

# KAIMOSI FRIENDS UNIVERSITY COLLEGE (KAFUCO)

(A Constituent College of Masinde Muliro University of Science and Technology)

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# TENDER DOCUMENTS FOR SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF INTERNAL PLUMBING AND DRAINAGES, SOLAR, TANK, WATER RECTIFICATION AND FIRE PROTECTION WORK.

# TENDER NO. KAFUCO/LIB/003/2021-2022

<u>CLIENT:</u> KAIMOSI FRIENDS UNIVERSITY COLLEGE P.O. BOX 385 – 50309 <u>KAIMOSI</u> Email: procurement@kafuco.ac.ke

CLOSING DATE: TUESDAY 21<sup>ST</sup> SEPTEMBER,2021

TIME: 10:00 AM

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# SECTION I INVITATION FOR TENDERS 7<sup>th</sup> September 2021

#### TENDER NO. KAFUCO/LIB/003/2021-2022

Kaimosi Friends University College Invites Sealed Tenders from Eligible Firms for Supply, Delivery, Installation, Testing and Commissioning of Internal Plumbing and Drainages, Solar, Tank, Water Rectification and Fire Protection Work for Proposed Construction of Library.

A detailed tender notice and a complete set of tender documents may be obtained by interested tenderers from the University website: www.kafuco.ac.ke or Public Procurement Information Portal (PPIP): www.tenders.go.ke free of charge. In line with COVID -19 restrictions, bidders are encouraged to download tender documents.

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

All pages including any attachments should be paginated.

Completed tender documents are to be enclosed in plain sealed envelopes, marked with the tender number and name and be deposited in the Tender Box at Kaimosi Friends University College or be addressed to: -

# The principal Kaimosi Friends University College P O Box 385 – 50309,

#### Kaimosi.

And dropped in Tender Box situated at the Administration Block, Main Campus in Kaimosi Friends University College, so as to reach the University College **NOT LATER THAN** 21<sup>st</sup> September, 2021 at 10.00 Am.

All Tenders must be accompanied by a Tender Security of Kshs. **850,000.00** in form of a bankers cheque, a bank guarantee/bankers cheque from a reputable bank or an insurance bond issued by an insurance firm approved by the PPRA located in Kenya.

Bidders who download the tender documents from the website must forward their particulars immediately via email procurement office procurement @ kafuco.ac.ke this is for records and any further tender clarification and addendum where necessary. The particulars should include: Name of Firm, Postal address, Telephone Number, Email Address, Tender Number and Tender Name.

Late Tenders, incomplete Tenders, Tenders not received, Tenders not opened at the Tender opening ceremony shall not be accepted for evaluation irrespective of the circumstances.

Tenders will be opened immediately thereafter in the presence of the candidates' representatives who choose to attend at Principal Board Room.

A Pre-Tender meeting shall be held on 14<sup>TH</sup> September, 2021 at 11:00 Am.

#### ACCOUNTING OFFICER KAIMOSI FRIENDS UNIVERSITY COLLEGE.

The following terms and expressions used in the contract document shall have the following meanings:

The Employer:	The Principal Kaimosi Friends University College P.O. Box 385-50309 <b>Kaimosi Kenya</b>
Project Manager:	Works SecretaryArchitect - Chief Architect, Engineer:
	Estates Officer Kaimosi Friends University College, P. O BOX 385 – 50309, KAIMOSI.
Quantity Surveyor:	To be appointed by the Client.
Quantity Surveyor	- Chief Quantity Surveyor Structural Engineer - Chief Structural Engineer
Electrical Engineer	- Chief Electrical Engineer Mechanical
Engineer - Chief Mee	chanical Engineer
Employer's representa	tive: This shall mean the member appointment by the Accounting Officer.

# SPECIAL NOTES

- 1. These notes shall form part of the Instructions to Tenderers and Conditions of Contract.
- 2. Site visit is a must and will form the basis of mandatory evaluation of bids.
- 3. Should the tenderer be in any doubt about the precise meaning of any item or figure, for any reason whatsoever, he must inform the Procurement Officer, KAFUCO in order that the correct meaning may be decided before the date of submission of tender.
- 4. No liability will be admitted nor claim allowed, in respect of errors in the tender due to mistakes in the specification, which should have been rectified in the manner, described above.
- 5. All tenderers must make a declaration that they have not and will not make any payment to any person which can be perceived as an inducement to enable them to win this tender.
- 6. Any tenderer whose firm uses the titles "Engineer" and "Engineers" must produce evidence of registration of at least one of the directors by the Kenya Engineers Board to avoid disqualification.
- 7. The tenderer is advice to fill other forms in the tender document
- 8. In case of Joint Venture bid all the partners Must meet all the criteria set out in the tender document
- 9. The lowest responsive bidder before the award of Tender Must provide NCA 4

# FORM OF TENDER

**To:** The Principal Kaimosi Friends University College P.O. Box 385-50309 **Kaimosi Kenya** 

Dear Sir,

For Supply, Delivery, Installation, Testing And Commissioning Of Internal Plumbing And Drainages, Solar, Tank, Water Rectification And Fire Protection Work for Proposed Construction Of Library.

In accordance with the Instructions to Tenderers, Conditions of Contract, Specifications and Bills of Quantities for the execution of the above named Works, We, the undersigned offer to construct, install and complete the said 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 Employer's notice to commence, and to complete the whole of the Works comprised in the Contract within a period of **Twenty-Four Month - (24) Month.** 

We agree to abide by this tender for **a period of 120 days from the date of tender opening** and 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	r you may receive.
Dated this	. day of	20	
Signature	.in the capacity of		

duly authorized to sign tenders for and on behalf of:

		 e of Tenderer]
of	[Address of Tenderer]	

PIN No. ..... Stamp .....

VAT CERTIFICATE No.

Witness:	Name
	Address
	Signature

# FORM OF TENDER SECURITY

WHEREAS submitted his tender dated for Supply, Delivery, Install Drainages, Solar, Tank, Water Rectification And Fire Prote Know All People by These Presents That We	ation, Testing and Commissioning Of Internal Plumbing And action Work for Proposed Construction Of Library.
Having our registered office at	
(hereinafter called "the Bank"), are bound unto	
(hereinafter called "the Employer") in the sum of	Kshs
for which payment well and truly to be made to the successors and assigns by these presents sealed w 	ith the Common Seal of the said Bank this
If after tender opening the Tenderer withdraws I specified in the instructions to Tenderers Or	nis tender during the period of tender validity
If the Tenderer, having been notified of the accep period of tender validity:	tance of his tender by the Employer during the
fails or refuses to execute the form of Agreeme	ent in accordance with the Instructions to
Tenderers, if required, or fails or refuses to furnish the Performance Securit to Tenderers;	y, in accordance with the Instructions
We undertake to pay to the Employer up to the a demand, without the Employer having to substant the Employer will note that the amount claimed by one or both of the two conditions, specifying the o	tiate his demand, provided that in his demand y his is due to him, owing to the occurrence of
This guarantee will remain in force up to and inc of tender validity, and any demand in respect ther the said date.	• • • • •
(Date)	(Signature of the Bank
(Witness)	(Seal)

PART1: TENDERING PROCEDURES

# SECTION I - INSTRUCTIONS TO TENDERERS

# A G E N E R A L PROVISIONS

#### 1.0 Scope of tender

- 1.1 The Procuring Entity as defined in the Appendix to Conditions of Contract invites tenders for Works Contractas described in the tender documents. The name, identification, and number of lots (contracts) of this TenderDocument are specified in the TDS.
- 12 Throughout this tendering document:
  - a) The term "in writing" means communicated in written form (e.g. by mail, e-mail, fax, including if specified in the TDS, distributed or received through the electronic-procurement system used by the Procuring Entity) with proof of receipt;
  - b) if the context so requires, "singular" means "plural" and vice versa;
  - c) "Day" means calendar day, unless otherwise specified as "Business Day". A Business Day is any day that an official working day of the Procuring Entity. It excludes official public holidays.

#### 20 Fraud and corruption

- 21 The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset DisposalAct, 2015, Section 62 "Declaration not to engage in corruption". The tender submitted by a person shall include a declaration that the person shall not engage in any corrupt or fraudulent practice and a declaration that the person or his or her subcontractors are not debarred from participating in public procurement proceedings.
- 22 The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding <u>collusive practices</u> in contracting. Any tenderer found to have engaged in collusive conduct shall be disqualified and criminal and/or civil sanctions may be imposed. To this effect, Tenders shall be required to complete and sign the "Certificate of Independent Tender Determination" annexed to the Form of Tender.
- 23 Tenderers shall permit and shall cause their agents (whether declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Procuring Entity to inspect all accounts, records and other documents relating to any initial selection process, pre-qualification process, tender submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Procuring Entity.
- 24 Unfair Competitive Advantage Fairness and transparency in the tender process require that the firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender. To that end, the Procuring Entity shall indicate in the **Data Sheet** and make available to all the firms together with this tender document all in formation that would in that respect give such firm any unfair competitive advantage over competing firms.

#### 3.0 Eligible tenderers

**3.1** A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 3.8, or an individual or any combination of such entities in the form of a joint venture (JV) under an existing agreementor with the intent to enter in to such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct allbusiness

for and on behalf of any and all the members of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender. The maximum number of JV members shall be specified in the **TDS**.

- **3.2** Public Officers of the Procuring Entity, their Spouses, Child, Parent, Brothers or Sister. Child, Parent, Brother or Sister of a Spouse, their business associates or agents and firms/organizations in which they have a substantial or controlling interest shall not be eligible to tender or be awarded a contract. Public Officers are also not allowed to participate in any procurement proceedings.
- **3.3** A Tenderer shall not have a conflict of interest. Any tenderer found to have a conflict of interest shall be disqualified. A tenderer may be considered to have a conflict of interest for the purpose of this tendering process, if the tenderer:
  - a) Directly or indirectly controls, is controlled by or is under common control with another tenderer;
  - b) Receives or has received any direct or indirect subsidy from another tenderer;
  - c) Has the same legal representative as another tenderer;
  - d) Has a relationship with another tenderer, directly or through common third parties, that puts it in a position to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process;
  - e) Any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods or works that are the subject of the tender;
  - f) Any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as a consultant forContract implementation;
  - g) Would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the contract specified in this Tender Document;
  - h) Has a close business or personal relationship with senior management or professional staff of the Procuring Entity who has the ability to influence the bidding process and:
  - Are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract; or
  - ii) May be involved in the implementation or supervision of such Contract unless the conflicts temming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.
- **34** A tenderer shall not be involved in corrupt, coercive, obstructive or fraudulent practice. A tenderer that is proven to have been involved in any of these practices shall be automatically disqualified
- **35** A Tenderer (either individually or as a JV member) shall not participate in more than one Tender, except for permitted alternative tenders. This includes participation as a subcontractor in other Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. Members of a joint venture may not also make an individual tender, be a sub-contractor in a separate tender or be part of another joint venture for the purposes of the same Tender. A firm that is not a tenderer or a JV member may participate as a subcontractor in more than one tender.
- 3.6 A Tenderer may have the nationality of any country, subject to the restrictions pursuant to

ITT3.9. A Tenderer shall be deemed to have the nationality of a country if the Tenderer is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub-consultants for any part of the Contract including related Services.

- **3.7** A Tenderer that has been debarred from participating in public procurement shall be ineligible to tender orbe awarded a contract. The list of debarred firms and individuals is available from the website of PPRA <u>www.ppra.go.ke</u>.
- **38** A Tenderer that is a state-owned enterprise or a public institution in Kenya may be eligible to tender and beawarded Contract(s) only if it is determined by the Procuring Entity to meet the following conditions, i.e. if it is:
  - i) A legal public entity of Government and/or public administration,
  - ii) financially autonomous and not receiving any significant subsidies or budget support from any publicentity or Government, and;
  - (iii) Operating under commercial law and vested with legal rights and liabilities similar to any commercial enterprisetoenableitcompetewithfirmsintheprivatesectoronanequalbasis.
- **39** Firms and individuals shall be ineligible if their countries of origin are:
  - (a) As a matter of law or official regulations, Kenya prohibits commercial relations with that country;
  - (b) By an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.

A tenderer shall provide such documentary evidence of eligibility satisfactory to the Procuring Entity, as the Procuring Entity shall reasonably request.

- **3.10** Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, local sub-contracts and labor) from citizen suppliers and contractors. To this end, a foreign tenderer shall provide in its tender documentary evidence that this requirement is met. Foreign tenderers not meeting this criterion will be automatically disqualified. Information required to enable the Procuring Entity determine if this condition is met shall be provided for this purpose in "SECTIONI II EVALUATION AND QUALIFICATION CRITERIA, Item 9".
- **3.11** Pursuant to the eligibility requirements of ITT 3.10, a tender is considered a foreign tenderer, If it is registered in Kenya and has less than 51 percent ownership by nationals of Kenya and if it does not subcontract to foreign firms or individuals more than 10 percent of the contract price, excluding provisional sums. JVs are considered as foreign tenderers if the individual member firms registered in Kenya have less 51 percent ownership by nationals of Kenya. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.
- **3.12** The Competition Act of Kenya requires that firms wishing to tender as Joint Venture undertakings which may prevent, distort or lessen competition in provision of services are prohibited unless they are exempt inaccordance with the provisions of Section 25 of the Competition Act, 2010. JVs will be required to seek for exemption from the Competition

Authority. Exemption shall not be a condition for tender, but it shall be a condition of contract award and signature. A JV tenderer shall be given opportunity to seek such exemption as a condition of award and signature of contract. Application for exemption from the Competition Authority of Kenya may be accessed from the website <u>www.cak.go.ke</u>.

**4.14** A Kenyan tenderer shall be eligible to tender if it provides evidence of having fulfilled his/her tax obligations by producing valid tax compliance certificate or tax exemption certificate issued by the KenyaRevenue Authority.

#### 40 Eligible goods, equipment, and services

- 41 Goods, equipment and services to be supplied under the Contract may have their origin in any country that is not ineligible under ITT 3.9. At the Procuring Entity's request, Tenderers may be required to provide evidence of the origin of Goods, equipment and services.
- 42 Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement.

#### 5.0 Tenderer's responsibilities

- **51** The tenderer shall bear all costs associated with the preparation and submission of his/her tender, and theProcuring Entity will in no case be responsible or liable for those costs.
- 52 The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine and inspect 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 beat the tenderer's own expense.
- 53 The Tenderer and any of its personnel or agents will be granted permission by the Procuring Entity to enter upon its premises and lands for the purpose of such visit. The Tenderer shall indemnify the Procuring Entity again stall liability arising from death or personal injury, loss of or damage to property, and any other losses and expenses incurred as a result of the examination and inspection.
- 54 The tenderer shall provide in the Form of Tender and Qualification Information, a preliminary description of the proposed work method and schedule, including charts, as necessary or required.

# B. <u>CONTENTS OF TENDER DOCUMENTS</u>

#### 60 Sections of Tender Document

**61** The tender document consists of Parts 1, 2, and 3, which includes all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITT 10.

PART 1: Tendering Procedures Section I – Instructions to Tenderers Section II – Tender Data Sheet (TDS) Section III- Evaluation and Qualification Criteria Section IV – Tendering Forms

**PART 2: Works' Requirements** Section V - Bills of Quantities Section VI - Specifications Section VII -Drawings

PART 3: Conditions of Contract and Contract FormsSection VIII - General Conditions (GCC) Section IX - Special Conditions of ContractSection X- Contract Forms

- 62 The Invitation to Tender Notice issued by the Procuring Entity is not part of the Contract documents. Unless obtained directly from the Procuring Entity, the Procuring Entity is not responsible for the completeness of the Tender document, responses to requests for clarification, the minutes of a pre-arranged site visit and those of the pre-Tender meeting (if any), or Addenda to the Tender document in accordance with ITT 10. In case of any contradiction, documents obtained directly from the Procuring Entity shall prevail.
- **63** The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document and to furnish with its Tender all information and documentation as is required by the Tenderdocument.

#### 7.0 Clarification of Tender Document, Site Visit, Pre-tender Meeting

**7.1** A Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in writing at the Procuring Entity's address specified in the **TDS** or raise its enquiries during the pre-Tender meetingif provided for in accordance with ITT 7.2. The Procuring Entity will respond in writing to any request for clarification, provided that such request is received no later than the period specified in the **TDS p**rior to the deadline for submission of tenders. The Procuring Entity shall forward copies of its response to all tenderers who have acquired the Tender documents in accordance with IT T 7.4, including a description of the inquiry but without identifying its source. If so specified in the **TDS**, the Procuring Entity shall also promptly publish its response at the web page identified in the **TDS**. Should the clarification result in changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents following the procedure under ITT 8 and ITT 22.2.

- **72** The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine and inspect the site(s) of the required contracts and obtain all information that may be necessary for preparing a tender. The costs of visiting the Site shall be at the Tenderer's own expense. The Procuring Entity shall specify in the **TDS** if a pre-arranged Site visit and or a pre-tender meeting will be held, when and where. The Tenderer's designated representative is invited to attend a pre-arranged site visit and a pre-tender meeting, as the case may be. The purpose of the site visit and the pre-tender meeting will be to clarify issues and toanswer questions on any matter that may be raised at that stage.
- **73** The Tenderer is requested to submit any questions in writing, to reach the Procuring Entity not later than the period specified in the **TDS** before the meeting.
- **74** Minutes of a pre-arranged site visit and those of the pre-tender meeting, if applicable, including the text of the questions asked by Tenderers and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Tenderers who have acquired the Tender Documents. Minutes shall not identify the source of the questions asked.
- **75** The Procuring Entity shall al so promptly publish anonymized (*no names*) Minutes of the prearranged site visit and those of the pre-tender meeting at the web page identified in the **TDS**. Any modification to the Tender Documents that may become necessary as a result of the prearranged site visit and those of the pre- tender meeting shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 8 and not through the minutes of the pre-Tender meeting. Non-attendance at the pre- arranged site visit and the pre-tender meeting will not be a cause for disqualification of a Tenderer.

# 80 Amendment of Tender Documents

- **81** At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the TenderDocuments by issuing addenda.
- 82 Any addendum issued shall be part of the Tender Documents and shall be communicated in writing to allwho have obtained the Tender Documents from the Procuring Entity. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's website in accordance with ITT 7.5.
- **83** To give Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity should extend the dead line for the submission of Tenders, pursuant to ITT 22.2.

# C. PREPARATION OF TENDERS

# 9. Cost of Tendering

The Tenderer shall bear all costs associated with the preparation and submission of its Tender, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

# **10.0 Language of Tender**

The Tender, as well as all correspondence and documents relating to the tender exchanged by the tenderer and the Procuring Entity, shall be written in the English Language. Supporting

documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate and notarized translation of the relevant passages into the English Language, in which case, for purposes of interpretation of the Tender, such translation shall govern.

#### 11.0 Documents Comprising the Tender

**11.1** The Tender shall comprise the following:

- a) Form of Tender prepared in accordance with ITT 12;
- b) Schedules including priced Bill of Quantities, completed in accordance with ITT 12 and ITT 14;
- c) Tender Security or Tender-Securing Declaration, in accordance with ITT 19.1;
- d) Alternative Tender, if permissible, in accordance with ITT 13;
- e) *Authorization:* written confirmation authorizing the signatory of the Tender to commit the Tenderer, inaccordancewithITT20.3;
- f) *Qualifications:* documentary evidence in accordance with ITT 17 establishing the Tenderer's qualifications to perform the Contract if its Tender is accepted;
- g) Conformity: a technical proposal in accordance with ITT 16;
- h) Any other document required in the **TDS**.
- 112 In addition to the requirements under ITT 11.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender, together with a copy of the proposed JV Agreement. Change of membership and conditions of the JV prior to contract signature will render the tender liable for disqualification.

# 12.0 Form of Tender and Schedules

- **12.1** The Form of Tender and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Section IV, Tendering Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITT 20.3. All blank spaces shall be filled in with the information requested. The Tenderer shall chronologically serialize all pages of the tenderdocuments submitted.
- **12.2** The Tenderer shall furnish in the Form of Tender information on commissions and gratuities, if any,paid or to be paid to agents or any other party relating to this Tender.

#### 13. Alternative Tenders

- 13.1 Unless otherwise specified in the TDS, alternative Tenders shall not be considered.
- 132 When alternative times for completion are explicitly invited, a statement to that effect will be included in the **TDS**, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.
- 133 Except as provided under ITT 13.4 below, Tenderers wishing to offer technical alternatives to the requirements of the Tender Documents must first price the Procuring Entity's design as described in the Tender Documents and shall further provide all

information necessary for a complete evaluation of the alternative by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Tenderer with the Winning Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.

134 When specified in the **TDS**, Tenderers are permitted to submit alternative technical solutions for specified parts of the Works, and such parts will be identified in the **TDS**, as will the method for their evaluating, and described in Section VII, Works' Requirements.

#### 140 Tender Prices and Discounts

- 141 The prices and discounts (including any price reduction) quoted by the Tenderer in the Form of Tender and in the Bill of Quantities shall conform to the requirements specified below.
- 142 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Tenderer shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Procuring Entity. An item not listed in the priced Bill of Quantities shall be assumed to be not included in the Tender, and provided that the Tender is determined substantially responsive notwithstanding this omission, the average price of the itemquoted by substantially responsive Tenderers will be added to the Tender price and the equivalent total costof the Tender so determined will be used for price comparison.
- 143 The price to be quoted in the Form of Tender, in accordance with ITT 12.1, shall be the total price of the Tender, including any discounts offered.
- 144 The Tenderer shall quote any discounts and the methodology for their application in the Form of Tender, in accordance with ITT 12.1.
- 145 It will be specified in the **TDS** if the rates and prices quoted by the Tenderer are or are not subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, except in cases where the contract is subject to fluctuations and adjustments, not fixed price. In such a case, the Tenderer shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data and the Procuring Entity may require the Tenderer to justify its proposed indices and weightings.
- 146 Where tenders are being invited for individual lots (contracts)or for any combination of lots (packages), tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tenderthe price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 14.4, provided the Tenders for all lots (contracts) areopened at the same time.
- 147 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 days prior to the deadline for submission of Tenders, shall be included in the rates and prices and the total Tender Price submitted by the Tenderer.

#### 150 Currencies of Tender and Payment

- 151 The currency(ies) of the Tender and the currency(ies) of payments shall be the same.
- 152 Tenderers shall quote entirely in Kenya Shillings. The unit rates and the prices shall be quoted by the Tenderer in the Bill of Quantities, entirely in Kenya shillings.
  - a) A Tenderer expecting to incur expenditures in other currencies for inputs to the Works supplied from outside Kenya (referred to as "the foreign currency requirements") shall (if so allowed in the **TDS**) indicate in the Appendix to Tender the percentage(s) of the Tender Price (excluding Provisional Sums), needed by the Tenderer for the payment of such foreign currency requirements, limited to no more than two foreign currencies.
  - b) The rates of exchange to be used by the Tenderer in arriving at the local currency equivalent and the percentage(s) mentioned in (a) above shall be specified by the Tenderer in the Appendix to Tender and shall be based on the exchange rate provided by the Central Bank of Kenya on the date 30 days prior to the actual date of tender opening. Such exchange rate shall apply for all foreign payments under the Contract.
- 153 Tenderers may be required by the Procuring Entity to justify, to the Procuring Entity's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the unit rates and prices and shown in the Schedule of Adjustment Data in the Appendix to Tender are reasonable, in which case a detailed breakdown of the foreign currency requirements shall be provided by Tenderers.

#### **16.0** Documents Comprising the Technical Proposal

The Tenderer shall furnish a technical proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Tender Forms, insufficient detail to demonstrate the adequacy of the Tenderer's proposal to meet the work's requirements and the completiontime.

#### 17.0 Documents Establishing the Eligibility and Qualifications of the Tenderer

- 17.1 Tenderers shall complete the Form of Tender, included in Section IV, Tender Forms, to establish Tenderer's eligibility in accordance with ITT 4.
- 172 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tender Forms.
- 173 If a margin of preference applies as specified in accordance with ITT 33.1, nation al tenderers, individually or in joint ventures, applying for eligibility for national preference shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 33.1.
- 174 Tenderers shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, <u>a particular contractor or group of contractors</u> qualifies for a margin of preference. Further the information will enable the Procuring Entity identify any actual or potential conflict of interest in relation to the procurement and/or contract management processes, or a possibility of collusion between tenderers, and thereby help to prevent any corrupt influence in relation to the procurement process or contract management.
- 175 The purpose of the information described **in ITT 17.4** above overrides any claims to confidentiality which a tenderer may have. There can be no circumstances in which it would be justified for a tenderer to keep information relating to its ownership and control confidential where it is tendering to undertake public sector work and receive public sector

funds. Thus, confidentiality will not be accepted by the Procuring Entity as a justification for a Tenderer's failure to disclose, or failure to provide required information on its ownership and control.

- 176 The Tenderer shall provide further documentary proof, information or authorizations that the Procuring Entity may request in relation to owner ship and control which in formation on any changes to the information which was provided by the tenderer under ITT 6.4. The obligations to require this informationshall continue for the duration of the procurement process and contract performance and after completion of the contract, if any change to the information previously provided may reveal a conflict of interest in relation to the award or management of the contract.
- 17.7 All information provided by the tenderer pursuant to these requirements must be complete, current and accurate as at the date of provision to the Procuring Entity. In submitting the information required pursuant to these requirements, the Tenderer shall warrant that the information submitted is complete, current and accurate as at the date of submission to the Procuring Entity.
- **178** If a tenderer fails to submit the information required by these requirements, its tender will be rejected. Similarly, if the Procuring Entity is unable, after taking reasonable steps, to verify to a reasonable degree the information submitted by a tenderer pursuant to these requirements, then the tender will be rejected.
- 179 If information submitted by a tenderer pursuant to these requirements, or obtained by the Procuring Entity (whether through its own enquiries, through notification by the public or otherwise), shows any conflict of interest which could materially and improperly benefit the tenderer in relation to the procurement or contract management process, then:
- i) If the procurement process is still ongoing, the tenderer will bed is qualified from the procurement process,
- ii) if the contract has been awarded to that tenderer, the contract award will be set as if depending the outcome of (iii),
- iii) the tenderer will be referred to the relevant law enforcement authorities for investigation of whether the tenderer or any other person shave committed any criminal offence.
- 17.10If a tenderer submits information pursuant to these requirements that is in complete, in accurate or out-of- date, or attempts to obstruct the verification process, then the consequences ITT 17.8 will ensue unless the tenderer can show to the reasonable satisfaction of the Procuring Entity that any such act was not material, or was due to genuine error which was not attributable to the intentional act, negligence or recklessness of the tender.

#### **18.0 Period of Validity of Tenders**

- 18.1. Tenders shall remain valid for the Tender Validity period specified in the **TDS**. The Tender Validity period starts from the date fixed for the Tender submission deadline (as prescribed by the Procuring Entity in accordance with ITT 22). At ender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.
- 18.2 In exceptional circumstances, prior to the expiration of the Tender validity period, the Procuring Entity may request Tenderers to extend the period of validity of their Tenders. The request and the responses shallbe made in writing. If a Tender Security is requested in accordance with ITT 19, it shall also be extended for thirty (30) days beyond the deadline of the extended validity period. A Tenderer may refuse the request without forfeiting its Tender security. A Tenderer granting the request shall not be required or

permitted to modify its Tender.

#### **19.0 Tender Security**

- 19.1 The Tenderer shall furnish as part of its Tender, either a Tender-Securing Declaration or a Tender Security as specified in the TDS, in original form and, in the case of a Tender Security, in the amount and currency specified in the TDS. A Tender-Securing Declaration shall use the form included in Section IV, Tender Forms.
- **192** If a Tender Security is specified pursuant to ITT 19.1, the Tender Security shall be a demand guarantee inany of the following forms at the Tenderer's option:
- I) cash;
- ii) a bank guarantee;
- iii) a guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority listed by the Authority;
- (iv) a guarantee issued by a financial institution approved and licensed by the Central Bank of Kenya, from areputable source, and an eligible country.
- 193 If an unconditional bank guarantee is issued by a bank located outside Kenya, the issuing bank shall have a correspondent bank located in Kenya to make it enforceable. The Tender Security shall be valid for thirty

(30) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 18.2.

- 194 If a Tender Security or Tender-Securing Declaration is specified pursuant to ITT 19.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Procuring Entity as non-responsive.
- 195 If a Tender Security is specified pursuant to ITT 19.1, the Tender Security of unsuccessful Tenderers shall be returned as promptly as possible upon the successful Tenderer's signing the Contract and furnishing the

Performance Security and any other documents required in the TDS. The Procuring Entity shall also promptly return the tender security to the tenderers where the procurement proceedings are terminated, alltenders were determined non-responsive or a bidder declines to extend tender validity period.

- **196** The Tender Security of the successful Tenderer shall be returned as promptly as possible once the successful Tenderer has signed the Contract and furnished the required Performance Security, and any other documents required in the TDS.
- 19.7 The Tender Security may be forfeited or the Tender-Securing Declaration executed:
  - a) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on theForm of Tender, or any extension there to be provided by the Tenderer; or
  - b) if the successful Tenderer fails to: -
  - i) sign the Contract in accordance with ITT47; or
  - ii) furnish a Performance Security and if required in the TDS, and any other documents required in the TDS.
- **198** Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA to debar the Tenderer from participating in public procurement as provided in the

law.

- **199** The Tender Security or the Tender-Securing Declaration of a JV shall be in the name of the JV that submits the Tender. If the JV has not been legally constituted into a legally enforceable JV at the time of tendering, the Tender Security or the Tender-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITT 4.1 and ITT 11.2.
- 19.10 A tenderer shall not issue a tender security to guarantee itself.

#### 200 Format and Signing of Tender

- 201 The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 11 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 13, shall be clearly marked "ALTERNATIVE." In addition, the Tenderer shall submit copies of the Tender, in the number specified in the **TDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- **202** Tenderers shall mark as "CONFIDENTIAL" all information in their Tenders which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- **203** The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation as specified in the **TDS** and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender where entries or amendments have been made shall be signed or initialed by the person signing the Tender.
- **204** In case the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- **205** Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the personsigning the Tender.

# **D.SUBMISSION AND OPENING OF TENDERS**

#### 21.0 Sealing and Marking of Tenders

- 21.1 The Tenderer shall deliver the Tender in a single sealed envelope, or in a single sealed package, or in a single sealed container bearing the name and Reference number of the Tender, addressed to the Procuring Entity and a warning not to open before the time and date for Tender opening date. Within the single envelope, package or container, the Tenderer shall place the following separate, sealed envelopes:
  - a) in an envelope or package or container marked "ORIGINAL", all documents comprising the Tender, as described in ITT 11; and
  - b) in a envelope or package or container marked "COPIES", all required copies of the Tender; and
  - c) if alternative Tenders are permitted in accordance with ITT 13, and if relevant:

- i) in an envelope or package or container marked "ORIGINAL –ALTERNATIVE TENDER", thealternative Tender; and
- ii) in the envelope or package or container marked "COPIES- ALTERNATIVE TENDER", all required copies of the alternative Tender.

The inner envelopes or packages or containers shall:

- a) bear the name and address of the Procuring Entity,
- b) bear the name and address of the Tenderer; and
- c) bear the name and Reference number of the Tender.
- **212** If an envelope or package or container is not sealed and marked as required, the *Procuring Entity* will assume no responsibility for the misplacement or premature opening of the Tender. Tenders misplaced oropened prematurely will not be accepted.

#### 220 Deadline for Submission of Tenders

- 221 Tenders must be received by the Procuring Entity at the address specified in the **TDS** and no later than the date and time also specified in the **TDS**. When so specified in the **TDS**, tenderers shall have the option of submitting their Tenders electronically. Tenderers submitting Tenders electronically shall follow the electronic Tender submission procedures specified in the **TDS**.
- 222 The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the Tender Documents in accordance with ITT 8, in which case all rights and obligations of the ProcuringEntity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

#### 23.0 Late Tenders

The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of tenders, in accordance with ITT 22. Any Tender received by the Procuring Entity after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.

#### 240 Withdrawal, Substitution, and Modification of Tenders

- 241 A Tenderer may withdraw, substitute, or modify its Tender after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITT 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Tender must accompany the respective written notice. All notices mustbe:
- a) prepared and submitted in accordance with ITT 20 and ITT 21 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," "MODIFICATION;" and
- b) received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT 22.
- **242** Tenders requested to be withdrawn in accordance with ITT 24.1 shall be returned unopened to the Tenderers.
- 243 No Tender may be withdrawn, substituted, or modified in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified

by the Tenderer on the Form of Tender or any extension thereof.

# 25. Tender Opening

- **25.1** Except in the cases specified in ITT 23 and ITT 24.2, the Procuring Entity shall publicly open and read out all Tenders received by the deadline, at the date, time and place specified **in the TDS**, in the presence of Tenderers' designated representatives who chooses to attend. Any specific electronic Tender opening procedures required if electronic Tendering is permitted in accordance with ITT 22.1, shall be as specified in the **TDS**.
- 252First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelopes with the

corresponding Tender shall not be opened but returned to the Tenderer. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Tender opening.

- 253Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.
- 254Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Tender. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorizationtorequestthemodificationandisreadoutatTenderopening.
- 255Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Tenderer and whether there is a modification; the total Tender Price, per lot (contract) if applicable, including any discounts and alternative Tenders; the presence or absence of a Tender Security or Tender-Securing Declaration, if required; and any other details as the Procuring Entity may consider appropriate.
- 25.6Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further for evaluation. The Form of Tender and pages of the Bill of Quantities (to be decided onby the tender opening committee) are to be initialed by the members of the tender opening committee attending the opening.
- 25.7At the Tender Opening, the Procuring Entity shall neither discuss the merits of any Tender nor reject anyTender (except for late Tenders, in accordance with ITT 23.1).
- 25.8 The Procuring Entity shall prepare minutes of the Tender Opening that shall include, as a minimum:
  - a) the name of the Tenderer and whether there is a withdrawal, substitution, or modification;
  - b) the Tender Price, per lot (contract) if applicable, including any discounts;
  - c) any alternative Tenders;
  - d) the presence or absence of a Tender Security, if new as required;
  - e) number of pages of each tender document submitted.
- 259The Tenderers' representatives who are present shall be requested to sign the minutes. The omission of aTenderer's signature on the minutes shall not invalidate the contents

and effect of the minutes. A copy of the tender opening register shall be distributed to all Tenderers.

# E. EVALUATION AND COMPARISON OF TENDERS

# 26. Confidentiality

- 261 Information relating to the evaluation of Tenders and recommendation of contract award shall not be disclosed to Tenderers or any other persons not officially concerned with the Tender process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 43.
- 262 Any effort by a Tenderer to influence the Procuring Entity in the evaluation of the Tenders or Contract award decisions may result in the rejection of its tender.
- 263Notwithstanding ITT 26.2, from the time of tender opening to the time of contract award, if a tenderer wishes to contact the Procuring Entity on any matter related to the tendering process, it shall do so in writing.

# 27.0 Clarification of Tenders

- 271 To assist in the examination, evaluation, and comparison of the tenders, and qualification of the tenderers, the Procuring Entity may, at its discretion, ask any tenderer for a clarification of its tender, given a reasonable time for a response. Any clarification submitted by a tenderer that is not in response to a requestby the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the tender shall be sought, offered, or permitted, except to confirm the correction of arithmeticerrors discovered by the Procuring Entity in the evaluation of the tenders, in accordance with ITT 31.
- 272 If a tenderer does not provide clarifications of its tender by the date and time set in the Procuring Entity's request for clarification, its Tender may be rejected.

#### 28.0 Deviations, Reservations, and Omissions

28.1 During the evaluation of tenders, the following definitions apply: -

- a) "Deviation" is a departure from the requirements specified in the tender document;
- b) *"Reservation"* is the setting of limiting conditions or withholding from complete acceptance of therequirements specified in the tender document; and
- c) "*Omission*" is the failure to submit part or all of the information or documentation required in the Tenderdocument.

#### 29.0 Determination of Responsiveness

- **29.1** The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of thetender itself, as defined in ITT 11.
- **292** A substantially responsive Tender is one that meets the requirements of the Tender document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that, ifaccepted, would:
- a) Affect in any substantial way the scope, quality, or performance of the Works specified in the Contract;

- b) limit in any substantial way, inconsistent with the tender document, the Procuring Entity's rights or the tenderer's obligations under the proposed contract;
- c) if rectified, would unfairly affect the competitive position of other tenderers presenting substantially responsive tenders.
- **293** The Procuring Entity shall examine the technical aspects of the tender submitted in accordance with ITT 16, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.
- **294** If a tender is not substantially responsive to the requirements of the tender document, it shall be rejected by the Procuring Entity and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

#### 30.0 Non-material Non-conformities

- *30.1* Provided that a tender is substantially responsive, the Procuring Entity may waive any non-conformities in the tender.
- **30.2** Provided that a Tender is substantially responsive, the Procuring Entity may request that the tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify non-material non- conformities in the tender related to documentation requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the price of the tender. Failure of the tenderer to comply with the request may result in the rejection of its tender.
- **30.3** Provided that a tender is substantially responsive, the Procuring Entity shall rectify quantifiable non- material non-conformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified **in the TDS.**

# **31.0 Arithmetical Errors**

- **31.1**The tender sum as submitted and read out during the tender opening shall be absolute and final and shallnot be the subject of correction, adjustment or amendment in any way by any person or entity.
- **31.2**Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis: -
- a) Any error detected if considered a major deviation that affects the substance of the tender, shall lead to disqualification of the tender as non-responsive.
- b) Any errors in the submitted tender arising from a miscalculation of unit price, quantity, subtotal and total bid price shall be considered as a major deviation that affects the substance of the tender and shall lead to disqualification of the tender as non-responsive. and
- c) if there is a discrepancy between words and figures, the amount in words shall prevail

**31.3**Tenderers shall be notified of any error detected in their bid during the notification of award.

# **32.0** Conversion to Single Currency

For evaluation and comparison purposes, the currency(ies) of the Tender shall be converted in to a singlecurrency as specified in the **TDS**.

#### 330 Margin of Preference and Reservations

- **331** A margin of preference may be allowed only when the contract is open to international competitive tendering where foreign contractors are expected to participate in the tendering process and where the contract exceeds the value/threshold specified in the Regulations.
- 332 A margin of preference shall not be allowed unless it is specified so in the TDS.
- **333** Contracts procured on basis of international competitive tendering shall not be subject to reservations exclusive to specific groups as provided in ITT 33.4.
- 334 Where it is intended to reserve a contract to a specific group of businesses (these groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of persons living with disability, as the case may be), and who are appropriately registered as such by the authority to be specified in the **TDS**, a procuring entity shall ensure that the invitation to tender specifically indicates that only businesses or firms belonging to the specified group are eligible to tender. No tender shall be reserved tomore than one group. If not so stated in the Invitation to Tender and in the Tender documents, the invitation to tender will be open to all interested tenderers.

#### 34.0 Nominated Subcontractors

- 34.1 Unless otherwise stated in the **TDS**, the Procuring Entity does not intend to execute any specific elements of the Works by subcontractors selected/nominated by the Procuring Entity. In case the Procuring Entity nominates a subcontractor, the subcontract agreement shall be signed by the Subcontractor and the Procuring Entity. The main contract shall specify the working arrangements between the main contractor and the nominated subcontractor.
- 342 Tenderers may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the **TDS**. Subcontractors proposed by the Tenderer shall be fully qualified for theirparts of the Works.
- **343** Domestic subcontractor's qualifications shall not be used by the Tenderer to qualify for the Works unless their specialized parts of the Works were previously designated so by the Procuring Entity in the **TDS** a scan be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Tenderer may be added to the qualifications of the Tenderer.

# 35. Evaluation of Tenders

- 35.1 The Procuring Entity shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification Criteria No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Procuring Entity shall determine the Lowest Evaluated Tender in accordance with ITT 40.
- 352 To evaluate a Tender, the Procuring Entity shall consider the following:
- a) price adjustment in accordance with ITT 31.1 (iii); excluding provisional sums and contingencies, if any, but including Day work items, where priced competitively;
- b) price adjustment due to discounts offered in accordance with ITT 14.4;
- c) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency inaccordance with ITT 32;

- d) price adjustment due to quantifiable non material non-conformities in accordance with ITT 30.3; and
- e) any additional evaluation factors specified in the **TDS** and Section III, Evaluation and Qualification Criteria.
- 353 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be considered in Tender evaluation.
- 354 Where the tender involves multiple lots or contracts, the tenderer will be allowed to tender for one or morelots (contracts). Each lot or contract will be evaluated in accordance with ITT 35.2. The methodology to determine the lowest evaluated tenderer or tenderers base done lot (contract) or based on a combination oflots (contracts), will be specified in Section III, Evaluation and Qualification Criteria. In the case of multiple lots or contracts, tenderer will be required to prepare the Eligibility and Qualification Criteria Form for each Lot.

#### 36.0 Comparison of tenders

The Procuring Entity shall compare the evaluated costs of all substantially responsive Tendersestablished in accordance with ITT 35.2 to determine the Tender that has the lowest evaluated cost.

#### 37.0 Abnormally low tenders and abnormally

#### high tendersAbnormally Low Tenders

- 37.1 An Abnormally Low Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regards to the Tenderer's ability to perform the Contract for the offered Tender Price or that genuine competition between Tenderers is compromised.
- 372 In the event of identification of a potentially Abnormally Low Tender, the Procuring Entity shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Tender document.
- 373 After evaluation of the price analyses, in the event that the Procuring Entity determines that the Tendererhas failed to demonstrate its capability to perform the Contract for the offered Tender Price, the ProcuringEntity shall reject the Tender.

#### Abnormally high tenders

- 374 An abnormally high tender price is one where the tender price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between Tenderers is compromised.
- 375 In case of a nab normally high price, the Procuring Entity shall make a survey of the market prices, checkif the estimated cost of the contract is correct and review the Tender Documents to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high tenders. The Procuring Entity may also seek written

clarification from the tenderer on the reason for the high tender price. The Procuring Entity shall proceed as follows:

- i) If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entitymay accept or not accept the tender depending on the Procuring Entity's budget considerations.
- ii) If specifications, scope of work and/or conditions of contract are contributory to the abnormally high tender prices, the Procuring Entity shall reject all tenders and may retender for the contract based on revised estimates, specifications, scope of work and conditions of contract, as the case may be.
- 37.6 If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (*often due to collusion, corruption or other manipulations*), the Procuring Entity shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise, before retendering.

#### 380 Unbalanced and/ or front-loaded tenders

- **381** If in the Procuring Entity's opinion, the Tender that is evaluated as the lowest evaluated price is seriouslyunbalanced and/or frontloaded, the Procuring Entity may require the Tenderer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the tender prices with the scope of works, proposed methodology, schedule and any other requirements of the Tender document.
- **382** After the evaluation of the information and detailed price analyses presented by the Tenderer, the ProcuringEntity may as appropriate:
- a) accept the Tender;
- b) require that the total amount of the Performance Security be increased at the expense of the Tenderer to alevel not exceeding a 30% of the Contract Price;
- c) agree on a payment mode that eliminates the inherent risk of the Procuring Entity paying too much forundelivered works;
- d) reject the Tender,

#### 39.0 Qualifications of the tenderer

- **39.1** The Procuring Entity shall determine to its satisfaction whether the eligible Tenderer that is selected as having submitted the lowest evaluated cost and substantially responsive Tender, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.
- **392** The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 17. The determination shall not take into consideration the qualifications of other firms such as the Tenderer's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Sub-contractors if permitted in the Tender document), or any otherfirm(s) different from the Tenderer.
- **393** An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in disqualification of the Tender, in which event the Procuring Entity shall proceed to the Tenderer who offers a substantially responsive Tender with the next lowest evaluated price to make a similar determination of that Tenderer's qualifications to perform satisfactorily.

