Way SPN Consumer Control Unit as Crabtree or				
	equal and approved complete with 100A SPN integral				
	isolator for flush mounting.	1	No		
	SP MCB units for above item as follows				
D.	10A SP	2	No		
E.	20A SP	2	No		
F.	30A SP	2	No		
G.	Blanking plates	3	No		
H.	Supply Sub- mains Cable from distribution board to CU type 3x10mm ² PVC/CU SC enclosed in 32mm diameter concealed conduit.				
		50	LM		
	Total carried to collection				
	COLLECTION				
	From page EW /1				
	From above				
	TOTAL FOR ELECTRICAL WORKS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
А. В. С.	EARTHING, BUILDERS WORKS AND <u>TESTING</u> Supply and install Ø 16mm by 1800mm long copper earth electrode complete with test clamp with precast chamber Allow for builders works associated with electrical installation Testing and Commissioning	1	No Item Item		
	TOTAL FOR EARTHING, BUILDERS WORKS AND TESTING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	<u>SUMMARY</u> TOTAL FOR ELECTRICAL WORKS TOTAL FOR EARTHING, BUILDERS WORKS AND TESTING			ZW/ 2 ZW/ 3	
	TOTAL FOR ELECTRICAL WORKS CARRIED				

ITEM	DESCRIPTION	QTY	UNITR	ATE	AMOUNT
	MECHANICAL WORKS (ALL PROVISIONAL)				
	SANITARY FITTINGS				
	 (i) All sanitary fittings shall be in approved colour. (ii) The model and Ref No. indicated is only a guide to the type and quality of fittings. (iii) Equivalent and approved models may be acceptable. 				
	Supply and fix the following sanitary fittings				
	Water closets -Pans				
А. В.	WC ensuite as Twyfords classic to BS 1213 or equal to be approved., western type, white vitreous china clay material to BS 3402 complete with horizontal outlet, fixing screws and mastic, heavy duty seat & cover and P-trap outlet plus all accessories 100mm WC flexible connector	2 2	No. No.		
	Wash Hand Basins				
C.	Twyfords white vitreous china clay wash hand basin size 510 x 420 mm to BS 1188, complete with chrome plated basin waste 32 mm diameter, chain stay & chain, PVC waste plug, single chrome plated pillar tap to BS 1010 as "BRICON" size 15mm diameter, chrome plated bottle trap size 32mm diameter, fixing screws & brackets or equal to be approved.				
	Accessories	2	No.		
D.	15mm angle valves	4	No.		
	Flexible tubing				
E.	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.				
		4	No.		
	Total carried to collection				

ITEM	DESCRIPTION	ОТҮ	UNITR	АТЕ	AMOUNT
А.	Robe Hook Robe hook in Sati Aluminium to be mounted by concealed screws to wall wedges. To be as Twyfords	2	No		
B.	Toilet Roll Holder Semi recessed toilet roll holder in Vitreous China of size 165 x 165mm in approved colour as Twyfords 9806WH or equal and approved.	2	No		
C.	Mirrors 6mm thick polished plate glass silver backed mirror with beveled edges, sizes 610 x 610mm, plugged and screwed to wall with 4No chrome plated dome capped screws.	2	No		
D.	 Wc flush valve - Concealed 32mm Toilet flush valve, concealed back entry type, chrome plated, rough brass with integral vacuum breaker, non return valve and control stop, with pushfork and chrome plated push button assembly comprising of the following elements:- 1 No. flush valve,brass coated 1 No. push button assembly chrome plated 1 No. elbow 2 No. straight flush pipes 38.2mm x 445mm 1 No. Rubber flush pipe connector 				
E.	As "Cobra Waterteck" Model FM3.402 or approved equivalent. Urinal bowl as "TWYFORD CLIFTON" ref: VC7004WH in white vitreous china clay measuring 450 x 300 x 375 mm with exposed flush pipes Or equal and approved, comprising: Pair bowl supports wall hangers ref: SR5307 XX 1 – ½ inch plastic grating with white plastic dome ref: WF 9370XX 1 – ½ inch plastic bottle P Trap ref: WF8483XX, 9 Litre capacity Auto cistern and fittings ref. CX 8612, Exposed flush pipes a,with dome shaped PVC urinal grating, heavy duty PVC bottle trap size 40mm diameter concealed stainless steel flush pipe complete with Hangers with screws ref. SR 5706 XX	2	No		
F.	Allow for builders works associated with the fixing of sanitary fittings		ITEM		
	Total carried to collection		•		