#### 40.0 Lowest evaluated tender

- Having compared the evaluated prices of Tenders, the Procuring Entity shall determine the Lowest EvaluatedTender. The Lowest Evaluated Tender is the Tender of the Tenderer that meets the Qualification Criteria and whose Tender has been determined to be:
- a) Most responsive to the Tender document; and
- b) the lowest evaluated price.

#### 41.0 Procuring entity's right to accept any tender, and to reject any or all tenders.

The Procuring Entity reserves the right to accept or reject any Tender and to annul the Tender process and reject all Tenders at any time prior to Contract Award, without there by incurring any liability to Tenderers. In case of annulment, all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.

# F. AWARD OF CONTRACT

#### 42.0 Award criteria

The Procuring Entity shall award the Contract to the successful tenderer whose tender has been determined to be the Lowest Evaluated Tender.

#### 430 Notice of Intention to Enter into a Contract/Notification of Award

Upon award of the contract and Prior to the expiry of the Tender Validity Period the Procuring Entity shall issue a Notification of Intention to Enter into a Contract/Notification of award to all tenderers which shall contain, at a minimum, the following information:

- a) the name and address of the Tenderer submitting the successful tender;
- b) the Contract price of the successful tender;
- c) a statement of the reason(s) the tender of the unsuccessful tenderer to whom the letter is addressed was unsuccessful, unless the price information in (c) above already reveals the reason;
- d) the expiry date of the Standstill Period; and
- e) instruction son how to request a debriefing and/ or submit a complaint during the stand still period;

# 44.0 Stand still Period

- **44.1** The Contract shall not be signed earlier than the expiry of a Standstill Period of 14 days to allow any dissatisfied tender to launch a complaint. Where only one Tender is submitted, the Standstill Period shallnot apply.
- **44.2** Where a Standstill Period applies, it shall commence when the Procuring Entity has transmitted to each Tenderer the Notification of Intention to Enter into a Contract with the successful Tenderer.

# 450 Debriefing by the Procuring Entity

**451** On receipt of the Procuring Entity's Notification of Intention to Enter into a Contract referred to in ITT 43, an unsuccessful tenderer may make a written request to the

Procuring Entity for a debriefing on specific issues or concerns regarding their tender. The Procuring Entity shall provide the debriefing within five days of receipt of the request.

**452** Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its owncosts of attending such a debriefing meeting.

# 46.0 Letter of Award

Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT 42.1, upon addressing a complaint that has been filed with in the Standstill Period, the Procuring Entity shall transmit the Letter of Award to the successful Tenderer. The letter of award shall request the successful tenderer to furnish the Performance Security within 21 days of the date of the letter.

# 47.0 Signing of Contract

- **47.1** Upon the expiry of the fourteen days of the Notification of Intention to enter in to contract and upon the parties meeting their respective statutory requirements, the Procuring Entity shall send the successful Tenderer the Contract Agreement.
- **47.2** Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and return it to the Procuring Entity.
- **47.3** The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period.

# **48.0** Performance Security

- **48.1** Within twenty-one (21) days of the receipt of the Letter of Award from the Procuring Entity, the successful Tenderer shall furnish the Performance Security and, any other documents required in the **TDS**, in accordance with the General Conditions of Contract, subject to ITT 38.2 (b), using the Performance Security and other Forms included in Section X, Contract Forms, or another form acceptable to the Procuring Entity. A foreign institution providing a bank guarantee shall have a correspondent financial institution located in Kenya, unless the Procuring Entity has agreed in writing that a correspondent bank isnot required.
- **48.2** Failure of the successful Tenderer to submit the above-mentioned Performance Security and other documents required in the **TDS** or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the Tenderer offering the next Best Evaluated Tender.
- **48.3** Performance security shall not be required for contracts estimated to cost less than the amount specified in the Regulations.

# **49.0 Publication of Procurement Contract**

- Within fourteen days after signing the contract, the Procuring Entity shall publish the awarded contract at its notice boards and websites; and on the Website of the Authority. At the minimum, the notice shall contain the following information:
- a) name and address of the Procuring Entity;
- b) name and reference number of the contract being awarded, a summary of its scope and the

selection methodused;

- c) the name of the successful Tenderer, the final total contract price, the contract duration;
- d) dates of signature, commencement and completion of contract;
- e) names of all Tenderers that submitted Tenders, and their Tender prices as readout at Tender opening.

# 50.0 Procurement related Complaint

The procedures for making Procurement-related Complaints are as specified in the TDS.

Section II – Tender Data Sheets (TDS)

The following specific data shall complement, supplement, or amend the provisions in the Instructions to Tenderers (ITT). Whenever there is a conflict, the provisions herein shall prevail over those in ITT

A. General	
ITT1.1	The Name of the Contract is: PLUMBING AND DRAINAGE INSTALLATION WORKS FOR         PROPOSED CONSTRUCTION OF A LIBRARY BLOCK AT KAIMOSI FRIENDS         UNIVERSITY COLLEGE         The Reference Number of the Contract is KAFUCO/003/LIB/2021-2022         The Number and Identification of Lots (Contracts) Comprising this Tender are: None
ITT2.3	The information made available on competing firms is as follows;
1112.3	Bill Of Ouantities         Drawings         Bank Statements         Audited Bank Accounts         Personnel Academic and Professional Qualifications
ITT2.4	The firms that provided consulting services for the contract being tendered for are:- <u>STATE DEPARTMENT FOR PUBLIC WORKSP. O. BOX 30743-00100, NAIROBI</u> <u>The roles are defined as follows: Project Manager – Works SecretaryArchitect - Chief</u> <u>Architect</u> <u>Quantity Surveyor - Chief Quantity Surveyor Structural Engineer - Chief Structural</u> <u>EngineerElectrical Engineer - Chief Electrical Engineer</u> <u>Mechanical Engineer - Chief Mechanical Engineer</u>
ITT 3.1	Maximum number of members in the Joint Venture (JV) shall be: <u>One(1)</u>
B. Content	ts of Tender Document
ITT 7.1	The tenderer will submit any request for clarifications in writing at the Address: <u>procurement @kafuco.ac.ke</u> or Kaimosi Friends University College P.O. Box 385 – 50309 <u>Kaimosi</u> To reach the procuring Entity no later than <u>3 days to the date of submission of tenders</u> The Procuring entity shall publish its response at the website: <u>kafuco.ac.ke</u>
ITT 7.2	<ul> <li>(A) A pre-arranged pretender site visit <u>Shall Not</u> take place at the following date, time and place:</li> <li>Date: <u>Not Applicable</u></li> <li>Time</li> <li>Place:</li> </ul>

	(B) Pre-Tender meeting <u>Shall</u> take place at the following date, time and place:Date: <u>As</u> <u>Stated In The Invitation To Tender</u>
	Time Place:Kaimosi friends university college(MAIN CAMPUS)
ITT 7.3	The Tenderer will submit any questions in writing, to reach the Procuring Entity not later than <u>One</u> (1) day before the meeting.
ITT 7.5	The Procuring Entity's website where Minutes of the pre-Tender meeting and the pre- arranged
111 7.5	pretender will be published is www. <u>kafuco.ac.ke</u>
ITT 9.1	For Clarification of Tender purposes, for obtaining further information and for purchasingtender documents, the Procuring Entity's address is: <i>Name of Procuring Entity</i>
	Kaimosi Friends University College, Kaimosi – Vihiga CountyAlong kaimosi – kapsabet road. Tender Box provided outside the principal board room, administration block
	Postal Address: P.O. Box 385 – 50309, Kaimosi Contact person: Head of Supply Chain, Kaimosi Friends University College, Kaimosi Telephone number: +254 777 373 633 E-mail address:procurement@kafuco.ac.ke
C. Preparat	ion of Tenders
ITT 13.1	Alternative Tenders <u>SHALL NOT BE</u> considered.
ITT 18.3	The Number of days beyond the expiry of the initial tender validity period will be <u><i>Thirty (30)</i></u> days. The Tender price shall be adjusted by the following percentages of the tender price:
	By <u>NIL%</u> the local currency portion of the Contract price adjusted to reflect localinflation during the period of extension, and By <u>NIL</u> % the foreign currency portion of the Contract price adjusted to reflect the international inflation during the period of extension.
ITT19.1	Tender shall provide Tender Security. The type of Tender security shall be Bank Guarantee in the amount of 1% of the contract Sum
ITT20.1	In addition to the original of the Tender, the number of copies is: <u>NONE</u>
ITT20.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of: <u>Written Power of Attorney</u>
	ion and Onening of Tandam
D. Submiss ITT22.1	ion and Opening of Tenders For <u>Tender submission purposes</u> only, the Procuring Entity's address is:
	Name of Procuring Entity; Kaimosi Friends University College (KAFUCO) Postal Address: P.O. Box 385 – 50309, Kaimosi Attention: Principal, Kaimosi Friends

Tender Box provided outside the principal board room, administration block         Physical address;         Kaimosi Friends University College, Kaimosi – Vihiga CountyAlong kaimosi – kapsabet         road.         Date and time for submission of Tenders: As Indicated In The Invitation To Tender         Tenders shall SHALL NOT SUBMIT tenders electronically.         TTT25.1       The Tender opening shall take place at the time and the address for Opening of Tenders         Provided below: or as indicated in the tender advertisement         Name of Procuring Entity; Kaimosi Friends University College (KAFUCO)         Physical address for the location: The principal board room, administration block         State date and time of tender opening. As Indicated In The Invitation To Tender         TTT25.1       If Tenderers are allowed to submit Tenders electronically, they shall follow the electronic tendersubmission procedures specified below. Nat Applicable         TTT25.5       The number of representatives of the Procuring Entity to sign is As directed by procuring entity)         E. Evaluation, and Comparison of Tenders         TT30.3       The adjustment shall be based on the AVERAGE price of the item or component as quoted in other substantially responsive Tenders. If the price of the item or component cannot be derived from the price of other substantially responsive Tenders. If the price of the item or component cannot be derived from the price of preference shall not apply.         TTT33.2       A margin of preference shall not apply.	r	
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<ul> <li>Name of Procuring Entity: Kaimosi Eriends University College (KAEUCO) Physical address for the location: The principal board room, administration block State date and time of tender opening. As Indicated In The Invitation To Tender ITT25.1 If Tenderers are allowed to submit Tenders electronically, they shall follow the electronic tendersubmission procedures specified below. Not Applicable</li> <li>TTT25.5 The number of representatives of the Procuring Entity to sign is As directed by procuring entity)</li> <li>E. Evaluation, and Comparison of Tenders</li> <li>TTT30.3 The adjustment shall be based on the <u>AVERAGE</u> price of the item or component as quoted in othersubstantially responsive Tenders. If the price of the item or component cannot be derived from the price of other substantially responsive Tenders, the Procuring Entity shall use its best estimate.</li> <li>TT33.2 A margin of prefrence <u>shall not</u> apply.</li> <li>TTT33.4 The invitation to tender is extended to the following group that qualify for Reservations Not Applicable</li> <li>TTT34.1 At this time, the Procuring Entity <u>does not intend</u> to execute certain specific parts of the Works by subcontractors selected in advance.</li> <li>TT34.2 Contractor's may propose subcontracting: Maximum percentage of subcontracting permitted is: 25% of the total contract amount. Tenderers planning to subcontracting permitted is: 25% of the total contract sores are designated as follows: N/A For the above-designated parts of the Works that may require Specialized Subcontractors, the relevant qualifications of the proposed Specialized Subcontractors will be added to the qualifications of the Tenderer for the purpose of evaluation.</li> <li>TT34.1 The procures required in addition to the Performance Security are Not Applicable</li> <li>TT34.3 Other documents required in addition to the Performance Security are Not Applicable</li> <li>TT34.3 The proceed specialized Subcontractors will be added to the moltifications of</li></ul>	11123.1	
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others):		

the terms of the Tender Documents; and
the Procuring Entity's decision to award the contract.

#### SECTION III - EVALUATION AND QUALIFICATION CRITERIA

#### GENERAL PROVISIONS

- 10 This section contains the criteria that the Employer shall use to evaluate tender and qualify tenderers.No other factors, methods or criteria shall be used other than specified in this tender document. The Tenderer shall provide all the information requested in the forms included in Section IV, Tendering Forms. The Procuring Entity shall use <u>the Standard Tender Evaluation Document for Goods and Works</u> for evaluating Tenders.
- **11** Wherever a Tenderer is required to state a monetary amount, Tenderers should indicate the Kenya Shilling equivalent using the rate of exchange determined as follows:
  - a) For construction turnover or financial data required for each year Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted)was originally established.
  - b) Value of single contract Exchange rate prevailing on the date of the contract signature.
  - (c) Exchange rates shall be taken from the publicly available source identified in the ITT 14.3. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

#### 12 EVALUATION AND CONTRACT AWARD CRITERIA

The Procuring Entity shall use the criteria and methodologies listed in this Section to evaluate tenders and arrive at the Lowest Evaluated Tender. The tender that (i) meets the qualification criteria, (ii) has been determined to be substantially responsive to the Tender Documents, and (iii) is determined to have the Lowest Evaluated Tender price shall be selected for award of contract.

#### 2.0 PRELIMINARY EXAMINATION FOR DETERMINATION OF

#### **RESPONSIVENESS Preliminary examination for Determination of**

#### Responsiveness

The Procuring Entity will start by examining all tenders to ensure they meet in all respects the eligibility criteria and other mandatory requirements in the ITT, and that the tender is complete in all aspects inmeeting the requirements provided for in the preliminary evaluation criteria outlined below. The Standard Tender Evaluation Report Document for Goods and Works for evaluating Tenders provides very clear guide on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be considered non- responsive and will not be considered further.

S/No	MANDATORY REQUIREMENTS(MR)
MR1	Certified Copy of certificate of incorporation/ Registration.
MR2	Certified Current Tax Compliance Certificate from Bidding Company, and if Consortium, from each member of the consortium.
MR3	Submission of valid CR12 form showing the list of directors /shareholding (issued within the last 12 months) or National Identity Card(s) for Sole Proprietorship / Partnership
MR4	Over Five years' experience in works of similar nature-Attach Contracts
MR5	Dully filled form of tender, stamped and signed
MR6	Dully filled and signed Confidential business questionnaire
MR7	Duly signed and stamped Statement of compliance.
MR8	Certified Copy of Current Single Business permit
MR9	The Tender Security (Bid Bond) of <b>Ksh. 850,000.00</b> in form of Bank Guarantee from areputable bank or insurance company approved by Public Procurement Regulatory Authority (PPRA).
MR11	Provide proof of authorization (in form of a Power of attorney signed by commissioner of oaths).
<b>MR12</b>	Annual practicing license in building works/water
MR13	Bidders must have their document paginated /Serialization of all pages including all attachment and the Copy of the document must have the same page number as the original document. Tender with repeated pages' number and any other inconsistencies will be rejected. (not hand written)
MR14	Litigation history Attach a sworn affidavit within the last 3 months from the date of tender opening and closing
MR15	Must not have a project with Kaimosi Friends University that has been terminated or behind schedule.

# **TECHNICAL EVALUATION**

#### **EVALUATION**

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

	TABLE 1				
Item	Description	Point Score d	Max. Point		
i	Statement of Compliance		1		
	Signed and stamped1				
	Not signed nor stamped0				
ii	Tender Questionnaire Form		1		
	Completely filled1				
	Not filled0				
iii	Confidential Business Questionnaire Form.		1		
	Completely filled1				
	Not filled0				
iv	Key Personnel to be engaged on the project (Attach copies of certificates)		20		
	Project manager of the firm		6		
	<ul> <li>Holder of degree in</li> </ul>				
	civil/mechanical/mechatronic				
	Engineering6				
	<ul> <li>Ditto with Diploma2</li> </ul>				
	<ul> <li>Ditto with certificate <u>1</u></li> </ul>				
	No relevant certificate 0				
	At least 1 No. degree holder of key personnel		6		
	in Mechanical/Mechatronic Engineering				
	• With over 10 years' relevant experience 6				
	<ul> <li>With over 5 years' relevant experience - 2</li> <li>With under 5 years relevant experience 1</li> </ul>				

r		(
	At least 2 No Diploma holder of key personnel	6
	in Mechanical/Mechatronic Engineering	
	• With over 10 years' relevant experience 6	
	• With over 5 years' relevant experience -2	
	With under 5 years relevant experience 1	
	At least 2 No Certificate holder in	5
	Mechanical Engineering	
	With over 10 years' relevant experience5	
	With under than 10 years' experience 0	
v	Contract completed in the last five (5) years (A max of	10
•	3 No. Projects) Shall attach Completion Certificates.	10
	<ul> <li>Project of similar nature and contract value of</li> </ul>	
	more than 100Million3	
	<ul> <li>Project of similar nature but of contract value</li> </ul>	
	less than 100million but more than 50million	
	2	
	<ul> <li>Project of similar nature but value less than</li> </ul>	
	50million 1	
	No project of similar nature 0	
vi	On-going projects (A max of 3 No. Projects) Shall	9
	attach Notification of award or Contract	
	Agreements.	
	<ul> <li>Project of similar nature and contract value of</li> </ul>	
	more than 100Million9	
	<ul> <li>Project of similar nature but of contract value</li> </ul>	
	less than 100million but more than 50million	
	2	
	• Project of similar nature but value less than	
	50million1	
vii	No project of similar nature0Schedules of contractors equipment and transport (Shall attach	
VII	proof or evidence of ownership by the company or director, if	8
	owned or and indicate the ability to lease (attach letter from the	0
	lessor), if leased)	
	o Any relevant equipment to be used in the	
	installation of the works tendered for.	
	(Maximum No. of equipment to be considered –	
	4No.)2 Marks for each equipment	
	No Schedule of contractors equipment -0 marks	
	Annual audited financial reports (last three (3) years) together with six months' bank statement.	5
	• At least one of the annual turnover greater or	
	equal to 5 times the cost of the project5	
	• At least one of the annual turnover greater or	
	equal to 3 times the cost of project 3	

• At one of the annual turnover greater or equal to	
the cost of the project2	
Annual turnover below the cost of the project 1	
Evidence of financial resources (cash in hand, lines of credit, overdraft facility etc)	5
Cash in hand and lines of credit:	
Of more than 30% of tender sum7	
Of between 20% and 30% of tender sum5	
Of between 10% and 20% of tender sum3 Below 10% of tender sum 1	
Name, address and telephone of banks (Contractor	2
to provide) • Provided and fully filled 2 Not provided 0	
Litigation History         • Filled and certified by commissioner of oaths2         Not filled0         Having mutilated or modified the tender document	2
0	
Sanctity of tender documents	2
<ul> <li>Having the document intact (not tampered with in any way)</li> </ul>	
2	
Presentation of evidences and attachments in	5
prescribed format	
<ul> <li>Arranged in prescribed format</li></ul>	
Provide a a detailed work methodology relevant to the proposed works 11 Not provided0	11
TOTAL TECHNICAL SCORE (TS)	100

The Tenderer who will meet 70 % marks in Technical Evaluation shall be subjected into financial ranking.

#### **Financial Evaluation**

The successful tender shall be the one with the lowest evaluated price.

S/No	Name of Tender	Tender price	Lowest Bidder
1.			

Only bidders who score 70 marks and above will be subjected to financial evaluation. Those who score below 70 marks will be eliminated at this stage from the entire evaluation process and will not be considered further

- 1) This will include the following:
  - a) Confirmation of and considering Bill of Quantities completed and signed.
  - b) Conducting a financial comparison for the firms that passed technical evaluation
- 2) Tenders shall also be checked for errors, inconsistencies and frontloading.

The following tenders shall be automatically disqualified.

- i) Tenders with an arithmetic error of more than 5%, unless the tenderers demonstrate and confirm in writing that they will satisfactorily deliver
- ii) Tenders that are frontloaded, unless the tenderer (if successful) agrees with the employer on interim certificates payment plan that do not disadvantage the employer and enhancement of performance security
- iii) Tenders that have errors or inconsistencies in pricing that are significant enough tocause distortion in a successful contractor's cash flow or put the client in a contractually unfavorable or risky position.

#### Post qualification and Contract ward

Kaimosi Friends University shall carry out due diligence on the successful **tabs**to seek information on the validity and authenticity of the documents submitted by the tenderer prior to tender award.

Any bidder who shall be found to have supplied false or misleading information shall be disqualified and the next lowest tender that has passed stage 1 shall be considered.

Record of unsatisfactory or default in performance obligations in any contract shall also be considered at this stage. This shall include any tenderer with unresolved case(s) in its performance obligations for more than two (2) months in any contract. These bidders shall be shall be disqualified and the next lowest tender that has passed stage 1 shall be considered.

#### AWARD OF CONTRACT

The tender will be awarded to the successful tenderer whose tender has been determined be substantially responsive, determined to be the lowest evaluated bidder/tenderer, and is qualified to perform the contract satisfactorily.

#### 40 MULTIPLE CONTRACTS

41 Multiple contracts will be permitted in accordance with ITT 35.4. Tenderers are evaluated onbasis of Lots and a lowest evaluated tenderer identified for each Lot. The Procuring Entity will select one Option of the two Options listed below for award of Contracts.

#### **OPTION 1**

- (i) If a tenderer wins only one Lot, the tenderer will be awarded a contract for that Lot, provided the tenderer meets the Eligibility and Qualification Criteria for that Lot.
- (ii) If a tenderer wins more than one Lot, the tender will be awarded a contract for all won Lots, provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the won Lots. The tenderer will be awarded only the combinations for which the tenderer qualifies and the others will be considered for award to second lowest the tenderers.

#### **OPTION2**

The Procuring Entity will consider all possible combinations of won Lots [contract(s)] and determine the combination with the lowest evaluated price. Tenders will then be awarded to the Tenderer or Tenderers in the combination provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the won Lots.

#### 5.0 ALTERNATIVE TENDERS

#### (ITT 13.1)Alternative Tenders

#### (ITT 13.1)

Analternative if permitted under ITT 3.1, will be evaluated as follows:

The Procuring Entity shall consider Tenders offered for alternatives as specified in Part 2 - Works requirements. Only the technical alternatives, if any, of the Tenderer with the Best Evaluated Tenderconforming to the basic technical requirements shall be considered by the Procuring Entity.

#### 60 MARGIN OF PREFERENCE

- **61** If the TDS so specifies, the Procuring Entity will grant a margin of preference of fifteen percent (15%) to be loaded on evaluated prices of the foreign tenderers, where the percentage of shareholding of Kenyan citizens is less than fifty- one percent (51%).
- 62 Contractors shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contractor or group of contractors qualifies for a margin of preference.

- 63 After Tenders have been received and reviewed by the Procuring Entity, responsive Tenders shall be assessed to ascertain their percentage of shareholding of Kenyan citizens. Responsive tenders shall be classified into the following groups:
  - i) *Group A:* tenders offered by Kenyan Contractors and other Tenderers where Kenyan citizens holdshares of over fifty one percent (51%).
  - ii) *Group B:* tenders offered by foreign Contractors and other Tenderers where Kenyan citizens holdshares of less than fifty one percent (51%).
- 64 All evaluated tenders in each group shall, as a first evaluation step, be compared to determine the lowest tender, and the lowest evaluated tender in each group shall be further compared with each other. If, as a result of this comparison, a tender from Group A is the lowest, it shall be selected for the award of contract. If a tender from Group B is the lowest, an amount equal to the percentage indicated in Item 6.1 of the respective tender price, including unconditional discounts and excluding provisional sums and the cost of day works, if any, shall be added to the evaluated price offered in each tender from Group B and the lowest evaluated tender from Group A. If the tender from Group A is still the lowest tender, it shall beselected for award. If not, the lowest evaluated tender from Group B based on the first evaluation price shall be selected.

#### 7. Post qualification and Contract ward (ITT 39), more specifically,

- a) In case the tender <u>was subject to post-qualification</u>, the contract shall be awarded to the lowest evaluated tenderer, subject to confirmation of pre-qualification data, if so required.
- b) In case the tender <u>was not subject to post-qualification</u>, the tender that has been determined to be he lowest evaluated tenderer shall be considered for contract award, subject to <u>meeting each of the following conditions</u>.
- The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered realassets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow of Kenya Shillings <u>10,000,000</u>
- ii) Minimum <u>average</u> annual construction turnover of Kenya Shillings <u>20,000,000</u> equivalent calculated as total certified payments received for contracts in progress and/or completed within the last <u>3</u> years.
  - iii) At least <u>4</u> of contract(s) of a similar nature executed within Kenya, or the East African Community or a broad, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of minimum value Kenya shillings <u>20,000,000</u> equivalent.
  - iv) Contractor's Representative and Key Personnel, which are specified as below

iv) Other conditions depending on their seriousness.

#### a) History of non-performing contracts:

Tenderer and each member of JV in case the Tenderer is a JV, shall demonstrate that Non- performance of a contract did not occur because of the default of the Tenderer, or the member of a JV in the last 2 years. The required information shall be furnished in the appropriate form.

#### b) Pending Litigation

Financial position and prospective long-term profit ability of the Single Tenderer, and in the case the Tenderer is a JV, of each member of the JV, shall remain sound according to criteria established with respect to Financial Capability under Paragraph (i) above if all pending litigation will be resolved against the Tenderer. Tenderer shall provide information on pending litigations in the appropriate form.

#### c) Litigation History

There shall be no consistent history of court/arbitral award decisions against the Tenderer, inthe last **2** years. All parties to the contract shall furnish the information in the appropriate formabout any litigation or arbitration resulting from contracts completed or on going under its execution over the years specified. A consistent history of awards against the Tenderer or any member of a JV may result in rejection of the tender.

# **QUALIFICATION FORM\***

1	2	3	4	5
Item No.	Qualification Subject	Qualification Requirement	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met orNot Met)
1.	Nationality	Nationality in accordance with ITT 3.6	Forms ELI - 1.1 and 1.2, with attachments	
2.	Tax Obligations for KenyanTenderers	Has produced a current tax clearance certificate or tax exemption certificate issued by Kenya Revenue Authority in accordance with ITT 3.14.	Attachment	
3.	Conflict of Interest	No conflicts of interest in accordance with ITT 3.3	Form of Tender	
4.	PPRA Eligibility	Not having been declared ineligible by the PPRA as described in ITT 3.7	Form of Tender	
5.	State – Owned Enterprise	Meets conditions of ITT 3.8	Forms ELI - 1.1 and 1.2, with attachments	
6.	Goods, equipment and services to be supplied under the contract	To have their origin in any country that is not determined ineligible underITT 4.1	Forms ELI - 1.1 and 1.2, with attachments	
7.	History of Non- PerformingContracts	Non-performance of a contract did not occur as a result of contractor default since 1 <sup>st</sup> January 2019.	Form CON-2	
8.	Suspension Based on Execution of Tender / Proposal Securing Declaration by the Procuring Entity	Not under suspension based on-execution of a Tender/Proposal SecuringDeclaration pursuant to ITT 19.9	Form of Tender	

9.	Pending Litigation	Tender's financial position and prospective long-term profitability stillsound according to criteria established in 3.1 and assuming that all pending litigation will NOT be resolved against the Tenderer.	Form CON-2
10	Litigation History	No consistent history of court/arbitral award decisions against thetenderer since 1 <sup>st</sup> January 2019	Form CON - 2
11	Financial Capabilities	(i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advancepayment) sufficient to meet the construction cash flow requirements estimated as Kenya Shillings 10,000,000.00 equivalent for the subject contract(s) net of the Tenderer's other	Form FIN - 3.1, withattachments

1	2	3	4	5
Item No.	Qualification Subject	Qualification Requirement	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met orNot Met)
		<ul> <li>commitments.</li> <li>(ii) The Tenderers shall also demonstrate, to the satisfaction of the Procuring Entity, that it has adequate sources of finance to meet the cashflow requirements on works currently in progress and for future contract commitments.</li> <li>(iii) The audited balance sheets or, if not required by the laws of the Tenderer's country, other financial statements acceptable to the Procuring Entity, for the last <i>Three [3]</i> years shall be submitted and must demonstrate the current soundness of the Tenderer's financial position and indicate its prospective long-term profitability.</li> </ul>		
12.	Average Annual Construction Turnover	Minimum average annual construction turnover of <i>Kenya</i> <i>Shillings 20,00,000,000.00</i> , equivalent calculated as total certified payments received for contracts in progress and/or completed within the last Three (3) years, divided by three years	Form FIN - 3.2	
13.	General Construction Experience	Experience under construction contracts in the role of plumbing and drainage (sub)contractor for at least the last Five [5] years, starting 1st January 2017.	<b>4</b> . Form EXP - 4.1 <b>Experience</b>	

14	Specific Construction & Contract Management Experience	A minimum number of <i>Five (5)</i> similar contracts specified below that have been satisfactorily and substantially completed as a plumbing and drainage sub-contractor between <i>1st January 2017</i> and tender submissiondeadline i.e. <i>Five (5)</i> contracts, each of minimum value <i>Kenya shillings,</i> <i>10,0000,000.00</i> equivalent. [In case the Works are to be tender as individual contracts under multiple contract procedure, the minimum number of contracts required for purposes of evaluating qualification shallbe selected from the options mentioned in ITT 35.4} The similarity of the contracts shall be based on the following: [ <i>Based on Section VII, Scope of Works, specify the minimum key requirements in terms of physical size, complexity, construction method, technology and/or other characteristics including part of therequirements that may be met by specialized subcontractors, if permitted in accordance with ITT 34.3</i>	Form EXP 4.2(a)

#### **SECTION IV - TENDERING FORMS**

#### **QUALIFICATION FORMS**

#### **1. FOREIGN TENDERERS 40% RULE**

Pursuant to ITT 3.9, a foreign tenderer must complete this form to demonstrate that the tender fulfils this condition.

Ite m	Description of Work Item	Describe Location of Source	Cost in K. Shilling s	Comments ifAny
Α	Local Labour			
1				
2				
3				
4				
5				
B	Sub-Contracts from	Local Sources		1
1				
2				
3				
4				
5				
<b>C</b>	Local Materials			
2				
3				
4				
5				
D				
1				
2				
3				
4				
5				
E				1
1				
2				
3				
4				
5				
	TOTAL COST OF LO	DCAL CONTENT		
	PERCENTAGE OF C			

#### 2. FORM EOU: EOUIPMENT

The Tenderer shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria. A separate Formshall be prepared for each item of equipment listed, or for alternative equipment proposed by the Tenderer.

Item of Equ	ipment		
Equipment	iipment Name of Manufacturer	Model and Power Rating	
Informatio			
n			
Current	Capacity	Year of Manufacture	
	Current Location		
	Indicate source of the equipment		
	☐ Owned ☐ Rented ☐ Leased lowing information for equipment owned Name of Owner	Specially Manufactured	
Omit the fol	lowing information for equipment owned	by the tenderer	
0	Address of Owner		
Owner		- <u>-</u>	
	Telephone	Contact Name and Title	
	Fax	Telex	
Agreemen ts	Details of rental/lease/manufacture agre	eements specific to the project	

#### 3. <u>FORM PER -1</u>

#### Contractor's Representative and Key Personnel Schedule

Tenderers should provide the names and details of the suitably qualified Contractor's Re presentative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

#### **Contractor' Representative and Key Personnel**

1.	Title of Position	
1.	Name of Candidate	
	Duration of	
	Appointment	
	Time Commitment	
	for This Position	
	Expected Time	
	Schedule for This	
	Position	
2.	Title of Position	
	Name of Candidate	
	Duration of	
	Appointment	
	Time Commitment	
	for This Position	
	Expected Time	
	Schedule for This	
	Position	
3.	Title of Position	
	Name of Candidate	
	Duration of	
	Appointment	
	Time Commitment	
	for This Position	
	Expected Time	
	Schedule for This	
	Position	
4.	Title of Position	
	Name of Candidate	
1	Duration of	
	Appointment	
	Time Commitment	
	for This Position	
	Expected Time	
	Schedule for This	
	Position	

### 4. <u>FORM PER - 2:</u>

Name of Tenderer						
<b>Position</b> [#]	Position [#1] [title of position from Form Per-1]					
Personell Informatio n	Name:	Date of Birth:				
	Address:	E-Mail:				
	Professional Qualifications:					
	Academic Qualifications:					
	Language Proficiency: [language and levels of speaking, reading and writing skills]					
	Address of Procuring Entity:					
	Telephone:     Contact (Manager/Personnel Officer)					
	Fax:					
	Job Title: Years with present Procuring					

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	
[main project details]	[role and responsibilities on the project]	[time in role]	Relevant experience [describe the experience relevant to this position]

### Declaration

I, the undersigned ......*[insert either "Contractor's Representative" or "Key Personnel" as applicable]*, certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Tender:

Commitme nt	Detail s	
Commitment to duration of	[insert period (start and end dates) for	
contract	which this Contractor's Representative	
	or Key Personnell is available to work in this contract]	
Time commitment	[insert period (start and end dates) for which this Contractor's Representative or Key Personnell isavailable to work in this contract]	

#### I understand that any misrepresentation or omission in this form may:

- a) be taken into consideration during Tender evaluation;
- b) result in my disqualification from participating in the tender;
- c) result in my dismissal from the contract.

Name of Contractor's Representative or Key Personnel:

Signature:....

Date: ...... (day month year):

Counter signature of authorized representative of the Tenderer:

Signature:....

### 5. TENDERERS QUALIFICATION WITHOUT PREQUALIFICATION

To establish its qualifications to perform the contract in accordance with Section III, Evaluation and Qualification Criteria the Tenderer shall provide the information requested in the corresponding Information Sheets included hereunder.

#### 5.1 FORM ELI -1.1

#### **Tenderer Information**

Form	
Date:	
ITT No. and Title: _	

Tenderer's Name					
In case of Joint Venture (JV), Name of Each Member					
Tenderer's Actual or Intended Year of Incorporation					
Tenderer's Legal Address [in country of registration]					
Tenderer's Authorised Representative					
InformationName:					
Address:					
Telephone/Fax					
Numbers:E-mail					
Address:					
1. Attached are copies of original documents of:					
• Articles of Incorporation (or equivalent documents of constitution					
or association) and /or documents of registration of the legal					
entity namedabove in accordance with ITT 3.6					
• In case of JV, letter of intent to form JV or JV agreement in					
accordance withITT 3.5					
• In case of state owned enterprise or institution in accordance with					
ITT 3.8documents establishing:					
a. Legal and financial autonomy					
b. Operation under commercial law					
c. Establishing that the tenderer is not under the supervision of the					
ProcuringEntity					
2. Included are the organizational chart, a list of Board of Directors and the					
beneficialownership					

# 5.2 FORM ELI -1.2

# Tenderer's JV Information Form (to be completed for each member of Tenderer's JV)Date:

# ITT No. and Title:\_\_\_\_\_

Tenderer's JV Name				
JV Member's Name				
JV Member's Country of Registration				
JV Member's Year of Constitution				
JV Member's Legal Address in Country of Constitution				
JV Member's Authorised Representative Information				
Name:				
Address:				
Telephone/Fax Numbers:				
E-mail Address:				
3. Attached are copies of original documents of:				
• Articles of Incorporation (or equivalent documents of constitution or				
association) and /or documents of registration of the legal entity				
named above in accordance with ITT 3.6				
• In case of state owned enterprise or institution in accordance with				
ITT 3.8 documents establishing:				
d. Legal and financial autonomy				
e. Operation under commercial law				
f. Establishing that the tenderer is not under the supervision of the				
Procuring Entity, in accordance with ITT 3.5				
4. Included are the organisational chart, a list of Board of Directors and the				
beneficial ownership				
1				

# 53 <u>FORM CON –2</u>

# Historical Contract Non-Performance, Pending Litigation and Litigation History

Tende	Tenderer's Name:Date:					
JV Me	ember's Nan	o. And Title				
Non-Per Qualific	Non-Performed Contracts in accordance with Section III, Evaluation and Qualification Criteria					
	-	nance did not occur since 1 <sup>st</sup> January[inser	• •			
		on and Qualification Criteria, Sub-Factor 2.				
Section	., .	ormance since 1 <sup>st</sup> January[ insert ye	ar] specified in			
		Qualification Criteria, Requirement 2.1				
Contrac	t(s) withdraw	vn did not occur since 1 <sup>st</sup> January[ inse	ert year] specified in			
Section	III, Evaluatio	on and Qualification Criteria, Requirement				
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate			
	contract		exchange rate and Kenya Shilling equivalent)			
[inse rt year]	[insert amount and percentag e]	Contract Identification: [indicate complete contract name/number and any other identification] Name of Procuring Entity: [insert full name]Address of Procuring Entity: [insert street/city/country] Name of Procuring Entity: [insert street/city/country] Reason(s) for non-performance: [indicate main reasons]	[insert amount]			
Pending Criteria	reasons]           Pending Litigation in accordance with Section III, Evaluation and Qualification           Criteria					
	No Pending Litigation in accordance with Section III, Evaluation and Qualification					
Criteria, SubFactor 2.3 Pending Litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub- Factor 2.3 as indicated below.						
Year of disput e	Amount in dispute (currenc	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent			
	y) (exchange rate)					

		Contract Identification:	
		Name of Procuring Entity:	
[inse	[insert	Address of Procuring Entity:	[insert amount]
rt	percentag	Matter in dispute:	
year]	<i>e</i> ]	Party who initiated the dispute: Status of Dispute:	
		Contract Identification:	
		Name of Procuring Entity:	
[inse	[insert	Address of Procuring Entity:	[insert amount]
rt	percentag	Matter in dispute:	
year]	<i>e</i> ]	Party who initiated the dispute: Status of Dispute:	
Litigation	on in accorda	nce with Section III, Evaluation and Quali	fication Criteria
No Litig	gation in acco	ordance with Section III, Evaluation and Qu	ualification Criteria,
Sub Fac	ctor 2.4Pendi	ng Litigation in accordance with Section II	I, Evaluation and
	cation Criteri		
Factor 2	2.4 as indicat	ed below.	

Year of awar d	Outcome as percenta ge of Net Worth	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)
[inse rt year]	[insert percentag e]	Contract Identification: [indicate complete contract name/number and any other identification] Name of Procuring Entity: [insert full name]Address of Procuring Entity: [insert street/city/country] Matter in dispute: [indicate main issues indispute] Party who initiated the dispute: [indicate "Procuring Entity" or " Contractor"] Reason(s) for Litigation and Award Decision:[indicate main reasons]	[insert amount]

Include details relating to potential bid-rigging practices such as previous occasions where tenders were withdrawn, joint bids with competitors, subcontracting work to unsuccessful tenderers, etc.

### 5.4 FORM FIN -3.1.:

# **Financial Situation and Performance**

Tenderer's Name:\_\_\_\_\_

Date:\_\_\_\_\_

JV Member's Name\_\_\_\_\_

ITT No. and title:\_\_\_\_\_

#### 5.4.1. Financial Data

Type of	Historic Information for Previous Years				
Financial	(amount in currency, currency exchange rate*, USD equivalent)				
Information					
in					
(currency					
)					
	Year 1	Year 2	Year 3	Year 4	Year 5
Stat	ement of Fina	ncial Position Shee	(Information	from Balance	
Total Assets					
(TA)					
Total Liabilities					
(TL)					
Net Worth (NW)					
Current Assets					
(CA)					
Current					
Liabilities (CL)					
Working Capital (WC)					
Information from	Income State	ement			
Total Revenue					
(TR)					
Profits Before					
Taxes (PBT)					
Cash Flow Information					
Cash Flow					
fromOpening					
Activities					

\*Refer to ITT 15 for the exchange rate

#### 5.42 Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of Finance	Amount (Kenya Shilling Equivalent)
1		
2		
3		

#### 543 Financial documents

The Tenderer and its parties shall provide copies of financial statements for years pursuant Section III, Evaluation and Qualifications Criteria, Sub-factor 3.1. The financial statements shall:

- a. Reflect the financial situation of the Tenderer or incase of JV member, and not an affiliated entity (such as parent company or group member).
- b. Be independently audited or certified in accordance with local legislation.
- c. Be complete, including all notes to the financial statements.
- d. Correspond to accounting periods already completed and audited

Attached are copies of financial statements for the \_\_\_\_\_years required above and complying with therequirements.

#### 55 **FORM FIN – 3.2:**

**Average Annual Construction Turnover** Tenderer's Name: Date:

JV Member's Name:

ITT No. and Title:

Annual Turnover Data (Construction						
Year	Only)					
1 ear	Amount Currency	Exchange Rate	Kenya Shilling Equivalent			
[Indicate year]	[Insert amount and indicate currency]					
Average Annual						
Construction Turnover *						

 Turnover \*

 \*See Section III, Evaluation and Qualification Criteria, Sub-Factor 3.2.

#### 5.6 FORMFIN-3.3:

#### **Financial Resources**

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet thetotal construction cash flow demands of the subject contractor contracts as specified in Section III, Evaluation and Qualification Criteria.

No.	Source of Finance	Amount (Kenya Shilling Equivalent)
1		
2		
3		

#### 5.7 FORM FIN-3.4:

#### **Current Contract Commitments / Works in Progress**

Tenderers and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

No.	Name of Contract	Procuring Entity's Contact Address, Tel	Value of Outstanding Work [Current Kenya Shilling/ Month Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [Kenya Shilling/ Month]
1			T		
2					
3					
4					
5					

#### 5.8 FORM EXP -4.1

#### **General Construction Experience**

 Tenderer's Name:
 \_\_\_\_\_\_

 JV Member's Name:
 \_\_\_\_\_\_

ITT No. and Title: \_\_\_\_\_\_

Page\_

	of	pages	
Starting Year	Ending Year	Contract Idenfication	Role of Tenderer
		Contract Name:	
		Brief Description of the Works	
		Performed by the Tenderer	
		Amount of Contract	
		Name of Procuring Entity	
		Address	
		Contract Name:	
		Brief Description of the Works	
		Performedby the Tenderer	
		Amount of Contract	
		Name of Procuring Entity	
		Address	
		Contract Name:	
		Brief Description of the Works	
		Performedby the Tenderer	
		Amount of Contract	
		Name of Procuring Entity	
		Address	

# 59 FORM EXP - 4.2(a)

#### **Specific Construction and Contract Management Experience**

 Tenderer's Name:
 \_\_\_\_\_\_Date:

 JV Member's Name:
 \_\_\_\_\_\_ITT No. and Title:

Similar Contract No.	Information			
<b>Contract Identification</b>				
Award Date				
Completion Date				
Role in Contract	Prime	Member	Manageme	Sub-
	Contractor	in JV 🗆	nt	Contracto
			Contractor	r
Total Contract Amount			Kenya Shilli	ng
If Member in a JV or				
Sub-Contractor,				
Specify Participation				
in Total Contract				
Amount				
Procuring Entity's Name:				
Address:				
Telephone/Fax				
Number: E-Mail:				
Description of the				
similarity in				
accordance with Sub-				
Factor 4.2(a) of				
Section III:				
Amount				
Physical Size of				
Required				
Works Items				
Complexity				
Methods/Technology				
Construction Rate for				
Key				
Activities				
Other Characteristics				

#### 5.10 FORM EXP - 4.2 (b)

#### **Construction Experience in Key Activities**

Tenderer's Name:\_\_\_\_\_

Date:\_\_\_\_\_

Tenderer's JV Member Name:\_\_\_\_\_

Sub-contractor's Name<sup>2</sup> (as per ITT 34):\_\_\_\_\_

ITT No. and title:\_\_\_\_\_

All Sub-contractors for key activities must complete the information in this form as per ITT 34 and Section III, Evaluation and Qualification Criteria, Sub-Factor 4.2.

Similar Contract No.	Information			
Contract				
Identification				
Award Date				
Completion Date		•		
Role in Contract	Prime	Member	Manageme	Sub-
	Contractor	inJV 🗆	nt	Contracto
			Contractor	r
Total Contract			Kenya Shilli	ng
Amount			•	J
Quantity (Volume,	Total	Percentage	Actual Quant	ity
Number of Rate of	Quantity in	Participation	Perfomed	
Production as	the	(ii)	(i) x (ii)	
applicable)	Contract(i)			
performedunder the				
contract per				
year or part of the year				
Year 1				
Year 2				
Year 3				
Year 4				
Procuring Entity's				
Name:				
Address:				
Telephone/Fax				
Number: E-Mail:				
Description of the				
similarity in				
accordance with Sub-				
Factor 4.2(b) of				
Section III:				

#### **OTHER FORMS**

#### 6. FORM OF TENDER

#### INSTRUCTIONS TO TENDERERS

- *i)* The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.
- *ii)* All italicized text is to help Tenderer in preparing this form.
- *iii)* Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION OF THE TENDERER attached to this Form of Tender.
- *iv)* The Form of Tender shall include the following Forms duly completed and signed by the Tenderer.
  - Tenderer's Eligibility- Confidential Business Questionnaire
  - Certificate of Independent Tender Determination
  - Self-Declaration of the Tenderer

Name and description of Tender <u>PLUMBING AND DRAINAGE INSTALLATION</u> <u>WORKS FOR PROPOSED CONSTRUCTION OF A LIBRARY BLOCK AT</u> KAIMOSI FRIENDS UNIVERSITY <u>COLLEGE</u>

Alternative No.: [insert identification No if this is a Tender for an alternative]

#### To: KAIMOSI FRIENDS UNIVERSITY COLLEGE

#### P.O. BOX 385 - 50309

#### **KAIMOSI**

#### Dear Sirs,

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 and complete the Works and remedy any defects there in for the sum<sup>3</sup> of Kenya Shillings [[Amount in figures]\_\_\_\_\_\_Kenya Shillings [amount in words]

The above amount includes foreign currency<sup>4</sup> amount(s) of [*state figure or a percentage and currency*] [figures]

[words]

The percentage or amount quoted above does not include provisional sums, and only allows not more than two foreign currencies.

- 2. We under take, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Architect notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Special Conditions of Contract.
- 3. We agree to adhere by this tender until *[Insert date]*, and it shall remain binding upon us and may be accepted at any time before that date.
- 4. We understand that you are not bound to accept the lowest or any tender you may receive.
- 5. We, the under signed, further declare that:
  - i) <u>No reservations</u>: We have examined and have no reservations to the tender document, including Addenda is suedinaccordance with ITT 28;
  - ii) <u>Eligibility:</u> We meet the eligibility requirements and have no conflict of interest in accordance with ITT3 and 4;
  - iii) <u>Tender Securing Declaration</u>: We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing or Proposal-Securing Declaration in the Procuring Entity's Country in accordance with ITT 19.8;
  - *iv)* <u>Conformity</u>: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the following Works: *[insert abrief description of the Works];*
  - *v)* <u>Tender Price:</u> The total price of our Tender, excluding any discounts offered in item 1 above is: *[Insertone of the options below as appropriate]*
  - vi <u>Option 1</u>, incase of one lot: Total price is: *[insert the total price of the Tender in words and figures, indicating the various amounts and the respective currencies]*; or

Option2, in case of multiple lots:

- (a) <u>Total price of each lot</u> [*insert the total price of each lot in words and figures, indicating thevarious amounts and the respective currencies*]; and
- (b) <u>Total price of all lots (sum of all lots)</u> [insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies];
- vii) <u>Discounts:</u> The discounts offered and the methodology for their application are:

viii) The discounts offered are: [Specify in detail each discount offered.]

- ix) The exact method of calculations to determine the net price after application of discounts is shown below: [Specify in detail the method that shall be used to apply the discounts];
- x) <u>Tender Validity Period</u>: Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- xi) <u>Performance Security:</u> If our Tender is accepted, we commit to obtain Performance Security in accordance with the Tendering document;
- xii) <u>One Tender Per Tender</u>: Weare not submitting any other Tender(s) as an individual Tender, and we arenot participating in any other Tender(s) as a Joint Venture member or as a sub-contractor, and meet the requirements of ITT 3.4, other than alternative Tenders submitted in accordance with ITT 13.3;
- xiii) <u>Suspension and Debarment</u>: We, along with any of our subcontractors, suppliers, Engineer, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the PublicProcurement Regulatory Authority or any other entity of the Government of Kenya, or any international organization.
- xiv) <u>State-owned enterprise or institution</u>: [select the appropriate option and delete the other] [We are not a state- owned enterprise or institution]/[We are a state-owned enterprise or institution but meet the requirements of ITT3.8];
- *xv)* <u>Commissions, gratuities, fees</u>: We have paid, or will pay the following commissions, gratuities, or fees with respect to the tender process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity].

Name of Recipient	Address	Reason	Amount

<sup>4</sup>The percentage quoted above should not include provisional sums, and not more than two foreign currencies areallowed.

- xvi) <u>Binding Contract:</u> We understand that this Tender, together with your written acceptance there of included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- xvii) <u>Not Bound to Accept:</u> We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other Tender that you may receive;
- xviii)<u>Fraud and Corruption:</u> We here by certify that we have taken steps to ensure that no personacting for usor on our behalf engages in any type of Fraud and Corruption; and
- xix) <u>Collusive practices:</u> We hereby certify and confirm that the tender is genuine, noncollusive and made with the intention of accepting the contract if awarded. To this effect we have signed the "Certificate of Independent Tender Determination" attached below.
- xx) We undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from *\_\_\_\_\_(specify website)* during the procurement process and the execution of any resulting contract.
- xxi) We, the Tenderer, have completed fully and signed the following Forms as part of our Tender:
  - a) Tenderer's Eligibility; Confidential Business Questionnaire to establish we are not in any conflict to interest.
  - (b) Certificate of Independent Tender Determination to declare that we completed the tender without colluding with other tenderers.
  - (a) Self-Declaration of the Tenderer to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.
  - (d) Declaration and commitment to the Code of Ethics for Persons Participating in PublicProcurement and Asset Disposal.

Further, we confirm that we have read and understood the full content and scope of fraud and corruption as informed in "Appendix 1 - Fraud and Corruption" attached to the Form of Tender.

<b>Name of the Tenderer</b> *[insert complete name of person signing the Tender]
Name of the person duly authorized to sign the Tender on behalf of the Tenderer: 
<b>Title of the person signing the Tender</b> [insert complete title of the person signing the Tender]

Signature of the person named above ......[insert signature of person

whose name and capacity are shown above]

Date signed\_\_\_\_\_\_day of\_\_\_\_\_\_,

Notes

\* In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer.

\*\*Person signing the Tender shall have the power of attorney given by the Tenderer to be attached with the Tender.

# (a) **TENDERER'S ELIGIBILITY-CONFIDENTIAL**

# **BUSINESS QUESTIONNAIRE** Instruction to Tenderer

Tender is in structed to complete the particulars required in this Form, *one form for each entity if Tender is a JV*. Tenderer is further reminded that it is an offence to give false information on this Form.

	lerer's details ITEM	DESCRIPTION
1	Name of the Procuring Entity	
2	Reference Number of the Tender	
3	Date and Time of Tender Opening	
4	Name of the Tenderer	
5	Full Address and Contract Details of the Tenderer. (Country, city, location, building, floor, postal address and name and email of contact person)	
6	Current Trade License RegistrationNumber and Expiring date	
7	Name, Country and full address (postal and physical addresses, email, and telephone number) of Registration Body/Agency	
8	Description of Nature of Business	
9	Maximum value of business which the Tenderer handles	
10	State if Tenders Company is listed instock exchange, give name and full address (postal and physical addresses, email, and telephone number) of state which stock exchange.	

#### (a) **Tenderer's details**

### **General and Specific Details**

(b) **Sole Proprietor,** provide the following details.

Name in	 Age	Nationalit	У
full	-		

Country of Origin\_\_\_\_\_ Citizenship\_\_\_\_\_

#### a. **Partnership**, provide the following details

	Names of Partners	Nationality	Citizenship	% Shares Owned
1				
2				
3				

#### (c) **Registered Company,** provide the following details.

- (i) Private or public company\_\_\_\_\_
- (ii) State the nominal and issued capital of the company\_\_\_\_\_
  - a. Nominal Kenya Shillings (Equivalent)
  - b. Issued Kenya Shillings (Equivalent) \_\_\_\_\_
- (iii) Give Details of Directors as follows

	Names of Director	Nationality	Citizenship	% Shares Owned
1				
2				
3				

#### (d) DISCLOSURE OF INTEREST - Interest of the Firm in the Procuring Entity.

(i) Are there any person/persons in \_\_\_\_\_\_(Name of Procuring Entity) whohas/have an interest or relationship in this firm? Yes/No \_\_\_\_

If Yes provide details as follows:

	Names of Person	Designation in the Procuring Entity	Interest or Relationship withTenderer
1			
2			
3			

# (ii) Conflict of interest disclosure

	<sup>Ty</sup> pe of Conflict	Disclosure YES ORNO	If YES provide details of therelationship with Tenderer
1 2	Tenderer is directly or indirectly controls, is controlled by or is under common control with another tenderer.		
3	Tenderer receives or has received anydirect or indirect subsidy from anothertenderer.		
4	Tenderer has the same legal representative as another tenderer		
5	Tender has a relationship with anothertenderer, directly or through common third parties, that puts it in a position to influence the tender of another		
6	tenderer, or influence the decisions of the Procuring Entity regarding this tendering process.		
7	Any of the Tenderer's affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender.		
8	Tenderer would be providing goods, works, non-consulting services or consulting services during implementation of the contract Specified in this Tender Document.		
	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who are directly or		
	indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation		

process of such contract.	
Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who would be involved in the implementation or supervision of the such Contract.	
Has the conflict stemming from suchrelationship stated in item 7 and 8 above been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.	

# Certification

On behalf of the Tenderer, I certify that the information given above is complete, current and accurate as at the date of submission.

Full Name ......Title or Designation\_\_\_\_\_

\_\_\_\_\_

(Signature)

(Date)

# b) <u>CERTIFICATE OF INDEPENDENT TENDER DETERMINATION</u>

I, the undersigned, in submitting the accompanying Letter of Tender to the \_\_\_\_\_\_\_ [Name of Procuring Entity] for: \_\_\_\_\_\_ [Name and number of \_\_\_\_\_\_ [Name and number of \_\_\_\_\_\_ [Name of Tenderer] do hereby make the following statements that I certify to be true and complete in every

respect:

I certify, on behalf of \_\_\_\_\_ [Name of Tenderer] that:

- 1. I have read and I understand the contents of this Certificate;
- 2. I understand that the Tender will be disqualified if this Certificate is found not to be true and complete inevery respect;
- 3. I am the authorized representative of the Tenderer with authority to sign this Certificate, and to submit the Tender on behalf of the Tenderer;
- 4. For the purposes of this Certificate and the Tender, I understand that the word "competitor" shall include any individual or organization, other than the Tenderer, whether or not affiliated with the Tenderer, who:
  - a) Has been requested to submit a Tender in response to this request for tenders;
  - b) could potentially submit a tender in response to this request for tenders, based on their qualifications, abilities or experience;
- 5. The Tenderer discloses that [check one of the following, as applicable]:
  - a) The Tenderer has arrived at the Tender independently from, and without consultation, communication, agreement or arrangement with, any competitor;
  - b) The Tenderer has entered into consultations, communications, agreements or arrangements with one ormore competitors regarding this request for tenders, and the Tenderer discloses, in the attacheddocument(s), complete details thereof, including the names of the competitors and the nature of, and reasons for, such consultations, communications, agreements or arrangements;
- 6. In particular, without limiting the generality of paragraphs (5)(a) or(5)(b) above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - a) prices;
  - b) methods, factors or formulas used to calculate prices;
  - c) the intention or decision to submit, or not to submit, a tender; or
  - d) the submission of a tender which does not meet the specifications of the request for Tenders; except asspecifically disclosed pursuant to paragraph (5)(b) above;
- 7. In addition, there has been no consultation, communication, agreement or arrangement with any competitorregarding the quality, quantity, specifications or delivery particulars of the works or services to which this request for tenders relates, except as specifically authorized by the procuring authority or as specifically disclosed pursuant to paragraph

(5)(b) above;

8. The terms of the Tender have not been, and will not be, knowingly disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening, or of the awarding of the Contract, which ever comes first, unless otherwise required by law or as specifically disclosed pursuant toparagraph (5)(b) above.

Name	Title
Date	

[Name, title and signature of authorized agent of Tenderer and Date]

#### (c) SELF- DECLARATION FORMS

# FORM SD1

# SELF DECLARATION THAT THE PERSON/TENDERER IS NOT DEBARRED IN THEMATTER OF THE PUBLIC PROCUREMENT AND ASSET DISPOSAL ACT 2015.

I, ...... being a resident of ..... being a statement as follows: -

2. THAT the aforesaid Bidder, its Directors and subcontractors have not been debarred from participating inprocurement proceeding under Part IV of the Act.

3. THAT what is deponed to here in above is true to the best of my knowledge, information and belief.

(Title) ..... (Signature) .....

(Date).....

**Bidder Official Stamp** 

#### FORM SD2

# SELF DECLARATION THAT THE PERSON/TENDERER WILL NOT ENGAGE IN ANY CORRUPT ORFRAUDULENT PRACTICE.

I, ..... being a resident of ..... in the Republic of ...... do hereby make a statement as follows: -

- THAT I am the Chief Executive/Managing Director/Principal Officer/Director of
   (insert name of the Company) who is a Bidder in respect of **Tender No**......for
   (insert tender title/description) for ...... (insert name of the Procuring entity) and
   duly authorized and competent to make this statement.

- 4. THAT the aforesaid Bidder will not engage /has not engaged in any corrosive practice with other biddersparticipating in the subject tender
- 5. THAT what is deponed to here in above is true to the best of my knowledge information and belief.

(Title) ...... Signature).....

(Date).....

Bidder's Official Stamp

# DECLARATION AND COMMITMENT TO THE CODE OF ETHICS

I do here by commit to abide by the provisions of the Code of Ethics for persons participating in Public Procurement and Asset Disposal.

Name of Authorized
signatory
Sim
Sign
Position
Office address
Telephone
•
Email
Name of the Firm/Company
Date
(Company Seal/ Rubber Stamp where applicable)
Witness
Name
Sign
Date

# (d) APPENDIX 1 - FRAUD AND CORRUPTION

(Appendix 1 shall not be modified)

#### 1. Purpose

1.1 The Government of Kenya's Anti-Corruption and Economic Crime laws and their sanction's policies and procedures, Public Procurement and Asset Disposal Act (*no. 33 of 2015*) and its Regulation, and any other Kenya's Acts or Regulations related to Fraud and Corruption, and similar offences, shall apply with respect to Public Procurement Processes and Contracts that are governed by the laws of Kenya.

# 2. Requirements

- 21 The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (applicants/proposers), Consultants, Contractors and Suppliers; any Subcontractors, Sub-consultants, Service providers or Suppliers; any Agents (whether declared or not); and any of their Personnel, involved and engaged in procurement under Kenya's Laws and Regulation, observe the highest standard of ethics during the procurement process, selection and contract execution of all contracts, and refrain from Fraud and Corruption and fully comply with Kenya's laws and Regulations as per paragraphs 1.1 above.
- 22 Kenya's public procurement and asset disposal act (*no. 33 of 2015*) under Section 66 describes rules to be followed and actions to be taken in dealing with Corrupt, Coercive, Obstructive, Collusive or Fraudulent practices, and Conflicts of Interest in procurement including consequences for offences committed. A few of the provisions noted below highlight Kenya's policy of no tolerance for such practices and behavior:
  - 1) A person to whom this Act applies shall not be involved in any corrupt, coercive, obstructive, collusive or fraudulent practice; or conflicts of interest in any procurement or as set disposal proceeding;
  - 2) A person referred to under subsection (1) who contravenes the provisions of that subsection commits an offence;
  - 3) Without limiting the generality of the subsection (1) and (2), the person shall be:
    - a) disqualified from entering into a contract for a procurement or asset disposal proceeding; or
    - b) if a contract has already been entered into with the person, the contract shall be voidable;
  - 4) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedythe procuring entity may have;
  - 5) An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity whohas a conflict of interest with respect to a procurement:
    - a) Shall not take part in the procurement proceedings;
    - b) shall not, after a procurement contract has been entered in to, take part in any decision relating to the procurement or contract; and
    - c) shall not be a subcontract or for the tender to whom was awarded contract, or a

member of the group of tenderers to whom the contract was awarded, but the subcontractor appointed shall meetall the requirements of this Act.

- 6) An employee, agent or member described in subsection (1) who refrains from doing anything prohibited under that subsection, but for that subsection, would have been within his or her duties shall disclose the conflict of interest to the procuring entity;
- 7) If a person contravenes subsection (1) with respect to a conflict of interest described in subsection (5)(a) and the contract is awarded to the person or his relative or to another person in whom one of them hada direct or indirect pecuniary interest, the contract shall be terminated and all costs incurred by the public entity shall be made good by the awarding officer. Etc.
- 3. In compliance with Kenya's laws, regulations and policies mentioned above, the Procuring Entity:
  - a) Defines broadly, for the purposes of the above provisions, the terms set forth below as follows:
    - i) "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
    - ii) "fraudulent practice" is any act or omission, including is representation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
    - iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; "coercivepractice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party; "obstructive practice" is:
    - Deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede investigation by Public Procurement Regulatory Authority (PPRA) or any other appropriate authority appointed by Government of Kenya into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of mattersrelevant to the investigation or from pursuing the investigation; or
    - acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3 e. below.
  - b) Defines more specifically, in accordance with the above procurement Act provisions set forth for fraudulent and collusive practices as follows:

"fraudulent practice" includes a misrepresentation of fact in order to influence a procurement or disposal process or the exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor, and includes collusive practices amongst tenderers prior to or after tender submission designed to establish tender prices at artificial non-competitive levels and to deprive the procuring entity of the benefits of free and open competition.

c) Rejects a proposal for award<sup>1</sup> of a contract if PPRA determines that the firm or

individual recommended for award, any of its personnel, or its agents, or its subconsultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

- d) Pursuant to the Kenya's above stated Acts and Regulations, may recommend to appropriate authority(ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;
- e) Requires that a clause be included in Tender documents and Request for Proposal documents requiring(i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub-consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to inspect<sup>2</sup> all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have themaudited by auditors appointed by the PPRA or any other appropriate authority appointed by Governmentof Kenya; and
- f) Pursuant to Section 62 of the above Act, requires Applicants/Tenderers to submit along with their Applications/Tenders/Proposals a "Self-Declaration Form" as included in the procurement document declaring that they and all parties involved in the procurement process and contract execution have notengaged/will not engage in any corrupt or fraudulent practices.

# 2. FORM OF TENDER SECURITY-DEMAND BANK GUARANTEE

Beneficiary:			
Request for Tenders No:			
Date:			
TENDERGUARANTEE No.:			
Guarantor:			

- 1. We have been informed that \_\_\_\_\_\_(here in after called "the Applicant") has submitted or will submit to the Beneficiary its Tender (here in after called" the Tender") for the execution of under Request for Tenders No. ("the ITT").
- 2. Furthermore, we understand that, according to the Beneficiary's conditions, Tenders must be supported by aTender guarantee.
- 3. At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of \_\_\_\_\_\_\_\_ upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or aseparate signed document accompanying or identifying the demand, stating that either the Applicant:
- (a) has withdrawn its Tender during the period of Tender validity set forth in the Applicant's Letter of Tender ("the Tender Validity Period"), or any extension thereto provided by the Applicant; or
- b) having been notified of the acceptance of its Tender by the Beneficiary during the Tender Validity Period orany extension there to provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) hasfailed to furnish the Performance.
- 4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is notthe successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) thirty days after the end of the Tender Validity Period.
- 5. Consequently, any demand for payment under this guarantee must be received by us at the office indicated above onor before that date.

[signature(s)]

### 4. FORM OF TENDER SECURITY (TENDER BOND)

[The Surety shall filling this Tender Bond Form in

accordance with theinstructions indicated.] BOND NO.\_

- 1. BY THIS BOND [name of tenderer] as Principal (hereinafter called "the Principal"), and [name, legal title, and address of surety], authorized to transact business in [name of country of Purchaser], as Surety (hereinafter called "the Surety"), are held and firmly bound unto [name of Purchaser] as Obligee (hereinafter called "the Purchaser") in the sum of [amount of Bond][amount in words], for the payment of which sum, well and truly to be made, we, the said Principal and Surety, bind ourselves, our successors and as signs, jointly and severally, firmly by these presents.
- 2. WHERE AS the Principal has submitted or will submit a written Tender to the Purchaser dated the \_\_\_\_\_\_\_ dayof \_\_\_\_\_\_, 20\_\_\_\_\_\_ for the supply of [name of Contract] (herein after called the "Tender").
- 3. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal:

a) Has withdrawn its Tender during the period of Tender validity set forth in the Principal's Letter of Tender ("the Tender Validity Period"), or any extension there to provided by the Principal; or

b) Having been notified of the acceptance of its Tender by the Purchaser during the Tender Validity Period or any extension there to provided by the Principal;(i) failed to execute the Contract agreement; or (ii) has failed to furnish the Performance Security, in accordance with the Instructions to tenderers ("ITT") of the Purchaser's Tendering document.

then the Surety undertakes to immediately pay to the Purchaser up to the above amount upon receipt of the Purchaser's first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser shall state that the demand arises from the occurrence of any of the above events, specifying which event (s) has occurred.

- 4. The Surety here by agrees that its obligation will remain in full force and effect up to and including the date30 days after the date of expiration of the Tender Validity Period set forth in the Principal's Letter of Tender or any extension thereto provided by the Principal.
- 5. IN TESTIMONY WHEREOF, the Principal and the Surety have caused these presents to be executed in their respective names this day of \_\_\_\_\_\_20\_\_\_\_

Principal:

Surety:\_\_\_\_\_

Corporate Seal (where appropriate)

(Signature) (Printed name and title) (Signature) (Printed name and title)

# 4. FORM OF TENDER - SECURING DECLARATION

[The Bidder shall complete this Form in accordance with the instructions indicated]

Date.....[insert date (as day, month and year) of Tender Submission]

Tender No......[insert number of tendering process]

To......[insert complete name of Purchaser] I/We, the undersigned,

# declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.
- 2. I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on[insert date], if we are in breach of our obligation(s) under the bid conditions, because we–(a) havewithdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.
- 3. I/We understand that this Tender Securing Declaration shall expire if we are not the successfulTenderer(s), upon the earlier of:
  - a) Our receipt of a copy of your notification of the name of the successful Tenderer; or
  - b) thirty days after the expiration of our Tender.
- 4. I/We understand that if I am /we are/ in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed ......Capacity/title (director or

partner or sole proprietor, etc.) .....

Name...... Duly authorized to

sign the bid for and on behalf of: [insert complete name of Tenderer]

Dated on ...... day of ...... [Insert date of signing] Seal or stamp

# 5. Appendix to Tender

# Schedule of Currency requirements

Summary of currencies of the Tender for \_\_\_\_\_ [insert name of Section of the Works]

Name of currency	Amounts payable
Local currency:	
Foreign currency #1:	
Foreign currency #2:	
Foreign currency #3:	
Provisional sums expressed in local currency	[To be entered by the Procuring Entity]

PARTII - WORKS REQUIREMENTS

#### **SECTION V - SPECIFICATIONS**

Notes for preparing Specifications

- 1. Specifications must be drafted to present a clear and precise statement of the required standards of materials, and workmanship for tenderers to respond realistically and competitively to the requirements of the Procuring Entity and ensure responsiveness of tenders. The Specifications should require that all materials, plant, and other supplies to be permanently incorporated in the Works be new, unused, of the most recent or current models, and incorporating all recent improvements in design and materials unless provided otherwise in the Contract. Where the Contractor is responsible for the design of any part of the permanent Works, the extent of his obligations must be stated.
- 2. Specifications from previous similar projects are useful and may not be necessary to rewrite specifications for every Works Contract.
- 3. There are considerable advantages in standardizing **General Specifications** for repetitive Works in recognized public sectors, such as high ways, urban housing, irrigation and water supply. The General Specifications should cover all classes of workmanship, materials and equipment commonly involved in constructions, although not necessarily to be used in a particular works contract. Deletions or addenda should then adapt the General Specifications to the particular Works.
- 4. Care must be taken in drafting Specifications to ensure they are not restrictive. In the Specifications of standards for materials, plant and workmanship, existing Kenya Standards should be used as much as possible, otherwise recognized international standards may also be used.
- 5. The Procuring Entity should decide whether technical solutions to specified parts of the Works are to be permitted. Alternatives are appropriate in cases where obvious (and potentially less costly) alternatives are possible to the technical solutions indicated in tender documents for certain elements of the Works, taking into consideration the comparative specialized advantage of potential tenderers.
- 6. The Procuring Entity should provide a description of the selected parts of the Works with appropriate reference to Drawings, Specifications, Bills of Quantities, and Design or Performance criteria, stating that he alternative solutions shall be at least structurally and functionally equivalent to the basic design parameters and Specifications.
- 7. Such alternative solutions shall be accompanied by all information necessary for a complete evaluation by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, proposed construction methodology, and other relevant details. Technical alternatives permitted in this manner shall be considered by the Procuring Entity each on its own merits and independently of whether the tenderer has priced the item as described in the Procuring Entity's design included with the tender documents.

GENERAL MECHANICAL SPECIFICATONS

# **GENERAL MECHANICAL SPECIFICATION**

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#### **GENERAL MECHANICAL SPECIFICATION**

#### 2.01 General

This section specifies the general requirement for plant, equipment and materials forming part of the Sub- contract Works and shall apply except where specifically stated elsewhere in the Specification or on the Contract Drawings.

#### 2.02 Quality of Materials

All plant, equipment and materials supplied as part of the Sub-contract Works shall be new and of first-class commercial quality, shall be free from defects and imperfections and where indicated shall be of grades and classifications designated herein.

All products or materials not manufactured by the Sub-contractor shall be products of reputable manufacturers and so far as the provisions of the Specification is concerned shall be as if they had been manufactured by the Sub-contractor.

Materials and apparatus required for the complete installation as called for by the Specification and ContractDrawings shall be supplied by the Sub-contractor unless mention is made otherwise.

Materials and apparatus supplied by others for installation and connection by the Subcontractor shall be carefully examined on receipt. Should any defects be noted, the Subcontractor shall immediately notify the Engineer.

Defective equipment or that damaged in the course of installation or tests shall be replaced as required to the approval of the Engineer.

#### 2.03 Regulations and Standards

The Sub-contract Works shall comply with the current editions of the following:

- a) The Kenya Government Regulations.
- a) The United Kingdom Institution of Electrical Engineers (IEE) Regulations for the Electrical Equipment of Buildings.
- b) The United Kingdom Chartered Institute of Building Services Engineers (CIBSE) Guides.
- c) British Standard and Codes of Practice as published by the British Standards Institution (BSI)
- e) The Local Council By-laws.
- f) The Electricity Supply Authority By-laws.
- g) Local Authority By-laws.
- h) The Kenya Building Code Regulations.
- i) The Kenya Bureau of Standards

#### 2.04 Electrical Requirements

Plant and equipment supplied under this Sub-contract shall be complete with all necessary motor

starters, control boards, and other control apparatus. Where control panels incorporating several starters are supplied, they shall be complete with a main isolator.

The supply power up to and including local isolators shall be provided and installed by the Electrical Sub- contractor. All other wiring and connections to equipment shall form part of this Sub-contract and be the responsibility of the Sub-contractor.

The Sub-contractor shall supply three copies of all schematic, cabling and wiring diagrams for the Engineer's approval.

The starting current of all electric motors and equipment shall not exceed the maximum

permissible starting currents described in the Kenya Power and Lighting Company (KPLC)

By-laws.

All electrical plant and equipment supplied by the Sub-contractor shall be rated for the supply voltage and frequency obtained in Kenya, that is 415 Volts, 50Hz, 3-Phase or 240Volts, 50Hz, 1-phase.

Any equipment that is not rated for the above voltages and frequencies shall be rejected by the Engineer.

#### 2.05 Transport and Storage

All plant and equipment shall, during transportation be suitably packed, crated and protected to minimise the possibility of damage and to prevent corrosion or other deterioration.

On arrival at site all plant and equipment shall be examined and any damage to parts and protective priming coats made good before storage or installation.

Adequate measures shall be taken by the Sub-contractor to ensure that plant and equipment do not suffer any deterioration during storage.

Prior to installation all piping and equipment shall be thoroughly cleaned.

If, in the opinion of the Engineer any equipment has deteriorated or been damaged to such an extent that it is not suitable for installation, the Sub-contractor shall replace this equipment at his own cost.

#### 2.06 Site Supervision

The Sub-contractor shall ensure that there is an English-speaking supervisor on the site at all times during normal working hours.

#### 2.07 Installation

Installation of all special plant and equipment shall be carried out by the Sub-contractor under adequate supervision from skilled staff provided by the plant and equipment manufacturer or his appointed agent in accordance with the best standards of modern practice and to the relevant regulations and standards described under Clause 2.03 of this Section.

#### 2.08 Testing

#### 2.08.1 General

The Sub-contractor's attention is drawn to Part 'C' Clause 1.38 of the "Preliminaries and General Conditions".

#### 2.08.2 <u>Material Tests</u>

All material for plant and equipment to be installed under this Sub-contract shall be tested, unless otherwise directed, in accordance with the relevant B.S Specification concerned. For materials where no B.S. Specification exists, tests are to be made in accordance with the best modern commercial methods to the approval of the Engineer, having regard to the particular type of the materials concerned.

The Sub-contractor shall prepare specimens and performance tests and analyses to demonstrate conformance of the various materials with the applicable standards.

If stock material, which has not been specially manufactured for the plant and equipment specified is used, then the Sub-contractor shall submit satisfactory evidence to the Engineer that such materials conform to the requirements stated herein in which case tests of material may be partially or completely waived. Certified mill test reports of plates, piping and other materials shall be deemed acceptable.

#### 2.08.3 <u>Manufactured Plant and Equipment – Work Tests</u>

The rights of the Engineer relating to the inspection, examination and testing of plant and equipment during manufacture shall be applicable to the Insurance Companies or Inspection Authorities so nominated by the Engineer.

The Sub-contractor shall give two week's notice to the Engineer of the manufacturer's intention to carry out such tests and inspections.

The Engineer or his representative shall be entitled to witness such tests and inspections. The cost of such tests and inspections shall be borne by the Sub-contractor.

Six copies of all test and inspection certificates and performance graphs shall be submitted to the Engineer forhis approval as soon as possible after the completion of such tests and inspections.

Plant and equipment which is shipped before the relevant test certificate has been approved by the Engineer shall be shipped at the Sub-contractor's own risk and should the test and inspection certificates not be approved; new tests may be ordered by the Engineer at the Subcontractor's expense.

#### 2.08.4 Pressure Testing

All pipe work installations shall be pressure tested in accordance with the requirements of the various sections of this Specification. The installations may be tested in sections to suit the progress of the works but all testsmust be carried out before the work is buried or concealed behind building finishes. All tests must be witnessed by the Engineer or his representative and the Sub-contractor shall give 48 hours' notice to the Engineer of his intention to carry out such tests.

Any pipe work that is buried or concealed before witnessed pressure tests have been carried out shall be exposed at the expense of the Sub-contractor and the specified tests shall then be applied.

The Sub-contractor shall prepare test certificates for signature by the Engineer and shall keep a progressive and up-to-date record of the section of the work that has been tested.

#### 2.08.5 shop drawings

Before manufacture or Fabrication is commenced the contractor shall submit Two copies of detailed drawings all water tanks, fire hosereel pump, water booster pump and any other equipment including their components showing all pertinent information including sizes, capacities, construction details, etc, as may berequired to determine the suitability of the equipment for the approval of the Engineer. Approval of the detailed drawings shall not relieve the contractor of the full responsibility of errors or the necessity of checking the drawings himself or of furnishing the materials and equipment and performing the work required by the plans and specifications.

#### 2.09 Colour Coding

Unless stated otherwise in the Particular Specification all pipe work shall be color coded in accordance with the latest edition of B.S 1710 and to the approval of the Engineer or Architect.

#### 2.10 Welding

#### 2.10.1 <u>Preparation</u>

Joints to be made by welding shall be accurately cut to size with edges sheared, flame cut or machined to suitthe required type of joint. The prepared surface shall be free from all visible defects such as lamination, surface

imperfection due to shearing or flame cutting operation, etc., and shall be free from rust scale, grease and otherforeign matter.

#### 2.10.2 <u>Method</u>

All welding shall be carried out by the electric arc processing using covered electrodes in accordance with B.S.639.

Gas welding may be employed in certain circumstances provided that prior approval is obtained from theEngineer.

#### 2.10.3 Welding Code and Construction

All welded joints shall be carried out in accordance with the following Specifications:

a) <u>Pipe Welding</u>

All pipe welds shall be carried out in accordance with the requirements of B.S.806.

b) General Welding

All welding of mild steel components other than pipework shall comply with the general requirements of B.S. 1856.

#### 2.10.4 Welders Qualifications

Any welder employed on this Sub-contractor shall have passed the trade tests as laid down by the Governmentof Kenya.

The Engineer may require to see the appropriate to see the appropriate certificate obtained by any welder and should it be proved that the welder does not have the necessary qualifications the Engineer may instruct the Sub- contractor to replace him by a qualified welder.

# GENERAL SPECIFICATIONS FOR PLUMBING ANDDRAINAGE INSTALLATION WORK

# PARTICULAR PLUMBING AND DRAINAGE SPECIFICATIONS

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# **GENERAL**

# SITE LOCATION

# The site of the proposed works is at **Kaimosi friends university** collegeSCOPE OF WORKS

The works to be carried out under this sub-contract comprise supply, installation, testing and commissioning of the following: -

# a) **Plumbing and drainage installation works**

# **BROCHURES FOR**

# DEVICES

For consideration and qualification tenderers shall, at their own cost, provide coloured

manufacturer'sbrochures detailing technical literature and specifications where applicable This section specifies the general requirements for plant, equipment and materials forming part of the plumbing and drainage installations.

# 3.2 <u>MĂTERIALŠ AND STANDARDS</u>

#### 3.2.1 **Pipework and Fittings**

Pipework materials are to be used as follows:

# a) <u>Galvanized Steel Pipework</u>

Galvanized steel pipe work up to 65mm nominal bore shall be manufactured in accordance with B.S. 1387 Medium Grade, with tapered pipe threads in accordance with B.S. 21. All fittings shall be malleable iron andmanufactured in accordance with B.S. 143.

Pipe joints shall be screwed and socketed and sufficient coupling unions shall be allowed so that fittings can be disconnected without cutting the pipe. Running nipples and long screws shall not be permitted unless exceptionally approved by the Engineer.

Galvanized steel pipe work, 80mm nominal bore up to 150mm nominal bore shall be manufactured to comply in all respects with the specification for 65mm pipe, except that screwed and bolted flanges shall replace unions and couplings for the jointing of pipes to valves and other items of plant. All flanges shall comply with the requirements of B.S. 10 to the relevant classifications contained hereinafter under Section 'C' of the Specification.Galvanizing shall be carried out in accordance with the requirements of B.S. 1387 and B.S. 143 respectively.

# b) <u>Copper Tubing</u>

All copper tubing shall be manufactured in accordance with B.S. 2871 from C.160 'Phosphorous De-oxidizedNon-Arsenical Copper' in accordance with B.S. 1172.

Pipe joints shall be made with soldered capillary fittings and connections to equipment shall be withcompression fittings manufactured in accordance with B.S. 864.

#### **Cpvc piping**

PVC (polyvinyl chloride) that has been chlorinated via a free radical chlorination reaction. CPVC is produced by adding chlorine to PVC in a water slurry or fluidized bed chlorination process. The chlorination reaction is initiated by ultraviolet light. The chlorinated PVC is compounded with ingredients necessary for the desired properties for further processing. The chlorine added to PVC gives CPVC higher temperature performance and improved fire and corrosion resistance.

Should conform to ASTM D2846 standard and ASTM F441 Standard for chlorinated poly vinyl chloride pipes. Short copper connection tubes between galvanized pipe work and sanitary fitments shall not be used because of the risk of galvanic action.

If, as may occur in certain circumstances, it is not possible to make the connection in any way than the use of copper tubing, then a brass straight connector shall be positioned between the galvanized pipe and the coppertube in order to prevent direct contact.

# c) <u>P.V.C. (Hard) Pressure Pipes and Fittings</u>

All P.V.C. pipes and fittings shall be manufactured in accordance with B.S.

3505: 1968.Jointing

The method of jointing to be employed shall be that of solvent welding, using the pipe and manufacturer's approved cement. Seal ring joint shall be introduced where it is necessary to accommodate thermal expansion.<u>Testing</u>

Pipelines shall be tested in sections under an internal water pressure normally one and a half times the maximum

allowable working pressure of the class of pipe used. Testing shall be carried out as soon as practical after laying and when the pipeline is adequately anchored. Precautions shall be taken to eliminate all air from the test section and to fill the pipe slowly to avoid risk of damage due to surge.

# d) <u>A.B.S. Waste System</u>

Where indicated on the Drawings and Schedules, the Sub-contractor shall supply and fix A.B.S. waste pipes and fittings.

The pipes, traps and fittings shall be in accordance with the relevant British Standards, including B.S. 3943, and fixed generally in accordance with manufacturer's instructions and B.S. 5572: 1978.

Jointing of pipes shall be carried out by means of solvent welding, the manufacturer's instructions and B.S. 5572:1978.

Jointing of pipes shall be carried out by means of solvent welding. The manufacturer's recommended methodof joint preparation and fixing shall be followed.

Standard brackets, as supplied for use with this system, shall be used wherever possible. Where the building structure renders this impracticable the Sub-contractor shall provide purpose made supports, centers of whichshall not exceed one meter.

Expansion joints shall be provided as indicated. Supporting brackets and pipe clips shall be fixed on each side of these j

# e) <u>PVC Soil System</u>

The Sub-contractor shall supply and fix PVC soil pipes and fittings as indicated on the Drawings and Schedules.

Pipes and fittings shall be in accordance with relevant British Standards, including B.S. 4514 and fixed to the manufacturer's instructions and B.S. 5572.

The soil system shall incorporate synthetic rubber gaskets as provided by the manufacturer whose fixing instructions shall be strictly adhere to.

Connections to WC pans shall be effected by the use of a WC connector, gasket and cover, fixed to suit panoutlet.

Suitable supporting brackets and pipe clips shall be provided at maximum of one metre centres. The Sub-contractor shall be responsible for the joint into the Gully Trap on Drain as indicated on the Drawings.

# 3.2.2 Valves

a) Draw-off Taps and Stop Valves (Up to 50mm Nominal Bore)

Draw-off taps and valves up to 50mm nominal bore, unless otherwise stated or specified for attachment orconnection to sanitary fitment shall be manufactured in accordance with the requirements of B.S.1010.

b) <u>Gate Valves</u>

All gate valves 80mm nominal bore and above, other than those required for fitting to buried water mains shall be of cast iron construction, in accordance with the requirements of B.S. 3464. All gate valves required for fitting to buried water mains shall be of cast iron construction in accordance with

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the requirements of B.S.1218.

All gate valves up to and including 65mm nominal bore shall be of bronze construction in accordance with the requirements of B.S. 1952.

The pressure classification of all valves shall depend upon the pressure conditions pertaining to the site of works.

# c) <u>Globe Valves</u>

All globe valves up to and including 65mm nominal bore shall be of bronze construction in accordance with the requirements of B.S.3061.

The pressure classification of all globe valves shall depend upon the pressure conditions pertaining to the site of works.

# 3.2.3 <u>Waste Fitment Traps</u>

# a) <u>Standard and Deep Seal P & S Traps</u>

Where standard or deep seal traps are specified they shall be manufactured in suitable non-ferrous materials inaccordance with the full requirements of B.S. 1184.

In certain circumstances, cast iron traps may be required for cast iron baths and in these instances bath trapsshall be provided which are manufactured in accordance with the full requirements of B.S.1291.

# b) <u>Anti-Syphon Traps</u>

Where anti-syphon traps are specified, these shall be similar or equal to the range of traps manufactured byGreenwood and Hughes Limited, Deacon Works Littleshampton, Sussex, England. The trade name for traps manufactured by this company is 'Grevak'.

#### 3.2.4 <u>Pipe Supports</u>

a) <u>General</u>

This sub-clause deals with pipe supports securing pipes to the structure of buildings for above groundapplication.

The variety and type of support shall be kept to a minimum and their design shall be such as to facilitate quickand secure fixings to metal, concrete, masonry or wood.

Consideration shall be given, when designing supports, to the maintenance of desired pipe falls and therestraining of pipe movements to a longitudinal axial direction only.

The Sub-contractor shall supply and install all steelwork forming part of the pipe support assemblies and shallbe responsible for making good damage to builders work associated with the pipe support installation.

The Sub-contractor shall submit all his proposals for pipe supports to the Engineer for approval before anyerection works commence.

#### b) <u>Steel and Copper Pipes and Tubes</u>

Pipe runs shall be secured by clips connected to pipe angers, wall brackets, or trapeze type supports.

'U' boltsshall not be used as a substitute for pipe clips without the prior approval of the Engineer. An approximate guide to the maximum permissible supports spacing in metres for steel and copper pipe andtube is given in the following table for horizontal runs.

Size Nominal Bores	Copper Tube to B.S. 659	Steel Tube to B.S. 1387
15	1.05	2.0
15mm	1.25m	2.0m
20mm	2.0m	2.5m
25mm	2.0m	2.5m
32mm	2.5m	3.0m
40mm	2.5m	3.0m
50mm	2.5m	3.0m
65mm	3.0m	3.5m
80mm	3.0m	3.5m
100mm	3.0m	4.0m
125mm	3.0m	4.5m
150mm	3.5m	4.5m

The support spacing for vertical runs shall not exceed one and a half

times the distances given for horizontal runs.

c) Expansion Joints and Anchors

Where practicable, cold pipework systems shall be arranged with sufficient bends and changes of direction to absorb pipe expansion providing that the pipe stresses are contained within the working limits prescribed in the relevant B.S. specification.

Where piping anchors are supplied, they shall be fixed to the main structure only. Details of all anchor design proposals submitted to the Engineer for approval before erection commences.

The Sub-contractor when arranging his piping shall ensure that no expansion movements are transmitted directly to connections and flanges on pumps or other items of plant.

The Sub-contractor shall supply flexible joints to prevent vibrations and other movements being transmitted fropumps to piping systems or vice versa.

# 3.2.5 <u>Sanitary Appliances</u>

All sanitary appliances supplied and installed as part of the Sub-contract works shall comply with the general requirements of B.S. Code of Practice 305 and the particular requirements of the latest B.S.Specifications. They shall be as described in the bill of quantities.

# 3.2.6 <u>Pipe Sleeves</u>

Main runs of pipework are to be fitted with sleeves where they pass through walls and floors. Generallythe sleeves shall be of P.V.C. except where they pass through the structure, where they shall be mild steel. The sleeves shall have 6mm - 12mm clearance all around the pipe or for insulated pipework all around the installation. The sleeve will then be packed with slag wool or similar.