ITEM	DESCRIPTION	QTY	UNITR	АТЕ	AMOUNT
	COLLECTION				
	From page MW /1				
	From page MW /2				
	TOTAL FOR SANITARY FITTINGS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	INTERNAL PLUMBING				
	Supply, deliver and install pipes, tubing and fittings as described and shown on the drawings. The pipes shall be PN 25 PPR 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 raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc as required in the running lengths of pipe work and also were necessary for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the				
	The pipes will be pressure tested before the plastering of all commences and as per the manufacturer recommended testing pressures.				
	PP-R 80 PN 6 pipes				
А.	15 mm diameter	12	LM		
B.	20 mm diameter	15	LM		
C.	32 mm ditto	10	LM		
	Extra Over PP-R 80 Tubing for the following:-				
	Elbows /bends				
D.	15 mm diameter PP-R elbow/bend	8	No.		
E.	20 mm diameter PP-R elbow/bend	6	No.		
F.	32 mm ditto	3	No.		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNITR	ATE	AMOUNT
	Tees				
A.	20/15 mm diameter reduced tee	2	No.		
B.	32/20 mm ditto	2	No.		
C.	15mm equal tee	4	No.		
D.	20mm ditto	2	No.		
E.	32 mm ditto	2	No.		
	Reducer				
F.	20x15 mm	2	No.		
G.	32x20 mm ditto	3	No.		
	G.I Nipples				
H.	32mm diameter G.I nipple	1	No.		
J.	20mm diameter G.I nipple	1	No.		
K.	15mm diameter G.I nipple	2	No.		
	G.I Sockets				
L.	32mm diameter G.I socket	4	No.		
M.	20mm diameter G.I socket	4	No.		
N.	15mm diameter G.I socket	6	No.		
	G.I Back nuts				
О.	32mm diameter back nut	2	No.		
	Brass non return valves as PEGLER or approved equivalent.				
Р.	20mm non-return valve as peglar	1	No.		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Gate Valves as PEGLER or approved equivalent.				
А.	15 mm diameter brass gate valve	2	No.		
B.	20mm diameter ditto	3	No.		
C.	32mm diameter ditto	1	No.		
	Water Storage roof tank				
	High Level Water Tanks:				
D.	 Supply, install and commission Rotary moulded square Loft Tank water tank as "ROTO" code No. RSLT-92-1,with capacity of 920Litres. Dimensions: 1270x1270x580 (Length x Width x Height) The tank to have:- 1. 32mm diameter inlet connection 2. 75mm outlet connection. 34. 20mm overflow to the rain water gutter. 20mm wash out to the rain water gutter with a gate valve 4. Cover lid 5. 15mm diameter high pressure float valve 	1	NO		
E.	Allow for Tank support base and builders works related to Tank installation		ITEM		
F. G.	25mm diameter high pressure cast brass float valve as PEGLER or approved equivalent. Allow for builders works associated with internal plumbing system.	1	No ITEM		
	Carried to collection below				
	COLLECTION				
	From page MW /4				
	From page MW /5				
	From above				
	TOTAL FOR INTERNAL PLUMBING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNITR	ATE	AMOUNT
	INTERNAL DRAINAGE				
	Supply, deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufacturers Printed instructions and manufactured by reputable manufactures. Tenderers must allow in their pipe work prices fro all the couplings, clippings, connectors, joints etc as required in the running lengths of pipe work and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil Pipe work				
A. B.	32 mm diameter waste pipe 100 mm ditto	12 20	LM LM		
	Extra Over MuPVC and uPVC Waste Pipe work <u>for the following:-</u>				
C. D.	32 mm diameter Sweep Bend	4	No. No.		
	100mm ditto WC Connectors				
E.	100mm diameter WC connectors bend with provision for appropriate adaptation for conversion to S-trap	2	No.		
F.	100mm diameter acess cap fitted with screw cap and washer	2	No.		
G.	100 mm 4 way floor trap and grating	2	No.		
H.	100mm diameter gully trap complete with cover	2	No.	1	
J.	100mm diameter tee	2	No.		
K.	100 mm diameter vent cowl	1	No.		
L.	100 mm diameter weathering slate	1	No.		
M.	100 mm diameter weathering apron	1	No.		
N.	Allow for builders works associated with internal drainage installations		ITEM		
	TOTAL FOR INTERNAL DRAINAGE CARRIED TO SUMMARY	<u> </u>	<u> </u>		

PROPOSED PEDESTRIAN GATE HOUSE FOR MACHAKOS UNIVERSITY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	<u>SUMMARY</u> SANITARY FITTINGS		Ν	IW/ 3	
2	INTERNAL FITTINGS		Ν	IW/ 6	
3	INTERNAL DRAINAGE		Ν	IW/ 7	
	TOTAL FOR MECHANICAL WORKS CARRIE GRAND SUMMARY	D TO			

1000151	UNAL SUMS					
ITEM	DESCRIPTION	QTY	UNIT	RATE	кѕн	
	<u>PROVISIONAL SUMS</u> <u>The contractor shall include in his tender the</u> <u>following to be deducted in whole or in part as</u> <u>directed by the Project Manager</u>					
A.	<u>CONTIGENCIES</u> Allow a provisional sum of Kenya Shillings Five hundred thousands (Ksh.500,000.00) only for Contingencies					500,000.00
B. 2	PROJECT MANAGEMENT EXPENSES Allow a provisional sum of Kenya Shillings two hundred thousands (Ksh. 200,000.00)only for Project manager's expenses.					200,000.00
	TOTAL FOR PROVISIONAL SUMS CARR SUMMARY	IED T	I O GR∤	AND		700,000.00

GRAND	SUMMARY
	5011111/1/1111

ITEM	DESCRIPTION	PAGE	OFFICIAL USE	CONTRCTOR'S USE
<u>PR</u>		OMPLETION O FORM OF TE	PEDESTRIAN DER	GATE HOUSE
	GRAND SUMMARY			
1	PRELIMINARIES			
2	PEDESTRIAN GATE HOUSE	PAGE GH/ 17		
3	ELECTRICAL WORKS	PAGE EW/ 4		
4	MECHANICAL WORKS	PAGE MW/ 8		
5	PROVISIONAL SUMS	PAGE PS/ 1		700,000.00
ТС	OTAL FOR PROPOSED PEDEST	FRIAN GATE H		
	CHAKOS UNIVERSITY CARRI	IED TO FORM	OF TENDER	
MA mount	CHAKOS UNIVERSITY CARRI			
MA Amount Cenderer Addres	CHAKOS UNIVERSITY CARRI			
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