# 3.3 **INSTALLATION**

# 3.3.1 General

Installation of all pipework, valves, fittings and equipment shall be carried out under adequate supervision from skilled staff to the relevant codes and standards as specified herein. The Sub- contractor shall be responsible to the Main Contractor for ensuring that all builders work associated with his piping installation is carried out in a satisfactory manner to the approval of the Engineer.

# 3.3.2 Above Ground Installation

#### a) <u>Water Services</u>

Before any joint is made, the pipes shall be hung in their supports and adjusted to ensure that the joiningfaces are parallel and any falls which shall be required are achieved without springing the pipe.

Where falls are not shown on the Contract Drawings or stated elsewhere in the Specification, pipework shall be installed parallel to the lines of the buildings and as close to the walls, ceilings, columns, etc., as ispracticable.

All water systems shall be provided with sufficient drain points and automatic air vents to enable themto function correctly. Valves and other user equipment shall be installed with adequate access for operation and maintenance. Where valves another operational equipment are unavoidably installed beyond normal reach or in such position as to be difficult to reach small step ladder, extension spindles with floor or wall pedestals shall be provided.

Screwed piping shall be installed with sufficient number of unions to facilitate easy removal of valves and fittings, and to enable alterations of pipework to be carried out without the need to cut the pipe.

Full allowances shall be made for the expansion and contraction of pipework, precautions being taken to ensure that any force produced by the pipe movements are not transmitted to valves, equipment or plant.All screwed joints to piping and fittings shall be made with P.T.F.E. tape. The test pressure shall be maintained by the pump for about one hour and if there is any leakage, it shall be measured by the quantity of water pumped into the main in that time. A general leakage of 4.5 litres per 25mm of diameter, per 1.6 kilometres per 24 hours per 30 metres head, may be considered reasonable butany visible individual leak shall be repaired.

b) <u>Sanitary Services</u>

Soil, waste and vent pipe system shall be installed in accordance with the best standard of modern practice as described in B.S. 5572 to the approval of the Engineer.

The Sub-contractor shall be responsible for ensuring that all ground waste fittings are discharged to a gullytrap before passing to the sewer via a manhole.

The Sub-contractor shall provide all necessary rodding and inspection facilities within the draining system inpositions where easy accessibility is available.

Where a branch requires rodding facilities in a position to which normal access is unobtainable, then that branch shall be extended so as to provide a suitable purpose made rodding eye in the nearest adjacent wall orfloor to which easy access is available.

The vent stacks shall terminate above roof level and where stack passes through roof, a weather skirt shall be provided. The Sub-contractor shall be responsible for sealing the roof after installation of the stacks.

The open end of each stack shall be fitted with a plastic coated or galvanised steel wire guard.

Access for rodding and testing shall be provided at the foot of each stack.

c) <u>Sanitary Appliances</u>

All sanitary appliances associated with the Sub-contract works shall be installed in accordance with the beststandard of modern practice as described in C.P. 305 to the approval of the Engineer.

#### 1.1. <u>TESTING AND INSPECTION</u> 3.4.1 Site Tests – Pipework Systems

# a) <u>Above Ground Internal Water Services Installation</u>

All water service pipe system installed above ground shall be tested hydraulically for a period of ten hours tonot less than one and half times to design working pressure.

If preferred, the Sub-contractor may test the pipelines in sections. Any such section found to be satisfactory need not be the subject of a further test when system has been completed, unless specifically requested by the Engineer.

During the test, each branch and joint shall be examined carefully for leaks and any defects revealed shall bemade good by the Sub-contractor and the section re-tested.

The Sub-contractor shall take all necessary precautions to prevent damage occurring to special valves and fittings during the tests. Any item damaged shall be repaired or replaced at the Sub-contractor's expenses.

b) Above Ground Soil Waste and Ventilation System

All soil, waste and ventilating pipe system forming part of the above ground installation, shall be given appropriate test procedures as described in B.S. 5572, 1972.

Smoke tests on above ground soil, waste and ventilating pipe system shall not be permitted. Pressure tests shall be carried out before any work which is to be concealed is finally enclosed. In all respects, tests shall comply with the requirements of B.S. 5572.

# 3.4.2 <u>Site Test – Performance</u>

Following satisfactory pressure test on the pipework system operational tests shall be carried out in accordance with the relevant B. S. Code of practice on the systems as a whole to establish that special valves, gauges, control, fittings, equipment and plant are functioning correctly to the satisfaction of the Engineer.

All hot water pipework shall be installed with pre-formed fibre glass lagging to a thickness of 25mm where the pipe runs above a false ceiling or in areas where the ambient temperature is higher than normal with the esult that pipe "sweating", due

to condensation will cause nuisance.

All lagged pipes which run in a visible position after erection shall be given a canvas cover and prepared forpainting as follows:

i) Apply a coating of suitable filler until the canvas weave disappears and allow to dry.

ii) Apply two coats of an approved paint and finish in suitable gloss enamel to colors approved by the Engineer.

All lagging for cold and hot water pipes erected in crawlways, ducts and above folse calling which after erection are not visible from the corridors of rooms, shall be con-

false ceiling which after erection are not visible from the corridors of rooms, shall be covered with a reinforcedaluminium foil finish banded in colours to be approved by the Engineer.

In all respects, unless otherwise stated, the hot and cold water installation shall be carried out in accordance with the best standard of modern practice and described in C.P.342 and C.P.310 respectively to the approval of the Engineer.

The test pressure shall be applied by means of a manually operated test pump or, in the case of long main ormains of large diameter, by a power driven test pump which shall not be left unattended. In either case precautions shall be taken to ensure that the required pressure is not exceeded. Pressure gauges should be recalibrated before the tests.

The Sub-contractor shall be deemed to have included in his price for all test pumps, and other equipmentrequired under this specification.

The test pressure shall be one and a half times the maximum working pressure except where a pipe is manufactured from a material for which the relevant B.S. specification designates a maximum test pressure.

### 3.5 STERILISATION OF COLD WATER SYSTEM

All water distribution system shall be thoroughly sterilised and flushed out after the completion of all tests andbefore being fully commissioned for handover.

The sterilisation procedures shall be carried out by the Sub-contractor in accordance with the requirements of B.S.Code of Practice 301, Clause 409 and to the approval of the Engineer.

#### ENERAL SOLAR WATER HEATING SPECIFICATIONS

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### SOLAR WATER HEATING SYSTEM

### **GENERAL SOLAR WATER HEATING SPECIFICATIONS**

### 1.1.0 QUALITY OF MATERIALS AND WORKMANSHIP

### 1.1.1 General

All materials, equipment and accessories are to be new and in accordance with the requirements of the current rules and regulations where such exist, or in their absence with the relevant British/European standard.

Uniformity of type and manufacture of equipment or accessories is to be preserved as far as practicable throughout the whole work.

If in this specification, the practice is adopted of specifying a particular item as "similar" to that of a particularfirm's product, it is to be clearly understood that this is to indicate the type and quality of the equipment required. No attempt is being made to give preference to the equipment supplied by a firm whose name or products is being quoted.

Where particular manufacturers are specified herein, na alternatives makes will be considered, and the Engineershall be allowed to reject any other makes.

The tenderer will be entirely responsible for all the materials, apparatus, equipment, etc in connection to hiswork, and shall take special care to protect all parts of finished work from damage until handed over to the Employer.

The work shall be carried out by competent workmen inder skilled supervision. The Engineer shall have authority to have any of the work taken down or changed, which is executed in any unsatisfactory manner. The works shall be carried out strictly in accordance with:

- a) British Standard B.S. 5918, Domestic hot water supply and solar water heatingSystem
- b) "British code of Practice" C.P. 310: Water Supply
- c) British Standard code of Practice" C.P. 342: Centralized Hot water supply
- d) All other relevant British standard Specifications and Codes of Practice (hereinafter referred to as B.S and C.P respectively.)
- e) By-Laws of the Local Authority
- f) The "Specification" and the "Particular Specification"
- g) The tender/working drawings
- h) The engineer's Instructions.

The drawings and specifications are to be read as a whole and are to explain each other. Work shown on thedrawings and not described in the specifications or vice versa shall be duly executed under the contract.

## 1.1.2 Solar Panel – Construction

Solar panels shall be Bosch solar thermo siphon system flat plate solar collectors. The structure of the collectorand its components must withstand local extreme environmental conditions including winds, storm etc.

#### 1.1.2.1 Solar Panel – External Construction

a) Glazing material shall be transparent and non-reflective to solar radiation. Total surface heating area of the solar panel shall be as specified elsewhere. The top of the panel shall be a single transparentglazed glass sheet. The glazed glass shall be as low-iron tempered glassor equivalent. The thickness of the glazed glass shall be 3 mm.

The glazing and the holding construction shall have thermal characteristics to withstand extreme local temperatures and also thermal shock due to storms etc. Gasket for the glazing shall be EPDMgasket or similar.

During accidental breakage of the glazing, the glazed glass sheet shallbe replaceable at site.

b) Solar panel collector casement shall be rigid, structurally sound and corrosion resistant. Sides and bottom of panel shall be 24 gaugegalvanized mild steel sheet or 2mm aluminium sheet.

Galvanized mild steel sheet shall be etched primed and applied withtwo coats of approved oil-base paint. 4 mm to 6 mm breathing hole shall be provided on the galvanized mild steel casing for the removal of moisture content formed due tocondensation within the panel.

c) The panel/glass construction shall be weatherproof. Pipework joints and collector interconnection shall be water proof.
 Approved siliconegasket or similar to be used at the panel connections.

#### 1.1.2.2 Solar Panel - Internal Construction

 a) Absorber - Shall be located directly beneath the glass sheet and fullycover the internal area of the panel. Absorber shall be made of copper sheet or aluminium with a selectivesurface chemically treated similar to the black chrome finish or similar. The selective surface shall achieve 95% absorptivity of solarradiation and 15 to 20% emissivity of infra-red radiation. The absorber and the selective surface shall not be affected during life span of the absorber.

#### b) Heat Exchanger

Copper tubes and fittings shall be utilized for internal panel pipework and in accordance with B.S. 2871 or similar. All joints and connections between the riser and header tubings shall be leak proof and stand to hydraulic pressure tests.

The collector to be pressure tested to withstand a pressure of  $8 \text{ kg/cm}^2$ . whichever is greater. In general, collectors shall be pressure tested at 15 times the rated operating gauge pressure of  $8 \text{ kg/cm}^2$ , which ever is greater.

A certificate of pressure testing to be issued when required and requested by the Engineers.

#### c) Insulation

The underside of the absorber, inclusive headers and the outer casing internal sides shall be insulated with 50 mm fibre glass insulation, minimum density 64 kg/m<sup>3</sup>. The insulation shall be non- combustible and shall withstand maximum continuous operating temperature of  $200^{\circ}$ C(and minimum operating temperature of  $-50^{\circ}$ C).

#### 1.1.2.3 Hot Water Solar Cylinder

- a) The hot water solar cylinder shall have a nominal capacity as specified on the contract drawing and particular specification to the designed highest water level. The hot water cylinder shall have a separate feed tank attached to it.
- b) The cylinders and the feed tanks shall comply with B.S. 417, 699, 2777, 4214, 1565, 1566 and 3198. Refer also Water Storage tanks as specified elsewhere. The Cylinder and tanks shall be supplied complete with screwed BSPF parallel thread flanged connections for flow, return, vent, overflow anddrain pipes.
- c) Cylinder shall be provided with a magnesium electrode as corrosion protection, weight: minimum

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1.5 kg. and have an inspection cover to facilitate renewal of the electrode.

- d) The cylinder shall be galvanized, after manufacture in accordance with the requirements of BS. 729Part 1 and pressure tested in accordance with the above B.S. A certificate of pressure testing to be be when required and requested by the Engineers/Project Manager's Representative. Refer also to "Protection of Metal surface" as specified elsewhere in the specification.
- e) Insulation

The cylinder shall be insulated on all the sides with 100 mm fibreglass, or 100 mm thick foaminjected polyurethane. At the inspection cover the insulation shall be easily removable.

(f) Cladding

The insulation shall be fully laded with 24 gauge galvanized M.S. Sheet.

### 1.1.2.4 Flow and Return Pipework

Pipework shall be galvanized mild steel medium duty and in accordance with BS. 1387, and insulated as specified.

### INSTALLATION

### 1.1.2.5 Solar panel

### a) Location

The solar panel shall where physically possible be installed facing South. Where it is not practical for the solar panel to face due South, the maximum allowance variation shall be  $45^{\circ}$ .

### b) Angle of Inclination

The solar panels for maximum efficiency should be fitted at an angle equal to the latitude of the installation area. Minimum angle of inclination should be  $5^0$ .

c) Solar panel shall be mounted on angle frame and rise to flow outletaccording to manufacturer's specifications.

### 1.1.2.6 Solar Cylinder

### a) For Standard Thermosyphon

The solar cylinder shall maintain a minimum horizontal distance of 300mm above the highest point of the solar panel installation

### b) For low Thermosyphon

The solar cylinder shall maintain a flow line up grade of 1. 20 minimums where the low profilethermosyphon system is utilized.

### 1.1.2.7 Flow and Return Pipework

### (a) Joints

All joints between ferrous and copper piping shall be made with dielectric pipe unions for the prevention of electrolytic corrosion.

### (b) Penetration through Roof decking.

Where pipes penetrate the roof decking, they shall be provided with a sleeve that fits around thepipe making a weatherproof joint between roof and pipe.

### (c) Insulation

All pipework between solar panel and storing tank to be insulated with 25 mm fibreglass whereexposed to weather, covered with 24 gauges galvanized M.S. sheet cladding and weatherproofed. All insulation for supply and return pipework in roof space shall be covered with cotton canvas. All insulation shall be in accordance with BS. 1334 unless otherwise specified.

### 1.3.3.4 Drain, overflow and Vent Pipework

- (a) The drain and overflow pipework from the solar cylinder shall Terminate approximately 75 mm away from the nearest drain outlet.
- (b) Vent pipe from the solar cylinder shall terminate approximately 150 mm over the top

water level in the solar cylinder feed tank.

(c) Provided drain valve for the solar panel. Drain valve shall be firmlyClamped in order to avoid leaks at the joints during operation.

### 1.3.3.5 Valves

- (a) Copper alloy gate valves complying with BS.1952 shall be installed on flow and return pipework prior to it being connected to the solar cylinder.
- (b) The solar cylinder and panel shall be supplied with stop valves forDraining and to comply with BS 1010.

### 1.3.3.6 Inter connection of solar panels

Shall be done utilizing Neoprene tubing or Stainless Steel connector or equivalent, fitted with clampsand able to withstand the working pressure.

### 1.3.3.7 Precaution

Solar panel glass shall be adequately protected against cracking and the protection removed only when the solar system is commissioned.

#### 1.1.3 Alternate Solar Heating System

Should the contractor intend utilizing an alternate equivalent solar heating system to the one specified under this contract, he shall when submitting his tender provide the Engineer with all necessary information such as material used, construction detail, installation procedure etc. for his approval.

### 1.1.4 Test and Efficiency Certificates

The Contractor shall provide test and efficiency certificates for the solar panels proposed for the

installation in accordance with methods outlined in ASHRAE

23-77.Certificates for the following tests shall be provided:

- 1. No flow 30 day exposure
- 2. Peak exposure test
- 3. Solar collector Thermal Shock/Water spray test
- 4. Solar Collector Thermal Shock/Cold Fill test
- 5. Solar Collector leak and pressure test
- 6. Thermal efficiency/performance test.

The Contractor shall also provide documentary evidence regarding the absorber sheet, the selective coatings and its optical performances (absorptivity and emissivity factors).

#### 1.1.5 Pipework above Ground

Before any joint is made, the pipes shall be hung in their supports and adjusted to ensure that the joiningfaces are parallel and any falls which shall be required are achieved without springing the pipe.

Where falls are not shown on the contract drawings or stated elsewhere in the specification, pipeworkshall be installed parallel to the lines of the building.

All water systems shall be provided with sufficient drain points and automatic air vents to enable themto function correctly. Valves and other user equipment shall be installed with adequate access for operation and maintenance.

Where valves and other operational equipment are unavoidably installed beyond normal reach or in such a position as to be difficult to reach from a short step ladder, extension spindles wit floor or wall pedestals shall be provided.

Screwed piping shall b installed with a sufficient number of unions to facilitate easy removal of valves and fittings, and to enable alterations I=of the pipework to be carried out without the need to cut the pipe.

Full allowance shall be mad for the expansion and contraction of pipework, pre cautions being made toensure that any forces produced by pipe movements are not transmitted to valves, equipment or plant.

All tubing exposed on faces of walls shall, unless otherwise specified, be fixed at least 25mm clear of adjacent surfaces with approved holder bats built into the walls, cut and pinned to walls in cement mortar. Where fixed to woodwork, suitable clips shall be used.

All tubings specified as chased into walls shall have the wall face neatly cut and chased, the tubingwedges and fixed and plastered over.

All tubing specified as fixed to ceilings, roofs of roof structures shall be fixed with approved mild steelhangers cut and pinned to ceilings, roofs or roof strictures.

Where three or more tubes are fixed to the ceilings, roofs or roof structures close to each other, they shall be fixed in positions, which leave the lower surfaces at the same horizontal level, unless otherwisespecified. Tubes fixed to steel work shall be fixed with clips and tap screws.

Tubes shall be fixed to true lines parallel to adjacent lines of the building unless otherwise specified. Where insulated, tubing shall be fixed with the insulation at least 25mm clear of the adjacent surfaces.Pipe runs shall be secured by pipe clips connected to pipe hangers, wall brackets or trapeze type supports. 'U' bolts shall not be used as a substitute for the pipe clips without prior approval of the Engineer. An approximate guide to the maximum permissible supports spacing in meters for the steeland copper pipe is given in the following table for horizontal runs.

<u>Size</u>	<u>Maximum support</u>
Nominal Bores	Spacing
15mm	2.0m
20mm	2.5m
25mm	2.5m
32mm	3.0m
40mm	3.0m
50mm	3.0m
65mm	3.5m
80mm	3.5m
100mm	4.0m

Each support shall take its due proportion of the weight of the pipe and shall allow free movement for expansion and contraction. The support spacing for vertical runs shall not exceed one and a half times the distances given for the horizontal runs.

Sleeves shall provided where pipes pass through walls and solid floors to allow movement of the pipes withoutdamage to the structure. The overall length of the sleeve shall be such that it projects at least 2mm beyond thefinished thickness of the wall or partition.

Sleeves passing through the structure shall be of mild steel. Elsewhere they shall be of PVC. The sleeves shall have 5-15mm clearance all round the pipe, or for insulated pipework, all round the insulation. The sleeves shallbe packed with slag wool or similar.

Unless anything else is stated in the specification, the tenderer must include in his tender for all protective andfinish painting of the works including colour coding of special requirements, if any, are specified in the text of the particular specification. The painting shall be carried out by skilled painters.

### 1.1.5.1 Galvanized Mild steel Tubing

Galvanized mild steel tubing shall be in accordance with B.S 1387 with screwed and socketed joints. Fittings for the same shall be galvanized malleable iron to B.S 143 & 1256 threads to BS 21.

Joints shall be made with fine hemp and an approved jointing compound or with Teflon sealing tape.Compound containing red lead must be used, unless otherwise specified. All changes of direction shall be obtained by us e of proper fittings. Formed bends shall not be accepted.Long screw connectors and flat-faced unions shall not be used, unless otherwise specified.

Where chased into walls or cast in concrete, galvanized mild steel tubing carrying hot water shall be wrapped with hair felt secured by copper wire.

The fixing of galvanized mild steel tubing shall be done using:

- a) Malleable iron "school board" pattern brackets for building in or screwing to structure or
- b) Malleable pipe rings, with either back plate, plugs or girder clips or
- c) Purpose made straps to Engineer's Approval.

#### 1.1.5.2 Copper Tubing

Copper tubing shall be light gauge conforming to B.S. 2871 and the fittings shall be capillary or compression fittings to B.S. 864 of approved manufacture.

Joints on tubing up to and including 50 mm diameter, shall be compression or capillary joints or directjoints using zinc-free self-fluxing silver brazing alloys. Joints on tubing above 50 mm diameter shall be welded or blazed joints.

Copper tubing shall be jointed to steel cisterns by the use of copper-alloy connector having a shoulder tobear on the outside of the cistern and secured by a back nut inside. Washers shall be used both inside thecistern.

Where chased into walls or cast in concrete, copper tubing shall be wrapped with corrugated cardboardor hair felt secured by copper wire.

The fixing of copper tubing shall be done by using :-

a) Copper-alloy holderbats for building in, or screwing to structure.

Or

b) Strap clips of copper, copper-alloy or other suitable material.

Or

c) Gunmetal holderbats similar to

"YORKSHIRE", Iron or steel supports shall not be

used for copper tubing.

All bends and sets shall be formed without diminishing the internal diameter in any part or causingfracture or weakness of the tube walls.

#### 1.1.5.3 Valves, Cocks, Taps Etc. Gate Valves

All gate valves up to and including 65mm nominal bore and above, other thanthose required forfitting to buried water mains shall be of bronze construction in accordance with the requirements of B.S.5154. The pressure classification of all gate valves shall depend upon the pressure conditions pertaining to the site of the works.

The pressure classification of all gate valves shall depend upon the pressure conditions pertaining to the Site of Works.

### **Globe Valves**

All globe valves up to and including 65 mm nominal bore shall be of bronze construction in accordance ith B.S. 2060.

All globe valve 80 mm nominal bore and above shall be of cast iron construction in accordance with the requirements of B.S. 3961.

The pressure classification of all globe valves shall depend upon the pressure conditions pertaining to the Site of Works.

### Check or Non-Return Valves

All check or non-return valves up to and including 65 mm nominal bore shall be of the swing check type ofbronze construction in accordance with B.S. 1953.

All check or non-return valves 80 mm nominal bore and above shall be of the swing check type of castiron construction in accordance with the requirements of B.S. 4090.

The pressure classification of all check or non-return valves shall depend on the pressure conditions pertaining to the Site of work

### **Ball Float Valves**

All ball valves for use in connection with hot and cold water services shall be of the Portsmouth type in accordance with the requirements of B.S. 1212, constructed from bronze or other corrosion resistant materials. These valves fall into three pressure classification as follows:-

(i) Low pressure -3.588 bar maximum

- (ii) Medium pressure 7. 725 bar maximum.
- (iii) High pressure 12. 620 bar maximum.

The pressure Classification required for each ball valve will be designated in the description of its associated equipment.

### Safety Valves

Safety valves for thermal storage water heaters shall comply with B.S. 759

**Draw-Off Taps and Stop Valves** (up to 50 mm nominal bore)

Draw-off taps and stop valves up to 50 m nominal bore, unless otherwise stated or specified, for attachment orconnection to sanitary fittings shall be manufactured in accordance with the requirements of B.S. 1010.

Mixing valves for shower fittings and other appliances shall be manufactured in accordance with therequirements of B.S. 1415 from bronze or other corrosion resistant materials.

#### 1.1.5.4 Thermal Insulation

Insulation shall be installed by tenderer specializing in this type of work.

All primary hot (flow and return pipes) and secondary hot water and circulation pipes shall be insulated. Thermal insulating material for hot water supply insulation shall conform to B.S. 1334 unless otherwise specified. Materials shall have fire retardant qualities.

Insulation shall be fiberglass, minimum density 64 kg/m<sup>3</sup>. Premolded fittings shall be used, or if unavailable, metered sections or built-up blanket insulation shall be used.

Insulation shall be fastened in concealed locations with aluminium bands or soft annealed wires and shall befastened in exposed locations with aluminium bands, 30 cm. (12inches) o.c.

Each pipe item shall be insulated separately. Insulation must be carried through or around hangers. All insulating materials, however fixed, shall be in close contact with the surface to which it is applied and alljoints shall be sealed after ensuring that edges or ends of any section built up close to one another. Edges orends shall be cut or sharpened on site as necessary.

All surfaces to be insulated shall be cleaned carefully before fixing the insulating material. Whereby subject tooutside weather or other potentially damp or wet conditions, the insulation shall be adequately protected againstmoisture pick-up with weatherproof jacketing. Elsewhere, the insulation shall be finished with open weave glasscloth and finish coats of adhesive or paint to approval.

Fixing of insulating material shall suit the progress of other installation works in the building. All thermal insulating materials shall be delivered to the site in a dry condition and housed in a store until drawnupon for use. If nothing else is specified, the minimum thickness of insulating material for hot water pipes shall be 25 mm.

Equipment, such as tanks, shall be insulated with 50 mm fibre glass board and finished with open weave glasscloth and finish coats of adhesive or paint to approval.

### 1.1.6 Water Storage Tanks

### 1.1.6.1 Cold Water Storage Tanks

Where specified as galvanized mild steel, water storage tanks shall comply with B.S. 417. Galvanizing shall take place after manufacture. The engineer shall witness galvanising at the factory

Pressed steel sectional water storage tanks shall comply with B.S. 1564, and shall be similar in manufacture to "BRAITH-WAITE".

Water storage tanks shall be mosquito proofed by means of well fitting bolted cover bedded on a thick gasket offelt or bitumen.

Overflow pipes from tanks shall discharge into air or floor gullies where nearby positioned, with splay cut endsmosquito proofed by means of wire gauze tightly bound on with stout galvanized wire or soldered on.

### 1.1.6.2 Thermal Storage Water Heaters

The pressure and low pressure types domestic electric water heaters shall comply with B. S. 843; high pressure types shall be of a Standard not less than the appropriate B.S.

Domestic heaters shall, if nothing else is specified, be supplied with 50 mm thick fibre glass lagging. Electric thermostatically controlled immersion heaters shall comply with B.S. 3456: Section 2:21 and C.P.324.202.

Purpose made storage water heaters of the specified size shall comply with B.S.853 and shall be to the specified working and test pressure. The heaters shall be provided with all necessary bosses, coils, etc. and shall be hot dipgalvanised after manufacture.

### 1.1.6.3 Pressure Vessels

Pressure vessels shall be manufactured in accordance with B.S. 1500 A for the specified pressure and be fitted with all necessary openings and connections.

#### 1.1.7 **Protection of metal surfaces**

Machinery, equipment, etc. shall be tropicalized and with protective treatment fully suitable for application and in the prevailing climatic conditions.

Full details of tropicalization and comprehensive paint treatments, to a dry film thickness of nowhere less than 200 microns, shall be submitted for the approval of the Consultant.

All metalwork shall be protected by either:-

(a) Hot dip galvanizing; where painted treatment shall be 50 microns epoxy primer or 5-10 microns wash-primer; 30 microns modified alkyd undercoat and 30 microns enamel finish,

#### Or

(b) Metallic lead epoxy primer, epoxy micaceous iron oxide, micaceousiron oxide modified alkyd undercoat and enamel finish, layers minimum 30 microns each.

Surfaces of metalwork shall be thoroughly brushed down with wire brushes to remove all scale, rust, etc., and structural steelwork shall be grit blasted before protective treatment.

All paint shall be applied fully in accordance with the manufacturer's instructions.

All water tanks inclusive covers, machinery casings, claddings and whosesoever specified shall be protected byhot dip galvanizing.

Hot dip galvanized coatings shall be executed in accordance with British Standard BS 729. The values for coating weight shall be as follows to B.S 729:-

5 mm thick and over -	610 to 630 g/m (87 –90 um)
Under 5 mm but not less than 2 mm	- 460 to 490 g/m (66 – 70 um)
Under 2 mm but not less than 1 mm	- 335 to 350 g/m (48 – 50
um) Grey and malleable iron castings	- 610 to 630 g/m (87

– 90 um)

Threaded work and other articles

which are centrifuged - 305 to 315 g/m (44 –45 um)

For conversion to coating thickness unit weight of zinc shall be assumed 7 g/cm<sup>3</sup>. The values stated shall be taken as minimum average values for a set of samples. Individual minimum values shall be introduced as the above mentioned minus 10%.

When galvanized coats are damaged, e.g. threaded pipe connections made on site, the exposed parts shall berepaired with same paints as for additional coating. Colour grey.

Galvanised steel plates shall have a minimum of 25 years of warranty against rust, corrosion or anyother damagedue to poor galavanization.

## 1.1.8 Instrumentation

Instrumentation shall be provided as indicated on the drawings and specified in the specifications.Pressure gauges shall be installed on the pipe at both sides of pumps.

Pressure gauges shall be fitted with shutoff cock, read in the pressure range of system, minim 12 cm. (4  $^{1}/_{2}$  inch) dial, adjustable angle face, white face with black figures and pointer.

Thermometers shall be installed with separable sockets. Bronze sockets shall be used in nonferrous systems and stainless steel in ferrous systems.

Thermometers shall be mercury actuated,  $12 \text{ cm} (4^{1}/2 \text{ inch})$  dial, adjustable angle face with black figures and pointer.

Where recording thermometers are required, they shall have chart 25 cm.(10 inches) in diameter, shall operate with one pen on 24 hour charts, with a range  $10^{\circ}$ C to  $105^{\circ}$ C ( $50^{\circ}$ F to  $220^{\circ}$ F).

## 1.2 COMMISSIONG AND MAINTENANCE

### 1.2.1 <u>Commissioning and Testing</u>

The tenderer for solar heating system shall be responsible for testing and commissioning of the solar installation. The testing and commissioning shall be done in the presence of the Engineer. The tenderer shall be held responsible for any damage to the builders work, during the installation, initial system testing etc.

When installation is completed, an acceptance test shall be carried out on the tenderer's own expense. All hot water pipes, including flow and return, solar absorbers, cylinders, cisterns, tanks, calorifiers, pumps, etc.shall be thoroughly sterilized and flushed out after the completion of all tests and before being fully commissioned for handover.

The sterilization procedure shall be carried out by the tenderer or specialists employed by the tenderer in accordance with the requirements of B.S. Code of Practice 310, Clause 409, to the approval of the Engineer. Before handing over, the tenderer shall confirm that the installation has been examined, tested, is ready for use, that it will operate and can be maintained efficiently.

The whole of the solar heating installation shall be tested to the satisfaction of the Engineer and the LocalAuthority.

The tenderer shall provide all necessary testing apparatus and facilities for testing the installations and any defective work shall be replaced immediately and shall be the subject of re-testing until found satisfactory. Where pipes are to be lagged, chased into walls or otherwise concealed, the work shall be tested prior to lagging, making good chases, etc.

The complete solar heating installations, including flow and return pipes shall, if nothing else is specified, betested to a cold water pressure of not less than 1.5 times the working pressure, minimum  $8 \text{ kg/cm}^2$ .

The test pressure shall be applied by means of a manually operated test pump or, by a power-driven test pump.Pressure gauges shall be recalibrated before the test.

The test pressure shall be maintained by the pump for about one hour and a leakage as specified in C.P

310, Section 502 J shall be approved, but any visible individual leak shall be repaired.

Valves, cocks and taps shall be absolutely tight under the test pressure for the corresponding pipes as well asunder a small pressure.

Upon completion of the work, including re-testing if necessary, the installations shall be thoroughly flushed outand water pipes refilled with clean water ready for use.

Any defects revealed by the tests shall be made good by the tenderer and the test repeated to the approval of theEngineer.

In all other respects, test shall comply with the requirements of B.S. Code of Practice 304. Following satisfactory pressure tests on the pipework system, operational tests shall be carried out in accordance with the relevant B.S. Codes of practice on the systems as a whole to establish that special valves, gauges, controls, fittings, equipment and plant are functioning correctly to the satisfaction of the Engineer.

## 1.2.2 Spare Parts

The tenderer shall submit with the tender a guarantee that he will hold a sufficient number of spare parts for the maintenance of the equipment.

If specific requirements for supply of spare parts are specified in the bill of quantities or schedule of prices, these spare parts shall be supplied to the client/employer, when the installations are handed over the tenderer shall submit with his tender a priced list of any optional extras, which he recommends should bepurchased for the plants and are not supplied as standard with the unit.

### 1.2.3 Defects Liability and Contractual Maintenance Period

The tenderer shall maintain the complete installation in the total defects liability period and shall be responsible for the initiation and execution of the clients/employer planned programme of maintenance during this period. During this maintenance period the tenderer shall carry out all necessary adjustments and repairs, cleaning and lubricating, ect. A report of any work shall be submitted to the Client and incorporated in the maintenance records.

The tenderer shall be held responsible for and shall make good all defects in materials that appear during the maintenance period; he shall supply expendable items, such as gaskets, filters, indicator lamps, etc. The period of liability shall not end until all defects which appear during the maintenance period have been rectified.

The tenderer shall allow in his Contract price for this maintenance and inspection service and shall provide for all tools, instruments, plant and scaffolding, and the transportation thereof, as required for the correct and fullexecution of these

obligations, and the provision, use or installation of all materials whether they are normal maintenance materials uch as oils, greases, sandpaper, etc. and parts which are periodically renewed such as relay contracts or parts which are faulty for any reason whatsoever excepting always Acts of God such as a storm, tempest or flood, lightning and earthquake; civil revolt, acts of war and vandalism.

### 1.2.4 Maintenance Manual

Upon completion the tenderer shall furnish to the Client four copies of a manual size A4 of loose leaf typecontaining all the following items:-

- a. Description of equipment
- b. Full operation and maintenance instructions
- c. Valve operation
- d. Fault-finding chart
- e. Emergency procedure
- f. Maintenance and service periods
- g. Lubricating instruction
- h. Colour code legend
- i. Schedule of primary and secondary spares
- j. Record drawing Folded to size A4.

The manual must be specially written and not standard manufacturers manual unless approved by the Engineer. Tags giving instructions are not permitted. All instructions must be written into the manual

with reference to thedrawings.

All valves, terminals and controls on the plant shall be labeled to correspond with the maintenance and operation manuals.

**1.2.5** Maintenance and Service After Expirations of the Contractual Maintenance Period The tenderer shall if required, enter into a maintenance and service agreement with the employer for the complete installation, for a period of up to five years from the day of expiration of the contractual maintenanceperiod.

The terms of any such agreement shall not be less beneficial to the Client, than the terms of agreement for othersimilar installations.

### SOLAR WATER HEATING SYSTEM TECHNICAL QUESTIONNAIRE

The following information shall be supplied by tenderer regarding the solar flat plate collectors proposed:

1. 	Manufacturer/Trade Mark
2.	Construction Details of the Collector:
	Aperture Dimensions & Area (m & m <sup>2</sup> )
	Gross Dimensions & Area (m & m <sup>2</sup> )
	Dimensions and Area absorbing surface (m & m <sup>2</sup> )
3.	Solar Panel
	Collector Casement material
	Thickness
	Corrosion Treatment
4.	Glazing
	Material
	Thickness
~	Physical Properties
5.	Insulation Material
	Thickness (mm)
	Thermal properties
6.	Absorber
	Material Absorber plate
	Material for tubes for heat exchange
	Selective Coating
	Absorption Factor
	Emissivity Factor
7.	Solar Cylinder
	Material
	Thickness
	Insulation Material
	Thickness
	Cladding Material

8.	Normal Operating Temparature Range °C
9.	Minimum and Maximum Transfer Fluid Flow Rate kg/sec
10.	Collector's Performance Efficiency:
11.	WARRANTY: The Sub-contractor shall state the equipment warranty period
12,	Any other alternative system. Give remarks on its difference to the onedescribed. Additional paper to be attached if the text is much

### HOSE REELSYSTEM, HOSE REEL, AND FIRE HYDRANT

### INSTALLATIONS

#### 4.1 **GENERAL**

The particular specification details the requirements for the supply and installation and commissioning of the Portable Fire Extinguishers and Boosted Hose Reel System. The Subcontractor shall include for all appurtenances and appliances not necessarily called for in this specification or shown on the contract drawings but which are necessary for the completion and satisfactory functioning of the works.

If in the opinion of the Sub-contractor there is a difference between the requirements of the Specifications and the Contract Drawings, he shall clarify these differences with the Engineer before tendering.

### 4.2 <u>SCOPE OF WORKS</u>

The Sub-contractor shall supply, deliver, erect, test and commission all the portable fire extinguishers and Hose Reel which are called for in these Specifications and as shown on the Contract Drawings.

### 4.3 WATER/CO2 EXTINGUISHERS

These shall be 9-litre water filled CO2 cartridge operated portable fire extinguishers and shall comply with B.S. 1382: 1948 and to the requirements of B.S.4523: 1977. Unless manufactured with stainless steel, bodies shall have all internal surfaces completely coated with either a lead tin, lead alloy or zincapplied by hot dipping. There shall be no visibly uncoated areas.

The extinguishers shall be clearly marked with the following:

- a) Method of operation.
- b) The words 'WATER TYPE' (GAS PRESSURE) in prominent letters.
- c) Name and address of the manufacturer or responsible vendor.
- d) The nominal charge of the liquid in imperial gallons and litres.
- e) The liquid level to which the extinguisher is to be charged.
- f) The year of manufacture.
- g) A declaration to the effect that the extinguisher has been tested to a pressure of 24.1 bar (350psi.).
- h) The number of British Standard 'B.S' 1382 or B.S. 5423: 1977.

### 4.4 **PORTABLE CARBON DIOXIDE FIRE EXTINGUISHERS**

These shall be portable carbon dioxide fire extinguishers and shall comply with B.S. 3326: 1960 and B.S.5423: 1977.

The body of extinguisher shall be a seamless steel cylinder manufactured to one of the following BritishStandards; B.S. 401 or B.S. 1288.

The filling ratio shall comply with B.S. 5355 with valves fittings for compressed gas cylinders to B.S.341. Where a hose is fitted it shall be flexible and have a minimum working pressure of 206.85 bar(3000 p.s.i.). The hose is not to be under internal pressure until the extinguisher is operated.

The nozzle shall be manufactured of brass gunmetal, aluminium or stainless steel and may be fitted with a suitable valve for temporarily stopping the discharge if such means are not incorporated in the operatinghead.

The discharge horn shall be designed and constructed so as to direct the discharge and limit theentrainment of air. It shall be constructed of electrically non-conductive material.

The following markings shall be applied to the extinguishers:-

a) The words "Carbon Dioxide Fire Extinguisher" and to include the appropriate

nominal gascontent.

- b) Method of operation.
- c) The words "Re-charge immediately after use".
- d) Instructions for periodic checking.
- e) The number of the British Standard B.S. 3326: 1960 or B.S. 5423.
- f) The manufacturers name or identification markings

## 4.5 DRY CHEMICAL POWDER PORTABLE FIRE EXTINGUISHER

The portable dry powder fire extinguishers shall comply with BS3465: 1962 and BS 5423. The body shall be constructed to steel not less than the requirements of BS 1449 or aluminium to BS 1470: 1972 and shall be suitably protected against corrosion. The dry powder charge shall be not-toxic and retain it s free flowing properties under normal storage conditions. Any pressurizing agent used as an expellant shall be in dry state; in particular compressed air.

The discharge tube and gas tube if either is fitted shall be made of steel, brass, copper or other not less uitable material. Where a hose is provided it shall not exceed 1,060mm and shall be acid and alkaliresistant. Provision shall be made for securing the nozzle when not in use.

The extinguisher shall be clearly marked with the following information

- a) The word "Dry Powder Fire Extinguisher"
- b) Method of operation in prominent letters.
- c) The working pressure and the weight of the powder charge in Kilogramme.
- d) Manufacturers name or identification mark
- e) The words "RECHARGE AFTER USE" if rechargeable type.
- f) Instructions to regularly check the weight of the pressure container (gas Cartridge) or inspect the pressure indicator on stored pressure types when fitted, and remedy any loss indicated by either.
- g) The year of manufacture.
- h) The Pressure to which the extinguisher was tested.
- i) The number of this British Standard BS 3465 or BS 5423: 1977.
- j) When appropriate complete instructions for charging the extinguisher shall be clearly marked on the extinguisher or otherwise be supplied with the refill.

## 4.6 AIR FOAM FIRE EXTINGUISHER

These shall be of 9 litres capacity complete with refills cartridges and wall fixing brackets and complying with B.S. 5423 with the following specifications:-Cylinder: to B.S. 1449 **Necking:** to be 76mm outside diameter steel EN 3A  $2^3/4$  X 8TPI female

thread.**Head cap**: to be plastic moulding acetyl resin.

CO2 Cylinder:	to be 75gm P.V.C coated.
Internal Finish:	to be polythene lining on phosphate coating.
External finish:	to be phosphated - One coat primer paint and one coat stove enamel
	B.S. 381C.

## 4.7 FIRE BLANKET

The fire blanket shall be made from cloth woven with pre-asbestos yarn or any other fire proof material and to measure 1800 x 1210 mm and shall be fitted with special tapes folded so as to offer instantaneous single action to release blanket from storing jacket.

# 4.8 BOOSTED HOSE REEL SYSTEM

## 6.8.1 <u>General</u>

The Particular Specification details the requirements for the supply, installation and

commissioning of the hose reel installation. The hose reel installation shall comply in all respects to the requirements set out in C.O.P 5306 Part 1: 1976, B.S 5041 and B.S 5274. The System shall comprise of a pumped system.

## 6.8.2 Hose Reel Pumps

The fire hose reel pumps shall consist of a duplicate set of multi-line centrifugal pumps from approved manufacturers. The pumps shall be capable of delivering 5M3/hr at a running pressure of 2 bars.

The pump casing shall be of cast iron construction with the impeller shaft of stainless steel withmechanical seal.

### 6.8.3 <u>Control Panel</u>

The control panel shall be constructed of mild steel 1.0mm thick sheet, be moisture, insect and rodentproof and shall be provided complete with circuit breakers and a wiring diagram enclosed in plasticlaminate.

The pump shall be controlled by a flow switch therefore, the control panel shall include the following facilities:

- (a) 'On' push button for setting the control panel to live.
- (b) Green indicator light for indicating control panel live.
- (c) Duty / Stand-by pump auto change over.
- (d) Duty pump run green indicator light.
- (e) Stand-by pump run green indicator light.
- (f) Duty pump fail red indicator light.
- (g) Stand-by pump fail red indicator light.
- (h) Low water condition pump cut-out with red indicator light.

The pumps are to be protected by a low level cut-out switch to prevent dry pump run when low level

water conditions occur in the water storage tank.

### 6.8.4 Hose Reel

The hose reel to the installation shall consist of a recessed, swing-type hose reel as Angus Fire ArmourModel III or from other approved manufacturers.

The hose reel shall comply with B.S. 5274: 1975 and B.S 3161: 1970 and is to be installed to therequirements of C.P. 5306 Part 1: 1976.

The hose reel shall be supplied and installed complete with a first-aid Non-kinking hose 30 or 45 meterslong with a nylon spray / jet / shut-off nozzle fitted. A screw down chrome - plated globe valve to B.S1010 to the inlet to the reel is to be supplied.

The orifice to the nozzle is to be not less than 4.8mm to maintain a minimum flow of 0.4 lit / sec to jet. The hose reels shall be installed complete with electro-galvanised cabinet recessed on the wall.

The hose reels shall be installed at 1.5 metres centre above the finished floor level in locations shown in the contract drawings.

## 6.8.5 <u>Pipe Work</u>

The pipe work for the hose reel installation shall be galvanised wrought steel tubing heavy grade Class Cto B.S 1387: 1967 with pipe threads to B.S 21. The pipe work and all associated fittings shall be in approved colour for fire fittings.

## 6.8.6 <u>Pipe Fittings</u>

The pipe fittings shall be wrought steel pipe fittings, welded or seamless fittings conforming to B.S. 1740or malleable iron fittings to B.S 143.

All changes in direction will be with standard bends or long radius fittings. No elbows will be provided.

### 6.8.7 <u>Non-return Valves</u>

The non-return valves up to and including 80mm diameter shall be to B.S. 5153: 1974. The valves shall be of cast iron construction with gunmetal seat and bronze hinge pin.

### 6.8.8 <u>Gate Valves</u>

The gate valves up to and including 80mm diameter shall be non-rising stem and wedge disc to B.S 5154:1974 with screwed threads to B.S. 21 tapes thread

### 6.8.9 <u>Sleeves</u>

Where pipe work passes through walls, floors or ceilings, a sleeve shall be provided one diameter larger than the diameter of the pipe, the space between them to be packed with mineral wool, to the Engineer's approval.

### 6.8.10 Earthing

The hose reel installation shall be electrically earthed by a direct earth connection. The installation of theearthing shall be carried out by the Electrical Sub- contractor.

### 6.8.11 Finish Painting

Upon completion of testing and commissioning the hose reel installation, the pipework shall be primed and finish painted with 2 No. coats of paints to the Engineer's requirements.

### 6.8.12 Testing and Commissioning

The hose reel installation shall be flushed out before testing to ensure that no builder's debris has entered the system. The installation is to be then tested to one and half times the working pressure of the installation to the approval of the Engineer. Simulated fault conditions of the pumping equipment are to be carried out before acceptance of the System by the Engineer.

## 6.8.13 Instruction Period

The Sub-contractor shall allow in his contract sum for instructing of the use of the equipment to the Client's maintenance staff. The period of instruction may be within the contract period but may also berequired after the contract period has expired. The period of time required shall be stipulated by the Client but will not exceed two days in

The period of time required shall be stipulated by the Client but will not exceed two days in which time the Client's staff shall be instructed on the operation and maintenance of the equipment.

### 6.8.14 Signage-Fire Instruction /Fire Exit

### 4.8.14.1 Fire Instruction Notice

Print fire instruction on the Perspex plates with White Colour Background measuring 510mm length x 380mm width x 4mm thick as follows;

### FIRE INSTRUCTION NOTICE

In the event of fire;

- 1. Raise the alarm by actuating the nearest alarm system point, Sound Siren /gong or Shout Fire
- 2. Attack fire using the nearest available equipment
- 3. Call nearest fire Brigade or Police 999 and inform your switchboard (PABX) Operator
- 4. Ensure that all personnel not involved in fire fighting evacuation to safety outside the building.
- 5. Close but **DO NOT LOCK** doors behind as you leave.
- 6. Evacuate the building using stairs or fire escapes. Do not use Lifts/Escalators. Walk calmly. Avoid panic. Do not stop or return for personal belongings.
- 7. Assemble as per floor outside the building for roll call.

#### 4.8.14.2 Fire Exit Sign

Print Fire Exit signs on the Perspex plate, 4mm thick, with white colour background as follows:-

- 1. Lettering IN RED COLOUR of not less than 50mm in height.
- 2. A pendant sign bearing words, FIRE EXIT and with a directional arrow.

The sign must be capable of being read from both approaches to exit and so is double sided.

#### 4.8.14.3 Hose Reel Label

Print Fire Exit signs on the Perspex plate, 4mm thick, with white colour background as follows:-

- 1. Lettering IN RED COLOUR of not less than 50mm in height.
- 2. A pendant sign bearing words, HOSE REEL and with a directional arrow.

The sign must be capable of being read from both approaches to exit and so is double sided.

#### 5.0 The Dry Riser Installation

#### 5.1 **Definition**

Dry riser installation is a system where a pipe is installed vertically through a building with and inlet breechingprovided at a street level through which the fire brigade can pump water.

#### 5.2 Installation

The dry riser is installed with Fire Brigade Breeching inlet installed at street level in front of the building at aposition where fire brigade can access and pump water into the building. Landing valves are then installed on each floor above the ground level to which the fire brigade can attach fire fighting hoses.

### 5.3 Landing Valves

The Hydrant outlets shall comply with the requirements of C.P 5306 Part 1:1976 and B.S 5041 Part 1. The hydrant Riser outlets shall be 2No minimum per floor including the roof and shall be mounted with their centreline between 910mm and 1060mm above finished floor level positioned at the entry lobby on each floor.

#### 5.4 Fire Brigade Breeching Inlets

One of the Brigade Breeching inlets shall consist of four (4No.) 64mm internal diameter instantaneous male coupling for connection to the fire brigade pumps and other two shall consist of two (2No.) 64mm internal diameter instantaneous male coupling.

The breeching inlet shall incorporate a 100mm diameter flanged connection to the 100mm dry riser mains. The breeching inlet shall be located 1000mm to the centre line of the box above ground level.

The breeching inlet shall be enclosed in a galvanized mild steel cabinet of suitable dimensions to contain all visible pipe work. A 7.5mm thick wired glass front shall be provided with 50mm high, red lettering, **DRY RISER BREECHING CONNECTOR.** The reminder of the box is to be finished in fire red enamel paint.

#### 5.5 Pipework

The pipe work fittings shall be wrought steel pipe fittings welded or seamless fittings conforming to B.S 1740Part 1971 or malleable iron fittings to B.S 193.

All changes in direction will be standard bends or long radius fittings. No elbows will be permitted. Flanges

### 5.6 Flanges

The flanges shall comply with B.S 4504:1969. All flanges shall comply with a nominal Pressure Rating of 16bars and shall be of either grey cast iron or steel.

#### 5.7 Gaskets

The gaskets for use with flanges to B.S 4504: 1969 shall comply with B.S 4865 Part 1: 1972 for pressure up to64 bars.

### 5.8 Air Relief Valves

The dry riser shall terminate 1M above the roof landing valve with an air relief valve. The valve constructionshall be of iron Grade E conforming to B.S 1452. Float Guide and Seat

Ring shall be of A.B.S plastic with seal ring of moulded rubber, Maximum working pressure of the valve is to be 16 bar.

### 5.9 Non-Return Valves

The non-return valves up to and including 80mm diameter shall conform to B.S 5153:1974 with flanges to

B.S 4504 PN 16. The valves shall be of cast iron construction with gunmetal seat and disc with spring of phosphor bronze.

Non return valves exceeding 80mm diameter and up to 300mm diameter shall be conform to B.S 5153:1974 with flanges to B.S 4504 PN 16. The valve shall be is Cast Iron Construction with Gunmetal seat to B.S 1400.

### 5.10 Gate Valves

The gate valves up to and including 80mm shall be non rising stem and wedge disc to B.S. 1952:1964 (B.S 5154:1974) with screwed threads to B.S.21(KS ISO 7 - 1) taper thread. The valves shall be of high grade bronze construction.

Gate valves exceeding 80mm and up to 300mm shall be to B.S 5163 with flanges to B.S 4504 PN 16. The valve is to be double flanged cast iron wedge gate valve for water works purposes with cast iron bodyto B.S 1452 GRADE 14 with rubber covered cast iron gate. The stem is to be of Forged Stainless Steel to B.S970 with cast iron hand wheel.

#### 5.11 Sleeves

Where Pipework pass through walls or floors or ceiling a sleeve shall be provided one diameter larger than the diameter of the pipe the space between to be the packed with mineral wool, to the Engineers approval.

### 5.12 Floor and Ceiling Plates

Where pipes pass through floors, walls and ceilings, floor, wall and ceilings plates shall be secured around thepipe. The plated shall be of stainless steel construction and will serve no other purpose than to present a neat finish to the exposed installations.

#### 5.13 Earthing

The dry riser shall be electrically earthed by a direct earth connection. The installation of the earthing to be carried out by the electrical Sub-Contractor

#### 5.14 Finish Painting

Upon completion, testing and commissioning of the dry rise installation the pipe work shall be primed and finish painted with 2No. Coats of paint by the Sub-Contractor to the Engineer's requirements.

#### 5.15 Testing and Commissioning

The installation is to be tested to one and half times the working pressure of the installation, all to the approval of the Engineer. The pressure shall be maintained for about 1 hour ensuring that there is no change in pressure observed

### 5.16 Canvas Hose

The canvas hose shall be 65mm diameter 30m long designed for a bursting pressure of 34 bars. The canvas hose shall have attached instantaneous hose coupling, branch pipes and nozzle to B.S 336: 1965.

#### 5.17 Hose Cradle

The hose cradle shall be a high quality fitting designed for use in public buildings. The cradle **shall be madein aluminium** throughout and shall be supplied with a wall bracket and the finish shall be polished or chromeplated

#### 6.0 Fire Hydrant

### 6.1 **Fire Hydrant Details**

#### 6.1.1 **Definition**

The fire hydrant is a system which is installed along the water mains to used as a means of providing water to the fire brigades through the connection of the hose from a stand pipe.

#### 6.1.2 Installation

The fire hydrants are installed along the water mains with the first hydrant at a location

which is not more than 60 m from the entry of any building and they should not be more than 120 m apart.

### 6.1.3 Hydrant body

The body of the hydrant shall be made of grey cast iron complying with the requirements of BS 1452 having atensile strength not less than that given for grade 14.

#### 6.1.4 Hydrant Valve

The valve shall be faced with suitable resilient material. The threaded part of the valve, which engages with the spindle, shall be of bronze.

Body seating for the valves shall be of copper alloy complying with the requirements of BS 1400 (KS 06-744

-1:1991) or high tensile brass complying with the requirements of BS 2872 or BS 2874. Turning the spindle cap in a clockwise direction when viewed from above shall close valves and the direction of opening shall be permanently marked on the gland.

#### 6.1.5 Spindle & Spindle Cap

The spindle note shall be either of the same material as the spindle, or of copper alloy complying with the requirements of BS 1400 (KS 06 - 744 - 1:1991). It shall have a squared top formed to receive either a cast iron spindle cap.

The spindle shall be made of copper alloy complying with the requirements of BS 2874 (KS 06 -744 - 1:1991), and it shall have a threaded machined of trapezoidal form. The spindle cap shall be of a cast iron secured to the spindle by on M12 hexagon socket set screw conforming to BS 4168.

#### 6.1.6 Hydrant Outlet

The outlet flange of the hydrant shall have above nominal diameter 65mm, and shall be fitted with a screwedoutlet – Both flanges shall be 50 mm conforming to BS 4504: Part 1: 1969

The screwed outlet shall be provided with a cap of cast iron or other suitable material. The cap shall cover theoutlet thread completely and shall be attached to the hydrant by a chain The distance between the axis of the outlet and the nearest point on the spindle fitting shall be not less than 100mm.

The screwed outlet shall be made of Copper alloy to BS 1400 (KS 06 - 744 - 1:1991), or Copper alloy to BS2872, or Suitable Spheroidal graphite iron to BS 2789 protected against corrosion accordance with CP 2008.

#### 6.1.7 Drain Boss

Each shall be provided with a suitable drain boss on the outlet side. This shall be located at the lowest practical point which will permit the filling of self-operating a drilled drip plug.

#### 6.1.8 Jointing

The hydrants shall have machined joint faces through out and the fitting of adjoining parts shall be such as tomake sound joints, corresponding parts of hydrants of the same design and manufacture shall be interchangeable.

#### 6.1.9 Hydrant coating

The hydrant shall be coated in accordance to BS. 4164.

#### 6.1.10 Surface Box

The clear opening of hydrant surface boxes at ground level shall not be less than 250mm x 380mm. The depth of frame shall normally be:

- a) For boxes located on footpaths: 100mm
- b) For boxes located in roads: 125mm

#### 6.1.11 Marking

Surface box covers shall be clearly marked by having the words 'FIRE HYDRANT' in letter not less than 30mm high, or the initials 'FH' in letters not less than 75mm high cost into the cover.

#### 6.1.12 Surface Box Covers & Frames

The surface box frames and covers shall be graded in accordance with BS 497:1967 and shall meet the loading test requirement also given in BS 497

#### 6.2 Stand Pipes

One end of these shall have internal threads to couple with the 80mm diameter external threads of the screw down type or above ground fire Hydrant (BS 750 type 2 hydrants) outlet. It shall have 65mm diameter internal threads to couple with the interconnect or hose of the pump set

#### 6.3 Hose Pipe

Each cotton synthetic fibre rubberized fire hosepipe to be at least 30 metres long with 65mm diameter femaleinstantaneous type connector complete with nozzle.

#### 6.4 Testing

The hydrants shall be deemed to have undergone the necessary hydrostatic and flow test at time of manufacture. Necessary test certificates from the manufacturer shall be needed. The test, to conform to BS 750: 1977:

### PARTICULAR SPECIFICATION FOR THE DESIGN, SUPPLY AND ERECTION OF WATERSTORAGE TANKS

### 1.0 Description of Site

The Sub-contractor is deemed to have visited the site at Kaimosi and if unable to locate it or its details apply to he Principal Secretary, State department of works

No claims will be allowed for the travelling or other expenses, which may be incurred by the sub-contractor's works.

### 2.0 Scope of Contract

The work to be carried out under, this sub-contract comprises the designs, manufacture, supply, delivery, erection, together with testing and commissioning of galvanized steel tank as here-in specified.

All work shall be performed in straightforward manner by competent workmen under skilled supervision to the entire satisfaction of the project manager.

## 3.0 Compliance with Regulations

The sub-contractor shall comply in all respects to the provisional and regulations of the Bylaws of the Local Authority, Kenya Building Code, as 449 Part B5 1964. BS 4211, CP2 chapters V part 1 and 2 MOPW Structuralsteel work specification (1973) code of practice for design and construction of buildings and structures in Relation to Earthquake (1972) wherever applicable to the sub-contract works.

The Structural Engineer shall be responsible for the design of the foundation subject to giving approval of the sub-contractor's design of the tower and due allowance should be given for this work to be carried out in sub- contractors programme of works. The main contractor is responsible for the construction of the foundation in accordance with approved designs.

### 4.0 Structural Drawings and Calculations

2No copies of general arrangement and fabrication drawings properly dimensioned and detailed showing the whole tower and its accessories together with 2No copies of the structural calculations complying with all the relevant BS and CP are to be submitted for approval prior to the commencement of the work.

The calculations are to indicate the maximum downward and upward loads on the foundations for the Engineerto design the foundation

### 5.0 Galvanised steel plate Water Tanks

The tank shall be Galvanised steel plates tank complying in all respects to BS 1564 Types 1 or 2 unless otherwise specified. The jointing materials shall be non-toxic and non-insoluble to water and the tank cover shall be joined throughout the tank top ensuring that the joint is both water proof and dust proof.

Cover framing and members shall be designed to withstand supper imposed loading complying with the requirement complying with the requirements of CP2 Chapter V part 1 and BS 149 Part 2.

All internal stays are to be provided as required by the tank manufacture and the Subcontractor shall be responsible for ensuring the stays are adequate in number and position and properly tighened. Access manhole with hinged cover together with a filtered vent outlet shall be installed.

The Sub-contractor is to notify the Engineer of the type of panel he is proposing to use and the manufacturer whois to be approved.

The inflow and outflow connection shall be as shown on the drawing.

The outflow supply pipe shall be at least 50mm above the tank bottom while the inflow pipe shall be 200mm below the tank rim. The overflow pipe shall be about 1500mm long, away from the tank. The drain pipe shall beat the lowest part of the tank.

#### 5.1 Low Level Tank

It shall be constructed of 1000 x 1000mm galvanized steel plates, having a capacity of 80,000 litres **Preferred Dimensions** 

(a) Length -8.0m

(b) Height -2.0m

## 5.2 Roof Level Tank

Tank Capacity: 30,000 litres. It shall be constructed of 1000 x 1000mm galvanized steel plates

## **5.2.1 Preferred Dimensions**

- (a) Length -5.0m
- (b) Width -3.0m
- (c) Height -2.0m

Height from ground level to the underside of the tank shall

be 18 metres. The tanks in clause 2 shall be complete with:

- 1. 65mm and 50mm diameter inflow connection (Council and Borehole Supply)
- 2. 100mm diameter outflow connection
- 3. 100mm diameter washout pipe
- 4. 100mm diameter overflow pipe
- 5. 1No. level regulator
- 6. 1No. Water level indicator
- 7. 1No. internal ladder
- 8. 1No. external ladder to 3m off-ground level with cage
- 9. 1No. perimeter walkway and handrail around the tank

## 6.0 Pipework

The sub-contractor shall supply and fix all pipe work and fitting up to ground level as detailed on the drawing orin this specification. All pipe work shall be adequately supported and secured to the tank structure. The washoutpipe shall have a bend leading to a reasonable place where the drainage will not interfere with the structure, preferably at about 300mm above ground.

The inflow, outflow and washout pipes shall be fixed against the tower structure so as to facilitate fixing and good support. All pipe work shall be medium grade galvanized steel and must conform to BS 1987 and 1967 class 'B'. The sub-contractor shall provide high pressure ball valve capable of coping with the maximum area's local water supply pressure.

## 7.0 Access Ladder

Internal ladders shall be supplied for the tank and shall be fixed adjacent at the manholes but easily removable forcleaning the inside of the tank (i.e hooked connection).

The tanks shall be provided with an external ladder from the platform leading to the manhole and complying toBS 4211. The stringers shall be parallel, minimum width 15 inches apart and of flat bar of minimum dimensions  $1\frac{1}{2}$ " by 2/8 inches. The rugs shall be of round bars not less than  $\frac{3}{4}$  inches diameter and the distance between centres shall be 9 – 10 inches. The external ladder shall be fitted with safety hoofs made to conform to BS 4211.

The tower external ladder shall be as above but have a half landing 8M above ground level complete with a 6mmthick checked base plate and an appropriate protection safety handrail.

## 8.0 Platform

The tower, in galvanized steel, shall have a periphery walkway at tank level having minimum width of 600mm clear between the edge of the tank and the inside of the protective safety handrail. The platform is to be provided with a steel chequered plate floor of similar approved and to be completely sealed so as not to allow anybody oritems such as bolts and spanners to fall on persons on the ground.

There shall also be a ladder from the ground to the platform complete with a cage, all in steel. The ladder shall befirmly fixed to the tower.

All loading for the design of the platform are to be provided in the structural calculations.

## 9.0 Painting

The tank shall be painted inside with one coat of bituminous non-toxic paint (or any other

equivalent and approved) and on the outside with coat of primer before erection. After erection, the tank inside shall be painted with two coats of aluminium paint. The other structures shall be cleaned and painted one coat lead oxide or redlead before erection and two coats of aluminium paints after erection. All the painting shall be approved by the Engineer.

#### **10.0 Erection**

The sub-contractor shall erect the tank complete, on foundation prepared and designed by others and with all necessary pipes, ladders, tower etc. as listed herein and shown on the drawing.

The main contractor shall prepare the foundation to the sub-contractor's and Structural Engineers details. The main contractor shall also concrete or ground in the HD bolts to the sub-contractor's requirements.

#### 11.0 Testing

Testing shall be done by filling the tank with water after erection. The water will be from the local supply and themain contractor shall apply from the Authority for connection. Testing shall be witnessed by the Project Manageror his representative.

#### 11.1 Guarantee

The sub-contractor shall guarantee the tanks against leaks, and the tower for a period of (12) months form the

### SECTION VI - BILLS OF QUANTITIES

### A. Notes and Sample Items for Preparing a Bill of Quantities

- 1. These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Tender Documents. Priced Bills of Quantities shall be part and parcel of the Contract Documents.
- 2. The objectives and purpose of the Bills of Quantities are to provide sufficient information on the specifications, descriptions and quantities of Works to be performed to enable tenders to be prepared efficiently and accurately and when a contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed. In order to attain these objectives, Works should be itemized in the Bill of Quantities insufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and clear as possible.

### 3. NOTES TO PREPARING PREAMBLES

- 4.1 The Preambles should include only those items that constitute the cost of the works but would not be pricedseparately as they are expected to be included in the unit prices. Care should be taken to ensure that these items are not are petition of the conditions of contract. The Preambles should indicate the inclusiveness of the unit prices and should state the methods of measurement that have been adopted in the preparation of the Billof Quantities, that are to be used for the measurement of any part of the Works. The units of measurement and abbreviations should be defined and any mandatory national units defined and described. The methods of andprocedure for re- measurement should be described in the Preambles.
- 44. The rates and prices tender in the priced Bills of Quantities shall, except in so far as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
- 45. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
- <sup>46</sup> The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bills of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
- 47. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bills of Quantities. References to the relevant sections of the Contract documents shall be made beforeentering prices against each item in the priced Bills of Quantities.
- 49 Provisional Sums and contingency sums included and so designated in the Bills of Quantities shall be expended in whole or in part at the direction and discretion of the

Architect in accordance with Sub-Clause13.5 and Clause 13.6 of the General Conditions of contract.

- 4.10 In preparing the Bills of Quantities, notes should be removed as they are intended to guide the person preparing the Tender Documents. The Contractor must allow in his rates for any costs associated with and complying with the requirements in the Preambles.
- 411 Should a tenderer/contractor not price any item in any section of the Bills of Quantities including Preliminary items, it will be assumed that he/she has spread its cost in other areas that he/she will have priced. Therefore, the item or items will be executed without any additional costs or without being treated like variations.

### 4. NOTES ON PREPARING BILLS OF QUANTITIES

- 5.1 The <u>Preliminary Items</u> should be limited to tangible items that should be priced by the tenderer, are identifiable and can be priced separately and included in the interim valuations precisely. Such items mayinclude such items as site office, notice boards, and other temporary works, otherwise items such as securityfor the Works which are primarily part of the Contractor's obligations should be included in the Contractor's rates.
- 52 The work items in the Bills of Quantities should be grouped into sections to distinguish between those parts of the Works which by nature, location, access, timing, or any other special characteristics may give rise to different methods of construction, or phasing of the Works, or considerations of cost. Such groups could be ground excavations, structures, external works, services, etc. General items common to all parts of the Works may be grouped as a separate section in the Bill of Quantities.
- 53 Quantities should be computed net from the Drawings, unless directed otherwise in the Contract, and no allowance should be made for bulking, shrinkage or waste. Quantities should be rounded up where appropriate.
- 54 Where the measured items a redeemed not to be exact because of the likelihood that the scope can changeduring the execution of the works, such items could be subject to remeasurement, the word **"provisional"** should be used to identify such cases. Where whole sections of the work items fall in this class, for example foundations, they should be labelled "Provisional Quantities" or "Provisional Items" so that the Tenderer/Contractor is advised up front that such items are subject to re-measurement to done before suchwork is cover-up.
- 55 All items that have not been measured and therefore not subject to tenders pricing should be listed in the Bills of Quantities as **Provisional Sums** for particular item or class of Work, which may be subject to a nominated subcontract or separate measurements at a later date during the execution of the works. For example, if it is deemed not possible to measure electrical works before going to tender because detail designs are not ready, a provisional sum can be allowed in the Bills of Quantities for "Installation of Electrical Works" to be executed later when actual design details are completed. To the extent not covered above, there should be in the Bills of Quantities a general provision for physical and financial contingencies made as a "Provisional Sum for Contingencies" and "Provisional Sum for Fluctuations".

### PREAMBLES

- 1. The method of measurement of completed work for payment shall be in accordance with The Standard Method of Measurements for Building Works and Associated Civil Works for Eastern Africa (2<sup>nd</sup> edition) of 2008 prepared by The Architectural Association of Kenya (Quantity Surveyors Chapter)
- 2. The Site is situated in AT KAIMOSI FRIENDS UNIVERSITY COLLEGE,

#### ALONG KAIMOSI - KAPSABET ROAD APPROXIMATELY 42 KILOMETERS FROM KISUMU TOWN, KAIMOSI TOWN, VIHIGA COUNTY. It is

approximately <u>360</u> Kilometers from Nairobi. Access to the site shall be through **KAIMOSI - KAPSABET ROAD.** Which is an existing public road. Any damage caused to the surfaces of this road shall be made good at the Contractor's expense. The Contractor shall visit the site and acquaint itself with its nature and position, the nature of the ground, substrata and other local conditions, positions of existing power, water and other services, access roads or any other limitations that might affect his cost or progress. No claim for extras shall be considered on account of lack of knowledge in this respect.

- 3. The Contractor shall obtain the Architect's approval on the siting of all temporary buildings, spoil heaps, temporary access path, and storage of materials. The Contractor shall also obtain the Architect approval and direction regarding the use of any materials found on the Site.
- 4. The drawings used in the preparation of these Bills of Quantities can be inspected at the offices of the Procuring Entity or Procuring Entity's Representative during normal working hours. Two sets of the Working Drawings shall be provided to the contractor but additional copies shall be provided at a cost to be determined by the Engineer.
- 5. The Contractor shall allow for the payment of all bank charges in connection with the procurement of BankGuarantees and stamp charges in connection with this contract Agreement.
- 6. The Contractor shall carry out the various sections of the Works in such an order as the Architect May direct. The Procuring Entity reserves the right to occupy the Works by sections on completion provided that such occupation is considered to be both practical and reasonable and will not interfere with the Works. The Contractor shall allow any costs associated with such occupation.
- 7. The main Contractor will be fully responsible for paying his Sub-Contractor but the Procuring Entity reserves the right in very exceptional circumstances to make such payments direct in the interests of the project where the completion thereof might be jeopardized by any dispute or vicariousness between the Contractor and theSub-Contractor involve.
- 8. The Contractor shall complete and deliver the Works in the period inserted in the Form of Tender as his time for completion of the Works from the date for Possession, to be agreed with the Engineer. The Contract Period is presumed to have been calculated making due allowance for seasonal inclement weather conditions. No claim for extension of time due to the normal inclement weather for this area shall be entertained.

- 9. The Contractor shall, upon receiving instructions to proceed with the Works, draw up a Programme and Progress Chart setting out the order in which the Works are to be carried out, with the appropriate dates thereof. This Chart shall be agreed with the Architect and no deviation from the order set out in it will be permitted without the written consent of the Engineer. The Contractor will be responsible for arranging the above programme with all his sub-Contractors and Specialties. The Contractor shall allow in his rates for carryingout this exercise, and for updating it as required.
- 10. The Contractor shall submit to the Architect on the first day of each week or such longer period as the Architect from time to time direct, a Progress Report and any information for the proceeding period, showing the progress during the period and the up-to-date cumulative progress on all important items of each section orportion of the Works.
- 11. The Contractor shall arrange for photographs of the Site to be taken by a professional photographer approved by the Engineer. The Photographs shall provide a record of the Site and adjacent are as prior to the commencement of the Works and shall cover such portion of the works in progress and completion as the Architect shall direct. All prints shall be full plate size, unmounted, and marked on the reverse side with the date of exposure, identification reference and brief description. The copyright of all photographs shall be vested in the Procuring Entity. The negatives and four prints from each negative shall be delivered to the Architect within two weeks of exposure.
- 12. Figured dimensions are to be followed in preference to dimensions scaled from the Drawings, but whenever possible dimensions are to be taken on the Site or from the buildings. Before any work is commenced by Sub- Contractors or Specialist Firms, dimensions must be checked on the site comparable dimensions shown on the drawings. The Contractor shall be responsible for the accuracy of such dimensions.
- 13. Prior to commencement of any work the Contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, water pipes or other services in the area and he shallmake whatever provisions may be required by the Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any services shall be reported immediately to the Architect and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense. Where appropriate the Contractor shall open up the ground in advance of the main work by hand digging if necessary, to locate precisely the position and details of the services which are likely to affect his operations.
- 14. The Contractor shall include in his prices for the transport of materials, workmen, etc./, to and from the site of the proposed works, at such hours and by such route as are permitted by the Authorities.
- 15. The Contractor will be required to make good, at his own expense and damage he may cause to the presentroad surface and pavements within or beyond the boundary of the Site, during the period of the works. All existing paths, storm water channels, etc., that may be destroyed or damaged during the progress of the Works shall be reinstated by the Contractor to the satisfaction of the Engineer.
- 16. The Contractor is to allow for complying with all instructions and regulations of the Police Authorities.
- 17. All water shall be fresh, clean and pure, free from earthly, vegetable or organic matter,

acid or alkaline substance in solution. The Contractor shall provide at his own risk and cost all water for use in connection with the Works, (including works of sub–contractors). If need be, he shall make arrangements with the Local Water Authority for the installation of a separate meter for all water used by him throughout the Contract and pay all cost and fees in connection therewith. He shall also provide temporary storage tanks and tubing, etc., as may be necessary, and clear away at completion.

- 18. The Contractor shall provide all artificial lighting and power for his own use on the Works, (including Sub –Contractor's) including all temporary connections, wiring, fittings, etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection there with.
- 19. 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 time to the superintendence of the works. (Including works of sub contractors). Such Agent or Representative shall receive on behalf of the Contractor directions and instruction from the Engineer, and such directions and instructions shall be deemed to be given to the contractor in accordance with the Conditions of Contract. The Agent shall not bereplaced without the specific approval of the Engineer.
- 20. The Contractor shall ensure that the safety of his work people and all authorized visitors to the site are protected at all times. In particular, there shall be the proper provision of guard–rails to scaffolding, protection

against falling materials, tools on site, dust, nail and other sharp objects. The site shall be kept tidy and clear of dangerous rubbish. The Architect shall be empowered to suspend work on site should it be considered this condition is not being observed and no claim arising from such suspension will be allowed.

- 21. They are as available to the Contractor for work yards, offices and other facilities shall be directed by the Architect and any existing features to remain shall be protected from damage throughout the Contract Period and handed back in good condition when they are vacated at the end of the Contract. If additional areas are required, the contractor shall source then at own cost.
- 22. The Contractor shall give the Architect reasonable notice of the intention to set out or take levels for any part of the Works so that arrangements may be made for checking the work. The accuracy of setting out and leveling shall be within the tolerances specified in the Specifications or on the Drawings. The checking of setting out or leveling by the Architect shall not relieve the Contractor of his duties or responsibilities under the Contract.
- 23. The Contractor must take steps necessary to safe guard and shall beheld fully responsible for any damage caused to existing and adjacent property, including buildings that are not a subject of demolition. He shall make good at his own cost damage to persons and property caused there on, and he shall indemnify the Procuring Entity against any loss or claim that may arise.
- 24. The Contractor shall take such steps and exercise such care and diligence as to minimize nuisance arising from dust, noise or any other cause to the occupiers of the existing and adjacent property. He must provide such temporary and special screens and tarpaulins or gummy bags, hoarding, barriers, warning signs etc. ashe considers necessary and sufficient for the protection of the existing and adjacent property and or prevention of nuisance etc. as directed by Engineer.

- 25. The Contractors attention is drawn to the standards levy order which was amended on 15<sup>th</sup>October 1998.Legal notice No.154 of 1998. The Contractor is required to pay a monthly level of 0.2% of his factory price of construction works with effect from January 1999. Tenderer shall allow for this in the build-upo f his rates.
- 26. The Contractor shall provide temporary sheds, offices mess rooms, sanitary, accommodation and other temporary buildings for the use of the contractor and subcontractors, including lighting furniture equipment and attendance.
- 27. Contractor shall provide/build labor camp sat areas to be agreed with the Engineer. Labor camps shall be complete with sanitary accommodation and fencing gates.
- 28. The Contractor must provide the necessary toilet facilities to the requirement and satisfaction of the Health Authorities and maintain the same in a thoroughly clean and sanitary condition and pay all conservancy fees during the period of the Works and remove when no longer required.
- 29. The Contractor shall provide at his own risk and cost all watching and lighting as necessary to safeguard the Works, Plant and materials against damage and theft.
- 30. The Contractor shall provide all necessary hoists, tackle, plant, equipment, vehicles, tools and appliances of every description for the due and satisfactory completion of the Works and shall remove the same on completion. All such plant, tools and equipment shall comply with all regulations in force throughout the period of the Contract and shall be altered or adopted during the Contract period as may be necessary to comply with any amendments in or additions to such regulations.
- 31. Provide, erect and maintain all necessary scaffolding, sufficiently strong and efficient for the due performance of the works, including Sub-Contract Works, provide special scaffolding as required by Sub-Contractors, alter and adopt all scaffolding as and when required during the Works, and remove on completion. No scaffolding is measured here in after and the Contractor must allow in his rates for this.
- 32. The Contractor shall take all necessary precautions such as temporary fencing, hoarding fans, planked footways, guard–rails gantries screen, etc., for the safe custody of the Works, materials and public protection and adjacent properties.
- 33. Cover up all and protect from damage, including damage from inclement weather, all finished work and unfixed materials, including that of Sub-Contractors, etc., to the satisfaction of the Architect until the completion of the Contract.

- 34. The Contractor shall, after completion of the works, at his own expense, remove and clear away all surplusexcavated demolition materials, plant, rubbish and unused materials and shall leave the whole of the Site andWorks in a clean and tidy state to the satisfaction of the Engineer, sheds, camps, etc. Particular care shall betaken to leave clean all floors and windows and tore move all paint and cement all rubbish and dirt as it accumulates. The Contractor is to find his own dump and shall pay all charges in connection there with.
- 35. Concrete test cubes shall be prepared in a set of three, as described including testing fees, labor and materials, making molds, transport, handling, etc. Allow in your rates for making at least four cubes on each occasion, from different batches; the concrete being taken from the point of deposit.
- 36. The Contractors hall furnish at the earliest possible opportunity before work commences, and at his own cost, any samples of materials and workmanship that may be called for by the Architect for the approval or rejection, and any further samples in the case of rejection, until such samples are approved by the Engineer. Such samples, when approved, shall be the minimum standard for the work to which they apply. The procedure for submitting samples of materials for testing or approval and the method of marking for identification shallbe as laid down by the Engineer. The Contractor shall allow in his Tender for such samples and tests, including those in connection with his Sub-Contractors work.
- 37. The Contractors attention is drawn to the Finance Bill of the year 2000/2001 on withholding tax on contractual payment section 35(7)(i)(ii) which became effective on 1<sup>st</sup> July 2000. A 3% withholding tax will be applicable to all interim payments exceeding Kshs for work done in respect of building or civil works. The contractor shall allow for any costs arising resulting there from in the build-up of rates.
- 38. Blasting will only be allowed with the express permission of the Architect in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost, in accordance with any Government regulations inforce for the time being, and any special regulations laid down by the Architect governing the use and storage of explosives.
- 39. The National Construction Authority is a state corporation established under the national construction authority Act No.14 of 2011. The broad Mandate of the Authority is to oversee the construction industry and coordinate its development. The National Construction Authority Regulations 2014 with an effective date of 6<sup>th</sup>June 2014, regulation 25, Allow 0.5% of the tender sum/contract sum for construction levy.
- 40. The Contractor attention is drawn to Finance Bill of 1993 where VAT was introduced in all contracts for construction services. The tenderer is also drawn to VAT Act Cap 476 clause 19(9). The tenderer must allowfor VAT 1.19 as instructed elsewhere.
- 41. The contractor shall allow and pay for all insurance to cover risks and indemnities required Items 17 and 18of the Conditions of contract and also specified in the Special Conditions of Contract.

# **BILL NO. 1 - PRELIMINARY ITEMS**

ITEM No.	DESCRIPTION	AMOUNT
1.	The Contractor shall provide, or erect and maintain an approved lock-up office for the sole use of the Architect and his own site staff. The office, which will have a total floor area of not less thansquare metres, will be divided into two separate interconnected offices. Services tobe provided shall include a telephone, water sanitary and electrical supply and drainage. The offices shall be supplied with furniture and equipmentthat shall include: 4 No. desks with chairs; 1 No. large table with sufficient	
	number of chairs; drawing table along the full length of one side with plan drawers and drawing stools: 4 No. waste paper baskets: sufficient number of pin boards: and any additional furniture and fittings as may reasonably be required during the Contract period. The Contractor shall provide the Architect and site staff with computer sets or laptops, printers and telephones all that are necessary for project use.	
	The office furniture and equipment shall all be to the approval of the Engineer. The Contractor shall also provide all labor, equipment and consumable stores equipment throughout the currency of the contract.	
2	[OPTIONAL] Contractor shall provide a house for Engineers site agent, which shall be one bedroomed temporary house with a sitting room, toilet, bathroom and a kitchen complete with electrical and sanitary installations and provide maintenance and paying of bills of water and electricity up to and including end of the contract period.	
3	Provide a signboard not less thansquare meters in size of a design type, and with lettering and coloring and in a position approved by the Engineer. The signboard shall be for the display of the Main Contractor's name and the names of all his Sub-Contractors, with the Procuring Entity's name painted thereon. All Consultants names be printed in letters not exceeding 50 mm high. No other signboard or advertising shall be allowed. The signboard shall be fully maintained during the Contract Period and shall be pulled down and removed at the end of the contract.	
	TOTAL CARRIED TO GRAND SUMMARY	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
4	Allow for preparation of working drawings before commencement of works, shop Drawing & as- built drawings (2No. A3 Format & 1No. Soft Copy in CD) for each works and maintenance manuals. All these will be handed to project Engineer in three hard copies and soft copy in 8Gb flash disk and compact disk.	1	Item		
6	Hand over				
7	Variation				
8	Testing and Inspection – manufactured plant				
10	Mobilization and Demobilization.				
11	Allow for Kshs. 150,000.00 as airtime for use by the project engineers during project period.	1	Item		
11 12	Supervision by Engineer and Site Meetings.	1	Item	500,000.0 0	500,000.0
	Any other preliminaries; 1. All Project stationery to be delivered before commencement of works as instructed by the Chief Engineer [Mechanical-(BS)] once the contract has been signed.				
	Subtotal above	I	<u> </u>		
	Sub-total brought forward from				

# **BILL NO 1: SANITARY FITTINGS**

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, deliver, install, test and commission the following sanitary appliances complete with all the				
	accessories including all connections to the services,				
	waste, jointing to water supply overflows, supports				
	and all plugging and screwing to walls and floors.				
	(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.				
А	(iii) Equivalent and Approved models may be				
	acceptable.				
	Water Closet (WC) pan				
	Floor standing back to wall WC bowl with 'P'-				
Ð	trap in approved white colour complete with				
В	horizontal				
	outlet to BS 3402, Material as Ceramic and of				
	Dimensions: (W)365 x (D)520 x (H)400mm				
С	approximately. All to be as ideal standard' or equal				
	and approved.	59	No.		
D	Heavy duty soft close heavy plastic seat, cover				
D	and				
	ring with stainless steel hinges or approved equivalent. To be as Ideal standard or approved				
	equivalent	59	No.		
	Outlet/vertical bend 90° to convert P-trap into S	07	1.00		
	trap.	20	No.		
	Water Closet (WC) Suite				
	Complete Close-coupled WC suite set ('P'-trap) in				
	approved colour complete with horizontal outlet to				
	BS 3402 with 4.5 litre valveless low level ceramic				
	cistern and fittings including siphon, 15mm				
	diameter side inlet ball valve, 20mm diameter side				
	overflow, plastic flush bend, dual flush system, inlet				
	connection, chrome-plated lever and heavy plastic				

seat and cover with metal top fixed (chrome plated) hinges. All to be as IDEAL STANDARD "PLAN"- wc pan model water closet or equal and approved.	1	No.		
Total carried to collection page				

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Shower fitting				
A	Concealed shower fitting consisting of 15mm chrome plated riser pipe to connect the concealed three way diverter single lever shower mixer as of Cobra Model "Trini TR 856" or approved equivalent for hot and cold water to a 100mm diameter swivel/ adjustable shower rose as Cobra model P-0681 CAT No. 101.001.78 or approved equivalent, shower arm and other necessary fittingsand accessories. All to be as Cobra or equal and	1	No.		
В	approved.				
C	Water closet Flush Valves 40mm water closet flush valve for the above water pan complete with, back entry with integral vacuumbreaker, non-hold-open features and non-return valve, inlet control stop and wall plate comprising flush valve, bent chrome plated flush pipe and rubber pipe connector. The flush valve to be push button type. The fittings shall be as Jaguar or equal and approved. <b>Countertop Wash hand basin(WHB)</b> Wash hand basin size 450mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole as Ideal standard or equal and approved by the project engineer.	59	No		
	Pressmatic Wash hand basin taps				
	Self-closing and press type pillar tap DN 15 for sanitary facilities with piston-free design, self- closing, stepless adjustment of flow duration. Pillar Cock Auto Closing System with 65mm Extension Body. Casing, high-polished chromium-plated brass. Aerator with an integrated flow regulator 3.0 l/min as <b>Jaguar</b> <b>PRS-CHR-031</b> or approved equivalent				
		54	No		
	Total carried to collection page				

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Wash hand basin on two drawer vanity unit				
А	60cm slim basin and two drawer vanity unit of				
	dimension W 60 / D 50.2 /H 65.2cm & of				
	approved				
	colour. The set to come complete with ceramic wash				
	hand basin, one hole drain, Self-closing pillar tap				
	DN 15 for sanitary facilities with Self-closing				
	cartridge, hydraulically controlled, piston-free				
	design, self-closing, stepless adjustment of flow				
	duration. Connection to pre-mixed hot water or				
	cold water. Casing, high-polished chromium-plated				
В	brass. All to be ideal standard or equal and				
	approved	1	No		
G	Water Taps	1	140		
С	15mm diameter chrome plated back inlet bib tap				
	as				
	Tapis or approved equivalent.	10	No		
	Robe Hook				
D	Stainless steel robe hook mounted with				
	concealed				
E	screws. To be as AGUA code AMB-04.	60	No.		
	Toilet Roll Holder				
	Jumbo toilet roll holder in approved colour as				
	Mediclinic or equal and approved. To be				
F	supplied with initial taliat paper of Velvey	10	No.		
-	with initial toliet paper as Velvex. Chrome plated toilet roll holder, the roll holder	10	INO.		
	hook to be 165mm in length as Grohe Atro				
	accessories or equal and approved. To be	24	No.		
G	supplied				
	with initial toliet paper as Velvex.				
	Toilet Brush and Holder				
	Wall mounted toilet brush holder and brush of				
Н	approved colour as AGUA code AMB-01 or	60	No.		
п	approved equivalent.				
	Toilet Shattaf and its components				
	Toilet Spray Shattaf as PEX Economy kit				
	chrome No PEX-SHATTAF-B-CP. To have Interface of				
	1/2". An hose length of 1.5m 59". The t-adapter				
	material of Copper. To be as PEX UK or				
	approved				
	equivalent	10	No.		
	Angle valve complete with its flange as Pex				
	105				1

angle regulating valve No. PEX-225-C/P	10	No.		
Total carried to collection page				

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Mirror				
А	6mm thick polished plate glass silver backed mirror				
	with bevelled edges, size 610 x 610mm, Plugged				
P	and screwed to wall with 4No. chrome plated dome				
В	capped screws. The mirror shall rest against a layer				
С	of 5mm thick foam.	36	No.		
	Ditto but size 810 x 610mm	24	No.		
	Soap Dispenser				
	Wall mounted soap dispenser with a capacity of				
	about 1.5 litre having a press action soap release				
	mechanism complete with fixing screws. Allow for				
D	initial soap supply. To be as Mediclinic soap	22	Ŋ		
	dispenser.	22	No.		
	Hand Driers				
	Automatic hand drier in white colour, operating on				
	an infra-red automatic sensing system with heating				
	element safety cut-out complete with a 30 seconds				
	safety timer, plastic rawl plugs and fixing screws.				
Е	The hand drier to have a heating capacity of 2.1kw				
	and performance flow rate of 135cfm (3.82m3/min)				
	and to be of size 270x264x143mm deep It shall				
	have a noise level below 72.5 dBA at 1.5m. It shall				
	be as <b>Mediclinic handdrier</b> .				
		22	No.		
	Kitchen Sink (SBSD)				
	Single bowl, single drainer single bowl stainless				
	steel kitchen sink of size 1000 x 500mm as				
	manufactured by UNIGHIR or equal and				
	approved. The bowl size to be 420 x 355 x 150mm				
	deep complete with chrome plated 40mm waste				
	fittings, plugs, chain stays, overflow, 1No. 15mm				
	diameter chrome plated sink bib tap as TAPIS,				
	chrome plated bottle trap with 75mm deep seal and	5	No		
	Total carried to collection				

page

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Urinal Bowl				
Α	Profile 21' rimmed back inlet urinal bowl				
	diameter chrome plated outlet with grating firmly fixed				
	on				
	the wall with chrome plated screws. The bowl				
В	to be of ceramic material. The fittings shall be as				
	ideal				
	Standard E5701(01) or equal and approved.	21	No		
C	Urinal bowl trap. E6227(67) Urinal syphon				
	connector with 75mm water seal, and 40mm				
D	outlet. To be as ideal standard or equal and approved.	21	No		
	<b>Urinal bowl spreader</b> . Stainless steel urinal	21	110		
	bowl				
E	sprader for above urinal bowls. To be as ideal				
	standard or equal and approved.	21	No		
	<b>Urinal Connecting set</b> . To be as ideal standard	01	NI-		
	product code K7106(67) or equal and approved <b>Urinal Bowl Flush Valves</b>	21	No		
	25mm urinal bowl press type flush valve for the				
	above urinal bowl press type finds wave for the				
F	with				
	integral vacuum breaker, self closing mechanism,				
	non-hold-open features and non-return valve, inlet				
G	control stop and wall plate. The fittings shall be as				
	Jaguar or equal and approved.	21	No		
	Urinal divisions				
	Ceramic urinal bowl divisions separating the				
	above				
	described urinal bowls fixed firmly on the wall. The				
Н	fittings shall be as ideal standard or equal and				
	approved.	11	No		
	Fittings approval				
	Allow for approved factory/showroom visit with				
	2No.client representatives and 2No. Project				
	mechanical engineers for selection and approval of				
	all fittings samples. Total sum Kshs. 150,000.				
	Include taxes.	1	No		
	Cleaner Sink				
	Heavy duty stainless steel sink size 465 x 410 x				
	285mm deep in enamelled fireclay complete				
	with				

hardwood pad on the front edge and fitted				1
bucket				
stainless steel grating and 20mm chrome plated wall				
mounted inclined bricon tap, chrome plate chain and				
rubber stopper and heavy gauge 40mmn chrome				
plated bottle trap, stainless steel legs and bearers				
and 32mm grid waste fitting. All as Twyford				
"cleaners sink" or approved equivalent.	5	No.		
Total carried to collection page				

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
А	Accessible Water Closet and Wash Hand Basin				
A	Wheel chair accessible facility Comprising of thefollowing:- i) Close coupled W.C with 7.5 litre cistern with bottom inlet and overflow. The bowl shall be of size 375x560x420mm high. The bowl and cistern shall bemanufactured from vitreous china complying with B.S 3402 . The unit shall be complete with valvelesscistern fittings including syphon, 1 /2" side inlet ballvalve, 3 /4" side overflow, plastics flushbend, inlet connector and reversible metallic chrome plated cistern lever. There shall also be a heavy duty seat(25mmhigh) and cover with chrome plated metal hinges, toilet roll holder, 610 x 610 x				
	<ul> <li>6mm thick mirror and robe hook.</li> <li>ii) Semi pedestal wall mounted W.H.B of size</li> <li>600x500x545mm high with flexible connectors to waste and taps.The basin shall be manufactured from vitreous china complying with B.S 3402.It shall have one L/H tap hole with 1/2" chrome platedlever action pillar tap, chrome plated waste with height adjustable trap, pedestal and wall fixing bolts.</li> <li>iii) Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow forinitial soap supply. To be as Mediclinic soap dispenser or approved equivalent.</li> <li>iv) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminium and mounted on a wall fixing plate size230x100 mm, 4No 600mm grab rails with coveredwall plates.</li> <li>The set shall be as Twyfords DOC.M wheelchair accessible W.C. facility or approved equivalent.</li> </ul>	11	Set		
	Total carried to collection				

Item	Descriptio n	Amoun t (Kshs)				
1	Total carried forward from page 102					
2	Total carried forward from page 103					
3	Total carried forward from page 104					
4	Total carried forward from page 105					
5	 Total carried forward from page 106					
6	Total carried forward from page 107					
Total Sanitary Fittings Installations Works Carried to Mechanical WorksSummary page 144						

## **COLLECTION PAGE FOR SANITARY FITTINGS**

Ite m	Descriptio n	Qt y	Uni t	Rate (Kshs )	Amou nt (Kshs )
	CPVC Pipes				· · ·
	Supply, deliver and install chlorinated polyvinyl chloride (CPVC) pipes, tubing and fittings as				
	described and shown on the drawings. The pipes and fittings shall be produced as per SDR 11				
	and shall meet or exceed the requirements of				
	ASTM D				
	2846, current European standards for CPVC installations and to the Engineers approval. All				
	joints shall be assembled employing solvent cements that meet or exceed the requirements				
	of ASTM F442 and ASTM F441. 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, supporting brackets, isolating sheaths, elastic materials, expansion arms and bends,				
	crossovers, couplings, clippings, connectors, joints				
А	etc. as required in the running lengths of pipework				
В	and also where necessary, for pipe fixing clips,				
C	holder bats plugged and screwed for the proper and satisfactory functioning of the system. The				
D	pipes will be pressure tested before the plastering of				
E	wall commences and as per the manufacturers				
F	recommended testing pressures.				
	PIPEWORK-CPVC PIPES				
	20mm diameter pipework	96	Lm		
	25mm diameter pipework	150	Lm		

## **BILL NO 2: INTERNAL PLUMBING**

32mm diameter pipework	108	Lm		
40mm diameter pipework	124	Lm		
50mm diameter pipework	104	Lm		
65mm diameter pipework	120	Lm		
Total carried to collection page				

Ite m	Descriptio n	Qt y	Uni t	Rate (Kshs )	Amou nt (Kshs )
	Bends				,
A	20mm diameter	48	No.		
В	bend 25mm	60	No.		
C	diameter bend	84	No.		
D	32mm diameter	56	No.		
E	bend 40mm	52	No.		
F	diameter bend	28	No.		
	50mm diameter				
G	bend 65mm	36	No.		
Н	diameter bend	40	No.		
Ι	Tees	62	No.		
J	25mm equal	32	No.		
K	tee 32mm	24	No.		
	equal tee	30	No.		
L	40mm equal	40	No.		
M N	tee 50mm	42	No.		
0	equal tee	70	No.		
Р	65mm equal	80	No.		
Q	tee <b>Reducers</b>	12	No.		
R	25 x 20mm diameter	4	No.		
	reducer 32 x 20mm				

diameter reducer 32 x					
25mm diameter reducer					
50 x 32mm diameter					
reducer 50 x 32mm					
diameter reducer 50 x					
40mm diameter reducer					
65 x 50mm diameter reducer					
Total carried to collection					
page					

Ite	Descriptio	Qt	Uni	Rate (Kshs)	Amount (Kshs)
m	n Unions	У	t		
Α	25mm diameter pipe	10	No.		
В	unions 32mm diameter	10	No.		
C	pipe unions 40mm	12	No.		
D	diameter pipe unions	8	No.		
Е	50mm diameter pipe unions	8	No.		
F	65mm diameter pipe unions				
	<b>Shut off angle valve</b> Supply, deliver, install and test 15mm shut off anglevalves as PEX CP model or equal and approved.	40	No.		
G	Isolation Valves.	32	No.		
H	Supply, deliver, install, test and commission DZRbrass isolation valves as PEX model or	22	No.		
J	equal and approved by the project	18	No.		
у К	mechanical engineer	12	No.		
	25mm isolation				
	valve 32mm				
	isolation valve				
L	40mm isolation	16	No.		
М	valve 50mm	22	No.		
	isolation valve	18	No.		
N	Gate Valves.	15	No.		
P	Supply, deliver, install, test and commission DZRbrass gate valves as PEX	12	No.		
Q	model or equal and approved by the project mechanical engineer	28	No.		
R	25mm DZR brass gate				
G	valve 32mm DZR brass	22	No.		
S	gate valve 40mm DZR				
	brass gate valve 50mm	60	No.		
Т	DZR brass gate valve				
	65mm DZR brass gate	48	Lm		
U	valve				
	Male/Female Adapters (Brass threaded)				

20mmx1/2 brass threaded adapter		
Adaptor Union / Brass Female Threaded		
25mmX3/4" threaded brass coupling		
Flexible Tubing		
15mm diameter x 300mm long flexible		
connectors complete with integral chrome		
plated angle valve asCobra or equal and		
approved.		
Pipe Sleeves		
50mm diameter heavy duty PVC pipe		
sleeves forcrossing over columns and		
beams.		
Total carried to Collection Page		

<b>COLLECTION</b>	PAGE
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Ite m	Descriptio n	Amou nt (Kshs )				
1	Total carried forward from page 109					
2	Total carried forward from page 110					
3	Total carried forward from page 112					
Total for Plumbing and Drainage installation Works Carried forward toSummary Page 144						

	BILL NO 3:DRAINAGE PIPEWORK					
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)	
	FOUL WATER INTERNAL DRAINAGE					
	Supply ,deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufactures Printed instructions and manufactured by reputable manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.					
А	MuPVC and uPVC Waste and Soil pipework	300	Lm			
	100mm diameter heavy gauge golden brown UPVC					
В	pipe	60	Lm			
С	100mm diameter heavy gauge grey mUPVC pipe	160	Lm			
D	50mm diameter waste pipe	78	Lm			
Е	40mm diameter waste pipe 32mm diameter waste pipe	120	Lm			
F	Bends	32	No.			
G	100mm diameter long radius bend	28	No.			
Н	100mm diameter short radius bend	16	No.			
Ι	100mm diameter bend with access	20	No.			
J	100mm diameter sweep bend	38	No.			
Κ	50mm diameter sweep bend	12	No.			
L	40mm diameter sweep bend	12	No.			
	32mm diameter sweep bend	15	1.0.			
	Total Carried to Collection Page					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Tees				
А	100mm diameter sweep tee	28	No.		
В	50mm diameter sweep tee	20	No.		
С	40mm diameter sweep tee	12	No.		
D	32mm diameter sweep tee	26	No.		
	Access Caps				
Е	100mm diameter access cap	20	No.		
F	50mm diameter access cap	28	No.		
G	40mm diameter access cap	22	No.		
Н	32mm diameter access cap	18	No.		
	Boss Connectors	10	110.		
Ι	100 x 50mm diameter boss connector	36	No.		
J	100 x 40mm diameter boss connector	28	No.		
	Single Branches	20	110.		
K	100mm diameter single branch	32	No.		
L	WC Connectors				
2	100mm diameter WC connector	62	No.		
М	Traps				
	100 x 50mm diameter floor trap and grating	76	No.		
Ν	Allow for a standard grease trap 2800 x 850 x 450mm with three chambers manhole trap complete with				
Р	cover and 3No.stainless steel tray of 400mmx400mm with handle.	1	No.		
Q	300 x 300mm diameter gulley floor trap and grating	16	No.		
	Allow for a standard 600 x 450mm manhole complete	15	No.		
R	with hardened plastic grey cover. Stainless steel kitchen floor drains of size 300 x 300mm	3	Item		
	Total Carried to Collection Page				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Weathering Slates and Vent Cowls				
A	100mm diameter weathering slate and apron.	25	No.		
В	100mm diameter vent cowl	25	No.		
C	100mm diameter heavy gauge grey mUPVC pipe DROP	50	Lm		
	Rain water Drainage Pipework				
D	100mm diameter heavy gauge golden brown UPVC	300	Lm		
Е	pipe 100mm diameter long radius bend	20	No.		
F	100mm diameter bend with access	20	No.		
G	100mm diameter sweep bend	20	No.		
Н	100mm diameter access cap	20	No.		
Ι	floor drains 300x300 fulbora	5	Item		
	Supporting Brackets				
J	Allow for suitable supporting steel brackets for anchoring and supporting drainage pipes bends on the lower floor. To be painted to match the walling colour.	100	No.		
K	<b>BASEMENT DRAINAGE</b> 150mm diameter heavy gauge golden brown UPVC	150	Lm		
L	pipe	8	No.		
М	150mm diameter long radius bend	10	No.		
Ν	150mm diameter bend with access	8	No.		
Р	150mm diameter sweep bend	1			
Q	150mm diameter access cap	15	No.		
R	300 x 300mm diameter floor trap and grating	12	No.		
	Allow for a standard 600 x 450mm manhole complete with hardened plastic grey cover.		No.		
	Total carried to collection pag	je			

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Weathering Slates and Vent Cowls				
А	150mm diameter weathering slate and apron.	0	No.		
В	150mm diameter vent cowl	0	No.		
С	100mm diameter weathering slate and apron.	0	No.		
D	100mm diameter vent cowl	2	No.		
Е	150mm diameter heavy gauge grey mUPVC pipe Drop	0	Lm		
	Submersible Pump				
Μ	A submersible pump capable of delivering 5.5m <sup>3</sup> /hr against 10M head, power rating 0.55KW, single phase, 50HZ as Pedrollo model Top 2 or equal and approved complete with control panel, associated electrical works, protection against dry run, on/off neon lights, control/pump status display panel, audio alarm with manual silencer to indicate when the pump is faulty, float switch and all necessary controls.	1	No.		
	Total carried to collection pag				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)	
	Electrical Works					
A	Allow for electrical works wiring and fitting to all pumps, control panel and float switches, from isolator provided by others with 3 metres distance.	1	Item			
	Petrol Interceptor					
В	2700 x 900 x 600mm deep concrete three chamber petrol interceptor trap complete with all the fitings including the 50mm diameter vent pipe,					
	interconnecting pipes, gulley traps and 3No. heavy duty manhole covers. It shall be constructed with 125mm thick reinforced concrete and water proofed. <b>Sump</b>	0	No			
С	Allow for construction of waste water sump size: 3600mmx1200x1200mm deep.	1	No			
D	Allow for water proofing of the sump hole as shall be done by others	1	Sum			
	Gratings					
Ε	Allow for open channel grating 350x450 deep fabricated from 12"x 10mm thick flat bar MS laid to 1;100 gradient to the satisfaction of the Engineer	0	LM			
F	Sump Drainage pipework		Ŋ			
G	50mm diameter grey UPVC pipework from the	72	No			
	basement sumps to storm water drain.	8	No			
Η	50mm diameter grey UPVC bend	4	No			
J	50mm diameter DZR brass gate valve	4	No			
K	50mm diameter DZR brass non-returm valve	Item	Sum			
	Allow for sleeves, puddle flanges &bends for suction pipes passing through walls of the tanks					
	Total carried to collection page					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supporting Brackets				
А	Allow for suitable supporting steel brackets for anchoring and supporting drainage pipes bends on the lower floor. To be painted to match the walling colour.	50	No.		
	Pipe Sleeves				
В	100mm diameter heavy duty PVC pipe sleeves for crossing over columns and beams.	10	Lm		
C	Sterilization				
C	Allow for flushing out and sterilizing the whole system with chlorine to the satisfaction of the Project Engineer.	1	Item		
_	Testing and commisioning				
D	Allow for testing and commissioning for all plumbing and drainage installation works to the satisfaction of the engineer.	1	Item		
	Total Carried Forward				

## SUMMARY PAGE FOR DRAINAGE PIPING

T	Description								
Item		Description	Amount (Kshs)						
1	Total carried forward from 114								
2	Total carried forward from 115								
3	Total carried forward from 116								
4	Total carried forward from 117								
5	Total carried forward from 118								
6	Total carried forward from 119								
	Total Carri								

## **BILL NO.4 RAINWATER DRAINAGE**

Item	Description	Qt y	Uni t	Rate (Kshs)	Amou nt (Kshs
	RAIN WATER DRAINAGE				,
	Supply and fix uPVC pipes to BS 4660 and				
	BS 4515 and MuPVC pipes to BS 5255 with screwed				
	and socketed joints to BS 21. Solvent welded joints				
	shall be as per the system's manufacturer's written instructions.				
	Tenderers must allow in their pipework prices for				
	all the couplings, clippings, connectors, joints etc. as required in the running lengths of				
	pipework and also where necessary, for pipe fixing clips, holder				
В	bats plugged and screwed for the proper and satisfactory functioning of the system.				
	Pipes				
С	150mm diameter heavy gauge grey mUPVC down	200	Lm		
D	pipes				
E	100mm diameter heavy gauge grey mUPVC downpipes	280	Lm		
F G	50mm diameter heavy gauge grey mUPVC down	72	No.		
U	pipes <b>Bends</b>				
Н	150mm diameter bend	18	No.		
Ι	100mm diameter $45^{\circ}$ bend	41	No.		
	100mm diameter bend	82	No.		
J	50mm diameter bend	24	No.		
Κ	Tees				
L	150mm diameter tee	18	No.		
Μ	100mm diameter tee Others	18	No.		
Ν	100mm diameter single branch with 50mm boss adaptor	18	No.		
Р	150 x 100mm diameter reducing socket	18	No.		
Q	150mm outlet diameter cast iron fulbora floor drain	16	No.		
×	100 x 100mm diameter floor drain with grating 121	10	No.		

R	Access plugs 100mm diameter acess bends	14	No.		
	Drain Shoetrap				
	100mm diameter Drain Shoe for rain pipe	14	No.		
	Rain water Drainage Manholes				
	Allow for a standard 600 x 450mm manhole complete with hardened plastic grey cover.	16	No.		
	Soil trap chamber				
	Allow for rain water soil trap chmaber to engineers details.	1	Item		
Total Carried Forward to summary					
	Page 144	J			

BILL NO 5:WATER TANKS ,PUMPS, WATER RETICULATION AND ASSOCIATED						
Item	INSTALLATION W Descriptio n	VORK Qty	S Unit	Rate (Kshs)	Amoun t (Kshs)	
А	All GALVANIZATION SHALL BE HOT DIPPED AND DONE AS PER ISO 1461 AND APPLICABLE KS STANDARDS TO AT LEAST 85 MICRONS WITH A MINIMUM 25 YEAR GUARANTEE ISSUED. Roof level Tank Supply, deliver and assemble a high level water					
	tanks, made of pressed <b>Galvanized</b> steel sectional tank plates 6mm thick plates (type 1 and 4) and of size 1000mm x 1000mm capacity of tank to be 30,000 litres and of preferred dimensions 5000mm x 3000mm x 2000mm. The tank to come complete with tank cover, mosquito proof inspection vent, internal stays, jointing material, bolts and nuts.The tank shall be complete with the following pipe					
B C	connections: -100mm GMS diameter overflow -Stainless steel internall ladder -100mm GMS diameter outlets					
D	-100mm GMS diameter inlet -100mm GMS diameter washout with gate valve Allow for lightining arrester installed at the elevated	1	No.			
E	pressed steel tank Conductor cable from lightining arrestor to the	1	No.			
F G	ground Allow Kshs. 150,000.00 for factory visit by the project engineers and client representatives during	18	Lm			
	Galvanoization process. Include taxes <b>CPVC Pipe work</b>	1	Item			
	32mm diameter CPVC pipe	24	Lm			

Total Carried Forward to Collection Page for Water tanks & Pumps					
65mm diameter CPVC pipe	44	Lm			
50mm diameter CPVC pipe	90	Lm			

Item	-	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	n Bends				
А	50mm diameter	15	No		
В	bend 65mm	6	No		
	diameter bend <b>Tees</b>				
С	50mm diameter tee	4	No		
D	65mm diameter tee	2	No		
	Reducers		Ът		
Е	100 x65mm diameter	6	No		
F	100 x50mm diameter	6	No		
G	50 x 32mm diameter	4	No		
Н	reducer 50 x 40mm	4	No		
J	diameter reducer 65 x	2	No		
	50mm diameter reducer	1	No		
Κ	Valves	1	No		
L	32mm diameter gate	8	No		
Μ	valve 40mm diameter	1	No		
Ν	gate valve 50mm				
	diameter gate valve	1	No		
Р	65mm diameter gate	1	No		
Q	valve	8	No		
R	Unions	1	No		
S	32mm diameter pipe				
	union 40mm diameter	2	No		
Т	pipe union 50mm	2	No		
U	diameter pipe union				
ч 7	65mm diameter pipe union				
V	Flanged Coupling				
	50mm diameter flanged coupling				
	65mm diameter flanged coupling				
	Submersible Pump				
	A submersible pumpset capable of delivering	1	set		
	5.5m <sup>3</sup> /hr against 10M head, power rating				
	0.55KW, single phase, 50HZ as Pedrollo				

		model Top 2 or equal and approved complete with control panel, associated electrical works, protection against dry run, on/off neon lights, control/pump status displaypanel, audio alarm with manual silencer to indicatewhen the pump is faulty, float switch and all necessary controls.			
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Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Pipe Sleeves				
А	100mm diameter heavy duty PVC (class 41, 2.5mm				
	thick) pipe sleeves for crossing over colums and				
	beams.	24	Lm		
В	Sump Drainage				
ь С	50mm diameter CPVC pipework from the basement				
C	sumps to storm water drain.	36	No		
D	50mm diameter CPVC bend	8	No		
Е	50mm diameter gate valve	4	No		
	50mm diameter non-returm valve	8	No		
F	Water Booster Pumpset				
	Set of automatic electrically driven twin booster				
	pump. One duty and the other one standby with				
	automatic changeover, capable of delivering 12.0m <sup>3</sup>				
	per hour against a head of 40 meters with a three				
	phase power source. The pumpset shall be complete				
	with 100 litres pressure vessel (as Dayliff pressure				
	set or equal and approved) and all accessories				
	required for proper and satisfactory operation. It				
	includes pressure switches, time delay switch, a				
	switch to protect against dry run, timer, gate valves,				
	non-return valves, water level indicator, float level				
G	regulator, 65mm diameter foot valve and strainer.				
	The pump to be as Grundfos model CR15-3 or				
	approved equivalent. Pump to be installed on mild				
	steel frame with approved paint.	1	set		
	Control and Control Panel				
	Control panel for above pumps with contactors, over				
	voltage and under voltage protection relays, MCBs,				
	phase failure protection, timer, 180 meters long float				
	switch control cable to the roof tanks, start/stop push				
	buttons and indicator lights. All these shall be				
	housed in a lockable cabinet (with integral				

isolator) made from SWG 18 mild steel sheet that is oven powder coated. There shall also be an adjustable time delay switch to ensure pumping cycles are						
controlled to not more than 6 per hour. It should include a change-over switch to enable the pumps to	1	Item				
Total Carried Forward to Collection Page Pumps	Total Carried Forward to Collection Page for Water tanks &					

Item	Descriptio	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Ground Level Water Tank & Fittings				
А	Supply, deliver and assemble a ground level				
	water tanks, made of GALVANIZED pressed				
	steel sectional tank plates 6mm thick plates				
	(type 1 and 4)and of size 1000mm x 1000mm,				
	capacity of tank to be 80,000 litres and of				
	preferred dimensions 8000mm x 5000mm x				
	2000mm. The tank to come complete with tank				
	cover, mosquito proof inspection vent, internal				
	stays, jointing material, bolts and nuts. The tank				
	shall be complete with the following pipe				
	connections:-				
	-100mm GMS diameter overflow -100mm GMS diameter outlets	1	No.		
	-100mm diameter inlet				
	-100mm GMS diameter washout with gate				
В	valveProvide the following connections for the	1	Item		
	water tank. Connections to be in stainless steel		<b>T</b> .		
С	puddle	1	Item		
D	1NO. 100mm diameter inlet pipes	1	Item		
	1NO. 200mm diameter inlet pipe from Rain	1	Item		
E	waterharvesting	1	Item		
F	100mm diameter outlet pipe for domestic booster	1	Itarea		
G	pumpset	1	Item		
	150mm diameter outlet pipe for	2	No		
Η	hosereel100mm diameter for				
J	vent/overflow pipe	1	No		
J	20mm diameter for level indicator on the side of				
	the				
Κ	tank with well calibrated scale.				
	50mm diameter high pressure ball valve for				
	fittingfor the groundlevel tank.				
	50mm diameter high pressure ball valve for fitting	20	No.		
	for the roof tank.	12	No.		
L	Valves	14	110.		
	25mm diameter approved medium pressure	6	No.		
М	screw down full way non-rising stem wedge		No.		
	gate valve toBS 5154 PN 20 for series B	4	190.		
Ν	rating, with wheel and head joints to steel				
	tubing and complete with roundmale threaded 128				

transition fittings. The gate valve to be as PEGLER or approved equivalent.						
ditto but 50mm diameter gate valve						
Unions						
25mm diameter pipe union						
50mm diameter pipe union						
Total Carried Forward to Collection Pa Pumps	Total Carried Forward to Collection Page for Water tanks &					

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Stand Pipe				
Р	15mm diameter bib tap suitable for connecting hose				
	pipe complete with threaded adaptors. The tap to be				
	complete with 5meter long 20mm diameter pipe,				
•	bends etc. The chrome plated bib tap to be as Cobra				
А	ref.107EC taps or equal and approved.	12	No		
	Pipe Sleeves				
	75mm diameter heavy duty PVC Class 41 pipe				
	sleeves for crossing over pathways and driveways.				
В	The sleeves will be encased in 75mm concrete				
	surround.	18	Lm		
С	Water Meter				
	65mm water meter as 'Kent' or equal and				
Б	approved	1	N.		
D	for the connection to the water main supply to site	1	No.		
	Allow for water connection fees for water				
	including	1	No.		
	all council charges and deposit fees Water Meter Chamber	1	INO.		
	Meter chamber size 300x300x300mm deep with				
Е	100mm concrete (1: 3: 6) base 50mm block sides				
	rendered all round in cement and sand (1:4) and with				
	approved hinged and flanged cast iron cover and				
	frame including all necessary excavation,				
	disposal and formwork.	1	No		
	<b>Pump Housing</b>	1	No.		
F	Housing with a lockable cabinet (with integral				
	isolator) made from SWG 18stainless steel sheet that				
G	is oven powder coated. The cage shall have an				
	opening of 1000mmx1500mm high with two				
	hinges and lock.The cage shall be 3000mm x2000mm				
	by				
Н	1500mm height. Allow for a class 20 concrete base				
п	of size 3000mm by 3000mm.	1	Item		
	Sterilization				
	Allow for flushing out and sterilizing the whole				
	system with chlorine to the satisfaction of the	1	Item		
	Stand Pipe				

15mm diameter bib tap suitable for connecting					
hose					
pipe complete with threaded adaptors. The tap to be					
complete with 5meter long 20mm diameter pipe,					
bends etc. The chrome plated bib tap to be as Cobra					
ref.107EC taps or equal and approved.	4	No			
Pipe Sleeves					
75mm diameter heavy duty PVC Class 41 pipe					
sleeves for crossing over pathways and driveways.					
The sleeves be encased in 75mm concrete surround.	10	Lm			
Total carried to collection page for Wa Pumps 126	Total carried to collection page for Water tanks & Pumps				

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	WATER RETICULATION				
	Supply, deliver and install High-density polyethylene (HDPE) PN25 in PE100.pipework to ISO 4427 (with KEBS Mark) with joints,				
	couplings, reducers, tees, adaptors, pipe fixing				
	clips .Pipe jointing shall only be by Butt- Fusion				
	Jointing,Electro-Fusion Jointing, or Non-				
	permanent jointing involves the using of mechanical fittings including compession				
А	fittings, flanging and clamping.				
_	HDPE PN 16 PIPEWORK				
В	100mm diameter pipework from county water linetee supply to the building	500	Lm		
С	65mm diameter pipework from roof tank to site ring	300	Lm		
D	<b>Excavations</b> Excavate trench from water line tee of to the site in				
E F	hard soil/murram 600mm wide and depth not exceeding 1000mm deep and average 850mm deep	500	LM		
~	Ditto but for internal Piping	300	LM		
G	Bends				
	65mm Bend/mm HDPE Bend	12	No.		
Н	Allow 65mm end plugs for future expansion Gate Valve Indicator Plates	5	No.		
J	Standard precast concrete Sluice valve marker post marked 'GV' set in concrete (1:3:6) base	12	No		
K	<b>Tees</b> 100mm Equal Tee/110mm HDPE Tee	20	No.		
	Reducer				
L	100x50mm Reducer/110x50mm HDPE Reducer Mechanical Joint	60	No.		
М	110x100mm Mechanical Joint	15	No.		
	Adaptor				
	65mm HDPE Male Adaptors	15	No.		

Ν	Air release valve				
	100mm air release valve	18	No.		
	Valves				
	65mm HDPE Ball cork	10	No.		

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	CPVC PIPEWORK				
	Supply, deliver and install CPVC pipework to DIN 8077 with joints, couplings, reducers, tees, adaptors,				
А	pipe fixing clips etc all to DIN 16962 and DIN 16928 .Pipe jointing shall be by polyfusion or use of electric coupling.				
В	50mm diameter pipework from pump house to the	35	Lm		
	roof tanks <b>Testing and Commissioning</b>				
	Allow for pressure testing and commissioning of the				
	plumbing installation to the satisfaction of the				
C	Engineer with provision of pressure testing				
С	certificates of minimum 5 Bar	1	Item		
D	<b>Project Stationery</b> To be delivered before commencement of works				
E F	as instructed by the Chief Engineer [Mechanical- (BS)]				
G	once the contract has been signed. 1 TB portable harddisk	1	No.		
Н	16gb ram HP spectre x360 laptop, corei7 8th	2	No.		
	generation, 1 TB SSD Samsung Galaxy S21 ultra 5G 256 GB	2	No.		
J	Letter head quality paper, Blue, 500 Sheets as				
	Classic or Conqueror or approved equivalent.	5	No.		
	Toner Cartridge as Hp Laser Jet Pro M402dne Letter head quality paper, size A4, 80g/cm3,	2	No.		
	Green, 500 sheets	5	No.		
	Letter head quality paper, size A4, 80g/cm3, White, 500 sheets	5	No.		
	Total carried to collection pa	σe	1		
		su			

	COLLECTION PAGE FOR WATER TANKS, PUMPS, WATER RETICULATION ANDASSOCIATED WORKS					
Item	Descrip n	tio	Amount (Kshs)			
1	Total carried forward from page 122					
2	Total carried forward from page 123					
3	Total carried forward from page 124					
4	Total carried forward from page 125					
5	Total carried forward from page 126					
6	Total carried forward from page 127					
7	Total carried forward from page 128					
To 14						

Item	Descriptio n	Qty	Unit	Rate (Kshs	Amoun t
				)	(Kshs)
	Hose Reel				
А	Hose Reel System Swinging type hosereel fitted with 30 metres long, 20mm diameter reinforced non-kink rubber hose with5/6 mm lever operated shut-off nozzle, mild steel feed pipe, isolation valve, guide and all other accessories as 'Angus Fire Armour' or	12	No.		
	equal and approved. GMS Pipes Class B				
В	25mm diameter	120	Lm		
С		136	Lm		
D	pipework50mm diameter pipework	78	Lm		
Е	65mm diameter pipework Extra Over	54	No.		
L	PipeworkBends	36	No.		
F	25mm diameter bend	8	No.		
G	50mm diameter	0	NO.		
	bend65mm	28	No.		
Η	diameter bend	4	No.		
Ι	Tees				
	50mm diameter equal tee	34	No.		
J	-	8	No.		
K	65mm diameter equal tee <b>Reducers</b>				
Ŧ	50 x 25 mm diameter reducer				
L		25	No.		
	65 x 50 mm diameter reducer	12	No.		
М	Valves 25mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 1952, with wheel and head joints to steel tubing. The gate valve to be as PEGLER or approved	12	110.		
	50mm diameter gate valve				

		Total Carried Forward to Collection Page	
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Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amoun t (Kshs )
	Unions				)
А	25mm diameter pipe	25	No.		
В	union50mm diameter	6	No.		
C	pipe union	2	No.		
D	65mm diameter pipe union				
Е	Hosereel Pumpset Hose reel pumpset, one duty, the other standby mounted on a frame with a mild steel base plate. Each pump shall have a duty 5m <sup>3</sup> /hr against 65m head as Grundfos model CHV 4 - 100 or approved equivalent. In addition, there shall be a 100 litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dryrun, 65mm foot valve and strainer, tank connections, gate valves and non-return valves. The pressure set tobe as Dayliff or equal and approved.Control shall be effected via a pressure switch through a pre-wired control panel which shall give automatic change-over from duty to standby pump within 5 seconds should the duty pump fail to deliver for any reason. The pumpset shall include all non-returns valves, timer, isolating valves and pipe connections.	1	Set		
F	<b>Control Panel</b> Control panel for above pumps with contactors, overvoltage and under voltage protection relays, MCBs, phase failure protection, timer, 120 meters long floatswitch control 4-core cable to the roof tanks, start/stop push buttons and indicator lights. All theseshall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated. There shall also be an adjustable time delay switch to ensure pumping cycles are controlled to not more than 6 per hour. It <b>Painting</b>	1	Item Item		
	Allow for painting of the hose reel pipework as per				

particular specifications.				
Total Carried Forward to Collection Page				

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amoun t (Kshs
					)
	Portable Fire Extinguishers				
	Supply, deliver, install, test and commission the				
	following portable fire extinguishers and conforming to BS EN 3 / BS 1449.				
А	Water/Carbon Dioxide Gas Fire Extinguisher				
	9 litres water/carbon dioxide gas portable fire				
	extinguisher complete with pressure gauge, initial	12	No		
В	charge and mounting brackets.				
	Carbon Dioxide Gas Fire Extinguisher				
	5 Kg carbon dioxide gas portable fire				
С	extinguisher complete with pressure gauge, initial charge and mounting brackets.	12	No		
	Dry Chemical Powder Fire Extinguisher				
D	6kg dry chemical podwer portable fire extinguisher				
2	complete with pressure gauge, initial charge and mounting brackets.	12	No		
Е	Manual Alarm Bell				
	9" (225mm) manual operated alarm bell (Gong)	12	No		
	Automatic Dry Chemical Powder Fire				
	Extinguisher				
	10kg automatic dry chemical podwer fire extinguisher complete with pressure gauge,				
	initial charge, glass bulb, sprinkler head and mounting base.				
F	The operating temperature of the bulb shall be 68°C.				
	The unit shall be mounted on the concrete slab				
	ceiling using purpose-made screws and to be as				
	Germania, model GD 25 or equal and approved.	28	No		
	Automatic Dry Chemical Powder Fire				
	Extinguisher				
G	10kg automatic dry chemical podwer fire				
U	extinguisher complete with pressure gauge, initial				
	charge, glass bulb, sprinkler head and mounting base. The operating temperature of the bulb shall be				
	79°C. The unit shall be mounted on the concrete slab				
	ceiling using purpose-made screws and to be as				
	Germania, model GD 25 or equal and approved. <b>Fire Notices</b>	4	No		

Allow for fire signage for the hose reel system, fireexits and fire instructions as directed by the Project	32	No		
Total Carried Forward to Collection Page				

Item		Qty	Unit	Rate (Kaba)	Amount (Kshs)
	n DRY RISER INSTALLATION			(Kshs)	· · · ·
	Supply and installation the following fittings for				
	dry				
	riser				
А	Sheet Metal Box				
	Inlet breeching sheet metal box with wired glass door				
	secured with spring locks openable from inside				
	by				
	smashing the glass and releasing the locking				
В	devices on the lock. Approximate size to be 595 x 295 x				
	395mm high.	1	No.		
	Fire Brigade Breeching Inlet	-	1101		
	100mm diameter inlet breeching with twin inlets,				
С	each inlet consisting of a 65mm diameter male				
C	instantaneous coupling with a non-return valve				
	and	1	No		
	black cap secured with a short length of chain. Landing Valve	1	No.		
	65 mm diameter, gunmetal gate pattern landing				
D	valve				
	with flanged inlet and female instantaneous				
	outlet				
	fitted with plug secured by short chains and fixed on				
E	100mm diameter dry riser pipe.	12	No.		
	Fire Hose Reel				
F	65mm diameter, 30 metres long canvas fire hose				
	complete with branch pipe, nozzle, female				
	instantaneous coupling head, hanging hook and other				
	associated fittings for its proper functioning.	12	No.		
G	Fire Hydrant				
	65mm diameter inlet fire hydrant to	1	No.		
Η	specifications				
J	Associated Pipework				
0	Supply and installation of Galvanized mild steel				
	piping and fittings with screwed & socketed joint to				
K	medium grade class "B" to BS. 1387.				
К	GMS Pipework				
L	100mm diameter pipe	120	Lm		
	65mm diameter ditto	80	Lm		
	50mm diameter ditto	84	Lm		
	Extra over Pipework				
	Bends/Elbows				

100mm diameter bends/elbows	14	No.		
65mm diameter bends/elbows	12	No.		
Total Carried Forward to Collection Page				

Item	Descriptio n	Qty	Unit	Rate (Kshs)	Amoun t (Kshs
	Tees				)
А	100 x 100 x 100mm tee	12	No.		
В	100 x 100 x 65mm tee	16	No.		
С	100 x 100 x 50mm tee	12	No.		
	Reducers				
D	100 x 65mm reducer	18	No.		
Е	100 x 50mm reducer	12	No.		
2	Valves				
F	65mm isolating valve with its associated unions	8	No.		
G	65mm diameter flange	10	No.		
	50mm automatic air release valve	4	No.		
Η	Working and Record (As-installed) Drawings				
А	Prepare and submit <b>three sets</b> of working drawings before commencement of works and record (as- installed) plan and isometric layout drawings after completion of works to easily readable scale, A1				
	or				
	A0 paper size format as follows; i) general arrangement drawings of all equipment, plant etc.				
	<ul><li>ii) routes - types and sizes and arrangement of all pipework</li><li>iii) wiring (electrical &amp; control) details</li></ul>				
	<ul> <li>iv) any other details as per specifications</li> <li>Drawings are to be submitted in soft copy</li> <li>(AutoCAD</li> <li>2004 format) &amp; hard copy to the client, the</li> </ul>				
	Architect and the Engineer. The soft copies to be stored in CD				
В	and 4GB flash disk. Allow for preparation & submitting draft and three final copies of				
С	operation, instruction and maintenance manuals to Engineer's				
	approval. <b>Stationery</b>	1	Item		
	Photocopy paper, size A4, 80g/cm3, White, 500sheets	5	No		

HP Laser Jet 053A toner Cartridge	2	No			
Total carried to collection page					

	COLLECTION PAGE						
Item	Descriptio n		Amoun t (Kshs)				
1	Total carried forward from page 130						
2	Total carried forward from page 131						
3	Total carried forward from page 132						
2	Total carried forward from page 133						
3	Total carried forward from page 134						
Tota							

# BILL NO 8: FIRE SUPPRESSION SYSTEM INSTALLATION WORKS FOR SERVER ROOM

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
А	Supply and install fire suppression system with the following items to the satisfaction of the Engineer. The tenderer to submit the technical brochures and working calculations together with the tender for evaluation. Alternative and approved systems utilising inert gases or a mixture of such gases may be provided.				
A B C	80litre (32.1Kg) normal charged capacity Argonite specified containers charged with Argonite gas at 300bar with dimensions 267mm diameter and 1910mm high when fitted with valve cylinders to be complete with discharge valves gauges and hoses for connection to the manifold. All to be as "Fike" or approved equivalent. Normally charged Test Argonite specified containers charged with Argonite gas for testing.	2 1	No. No		
	Cylinder support bracket system	1	Item		
D E	50mm schedule 40 discharge manifold kit with 2 No. ports complete with end caps and a threaded port for pressure switch. All to be as "Fike" or approved equivalent.	1	Item		
F	25mm selector switch	1	No		
	Actuation package	1	Item		
	Total Carried to Collection Page				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
А	Solenoid valve/ manual release valve assembly inclusive of hoses, connectors etc.	1	Item		
В	50mm pressure reducing valve	1	No.		
С	15mm Argonite discharge Nozzles V type 6 orifice, Nozzle coverage 360 degrees pattern and a radius of 3M. The Nozzle will be located less than 300mm below the ceiling as "Fike" or approved equivalent.	5	No.		
D	Relief valve	4	No		
E	Check valve	1	No		
F	Pressure gauge	1	No		
G	Pressure relief/vent	1	No		
Н	Discharge pressure switch	1	No.		
Ι	Flexible discharge horse	1	No.		
J	Controls, addresable Control panel and wiring complete with standby batterries	1	Item		
K	Maintenance switch	1	No.		
L	Double Action manual /electric releasing switch	1	No.		
М	Abort switch	1	No.		
Ν	Ionization sensors	4	No.		
0	Photo electric sensors	4	No.		
Р	Audible alarms	1	No.		
Q	Visual alarm	1	No.		
	Total Carried to Collection Page				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Pipework				
А	25mm diameter seamless black pipe Schedule 40	6	LM		
В	20mm diameter seamless black pipe Schedule 40	10	LM		
С	15mm diameter seamless black pipe Schedule 40	10	LM		
D	20mm diameter pipe bend/elbow	2	No		
Е	15mm diameter pipe bend/elbow	4	No		
F	25mmX20mm pipe reducer	2	No		
G		2	No		
Н	25mmX15mm pipe reducer				
Ι	20mmX15mm pipe reducer	2	No		
	25mm equal tee	2	No		
J	20mm equal tee	1	No		
K	Allow for associated Builders work	1	Item		
L	Allow for pipework anchorage/hangers	1	Item		
М	Allow for painting system pipework	1	Item		
Ν	Electrical works and earthing	1	Item		
0	Labelling and warning signs inside and outside the rooms	2	No		
Р	Calculations,working drawings and as installed drawings	1	Item		
	Dry Chemical Powder Fire Extinguisher				
Q	6kg dry chemical podwer portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	1	No		
	Total Carried to Collection Page				

# **COLLECTION PAGE FOR FIRE SUPPRESSION**

Item	Description	Total Amount
1	Total carried forward from page 136	
2	Total carried forward from page 137	
3	Total carried forward from page 138	
	Total for Fire Suppression System carried to summary page 144	

	<b>BILL NO.9 SOLAR HOT WATER HEATING INSTALLATION</b>				
Item	Descriptio n	Qt y	Unit	Rate (Kshs)	Amou nt (Kshs )
А	<ul> <li>SOLAR WATER HEATING INSTALLATION</li> <li>Supply, delivery, installation, test and commission of the following solar hot water system appliances complete with all the accessories including all connections to the services, jointing to water supply, overflows, supports and all plugging and screwing to walls and frames. The hot water cyclinder shall be installed inside the roof space or on the roof as shall be directed by the project manager.</li> <li>Solar Panels and Hot Water Storage Cylinder Solar water beating system comprising of 1 No</li> </ul>				
В	Solar water heating system comprising of 1No. 300 litres capacity hot water cylinder with 3KW electric booster element, 2No. solar panels with selective (black chrome) 4m <sup>2</sup> dielectric nett absorbing area, safety valves and all other necessary interconnectors. The insulated cylinder shall be treated against corrosion by ceramic lining and shall be fitted with an anode. The system shall be a closed circuit type of the solar heating system as Bosch type or equal and approved.	2	Item		
C D	<b>Supporting Frames</b> Allow for support 3mm hollow mild steel tubes and angle line mild steel plates fixed on roof to support Solar panels and hot water cylinder above in (A) to engineer's to	2	Item		
Е	approval. <b>Thermostatic mixing valve</b> To be installed with approved check valve, and have a safety switch override and of copper material. Should be of Bosch make or equal and approved.	2	No.		
F	Automatic Air Eliminator Air relief valve as manufactured by "Spirax Sarco" model No. AES 50 Air Eliminators for use on hot water services.	2	No.		

Solar Header Tank				ĺ	
50 gallons capacity water storage tank in roof complete					
with cover and having screwed connections for					
(20mm), outlet (32mm), overflow (25mm) and 20mm drain					
as ROTO or equal and approved equivalent.	2	No			
Pressure gauge					
Pressure gauge as manufactured by Honeywell to be					
fitted as instructed by the Engineer	2	No.			
Total carried to collection page for Solar Water Heating Works					

Item	Descriptio n	Qt	Unit	Rate (Kshs)	Amount (Kshs)
	Oxystable PPR PN 25 pipework	У		(185115)	
А	20mm diameter	44	Lm		
В		72	Lm		
С	pipework 25mm	36	Lm		
C	diameter pipework				
D	32mm diameter	3	No.		
	pipework	15	No.		
E	Unions	6	No.		
F	20mm diameter pipe	10			
	union 25mm diameter	12	No.		
G		42 18	No. No.		
Н	pipe union 32mm	10	INO.		
	diameter pipe union	4	No.		
Ι	Bends	4	INO.		
	20mm diameter	18	No.		
J		3	No.		
	bend 25mm				
Κ	diameter bend	3	No.		
L	32mm diameter	18	No.		
	bend Non return				
М	valves				
Ν	25mm diameter non return valve	2	No.		
	Reducers				
0	$25 \times 32$ mm		ŊŢ		
	reducer40 ×	2	No.		
	32mm reducer				
Р	Tees				
	40mm diameter tee	2	No		
	32mm diameter tee				
Q	Gate valves				
×	32mm diameter screwed- in bonnet, full way				
	non-rising stem, solid wedge disk, bronze gate				
	valve to BS 5154 PN20 for series 'B' ratings with wheel head and transition fitting for	58	Lm		
R	jointing to GMS pipework.				
	25mm diameter screwed- in bonnet, full way				
	non-rising stem, solid wedge disk, bronze gate				

valve to BS 5154 PN20 for series 'B' ratings				
with wheel head and transition fitting for				
jointing to GMS pipework.				
Ball Valve				
20mm diameter medium pressure ball valve as				
"PORTSMOUTH" type or approved equivalent				
with brass stem and plastic float, screwed to				
threaded socket of tankincluding union				
Insulation				
Allow for insulation for pipework, bends, tees				
and otherfittings with Fiberglass insulation of				
minimum density of 64kg/m2 and a minimun				
thickness of 25 mm. The insulation shall be				
non-combustible and withstand				
maximum continous operating temp of				
200 <sup>°</sup> c. The insulation to be for pipes less than				
50mm diameter and complete with 24 SWG				
aluminium cladding.				
Total carried to collection page for Solar Water				
Heating Works				

Item	Descriptio n	Qt y	Unit	Rate (Kshs)	Amount (Kshs)	
А	Wiring Allow for all wiring to booster heater from local isolator supplied by others within two meter to the solar heating systems to the switch in the kitchen.	1	Item			
В	Water Connection Allow for connections to rising mains for all solar heating systems and to the hot water delivery line.	1	Item			
С	<b>Sterilization</b> Allow for flushing out and sterilizing the whole system withchlorine to the satisfaction of the Project Engineer.	1	Item			
D	<b>Testing and commisioning</b> Allow for testing and commissioning for all solar heating systems to the satisfaction of the engineer.	1	Item			
	Total carried to collection page for Solar Water Heating Works					

# COLLECTION PAGE FOR SOLAR HOT WATER HEATING INSTALATION WORKS

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Ite m	Description	Amou nt				
1	Total carried forward from Page 140					
2	Total carried forward from Page 141					
3	Total carried forward from Page 142					
	Totals for solar water heating installation works carried to Mechanical WorksSummary Page 144					

# SUMMARY PAGE FOR PLUMBING AND DRAINAGE WORKS

Item	Description	Amount (Ksh)
1	Total for Sanitary Fittings installation Works	
2	Total for Plumbing installation Works	
3	Total for Drainage installation Works	
4	Total for Rain Water Drainage installation Works	
5	Total for Water Tanks, pumps and reticulation installation Works	
6	Total for Fire Protection installation Works	
7	Total for Fire suppression installation Works	
8	Total for solar hot water installation works	
	Totals Carried to the Final Summary Page-145 For Plumbing and Drainage Installation Works	

# FINAL SUMMARY PAGE FOR PLUMBING AND DRAINAGE INSTALLATION WORKS

Item	Description	Amount (Ksh)				
1	Total for Preliminaries and General Items					
2	Total for Plumbing and Drainage Installation Works					
3	Provide a Provisional Sum of Kshs. 2,000,000.00 for Contingency Sum to be used at the discretion of the Project Manager					
	Total for plumbing and Drainage Installation Works Carried to Form of Tender					
Amou	unt in Words:					
	erer's Name and Stamp					
Sub Contract Period						
Signature: Date:						
Tel No: Mobile No:						
Pin N	o VAT Certificate:					
Witne	Date:					
Signa	ture: Address:					

# **SCHEDULE OF UNIT RATES**

- 1. The tenderer shall insert unit rates against the items in the following schedules and may add suchother items as he considers appropriate.
- 2. The unit rates shall include for supply, transport, insurance, delivery to site, storage as necessary, assembling, cleaning, installing, connecting, profit and maintenance in defects liability and any otherobligation under this contract.
- 3. The unit rates will be used to assess the value of additions or omissions arising from authorized variations to the contract works.
- 4. Where trade names or manufacturer's catalogue numbers are mentioned in the specification, the reference is intended as a guide to the type of article or quality of material required. Alternative brands of **equal** and **approved** quality will be accepted

		RATE
DESCRIPTION	UNIT	(Kshs)
65mm PPR pipe	LM	
100mm PPR pipe	LM	
25mm –ditto	No.	
Double Bowl Single Drain Stainless Steel Kitchen Sink	No.	
Close coupled water closet, white (Dual flush "Duravit")	No.	
Pedestal "Duravit" wash hand basin (Chrome pop up waste)	No.	
Paper Towel disposal bin 20L (Foot pedal operated lid)	No.	
Paper Towel dispensing unit (250 Sheets).	No.	
Manual Push Button Flush valve for water closet as "Sloan"	No.	
urinal flush valve with sensor.	No.	
	65mm PPR pipe 100mm PPR pipe 25mm –ditto Double Bowl Single Drain Stainless Steel Kitchen Sink Close coupled water closet, white (Dual flush "Duravit") Pedestal "Duravit" wash hand basin (Chrome pop up waste) Paper Towel disposal bin 20L (Foot pedal operated lid) Paper Towel dispensing unit (250 Sheets). Manual Push Button Flush valve for water closet as "Sloan"	65mm PPR pipeLM100mm PPR pipeLM25mm -dittoNo.Double Bowl Single Drain Stainless Steel Kitchen SinkNo.Close coupled water closet, white (Dual flush "Duravit")No.Pedestal "Duravit" wash hand basin (Chrome pop up waste)No.Paper Towel disposal bin 20L (Foot pedal operated lid)No.Paper Towel dispensing unit (250 Sheets).No.Manual Push Button Flush valve for water closet as "Sloan"No.

# TECHNICAL SCHEDULEOF ITEMS TO BE SUPPLIED

# **TECHNICAL SCHEDULE**

- 1. The technical schedule shall be submitted by tenderers to facilitate and enable the Project Manager toevaluate the tenders, especially where the tenderer intends to supply or has based his tender sum on equipment which differs in manufacture, type or performance from the specifications indicated by the Project Manager/Engineer.
- 2. This schedule shall form part of the technical evaluation criterion, and tenderers are therefore advised to complete the schedule as they shall be considered non responsive.

**NB.** The tenderer must complete in full the technical schedule. Apart from the information required in the technical schedule, the tenderer **MUST SUBMIT LEGIBLE** comprehensive manufacturer's technical brochures and performance details for all items listed in this schedule and **CLEARLY HIGHLIGHT THESPECIFIC REOUIRED ITEM ONLY.** 

_		MANUFACTURE	COUNTRY	REMARKS
		R	<b>OF ORIGIN</b>	(Catalogue No.
				etc.)
Α	DZR PEX Gate			,
	Valves			
В	Pipes PPR			
С	Water closet			
D	Wash hand			
Е	basin			
F	Urinal bowl flush			
G	valve			
Н	WC flush-valve			
Ι	Water Booster			
J	pumpGalvanised			
K	Pressesdsteel plates			
	Fire Hosereel and			
L	pump			
Μ	Automatic dry			
	chemical			
Ν	extinguisher			
0				
	Fire Hydrant			
	Solar hot water			
	panel& cylinder			
	Hand drier			
	CPVC pipes			

# Catalogue must be attached for all the items in the schedule of material above

PART III - THE CONDITIONSOF CONTRACT AND CONTRACT

# SECTION VIII - GENERAL CONDITIONS OF CONTRACT (GCC)

# KAIMOSI FRIENDS UNIVERSITY COLLEGE (KAFUCO)

# PLUMBING AND DRAINAGE INSTALATION WORKS FOR PROPOSED CONSTRUCTION OFLIBRARY AT KAIMOSI FRIENDS UNIVERSITY COLLEGE

# ARCHITECT: CHIEF ARCHITECT, STATE DEPARTMENT FOR PUBLIC WORKSP.O.BOX 30743-00100, NAIROBI

General Conditions of Contract

#### **1. GENERALPROVISIONS**

#### **1.1** Definitions

In this Contract, except where context otherwise requires, the following terms shall be interpreted as indicated below. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

"Accepted Contract Amount" means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.

"Base Date" means a date 30 day prior to the submission of tenders.

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

"Completion Date" means the date of completion of the Works as certified by the Engineer.

"Contract Price" means the price defined in the contract and thereafter as adjusted in accordance with the provisions of the Contract.

"Contract" means the agreement entered into between the Procuring Entity 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.

"Contractor's Documents" means the calculations, computer programs and other software, progress reports, drawings, manuals, models and other documents of a technical nature (if any) supplied by the Contractor under the Contract.

**"Contractor's Equipment"** means all apparatus, machinery, vehicles and other things required for the execution of the Works and the remedying of any defects. However, Contractor's Equipment excludes Temporary Works, Procuring Entity's Equipment (if any), Plant, Materials and any other things intended to form of forming part of the Permanent Works.

"Contractor's Personnel" means the Contractor's Representative and all personnel whom the

Contractor utilizes on Site, who may include the staff, labor and other employees of the Contractor and of each Subcontractor; and any other personnel assisting the Contractor in the execution of the Works.

"Contractor's Representative" means the person named by the Contractor in the Contractor appointed from time to time by the Contractor who acts on behalf of the Contractor.

"**Contractor**" means the person(s) named as contractor in the Form of Tender accepted by the Procuring Entity.

"Cost" means expenditure reasonably incurred (or to be incurred) by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.

"Day" means a calendar day and "year" means 365 days.

"Day works" means Work inputs subject to payment on a time basis for labour and the associated materials and plant.

"Defect" means any part of the Works not completed in accordance with the Contract.

**"Defects Liability Certificate"** means the certificate issued by Architect upon correction of defects by theContractor.

**"Defects Liability Period"** means the period named in the Special Conditions of Contract and calculated from theCompletion Date, within which the contractor is liable for any defects that may develop in the handed over works.

**"Defects Notification Period"** means the period for notifying defects in the Works or a Section (as the case maybe) under Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects], which extends over thedays stated in the Special Conditions of Contract.

**"Drawings"** means the drawings of the Works, as included in the Contract, and any additional and modifieddrawings issued by (or on behalf of) the Procuring Entity in accordance with the Contract.

**"Final Payment Certificate"** means the payment certificate issued under Sub-Clause 14.13 [Issue of Final PaymentCertificate].

**"Final Statement"** means the statement defined in Sub-Clause 14.11 [Application for Final Payment Certificate].

"Force Majeure" is defined in Clause19 [Force Majeure].

**"Foreign Currency"** means a currency of another country (not Kenya) in which part (or all) of the Contract Priceis payable, but not the Local Currency.

"Goods" means Contractor's Equipment, Materials, Plant and Temporary Works, or any of them as appropriate.

**"Interim Payment Certificate"** means a payment certificate issued under Clause 14 [Contract Price and Payment], other than the Final Payment Certificate.

"Laws" means all national legislation, statutes, ordinances, and regulations and by-laws of any legally constituted public authority.

"Letter of Acceptance" means the letter of formal acceptance of a tender, signed by Procuring Entity, including any annexed memoranda comprising agreements between and signed by both Parties.

"Local Currency" means the currency of Kenya.

**"Materials"** means things of all kinds (other than Plant) intended to form or forming part of the Permanent Works, including the supply-only materials (if any) to be supplied by the Contractor under the Contract.

"Notice of Dissatisfaction" means the notice given by either Party to the other under Sub-Clause 20.3 indicating its dissatisfaction and intention to commence arbitration.

**"Special Conditions of Contract"** means the pages completed by the Procuring Entity entitled SpecialConditions of Contract which constitute Part A of the Special Conditions.

"Party" means the Procuring Entity or the Contractor, as the context requires.

"Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price]

and Payment]. "Performance Certificate" means the certificate issued under Sub-Clause 11.9

[Performance Certificate]. "Performance Security" means the security (or securities, if any)

under Sub-Clause 4.2 [Performance Security]."Permanent Works" means the permanent

works to be executed by the Contractor under the Contract.

**"Plant"** means the apparatus, machinery and other equipment intended to form or forming part of the PermanentWorks, including vehicles purchased for the Procuring Entity and relating to the construction or operation of the Works.

**"Procuring Entity's Equipment"** means the apparatus, machinery and vehicles (if any) made available by the Procuring Entity for the use of the Contract or in the execution of the Works, as stated in the Specification; but does not include Plant which has not been taken over by the Procuring Entity.

**"Procuring Entity's Personnel"** means the Engineer, the Engineer, the assistants and all other staff, labor and other employees of the Architect and of the Procuring Entity; and any other personnel notified to the Contractor, by the Procuring Entity or the Engineer, as Procuring Entity's Personnel.

"Procuring Entity" means the Entity named in the Special Conditions of Contract.

**"Engineer"** is the person named in the Appendix to Conditions of Contract (or any other competent person appointed by the Procuring Entity and notified to the Contractor, to act in replacement of the Engineer) 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.

**"Engineer"** means the person appointed by the Procuring Entity to act as the Architect for the purposes of the Contract and named in the Special Conditions of Contract, or other person appointed from time to time by the Procuring Entity and notified to the Contractor

**"Provisional Sum"** means a sum (if any) which is specified in the Contract as a provisional sum, for the execution of any part of the Works or for the supply of Plant, Materials or services under Sub-Clause 13.5 [Provisional Sums].

**"Retention Money"** means the accumulated retention moneys which the Procuring Entity retains under Sub-Clause

14.3 [Application for Interim Payment Certificates] and pays under Sub-Clause 14.9 [Payment of Retention Money].

"Schedules" means the document(s) entitled schedules, completed by the Contractor and submitted with the Formof Tender, as included in the Contract.

"Section" means a part of the Works specified in the Special Conditions of Contract as a Section (if any)

"Site Investigation Reports" are those reports that may be included in the tendering documents which a ref actual and interpretative about the surface and sub-surface condition sat the Site.

"Site" means the places where the Permanent Works are to be executed, including storage and working areas, andto which Plant and Materials are to be delivered, and any other places as may be specified in the Contract as forming part of the Site.

**"Specification"** means the document entitled specification, as included in the Contract, and any additions andmodifications to the specification in accordance with the Contract. Such document specifies the Works.

"Start Date" or "Commencement 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).

"Statement" means a statement submitted by the Contractor as part of an application, under Clause 14 [ContractPrice and Payment], for a payment certificate.

"Subcontractor" means any person named in the Contract as a subcontractor, or any person appointed as asubcontractor, for a part of the Works.

"Taking-Over Certificate" means a certificate issued under Clause 10 [Procuring Entity's Taking Over].

**"Temporary Works"** means all temporary works of every kind (other than Contractor's Equipment) required onSite for the execution and completion of the Permanent Works and the remedying of any defects.

**"Temporary works"** means works designed, constructed, installed, and removed by the Contractor which areneeded for construction or installation of the Works.

**"Tender"** means the Form of Tender and all other documents which the Contractor submitted with the Form of Tender, as included in the Contract.

**"Tests after Completion"** means the tests (if any) which are specified in the Contract and which are carried out in accordance with the Specification after the Works or a Section (as the case may be) are taken over by the ProcuringEntity.

**"Tests on Completion"** means the tests which are specified in the Contractor agreed by both Parties or instructed as a Variation, and which are carried out under Clause 9 [Tests on Completion] before the Works or a Section (asthe case may be) are taken over by the Procuring Entity.

**"Time for Completion"** means the time for completing the Works or a Section (as the case may be) as stated in theSpecial Conditions of Contract (with any extension calculated from the Commencement Date.

"Unforeseeable" means not reasonably foreseeable by an experienced contractor by the Base Date.

"Variation" means any change to the Works, which is instructed or approved as a variation under Clause 13[Variations and Adjustments].

**"Works"** means the items the Procuring Entity requires the Contractor to undertake as defined in the Appendix toConditions of Contract. **"Works" may** also mean the Permanent Works and the Temporary Works, or either of them as appropriate.

# 1.2 Interpretation

In the Contract, except where the context requires otherwise:

- a) Words indicating one gender include all genders;
- b) words indicating the singular also include the plural and words indicating the plural also include the singular;
- c) provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing;
- d) "written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record; and

The marginal words and other headings shall not be taken into consideration in the interpretation of theseConditions.

## 1.3 Communications

- 13.1 Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests and discharges, these communications shall be:
  - a) In writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using anyof the agreed systems of electronic transmission as stated in the Special Conditions of Contract; and
  - b) delivered, sent or transmitted to the address for the recipient's communications as stated in the SpecialConditions of Contract. However:
    - i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and

- ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued.
- 132 Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to aParty, by the other Party or the Engineer, a copy shall be sent to the Architect or the other Party, as the case may be.

#### 1.4 Law and Language

- 1A1 The Contract shall be governed by the laws of Kenya.
- 142 The ruling language of the Contract shall be **English.**

#### **1.5 Priority of Documents**

The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

- a) The Contract Agreement,
- b) The Letter of Acceptance,
- c) The Special Conditions Part A,
- d) the Special Conditions Part B
- e) the General Conditions of Contract
- f) the Form of Tender,
- g) the Specifications and Bills of Quantities
- h) the Drawings, and
- i) the Schedules and any other documents forming part of the Contract.

If an ambiguity or discrepancy is found in the documents, the Architect shall issue any necessary clarification instruction.

#### 1.6 Contract Agreement

The Parties shall enter into a Contract Agreement within 14 days after the Contractor receives the Contract Agreement, unless the Special Conditions establish otherwise. The Contract Agreement shall be based upon the form annexed to the Special Conditions. The costs of stamp duties and similar charges (if any) imposed by law in connection with entry into the Contract Agreement shall be borne by the Procuring Entity.

#### 1.7 Assignment

The Contractor shall not assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, the contractor:

- a) May as sign the whole or any part with the prior consent of the Procuring Entity, and
- b) may, as security in favor of a bank or financial institution, assign its right to moneys due, or tobecome due, under the Contract.

## 1.8 **Care and Supply of Documents**

- 181 The Specifications and Drawings shall be in the custody and care of the Procuring Entity. Unless otherwisestated in the Contract, two copies of the Contract and of each subsequent Drawings and Bills of Quantities shall be supplied to the Contractor, who may make or request further copies at the cost of the Contractor.
- 182 Each of the Contractor's Documents shall be in the custody and care of the Contractor, unless and until taken over by the Procuring Entity. Unless otherwise stated in the Contract, the Contractor shall supply to the Architect two copies of each of the Contractor's Documents.
- 183 The Contractor shall keep, on the Site, a copy of the Contract, publications named in the Specification, theContractor's Documents (if any), the Drawings and Variations and other communications given under theContract. The Procuring Entity's Personnel shall have the right of access to all these documents at all reasonable times.
- 184 If a Party becomes aware of an error or defect in a document which was prepared for use in executing the Works, the Party shall promptly give notice to the other Party of such error or defect.

#### 1.9 Timely provision of Drawings or Instructions

- 19.1 The Contractor shall give notice to the Architect whenever the Works are likely to be delayed or disrupted if any necessary drawing or instruction is not issued to the Contractor within a particular time, which shall be reasonable. The notice shall include details of the necessary drawing or instruction, details of why and by when it should be issued, and the nature and amount of the delay or disruption likely to be suffered if it is late.
- 192 If the Contractor suffers delay and/or incurs Cost as a result of a failure of the Architect to issue the notifieddrawing or instruction within a time which is reasonable and is specified in the notice with supporting details, the Contractor shall give a further notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4

[Extension of Time for Completion], and

- b) payment of any other associated costs accrued, which shall be included in the Contract Price.
- 193 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 194 However, if and to the extent that the Architect failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the Contractor's Documents, the Contractor shall not be entitled to such extension of time, or costs accrued.

# 1.10 Procuring Entity's Use of Contractor's Documents

- 1.10.1 As agreed between the Parties, the Contractor shall retain the copyright and other intellectual property rights in the Contractor's Documents and other design documents made by (or on behalf of) the Contractor.
- 1.102 The Contractor shall be deemed (by signing the Contract) to give to the Procuring Entity a non-terminable transferable non-exclusive royalty-free license to copy, use and communicate the Contractor's Documents, including making and using modifications of them. This license shall:
  - a) apply throughout the actual or intended working life (whichever is longer) of the relevant parts of the Works,
  - b) entitle any person in proper possession of the relevant part of the Works to copy, use and communicate the Contractor's Documents for the purposes of completing, operating, maintaining, altering, adjusting, repairing and demolishing the Works, and
  - c) in the case of Contractor's Documents which are in the form of computer programs and other software, permit their use on any computer on the Site and other places as envisaged by the Contract, including replacements of any computers supplied by the Contractor.
- 1.10.3 The Contractor's Documents and other design documents made by (or on behalf of) the Contractor shallnot, without the Contractor's consent, be used, copied or communicated to a third party by (or on behalf of) the Procuring Entity for purposes other than those permitted under Sub-Clause 1.10.2.

# 1.11 Contractor's Use of Procuring Entity's Documents

As agreed between the Parties, the Procuring Entity shall retain the copyright and other intellectual property rights in the Specification, the Drawings and other documents made by (or on behalf of) the Procuring Entity. The Contractor may, at his cost, copy, use, and obtain communication of these documents for the purposes of the Contract. They shall not, without the Procuring Entity's consent, be copied, usedor communicated to a third party by the Contractor, except as necessary for the purposes of the Contract.

# 1.12 Confidential Details

1.12.1 The Contractor's and the Procuring Entity's Personnel shall ensure confidentiality at all times. The confidentiality shall survive termination or completion of the contract. They

shall disclose all such confidential and other information as may be reasonably required in order to verify compliance with theContract and allow its proper implementation.

1.122 The Contractor's and the Procuring Entity's Personnel shall also treat the details of the Contract as private and confidential, except to the extent necessary to carry out their respective obligations under the Contract or to comply with applicable Laws. Each of them shall not publish or disclose any particulars of the Works prepared by the other Party without the previous agreement of the other Party. However, the Contractor shall be permitted to disclose any publicly available information, or information otherwise required to establish his qualifications to compete for other projects.

### 1.13 Compliance with Laws

The Contractor shall, in performing the Contract, comply with applicable Laws. Unless otherwise stated in the Special Conditions of Contract:

a) The Procuring Entity shall have obtained (or shall obtain) the planning, zoning, building permitor similar permission for the Permanent Works, and any other permissions described in the Specifications as having been (or to be) obtained by the Procuring Entity; and the Procuring Entity shall indemnify and hold the Contractor harmless against and from the consequences of any failure

to do so; and

b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licenses and approvals, as required by the Laws in relation to the execution and completion of the Works and the remedying of any defects; and the Contractor shall indemnify and hold the Procuring Entity harmless against and from the consequences of any failure to do so, unless the Contractor is impeded to accomplish these actions and shows evidence of its diligence.

#### 1.14 Joint and Several Liability

If the Contractor constitutes (under applicable Laws) a joint venture, consortium or other unincorporated grouping of two or more persons:

- a) These persons shall be deemed to be jointly and severally liable to the Procuring Entity for theperformance of the Contract;
- b) these persons shall notify the Procuring Entity of their leader who shall have authority to bind theContractor and each of these persons; and
- c) the Contractor shall not alter its composition or legal status without the prior consent of the ProcuringEntity.

#### 1.15 Inspections and Audit by the Procuring Entity

Pursuant to paragraph 2.2(e). of Appendix B to the General Conditions, the Contractor shall permit and shall cause its subcontractors and sub-consultants to permit, the Public Procurement Regulatory Authority, Procuring Entity and/or persons appointed or designated by the Government of Kenya to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the Procuring Entity if requested by the Procuring Entity. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 15.6 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Procuring Entity's inspection and audit rights constitute a prohibited practice subject to contract termination

(as well as to a determination of in eligibility pursuant to the Procuring Entity's prevailing sanctions procedures).

# 2 THE PROCURING ENTITY

## 2.1 Right of Access to the Site

- 2.1.1 The Procuring Entity shall give the Contractor right of access to, and possession of, all parts of the Site within the time (or times) stated in the **Special Conditions of Contract.** The right and possession may notbe exclusive to the Contractor. If, under the Contract, the Procuring Entity is required to give (to the Contractor) possession of any foundation, structure, plant or means of access, the Procuring Entity shall doso in the time and manner stated in the Specification. However, the Procuring Entity may withhold any such right or possession until the Performance Security has been received.
- 2.1.2 If no such time is stated in the Special Conditions of Contract, the Procuring Entity shall give the Contractor right of access to, and possession of, the Site within such times as required to enable the Contractor to proceed without disruption in accordance with the programme submitted under Sub-Clause 8.3 [Programme].
- 2.1.3 If the Contractor suffers delay and/or incurs Cost as a result of a failure by the Procuring Entity to give any such right or possession within such time, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 2.1.4 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 2.1.5 However, if and to the extent that the Procuring Entity's failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the Contractor's Documents, the Contractor shall not be entitled to such extension of time, Cost or profit.

## 22 Permits, Licenses or Approvals

- 2.2.1 The Procuring Entity shall provide, at the request of the Contractor, such reasonable assistance as to allow the Contractor to obtain properly:
  - a) Copies of the Laws of Kenya which are relevant to the Contract but are not readily available, and
  - b) any permits, licenses or approvals required by the Laws of Kenya:
    - i) which the Contractor is required to obtain under Sub-Clause 1.13 [Compliance with Laws],
    - ii) for the delivery of Goods, including clearance through customs, and
    - iii) for the export of Contractor's Equipment when it is removed from the Site.

# 23 Procuring Entity's Personnel

The Procuring Entity shall be responsible for ensuring that the Procuring Entity's

Personnel and the Procuring Entity's other contractor son the Site:

- a) co-operate with the Contractor's efforts under Sub-Clause 4.6 [Co-operation], and
- b) take actions similar to those which the Contractor is required to take under subparagraphs (a), (b)and (c) of Sub-Clause 4.8 [Safety Procedures] and under Sub-Clause 4.18 [Protection of the Environment].

# 24 Procuring Entity's Financial Arrangements

The Procuring Entity shall make and maintain all necessary financial arrangements which will enable the Procuring Entity to pay the Contract Price punctually (as estimated at that time) in accordance with Clause14 [Contract Price and Payment].

# 3 THE ENGINEER

# 3.1 Architect Duties and Authority

- **31.1** The Procuring Entity shall appoint the Architect who shall carry out the duties as signed to him in the Contract. The Architect staff shall include suitably qualified Assistants and other professionals who are competent to carry out these duties. The Architect Name and Address shall be provided in the **Special Conditions of Contract.**
- 3.1.2 The Architect shall have no authority to amend the Contract.
- 3.1.3 The Architect May exercise the authority attributable to the Architect as specified in or necessarily to be implied from the Contract. If the Architect is required to obtain the approval of the Procuring Entity before exercising a specified authority, the requirements shall be as stated in the Special Conditions of Contract. The Procuring Entity shall promptly inform the Contractor of any change to the authority attributed to the Engineer.
- 3.1.4 However, whenever the Architect exercises a specified authority for which the Procuring Entity's approvalis required, then (for the purposes of the Contract) the contractor shall require the Architect to provide evidence of such approval before complying with the instruction.
- 3.1.5 Except as otherwise stated in these Conditions:
  - a) Whenever carrying out duties or exercising authority, specified in or implied by the Contract, the Architect shall be deemed to act for the Procuring Entity;
  - b) the Architect has no authority to relieve either Party of any duties, obligations or responsibilities under the Contract;
  - c) any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by the Architect (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the Contract, including responsibility for errors, omissions, discrepancies and non-compliances; and
  - d) any act by the Architect in response to a Contractor's request shall be notified in writing to theContractor within 14 days of receipt.
- 3.1.6 The following provisions shall apply:

The Architect shall obtain the specific approval of the Procuring Entity before taking action under the-following Sub-Clauses of these Conditions:

- a) Sub-Clause 4.12: agreeing or determining an extension of time and/or additional cost.
- b) Sub-Clause 13.1: instructing a Variation, except;
  - i) In an emergency situation as determined by the Engineer, or

ii) If such a Variation would increase the Accepted Contract Amount by less than the percentagespecified in the **Special Conditions of Contract.** 

- c) Sub-Clause 13.3: Approving a proposal for Variation submitted by the Contractor in accordance with Sub Clause 13.1 or 13.2.
- d) Sub-Clause13.4: Specifying the amount payable in each of the applicable three currencies.
- 3.1.7 Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, anemergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractorto execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forth with comply, despite the absence of approval of the Procuring Entity, with any such instruction of the Engineer. The Architect shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Procuring Entity.

# **3.2** Delegation by the Engineer

- 32.1 The Architect may from time to time assign duties and delegate authority to assistants and may also revoke such assignment or delegation. These assistants may include a resident Engineer, and/or independent inspectors appointed to inspect and/ or test items of Plant and/or Materials. The assignment, delegation orrevocation shall be in writing and shall not take effect until copies have been received by both Parties. However, unless otherwise agreed by both Parties, the Architect shall not delegate the authority to determine any matter in accordance with Sub-Clause 3.5 [Determinations].
- 32.2 Each assistant, to whom duties have been assigned or authority has been delegated, shall only be authorized to issue instructions to the Contractor to the extent defined by the delegation. Any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by an assistant, in accordance with the delegation, shall have the same effect as though the act had been an act of the Engineer. However:
  - a) Any failure to disapprove any work, Plant or Materials shall not constitute approval, and shall therefore not prejudice the right of the Architect to reject the work, Plant or Materials;
  - b) If the Contractor questions any determination or instruction of an assistant, the Contractor may refer the matter to the Engineer, who shall promptly confirm, reverse or vary the determination or instruction.

## **33** Instructions of the Engineer

3.3.1 The Architect may issue to the Contractor (at any time) instructions and additional or modified Drawings which may be necessary for the execution of the Works and the

remedying of any defects, all in accordance with the Contract. The Contractor shall only take instructions from the Engineer, or from an assistant to whom the appropriate authority has been delegated under Clause 3.2.1.

- 3.3.2 The Contractor shall comply with the instructions given by the Architect or delegated assistant, on any matter related to the Contract. Whenever practicable, their instructions shall be given in writing. If the Architect or a delegated assistant:
  - a) Gives an oral instruction,
  - b) receives a written confirmation of the instruction, from (or on behalf of) the Contractor, within two working days after giving the instruction, and
  - c) does not reply by issuing a written rejection and/or instruction within two working days after receiving

the confirmation,

Then the confirmation shall constitute the written instruction of the Architect or delegated assistant (as the case may be).

## **3.4** Replacement of the Engineer

If the Procuring Entity intends to replace the Engineer, the Procuring Entity shall, in not less than 21 days before the intended date of replacement, give notice to the Contractor of the name, address and relevant experience of the intended person to replace the Engineer.

## **3.5** Determinations

- 3.5.1 Whenever these Conditions provide that the Architect shall proceed in accordance with this Sub-Clause3.5 to agree or determine any matter, the Architect shall consult with each Party in an endeavor to reach agreement. If agreement is not achieved, the Architect shall make a fair determination in accordance with the Contract, taking due regard of all relevant circumstances.
- 3.5.1 The Architect shall give notice to both Parties of each agree mentor determination, with supporting particulars, within 30 days from the receipt of the corresponding claim or request except when otherwisespecified. Each Party shall give effect to each agreement or determination unless and until revised under Clause 20 [Claims, Disputes and Arbitration].

# 4 THE CONTRACTOR

## 4.1 Contractor's General Obligations

- 4.1.1 The Contractor shall design (to the extent specified in the Contract), execute and complete the Works in accordance with the Contract and with the Architect instructions, ands hall remedy any defects in the Works.
- 4.1.2 The Contractor shall provide the Plant and Contractor's Documents specified in the Contract, and all Contractor's Personnel, Goods, consumables and other things and services, whether of a temporary or permanent nature, required in and for this design, execution, completion and remedying of defects.
- 4.1.3 All equipment, material, and services to be incorporated in or required for the Works shall

have their originin any eligible source country.

- 4.1.4 The Contractor shall be responsible for the adequacy, stability and safety of all Site operations and of all methods of construction. Except to the extent specified in the Contract, the Contractor (i) shall be responsible for all Contractor's Documents, Temporary Works, and such design of each item of Plant and Materials as is required for the item to be in accordance with the Contract, and (ii) shall not otherwise beresponsible for the design or specification of the Permanent Works.
- 4.15 The Contractor shall, whenever required by the Engineer, submit details of the arrangements and methods which the Contractor proposes to adopt for the execution of the Works. No significant alteration to these arrangements and methods shall be made without this having previously been notified to the Engineer.
- 4.1.6 If the Contract specifies that the Contractor shall design any part of the Permanent Works, then unless otherwise stated in the Special Conditions:
  - a) The Contractor shall submit to the Architect the Contractor's Documents for this part in accordance with the procedures specified in the Contract;
  - b) these Contractor's Documents shall be in accordance with the Specification and Drawings, shall bewritten in the language for communications defined in Sub-Clause 1.4 [Law and Language], and shall include additional information required by the Architect to add to the Drawings for co-ordination of each Party's designs;
  - c) the Contractor shall be responsible for this part and it shall, when the Works are completed, befit for such purposes for which the part is intended as are specified in the Contract; and
  - d) prior to the commencement of the Tests on Completion, the Contractor shall submit to the Architect the "as-built" documents and, if applicable, operation and maintenance manuals in accordance with the Specification and in sufficient detail for the Procuring Entity to operate, maintain, dismantle, reassemble, adjust and repair this part of the Works. Such part shall not be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections] until these documents and manuals have been submitted to the Engineer.

## 4.2 Performance Security

- 42.1 The Contractor shall obtain (at his cost) a Performance Security for proper performance, in the amount stated in the **Special Conditions of Contract** and denominated in the currency (ies) of the Contract or in a freely convertible currency acceptable to the Procuring Entity. If an amount is not stated in the SpecialConditions of Contract, this Sub-Clause shall not apply.
- 4.2.2 The Contractor shall deliver the Performance Security to the Procuring Entity within 30 days after receiving the Notification of Award and shall send a copy to the Engineer. The Performance Security shall be issued by a reputable bank selected by the Contractor and shall be in the form annexed to the Special Conditions, as stipulated by the Procuring Entity in the Special Conditions of Contract, or in another form approved by the Procuring Entity.
- 4.2.3 The Contractor shall ensure that the Performance Security is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects. If the terms of the Performance Security specify its expiry date, and the Contractor has not become entitled to receive the Performance Certificate by the date 30 days prior to the expiry date, the Contractor shall extend the validity of the Performance Security until the Works have been completed and any defects have been remedied.
- 42.4 The Procuring Entity shall not make a claim under the Performance Security, except for amounts to which the Procuring Entity is entitled under the Contract.
- 42.5 The Procuring Entity shall indemnify and hold the Contractor harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from a claim under the Performance Security to the extent to which the Procuring Entity was not entitled to make the claim.
- 4.2.6 The Procuring Entity shall return the Performance Security to the Contractor within 14 days after receiving a copy of the Taking-Over Certificate.
- 4.2.7 Without limitation to the provisions of the rest of this Sub-Clause, whenever the Architect determines an addition or a reduction to the Contract Price as a result of a change in cost and/ or legislation, or as a result of a Variation, amounting to more than 25 percent of the portion of the Contract Price payable in a specific currency, the Contractor shall at the Architect request promptly increase, or may decrease, as the case maybe, the value of the Performance Security in that currency by an equal percentage.

## 4.3 Contractor's Representative

- **43.1** The Contractor shall appoint the Contractor's Representative and shall give him all authority necessary toact on the Contractor's behalf under the Contract. The Contractor's Representative's Name and Address shall be provided in the **Special Conditions of Contract.**
- 4.3.2 Unless the Contractor's Representative **is named in the Contract**, the Contractor shall, prior to the Commencement Date, submit to the Architect for consent the name and particulars of the person the Contractor proposes to appoint as Contractor's Representative. If consent is withheld or subsequently revoked in terms of Sub-Clause 6.9 [Contractor's Personnel], or if the appointed person fails to act as Contractor's Representative, the Contractor shall similarly submit the name and particulars of another

suitable person for such appointment.

- 43.3 The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Contractor's Representative or appoint are placement.
- 4.3.4 The whole time of the Contractor's Representative shall be given to directing the Contractor's performance of the Contract. If the Contractor's Representative is to be temporarily absent from the Site during the execution of the Works, a suitable replacement person shall be appointed, subject to the Architect prior consent, and the Architect shall be notified accordingly.
- 435 The Contractor's Representative shall, on behalf of the Contractor, receive instructions under Sub-Clause3.3 [Instructions of the Engineer].
- 4.3.6 The Contractor's Representative may delegate any powers, functions and authority to any competent person, and may at any time revoke the delegation. Any delegation or revocation shall not take effect until the Architect has received prior notice signed by the Contractor's Representative, naming the person and specifying the powers, functions and authority being delegated or revoked.
- 4.3.7 The Contractor's Representative shall be fluent in the language for communications defined in Sub- Clause1.4 [Law and Language]. If the Contractor's Representative's delegates are not fluent in the said language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.

### 44 Sub-contractors

- 44.1 The Contractor shall not subcontract the whole of the Works. The contractor may however subcontract the works as provided in Clause 34.2.
- 442 The Contractor shall be responsible for the acts or defaults of any Subcontractor, his agents or employees, as if they were the acts or defaults of the Contractor. Unless otherwise stated in the Special Conditions:
  - a) The Contractor shall not be required to obtain consent to suppliers solely of Materials, or to asubcontract for which the Subcontractor is named in the Contract;
  - b) The prior consent of the Procuring Entity shall be obtained to other proposed Subcontractors;
  - c) the Contractor shall give the Procuring Entity not less than 14 days' notice of the intended date of the commencement of each Subcontractor's work, and of the commencement of such work on theSite; and
  - d) each subcontract shall include provisions which would entitle the Procuring Entity to require the subcontract to be assigned to the Procuring Entity under Sub-Clause 4.5 [Assignment of Benefit ofSubcontract] (if or when applicable) or in the event of termination under Sub-Clause 15.2 [Termination by Procuring Entity].
- The Contractor shall ensure that the requirements imposed on the Contractor by Sub-Clause 1.12 [Confidential Details] apply equally to each Subcontractor.
- 444 Where practicable, the Contractor shall give fair and reasonable opportunity for contractors from Kenya tobe appointed as Subcontractors.

## 45 Assignment of Benefit of Subcontract

If a Subcontractor's obligations extend beyond the expiry date of the relevant Defects Notification Period and the Engineer, prior to this date, instructs the Contractor to assign the benefit of such obligations to the Procuring Entity, then the Contractor shall do so. Unless otherwise stated in the assignment, the Contractor shall have no liability to the Procuring Entity for the work carried out by the Subcontractor after the assignment takes effect.

## 4.6 Co-operation

- 461 The Contractor shall, as specified in the Contract or as instructed by the Engineer, allow appropriateopportunities for carrying out work to:
  - a) The Procuring Entity's Personnel,
  - b) Any other contractors employed by the Procuring Entity, and
  - c) The personnel of any legally constituted public authorities, who may be employed in the execution on or near the Site of any work not included in the Contract.
- 462 Any such instruction shall constitute a Variation if and to the extent that it causes the Contractor to suffer delays and/or to incur Unforeseeable Cost. Services for these personnel and other contractors may include the use of Contractor's Equipment, Temporary Works or access arrangements which are the responsibility of the Contractor.
- <sup>463</sup> If, under the Contract, the Procuring Entity is required to give to the Contractor possession of any foundation, structure, plant or means of access in accordance with Contractor's Documents, the Contractorshall submit such documents to the Architect in the time and manner stated in the Specification.

## 47 Setting Out of the Works

- 47.1 The Contractor shall set out the Works in relation to original points, lines and levels of reference specified in the Contractor notified by the Engineer. The Contractor shall be responsible for the correct positioning all parts of the Works, and shall rectify any error in the positions, levels, dimensions or alignment of the Works.
- 472 The Procuring Entity shall be responsible for any errors in these specified or notified items of reference, but the Contractor shall use reasonable efforts to verify their accuracy before they are used.
- 4.73 If the Contractor suffers delay and/or incurs Cost from executing work which was necessitated by an error in these items of reference, and an experienced contractor could not reasonably have discovered such error and avoided this delay and/ or Cost, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4[Extension of Time for Completion], and
  - b) payment of any such costs accrued, which shall be included in the Contract Price.
- 4.7.4 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause3.5 [Determinations] to agree or determine (i) whether and (if so) to what extent the error could not reasonably have been discovered, and (ii) the matters described in sub-paragraphs (a) and (b) above related to these.

## 4.8 Safety Procedures

The Contractor shall:

- a) Comply with all applicable safety regulations,
- b) Take care for the safety of all persons entitled to be on the Site,
- c) Use reasonable efforts to keep the Site and Works clear of unnecessary obstruction so as to avoiddanger to these persons,
- d) provide fencing, lighting, guarding and watching of the Works until completion and taking overunder Clause 10 [Procuring Entity's Taking Over], and
- e) provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and of owners and occupiers of adjacent land.

# 4.9 Quality Assurance

- 49.1 The Contractor shall institute a quality assurance system to demonstrate compliance with the requirements of the Contract. The system shall be in accordance with the details stated in the Contract. The Architect shall be entitled to audit any aspect of the system.
- 492 Details of all procedures and compliance documents shall be submitted to the Architect for information before each design and execution stage is commenced. When any document of a technical nature is issued to the Engineer, evidence of the prior approval by the Contractor itself shall be apparent on the documentitself.

Compliance with the quality assurance system shall not relieve the Contractor of any of his duties, obligations or responsibilities under the Contract.

# 4.10 Site Data

- 4.10.1 The Procuring Entity shall have made available to the Contractor for his information, prior to the Base Date, all relevant data in the Procuring Entity's possession on subsurface and hydrological conditions at the Site, including environmental aspects. The Procuring Entity shall similarly make available to the Contractor all such data which come into the Procuring Entity's possession after the Base Date. The Contractor shall be responsible for interpreting all such data.
- 4.102 To the extent which was practicable (taking account of cost and time), the Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Tender or Works. To the same extent, the Contractor shall be deemed to have inspected and examined the Site, its surroundings, the above data and other available information, and to

have been satisfied before submitting the Tender as to all relevant matters, including (without limitation):

- a) The form and nature of the Site, including sub-surface conditions,
- b) the hydrological and climatic conditions,
- c) the extent and nature of the work and Goods necessary for the execution and completion of the Works and the remedying of any defects,
- d) the Laws, procedures and labour practices of Kenya, and
- e) the Contractor's requirements for access, accommodation, facilities, personnel, power, transport, water and other services.

# 4.11 Sufficiency of the Accepted Contract Amount

- 4.11.1 The Contractor shall be deemed to:
  - a) Have satisfied itself as to the correctness and sufficiency of the Accepted Contract Amount, and
  - b) have based the Accepted Contract Amount on the data, interpretations, necessary information, inspections, examinations and satisfaction as to all relevant matters referred to in Sub-Clause 4.10 [Site Data].
- 4112 Unless otherwise stated in the Contract, the Accepted Contract Amount covers all the Contractor's obligations under the Contract (including those under Provisional Sums, if any) and all things necessary for the proper execution and completion of the Works and the remedying of any defects.

## 4.12 Unforeseeable Physical Conditions

- 4121 In this Sub-Clause, "physical conditions" means natural physical conditions and manmade and other physical obstructions and pollutants, which the Contractor encounters at the Site when executing the Works, including sub-surface and hydrological conditions but excluding climatic conditions.
- 4122 If the Contractor encounters adverse physical conditions which he considers to have been Unforeseeable, the Contractor shall give notice to the Architect as soon as practicable.
- 4.123 This notice shall describe the physical conditions, so that they can be inspected by the Architect and shall set out the reasons why the Contractor considers them to be Unforeseeable. The Contractor shall continue executing the Works, using such proper and reasonable measures as are appropriate for the physical conditions, and shall comply with any instructions which the Architect may give. If an instruction constitutes a Variation, Clause 13 [Variations and Adjustments] shall apply.
- 4124 If and to the extent that the Contractor encounters physical conditions which are Unforeseeable, gives such a notice, and suffers delay and/or incurs Cost due to these conditions, the Contractor shall be entitled subject to notice under Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4[Extension of Time for Completion], and
  - b) payment of any such Cost, which shall be included in the Contract Price.

- 4125 Upon receiving such notice and inspecting and/or investigating these physical conditions, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) whether and (if so) to what extent these physical conditions were Unforeseeable, and (ii) the matters described in sub-paragraphs (a) and (b) above related to this extent.
- 4.126 However, before additional Cost is finally agreed or determined under sub-paragraph (ii), the Architect may also review whether other physical conditions in similar parts of the Works (if any) were more favorable than could reasonably have been foreseen when the Contractor submitted the Tender. If and to the extent that these more favorable conditions were encountered, the Architect may proceed in accordance with Sub-Clause 3.5B [Determinations] to agree or determine the reductions in Cost which were due to these conditions, which may be included (as deductions) in the Contract Price and Payment Certificates. However, the net effect of all adjustments under sub-paragraph (b) and all these reductions, for all the physical conditions encountered in similar parts of the Works, shall not result in a net reduction in the Contract Price.
- 4.127 The Architect shall take account of any evidence of the physical conditions foreseen by the Contractor when submitting the Tender, which shall be made available by the Contractor, but shall not be bound by the Contractor's interpretation of any such evidence.

# 4.13 Rights of Way and Facilities

Unless otherwise specified in the Contract the Procuring Entity shall provide effective access to and possession of the Site including special and/or temporary rights-of-way which are necessary for the Works. The Contractor shall obtain, at his risk and cost, any additional rights of way or facilities outside the Site which he may require for the purposes of the Works.

## 4.14 Avoidance of Interference

- 4.14.1 The Contractor shall not interfere unnecessarily or improperly with:
  - a) The convenience of the public, or
  - b) The access to and use and occupation of all roads and foot paths, irrespective of whether they are public or in the possession of the Procuring Entity or of others.
- 4.142 The Contractor shall indemnify and hold the Procuring Entity harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from any such unnecessary or improper interference.

## 4.15 Access Route

- 4.15.1 The Contractor shall be deemed to have been satisfied as to the suitability and availability of access routes to the Site at Base Date. The Contractor shall use reasonable efforts to prevent any road or bridge from being damaged by the Contractor's traffic or by the Contractor's Personnel. These efforts shall include the proper use of appropriate vehicles and routes.
- 4.152 Except as otherwise stated in these Conditions:
  - a) The Contractor shall (as between the Parties) be responsible for any

maintenance which may berequired for his use of access routes;

- b) the Contractor shall provide all necessary signs or directions along access routes, and shall obtain any permission which may be required from the relevant authorities for his use of routes, signs and directions;
- c) the Procuring Entity shall not be responsible for any claims which may arise from the use orotherwise of any access route;
- d) the Procuring Entity does not guarantee the suitability or availability of particular access routes; and
- e) Costs due to non-suitability or non-availability, for the use required by the Contractor, of accessroutes shall be borne by the Contractor.

# 4.16 Transport of Goods

Unless otherwise stated in the Special Conditions:

- a) the Contractor shall give the Architect not less than 21 days' notice of the date on which any Plantor a major item of other Goods will be delivered to the Site;
- b) the Contractor shall be responsible for packing, loading, transporting, receiving, unloading, storing and protecting all Goods and other things required for the Works; and
- c) the Contractor shall indemnify and hold the Procuring Entity harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from the transport of Goods and shall negotiate and pay all claims arising from their transport.

## 4.17 Contractor's Equipment

The Contractor shall be responsible for all Contractors' Equipment. When brought on to the Site, Contractor's Equipment shall be deemed to be exclusively intended for the execution of the Works. The Contractor shall not remove from the Site any major items of Contractor's Equipment without the consent of the Engineer. However, consent shall not be required for vehicles transporting Goods or Contractor's Personnel off Site.

## 4.18 Protection of the Environment

- 4.18.1 The contractor shall comply with the applicable environmental laws, regulations and policies.
- 4.182 The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and tolimit damage and nuisance to people and property resulting from pollution, noise and other results of hisoperations.
- 4.183 The Contractors hall ensure that emissions, surfaced is charges and effluent from the Contractor's activities shall not exceed the values stated in the Specification or prescribed by applicable Laws.

#### 4.19 Electricity, Water and Gas

- 4.19.1 The Contractor shall, except as stated below, be responsible for the provision of all power, water and other services he may require for his construction activities and to the extent defined in the Specifications, for the tests.
- 4.19.2 The Contractor shall be entitled to use for the purposes of the Works such supplies of

electricity, water, gas and other services as may be available on the Site and of which details and prices are given in the Specifications. The Contractor shall, at his risk and cost, provide any apparatus necessary for his use of these services and for measuring the quantities consumed.

4.19.3 The quantities consumed and the amounts due (at these prices) for such services shall be agreed or determined by the Architect in accordance with Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.

### 4.20 **Procuring Entity's Equipment and Free-Issue Materials**

- 420.1 The Procuring Entity shall make the Procuring Entity's Equipment (if any) available for the use of the Contractor in the execution of the Works in accordance with the details, arrangements and prices stated in the Specification. Unless otherwise stated in the Specification:
  - a) The Procuring Entity shall be responsible for the Procuring Entity's Equipment, except that
  - b) the Contractor shall be responsible for each item of Procuring Entity's Equipment whilst any of theContractor's Personnel is operating it, driving it, directing it or in possession or control of it.
- 420.1 The appropriate quantities and the amounts due (at such stated prices) for the use of Procuring Entity's Equipment shall be agreed or determined by the Architect in accordance with Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.
- 4202 The Procuring Entity shall supply, free of charge, the "free-issue materials" (if any) in accordance with the details stated in the Specification. The Procuring Entity shall, at his risk and cost, provide these materials at the time and place specified in the Contract. The Contractor shall then visually inspect them and shall promptly give notice to the Architect of any shortage, defect or default in these materials. Unless otherwise agreed by both Parties, the Procuring Entity shall immediately rectify the notified shortage, defector default.
- 4203 After this visual inspection, the free-issue materials shall come under the care, custody and control of theContractor. The Contractor's obligations of inspection, care, custody and control shall not relieve the Procuring Entity of liability for any shortage, defect or default not apparent from a visual inspection.

# 4.21 Progress Reports

- 421.1 Unless otherwise stated in the Special Conditions, monthly progress reports shall be prepared by the Contractor and submitted to the Architect in six copies. The first report shall cover the period up to the end of the first calendar month following the Commencement Date. Reports shall be submitted monthly thereafter, each within 7 days after the last day of the period to which it relates.
- 421.2 Reporting shall continue until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works. Each report shall include:
  - a) charts and detailed descriptions of progress, including each stage of design (if any), Contractor's Documents, procurement, manufacture, delivery to Site, construction, erection and testing; and including these stages for work by each nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]),
  - b) photographs showing the status of manufacture and of progress on the Site;
  - c) for the manufacture of each main item of Plant and Materials, the name of the manufacturer, manufacture location, percentage progress, and the actual or expected dates of:
    - i) commencement of manufacture,
    - ii) Contractor's inspections,
    - iii) tests, and
    - iv) shipment and arrival at the Site;
  - d) the details described in Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment];
  - e) copies of quality assurance documents, test results and certificates of Materials;
  - f) list of notices given under Sub-Clause 2.5 [Procuring Entity's Claims] and notices given under Sub-Clause 20.1 [Contractor's Claims];
  - g) safety statistics, including details of any hazardous incidents and activities relating to environmental aspects and public relations; and
  - h) comparison so factual and planned progress, with details of any events or circumstances which may jeopardize the completion in accordance with the Contract, and the measures being (or tobe) adopted to overcome delays.

## 4.22 Security of the Site

Unless otherwise stated in the Special Conditions:

- a) The Contractor shall be responsible for keeping unauthorized persons off the Site, and
- b) authorized persons shall be limited to the Contractor's Personnel and the Procuring Entity's Personnel; and to any other personnel notified to the Contractor, by the Procuring Entity or the Engineer, as authorized personnel of the Procuring Entity's other contractors on the Site.

## 4.23 Contractor's Operations on Site

423.1 The Contractor shall confine his operations to the Site, and to any additional areas which may be obtained by the Contractor and agreed by the Architect as additional working areas. The Contractorshall take all necessary precautions to keep Contractor's Equipment and Contractor's Personnel within the Site and these additional areas, and to keep them off adjacent land.

- 4232 During the execution of the Works, the Contractor shall keep the Site free from all unnecessary obstruction and shall store or dispose of any Contractor's Equipment or surplus materials. The Contractor shall clear away and remove from the Site any wreckage, rubbish and Temporary Works which are no longer required.
- 4233 Upon the issue of a Taking-Over Certificate, the Contractor shall clear away and remove, from thatpart of the Site and Works to which the Taking-Over Certificate refers, all Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works. The Contractor shall leave that part of the Site and the Works in a clean and safe condition. However, the Contractor may retain on Site, during the Defects Notification Period, such Goods as are required for the Contractor to fulfil obligations under the Contract.

## 4.24 Fossils

- 424.1 All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological orarchaeological interest found on the Site shall be placed under the care and authority of the Procuring Entity. The Contractor shall take reasonable precautions to prevent Contractor's Personnel or other persons from removing or damaging any of these findings.
- 424.2 The Contractor shall, upon discovery of any such finding, promptly give notice to the Engineer, who shallissue instructions for dealing with it. If the Contractor suffers delay and/or incurs Cost from complying with the instructions, the Contractor shall give a further notice to the Architect and shall be entitled subject to Sub- Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) payment of any such Cost, which shall be included in the Contract Price.
     After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5[Determinations] to agree or determine these matters.

## 5. NOMINATED SUBCONTRACTORS

## 5.1 Definition of "nominated Subcontractor"

In this Contract, "nominated Subcontractor" means a Subcontractor:

- a) Who is nominated by the Procuring Entity, or
- b) Contractor has nominated as a Subcontractor subject to Sub-Clause 5.2 [Objection to Notification].

## 5.2 Objection to Nomination

The Contractor shall not be under any obligation to employ a nominated Subcontractor against whom the Contractor raises reasonable objection by notice to the Procuring Entity as soon as practicable, with supporting particulars. An objection shall be deemed reasonable if it arises from (among other things) anyof the following matters, unless the Procuring Entity agrees in writing to indemnify the Contractor against and from the consequences of the matter:

a) there are reasons to believe that the Subcontractor does not have sufficient

competence, resources or financial strength;

- b) the nominated Subcontractor does not accept to indemnify the Contractor against and from any negligence or misuse of Goods by the nominated Subcontractor, his agents and employees; or
- c) the nominated Subcontractor does not accept to enter into a subcontract which specifies that, for the subcontracted work (including design, if any), the nominated Subcontractor shall:
  - i) undertake to the Contractor such obligations and liabilities as will enable the Contractor to discharge his obligations and liabilities under the Contract;
  - ii) indemnify the Contractor against and from all obligations and liabilities arising under or in connection with the Contract and from the consequences of any failure by the Subcontractor to perform these obligations or to fulfill these liabilities, and
  - iii) be paid only if and when the Contractor has received from the Procuring Entity payments for sums due under the Subcontract referred to under Sub-Clause 5.3 [Payment to nominated Subcontractors].

# 5.3 Payments to nominated Subcontractors

The Contractor shall pay to the nominated Subcontractor the amounts shown on the nominated Subcontractor's invoices approved by the Contractor which the Architect certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with sub-paragraph (b) of Sub-Clause 13.5 [Provisional Sums], except as stated in Sub-Clause **54** [Evidence of Payments].

# 54 Evidence of Payments

- 54.1 Before issuing a Payment Certificate which includes an amount payable to a nominated Subcontractor, the Architect may request the Contractor to supply reasonable evidence that the nominated Subcontractor has received all amounts due in accordance with previous Payment Certificates, less applicable deductions for retention or otherwise. Unless the Contractor:
  - (a) Submits this reasonable evidence to the Engineer, or
  - (b) i) Satisfies the Architect in writing that the Contractor is reasonably entitled to withhold orrefuse to pay these amounts, and
    - ii) Submits to the Architect reasonable evidence that the nominated Subcontractor has been notified of the Contractor's entitlement, then the Procuring Entity may (at his sole discretion)pay, direct to the nominated Subcontractor, part or all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractorhas failed to submit the evidence described in sub-paragraphs (a) or (b) above. The Contractor shall then repay, to the Procuring Entity, the amount which the nominated Subcontractor wasdirectly paid by the Procuring Entity.

# 6 STAFF AND LABOR

# 6.1 Engagement of Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labor, local or otherwise, and for their payment, feeding, transport, and, when appropriate, housing. The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and laborwith appropriate qualifications and

experience from sources within Kenya.

## 6.2 Rates of Wages and Conditions of Labor

- 62.1 The Contractor shall pay rates of wages, and observe conditions of labor, which are not lower than those established for the trade or industry where the work is carried out. If no established rates or conditions are applicable, the Contractor shall pay rates of wages and observe conditions which are not lower than the general level of wages and conditions observed locally by Procuring Entity's whose trade or industry is similar to that of the Contractor.
- 6.2.2 The Contractor shall inform the Contractor's Personnel about their liability to pay personal income taxes in Kenya in respect of such of their salaries, wages, allowances and any benefits as are subject to tax under the Laws of Kenya for the time being in force, and the Contractor shall perform such duties in regard to such deductions there of as may be imposed on him by such Laws.

## 6.3 Persons in the Service of Procuring Entity

The Contractor shall not recruit, or attempt to recruit, staff and labour from amongst the Procuring Entity's Personnel.

# 6.4 Labour Laws

The Contractor shall comply with all the relevant labour Laws applicable to the Contractor's Personnel, including Laws relating to their employment, employment of children, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights. The Contractor shall require his employees toobey all applicable Laws, including those concerning safety at work.

# 6.5 Working Hours

No work shall be carried out on the Site on locally recognized days of rest, or outside the normal workinghours stated in the **Special Conditions of Contract**, unless:

- a) Otherwise stated in the Contract,
- b) The Architect gives consent, or
- c) The work is unavoidable, or necessary for the protection of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Engineer, provided that work done outside the normal working hours shall be considered and paid for as overtime.

## 6.6 Facilities for Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities on site for the Contractor's Personnel. The Contractor shall also provide facilities for the Procuring Entity's Personnel as stated in the Specifications. The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works.

# 6.7 Health and Safety

- 6.7.1 The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site and atany accommodation for Contractor's and Procuring Entity's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.
- 6.7.2 The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the execution of the Works, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.
- 6.7.3 The Contractor shall send, to the Engineer, details of any accident as soon as practicable after its occurrence. The Contractor shall maintain records and make reports concerning health, safety and welfare of persons, and damage to property, as the Architect may reasonably require.
- 6.7.4 The Contractor shall conduct an awareness programme on HIV and other sexually transmitted diseases via an approved service provider and shall undertake such other measures taken to reduce the risk of the transfer of these diseases between and among the Contractor's Personnel and the local community, to promote early diagnosis and to assist affected individuals.

### 6.8 Contractor's Superintendence

- 6.8.1 Throughout the execution of the Works, and as long thereafter as is necessary to fulfill the Contractor's obligations, the Contractor shall provide all necessary superintendence to plan, arrange, direct, manage, inspect and test the work.
- 6.8.2 Superintendence shall be given by a sufficient number of persons having adequate knowledge of the language for communications (defined in Sub-Clause 1.4 [Law and Language]) and of the operations to be carried out (including the methods and techniques required, the hazards likely to be encountered and methods of preventing accidents), for the satisfactory and safe execution of the Works.

## 6.9 Contractor's Personnel

- 69.1 The Contractor's Personnel shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Contractors Key personnel shall be named in the Special Conditions of Contract. The Architect may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Contractor's Representative if applicable, who:
  - a) Persists in any misconduct or lack of care,
  - b) Carries out duties in competently or negligently,
  - c) fails to conform with any provisions of the Contract,
  - d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment, or
  - e) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Works.

69.2 If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.

### 6.10 Records of Contractor's Personnel and Equipment

The Contractor shall submit, to the Engineer, details showing the number of each class of Contractor's Personnel and of each type of Contractor's Equipment on the Site. Details shall be submitted each calendarmonth, in a form approved by the Engineer, until the Contractor has completed all work which is known tobe outstanding at the completion date stated in the Taking-Over Certificate for the Works.

### 6.11 Disorderly Conduct

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst the Contractor's Personnel, and to preserve peace and protection of persons and property on and near the Site.

### 6.12 Foreign Personnel

- 6.12.1 The Contractor shall not employ foreign personnel unless the contractor demonstrates that there are noKenyans with the required skills.
- 6.12.2 The Contractor shall be responsible for the return of any foreign personnel to the place where they were recruited or to their domicile. In the event of the death in Kenya of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

## 6.13 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

#### 6.14 Measures against Insect and Pest Nuisance

The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

## 6.15 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of Kenya, onsite, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereof by Contractor's Personnel.

#### 6.16 Prohibition of Forced or Compulsory Labour

The Contractor shall not employ forced labor, which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.

### 6.17 Prohibition of Harmful Child Labor

The Contractor shall not employ children in a manner that is economically exploitative, or is likely to behazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development. Where the relevant labour laws of Kenya have provisions for employment of minors, the Contractor shall follow those laws applicable to the Contractor. Children below the age of 18 years shall not be employed in dangerous work.

### 6.18 Employment Records of Workers

The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment].

### 6.19 Workers' Organizations

The Contractor shall comply with the relevant labor laws that recognize workers' rights to form and to joinworkers' organizations of their choosing without interference.

### 6.20 Non-Discrimination and Equal Opportunity

The Contractor shall base the labour employment on the principle of equal opportunity and fair treatmentand shall not discriminate with respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, promotion, termination of employ mentor retirement, and discipline.

# 7. PLANT, MATERIALS AND WORKMANSHIP

### 7.1 Manner of Execution

The Contractor shall carry out the manufacture/assemble of plant, the production and manufacture of Materials, and all other execution of the Works:

- a) In the manner (if any) specified in the Contract,
- b) in a proper workman like and careful manner, in accordance with recognized good practice, and
- c) with properly equipped facilities and non-hazardous Materials, except as otherwise specified in theContract.

### 7.2 Samples

The Contractor shall submit the following samples of Materials, and relevant information, to the Architectfor consent prior to using the Material sin or for the Works:

- a) manufacturer's standard samples of Materials and samples specified in the Contract, all at theContractor's cost, and
- b) additional samples instructed by the Architect as a Variation.

Each sample shall be labeled as to origin and intended use in the Works.

## 7.3 Inspection

- 7.3.1 The Procuring Entity's Personnel shall at all reasonable times:
  - a) Have full access to all parts of the Site and to all places from which natural Materials are being obtained, and
  - b) during production, manufacture and construction (at the Site and elsewhere), be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of manufacture of Plant and production and manufacture of Materials.
- 7.3.2 The Contractor shall give the Procuring Entity's Personnel full opportunity to carry out these activities, including providing access, facilities, permissions and safety equipment. No such activity shall relieve the Contractor from any obligation or responsibility.
- 7.3.3 The Contractor shall give notice to the Architect whenever any work is ready and before it is covered up,put out of sight, or packaged for storage or transport. The Architect shall then either carry out the examination, inspection, measurement or testing without unreasonable delay, or promptly give notice to the Contractor that the Architect does not require to do so. If the Contractor fails to give the notice, he shall, if and when required by the Engineer, uncover the work and there after reinstate and make good, all at the Contractor's cost.

## 7.4 Testing

- 7.4.1 This Sub-Clause shall apply to all tests specified in the Contract.
- 7.4.2 Except as otherwise specified in the Contract, the Contractor shall provide all apparatus, assistance, documents and other information, electricity, equipment, fuel, consumables, instruments, labor, materials, and suitably qualified and experienced staff, as are necessary

to carry out the specified tests efficiently. The Contractor shall agree, with the Engineer, the time and place for the specified testing of any Plant, Materials and other parts of the Works.

- 7.4.3 The Architect may, under Clause 13 [Variations and Adjustments], vary the location or details of specified tests, or instruct the Contractor to carry out additional tests. If these varied or additional tests show that the tested Plant, Materials or workmanship is not in accordance with the Contract, the cost of carrying out this Variation shall be borne by the Contractor, notwithstanding other provisions of the Contract.
- 7.4.4 The Architect shall give the Contractor not less than 24 hours' notice of the Architect intention to attend the tests. If the Architect does not attend at the time and place agreed, the Contractor may proceed with the tests, unless otherwise instructed by the Engineer, and the tests shall then be deemed to have been made in the Architect presence.
- 7.4.5 If the Contractor suffers delay and/ or incurs Cost from complying with these instructions or as a result of a delay for which the Procuring Entity is responsible, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4[Extension of Time for Completion], and
  - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 7.4.6 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 7.4.7 The Contractor shall promptly forward to the Architect duly certified reports of the tests. When the specified tests have been passed, the Architect shall endorse the Contractor's test certificate, or issue a certificate tohim, to that effect. If the Architect has not attended the tests, he shall be deemed to have accepted the readings as accurate.

# 7.5 Rejection

- 7.5.1 If, as a result of an examination, inspection, measurement or testing, any Plant, Materials or workmanship found to be defective or otherwise not in accordance with the Contract, the Architect may reject the Plant, Materials or workmanship by giving notice to the Contractor, with reasons. The Contractor shall then promptly make good the defect and ensure that the rejected item complies with the Contract.
- 75.2 If the Architect requires this Plant, Materials or workmanship to be retested, the tests shall be repeated under the same terms and conditions. If the rejection and retesting cause the Procuring Entity to incur additional costs, the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay these costs to the Procuring Entity.

# 7.6 Remedial Work

- 7.6.1 Notwithstanding any previous test or certification, the Architect may instruct the Contractor to:
  - a) Remove from the Site and replace any Plant or Materials which is not in accordance with the Contract,
  - b) remove and re-execute any other work which is not in accordance with the Contract, and
  - c) execute any work which is urgently required for the safety of the Works, whether because of anaccident, unforeseen able event or otherwise.
- 7.6.2 The Contractor shall comply with the instruction within a reasonable time, which shall

be the time (if any)specified in the instruction, or immediately if urgency is specified under sub-paragraph (c).

- 7.6.3 If the Contractor fails to comply with the instruction, the Procuring Entity shall be entitled to employ and pay other persons to carry out the work. Except to the extent that the Contractor would have been entitled to payment for the work, the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay to the Procuring Entity all costs arising from this failure.
- 7.6.4 If the contractor repeatedly delivers defective work, the Procuring Entity may consider termination in accordance with Clause 15.

# 7.7 Ownership of Plant and Materials

Except as otherwise provided in the Contract, each item of Plant and Materials shall become the property of the Procuring Entity at whichever is the earlier of the following times, free from liens and other encumbrances:

- a) When it is incorporated in the Works;
- b) when the Contractor is paid the corresponding value of the Plant and Materials under Sub-Clause
   8.10 [Payment for Plant and Materials in Event of Suspension].

## 7.8 Royalties

Unless otherwise stated in the Specification, the Contractor shall pay all royalties, rents and other payments for:

- a) Natural materials obtained from outside the Site, and
- b) The disposal of material from demolitions and excavations and of other surplus material (whethernatural or man-made), except to the extent that disposal are as within the Site are specified in the Contract.

# 8 COMMENCEMENT, DELAYS AND SUSPENSION

### 8.1 Commencement of Works

- 8.1.1 Except as otherwise specified in the Special Conditions of Contract, the Commencement Date shall be thedate at which the following precedent condition shave all been fulfilled and the Architect notification recording the agreement of both Parties on such fulfillment and instructing to commence the Work is received by the Contractor:
  - a) Signature of the Contract Agreement by both Parties, and if required, approval of the Contract by relevant authorities of Kenya;
  - b) except if otherwise specified in the Special Conditions of Contract, effective access to and possession of the Site given to the Contractor together with such permission(s) under (a) of Sub-Clause 1.13 [Compliance with Laws] as required for the commencement of the Works.
  - c) Receipt by the Contractor of the Advance Payment under Sub-Clause 14.2 [Advance Payment] provided that the corresponding bank guarantee has been delivered by the Contractor.
- 8.1.2 If the said Architect instruction is not received by the Contractor within 180 days from his receipt of theLetter of Acceptance, the Contractor shall be entitled to terminate the Contract under Sub-Clause1 6.2 [Termination by Contractor].
- 8.1.3 The Contractor shall commence the execution of the Works as soon as is reasonably practicable after theCommencement Date and shall then proceed with the Works with due expedition and without delay.

## 8.2 Time for Completion

The Contractor shall complete the whole of the Works, and each Section (if any), within the Time for Completion for the Works or Section (as the case may be), including:

- a) Achieving the passing of the Tests on Completion, and
- b) completing all work which is stated in the Contract as being required for the Works or Section to be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections].

## 83 Programme

- 8.3.1 The Contractor shall submit a detailed time programme to the Architect within 1 4 days after receiving the notice under Sub-Clause 8.1 [Commencement of Works]. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress or with the Contractor's obligations. Each programme shall include:
  - a) The order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage of design (if any), Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing,
  - b) each of these stages for work by each nominated Subcontractor (as defined in Clause 5 [NominatedSubcontractors]),
  - c) the sequence and timing of inspections and tests specified in the Contract, and
  - d) a supporting report which includes:

- i) a general description of the methods which the Contractor intends to adopt, and of the majorstages, in the execution of the Works, and
- ii) details showing the Contractor's reasonable estimate of the number of each class of Contractor's Personnel and of each type of Contractor's Equipment, required on the Site for each major stage.
- 8.3.2 Unless the Engineer, within 14 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Procuring Entity's Personnel shall beentitled to rely upon the programme when planning their activities.
- 83.3 The Contractor shall promptly give notice to the Architect of specific probable future events or circumstances which may adversely affect the work, increase the Contract Price or delay the execution of the Works.
- 8.3.4 If, at any time, the Architect gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contractor to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Architect in accordance with this Sub-Clause.

# 8.4 Extension of Time for Completion

- 8.4.1 The Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to an extension of the Time for Completion if and to the extent that completion for the purposes of Sub-Clause 10.1 [Taking Overof the Works and Sections] is or will be delayed by any of the following causes:
  - a) a Variation (unless an adjustment to the Time for Completion has been agreed under Sub-Clause 13.3 [Variation Procedure]) or other substantial change in the quantity of an item of work included in theContract,
  - b) a cause of delay giving an entitlement to extension of time under a Sub-Clause of these Conditions,
  - c) exceptionally adverse climatic conditions,
  - d) Unforeseeable shortages in the availability of personnel or Goods caused by epidemic orgovernmental actions, or
  - e) any delay, impediment or prevention caused by or attributable to the Procuring Entity, the ProcuringEntity's Personnel, or the Procuring Entity's other contractors.
- 8.4.2 If the Contractor considers itself to be entitled to an extension of the Time for Completion, the Contractorshall give notice to the Architect in accordance with Sub-Clause 20.1 [Contractor's Claims]. When determining each extension of time under Sub-Clause 20.1, the Architect tshall review previous determinations and may increase, but shall not decrease, the total extension of time.

# 8.5 Delays Caused by Authorities

If the following conditions apply, namely:

- a) The Contractor has diligently followed the procedures laid down by the relevant legally constituted public authorities in Kenya,
- b) These authorities delay or disrupt the Contractor's work, and
- c) the delay or disruption was Unforeseeable, then this delay or disruption will be

considered as acause of delay under sub-paragraph (b) of Sub-Clause 8.4 [Extension of Time for Completion].

## 8.6 Rate of Progress

- 8.6.1 If, at any time:
  - a) Actual progress is too slow to complete within the Time for Completion, and/or
  - b) Progress has fallen (or will fall) behind the current programme under Sub-Clause 8.3 [Programme], other than as a result of a cause listed in Sub-Clause 8.4 [Extension of Time for Completion], then the Architect may instruct the Contractor to submit, under Sub-Clause 8.3 [Programme], a revised programme and supporting report describing the revised methods which the Contractor proposes to adopt in order to expedite progress and complete within the Time for Completion.
- 8.6.2 Unless the Architect notifies otherwise, the Contractor shall adopt these revised methods, which may require increases in the working hours and/or in the numbers of Contractor's Personnel and/or Goods, at the risk and cost of the Contractor. If these revised methods cause the Procuring Entity to incur additional costs, the Contractor shall subject to notice under Sub-Clause 2.5 [Procuring Entity's Claims] pay these costs to the Procuring Entity, in addition to delay damages (if any) under Sub-Clause 8.7 below.
- 8.6.3 Additional costs of revised methods including acceleration measures, instructed by the Architect to reducedelays resulting from causes listed under Sub-Clause 8.4 [Extension of Time for Completion] shall be paid by the Procuring Entity, without generating, however, any other additional payment benefit to the Contractor.

### 8.7 Delay Damages

8.7.1 If the Contractor fails to comply with Sub-Clause 8.2 [Time for Completion], the Contractor shall subject on notice under Sub-Clause 2.5 [Procuring Entity's Claims] pay delay damages to the Procuring Entity for this default. These delay damages shall be the sum stated in the **Special Conditions of Contract**, which shall be paid for everyday which shall elapse between the relevant Time for Completion and the date stated in the

Taking-Over Certificate. However, the total amount due under this Sub-Clause shall not exceed themaximum amount of delay damages (if any) stated in the Special Conditions of Contract.

8.7.2 These delay damages shall be the only damages due from the Contractor for such default, other than in the event of termination under Sub-Clause 15.2 [Termination by Procuring Entity] prior to completion of the Works. These damages shall not relieve the Contractor from his obligation to complete the Works, or from any other duties, obligations or responsibilities which he may have under the Contract.

## 8.8 Suspension of Work

- 8.8.1 The Architect may at any time instruct the Contractor to suspend progress of part or all of the Works. During such suspension, the Contractor shall protect, store and secure such part or the Works against any deterioration, loss or damage.
- 8.8.2 The Architect may also notify the cause for the suspension. If and to the extent that the cause is notified and is the responsibility of the Contractor, the following Sub-Clauses

8.9, 8.10 and 8.11 shall not apply.

### 8.9 Consequences of Suspension

- 89.1 If the Contractor suffers delay and/or incurs Cost from complying with the Architect instructions under Sub-Clause 8.8 [Suspension of Work] and/or from resuming the work, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) Payment of any such Cost, which shall be included in the Contract Price.
- 8.9.2 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause3.5 [Determinations] to agree or determine these matters.
- 8.9.3 The Contractor shall not be entitled to an extension of time for, or to payment of the Cost incurred in, making good the consequences of the Contractor's faulty design, workmanship or materials, or of the Contractor's failure to protect, store or secure in accordance with Sub-Clause 8.8 [Suspension of Work].

## 8.10 Payment for Plant and Materials in Event of Suspension

The Contractor shall be entitled to payment of the value (as at the date of suspension) of Plant and/ orMaterials which have not been delivered to Site, if:

- a) The work on Plant or delivery of Plant and/ or Materials has been suspended for more than 30 days, and
- b) the Contractor has marked the Plant and/or Materials as the Procuring Entity's property inaccordance with the Architect instructions.

## 8.11 Prolonged Suspension

If the suspension under Sub-Clause 8.8 [Suspension of Work] has continued for more than 84 days, the Contractor may request the Architect permission to proceed. If the Architect does not give permission within 30 days after being requested to do so, the Contractor may, by giving notice to the Engineer, treat the suspension as an omission under Clause 13 [Variations and Adjustments] of the affected part of the Works. If the suspension affects the whole of the Works, the Contractor may give notice of termination under Sub-Clause 16.2 [Termination by Contractor].

## 8.12 Resumption of Work

After the permission or instruction to proceed is given, the Contractor and the Architect shall jointly examine the Works and the Plant and Materials affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works or Plant or Materials, which has occurred during the suspension after receiving from the Architect an instruction to this effect under Clause 13 [Variations and Adjustments].

## 9. TESTS ON COMPLETION

### 9.1 Contractor's Obligations

- 9.1.1 The Contractor shall carry out the Tests on Completion in accordance with this Clause and Sub-Clause 7.4 [Testing], after providing the documents in accordance with sub-paragraph (d) of Sub-Clause 4.1 [Contractor's General Obligations].
- 9.1.2 The Contractor shall give to the Architect not less than 21 days' notice of the date after which the Contractor will be ready to carry out each of the Tests on Completion. Unless otherwise agreed, Tests on Completion shall be carried out within 14 days after this date, on such day or days as the Architect shall instruct.
- 9.1.3 In considering the results of the Tests on Completion, the Architect shall make allowances for the effect of any use of the Works by the Procuring Entity on the performance or other characteristics of the Works. Assoon as the Works, or a Section, have passed any Tests on Completion, the Contractor shall submit a certified report of the results of these Tests to the Engineer.

## 9.2 Delayed Tests

- 92.1 If the Tests on Completion are being unduly delayed by the Procuring Entity, Sub-Clause 7.4 [Testing] (fifth paragraph) and/ or Sub-Clause 10.3 [Interference with Tests on Completion] shall be applicable.
- 9.2.2 If the Tests on Completion are being unduly delayed by the Contractor, the Architect may by notice require the Contractor to carry out the Tests within 21 days after receiving the notice. The Contractor shall carry out the Tests on such day or days within that period as the Contractor may fix and of which he shall givenotice to the Engineer.
- 923 If the Contractor fails to carry out the Tests on Completion within the period of 21 days, the Procuring Entity's Personnel may proceed with the Test sat the risk and cost of the Contractor. The Tests on Completion shall then be deemed to have been carried out in the presence of the Contractor and the results of the Tests shall be accepted as accurate.

# 9.3 Retesting of related works

If the Works, or a Section, fail to pass the Tests on Completion, Sub-Clause 7.5 [Rejection] shall apply, and the Architect or the Contractor may require the failed Tests, and Tests on Completion on any related work, to be repeated under the same terms and conditions.

# 9.4 Failure to Pass Tests on Completion

- 9.4.1 If the Works, or a Section, fail to pass the Tests on Completion repeated under Sub-Clause 9.3 [Retesting], the Architect shall be entitled to:
  - a) Order further repetition of Tests on Completion under Sub-Clause 9.3; or
  - b) if the failure deprives the Procuring Entity of substantially the whole benefit of the Works or Section, reject the Works or Section (as the case may be), in which event the Procuring Entity shall have the same remedies as are provided in sub-paragraph (c) of Sub-Clause1 1.4 [Failure to Remedy Defects].

# **10. PROCURING ENTITY'S TAKING OVER**

### 10.1 Taking Over of the Works and Sections

- 10.1.1 Except as stated in Sub-Clause 9.4 [Failure to Pass Tests on Completion], the Works shall be taken over by the Procuring Entity when (i) the Works have been completed in accordance with the Contract, including the matters described in Sub-Clause 8.2 [Time for Completion] and except as allowed in sub-paragraph (a)below, and (ii) a Taking-Over Certificate for the Works has been issued, or is deemed to have been issued in accordance with this Sub-Clause.
- 10.1.2 The Contractor may apply by notice to the Architect for a Taking-Over Certificate not earlier than 14 days before the Works will, in the Contractor's opinion, be complete and ready for taking over. If the Works are divided into Sections, the Contract or may similarly apply for a Taking-Over Certificate for each Section.
- 10.1.3 The Architect shall, within 30 days after receiving the Contractor's application:
  - a) Issue the Taking-Over Certificate to the Contract or, stating the date on which the Works or Sectionwere completed in accordance with the Contract, except for any minor outstanding work and defects which will not substantially affect the use of the Works or Section for their intended purpose (either until or whilst this work is completed and these defects are remedied); or
  - b) reject the application, giving reasons and specifying the work required to be done by the Contractorto enable the Taking-Over Certificate to be issued. The Contractor shall then complete this work before issuing a further notice under this Sub-Clause.
- 10.1.4 If the Architect fails either to issue the Taking-Over Certificate or to reject the Contractor's application within the period of 30 days, and if the Works or Section (as the case may be) are substantially in accordance with the Contract, the Taking-Over Certificate shall be deemed to have been issued on thel ast day of that period.

## 10.2 Taking Over of Parts of the Works

- 10.2.1 The Architect may, at the sole discretion of the Procuring Entity, issue a Taking-Over Certificate for anypart of the Permanent Works.
- 10.2.2 The Procuring Entity shall not use any part of the Works (other than as a temporary measure which is either specified in the Contract or agreed by both Parties) unless and until the Architect has issued a Taking-Over Certificate for this part. However, if the Procuring Entity does use any part of the Works before the Taking- Over Certificate is issued:
  - a) The part which is used shall be deemed to have been taken over as from the date on which it is used,
  - b) the Contractor shall cease to be liable for the care of such part as from this date, when responsibility shall pass to the Procuring Entity, and
  - c) if requested by the Contractor, the Architect shall issue a Taking-Over Certificate for this part.
- 102.3 After the Architect has issued a Taking-Over Certificate for a part of the Works, the Contractor shall be given the earliest opportunity to take such steps as may be necessary to carry out any outstanding Tests on Completion. The Contractor shall carry out these Tests on Completion as soon as practicable before the expiry date of the relevant Defects Notification Period.
- 102.4 If the Contractor incurs Cost as a result of the Procuring Entity taking over and/or using a part of the Works, other than such use as is specified in the Contractor agreed by the

Contractor, the Contractor shall (i) givenotice to the Architect and (ii) be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to payment of any such accrued costs, which shall be included in the Contract Price. After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this accrued cost.

10.25 If a Taking-Over Certificate has been issued for a part of the Works (other than a Section), the delay damages there after for completion of the remainder of the Works shall be reduced. Similarly, the delay damages for the remainder of the Section (if any) in which this part is included shall also be reduced. For any period of delay after the date stated in this Taking-Over Certificate, the proportional reduction in these delay damages shall be calculated as the proportion which the value of the part so certified bears to the value of the Worksor Section (as the case may be) as a whole. The Architect shall proceed in accordance with Sub-Clause 3.5[Determinations] to agree or determine these proportions. The provisions of this paragraph shall only apply to the daily rate of delay damages under Sub-Clause 8.7 [Delay Damages] and shall not affect the maximum amount of these damages.

### **10.3** Interference with Tests on Completion

- 10.3.1 If the Contractor is prevented, for more than 14 days, from carrying out the Tests on Completion by a cause for which the Procuring Entity is responsible, the Procuring Entity shall be deemed to have taken over the Works or Section (as the case may be) on the date when the Tests on Completion would otherwise have been completed.
- 10.32 The Architect shall then issue a Taking-Over Certificate accordingly, and the Contractor shall carry out the Tests on Completion as soon as practicable, before the expiry date of the Defects Notification Period. The Architect shall require the Tests on Completion to be carried out by giving 14 days' notice and in accordance with the relevant provisions of the Contract.
- 10.3.3 If the Contractor suffers delay and/or incurs Cost as a result of this delay in carrying out the Tests onCompletion, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause
  - 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4[Extension of Time for Completion], and
  - b) payment of any such accrued costs, which shall be included in the Contract Price.
- 10.3.4 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

#### 10.4 Surfaces Requiring Reinstatement

Except as otherwise stated in a Taking-Over Certificate, a certificate for a Section or part of the Worksshall not be deemed to certify completion of any ground or other

surfaces requiring reinstatement.

## **1. DEFECTS LIABILITY**

### 11.1 Completion of Outstanding Work and Remedying Defects

- 11.1.1 In order that the Works and Contractor's Documents, and each Section, shall be in the condition required by the Contract (fair wear and tear excepted) by the expiry date of the relevant Defects Notification Periodor as soon as practicable thereafter, the Contractor shall:
  - a) complete any work which is outstanding on the date stated in a Taking-Over Certificate, within such reasonable time as is instructed by the Engineer, and
  - b) execute all work required to remedy defects or damage, as may be notified by (or on behalf of) the Procuring Entity on or before the expiry date of the Defects Notification Period for the Works or Section (as the case may be).
- 11.1.2 If a defect appears or damage occurs, the Contractor shall be notified accordingly by the Engineer.

## 11.2 Cost of Remedying Defects

- 1121 All work referred to in sub-paragraph (b) of Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects] shall be executed at the risk and cost of the Contractor, if and to the extent that the work is attributable to:
  - a) Any design for which the Contractor is responsible,
  - b) Plant, Materials or workmanship not being in accordance with the Contract, or
  - c) Failure by the Contractor to comply with any other obligation.
- <sup>1122</sup> If and to the extent that such work is attributable to any other cause, the Contractor shall be notified promptly by (or on behalf of) the Procuring Entity, and Sub-Clause 13.3 [Variation Procedure] shall apply.

#### 11.3 Extension of Defects Notification Period

- 113.1 The Procuring Entity shall be entitled subject to Sub-Clause 2.5 [Procuring Entity's Claims] to an extension of the Defects Notification Period for the Works or a Section if and to the extent that the Works, Section or a major item of Plant (as the case may be, and after taking over) cannot be used for the purposes for which they are intended by reason of a defect or by reason of damage attributable to the Contractor. However, aDefects Notification Period shall not be extended by more than two years.
- 11.32 If delivery and/ or erection of Plant and/ or Materials was suspended under Sub-Clause 8.8 [Suspension of Work] or Sub-Clause 16.1 [Contractor's Entitlement to Suspend Work], the Contractor's obligations under this Clause shall not apply to any defects or damage occurring more than two years after the Defects Notification Period for the Plant and/ or Materials would otherwise have expired.

#### 11.4 Failure to Remedy Defects

114.1 If the Contractor fails to remedy any defect or damage within a reasonable time, a date may be fixed by the Engineer, on or by which the defect or damage is to be remedied. The Contractor shall be given reasonable notice of this date.

- 11.42 If the Contractor fails to remedy the defect or damage by this notified date and this remedial work was tobe executed at the cost of the Contractor under Sub-Clause 11.2[ Costo f Remedying Defects], the Procuring Entity may (at his option):
  - (a) Carry out the work itself or by others, in a reasonable manner and at the Contractor's cost, but theContractor shall have no responsibility for this work; and the Contractor shall subject to Sub-Clause
     2.5 [Procuring Entity's Claims] pay to the Procuring Entity the costs reasonably incurred by theProcuring Entity in remedying the defect or damage;
  - (b) Require the Architect to agree or determine a reasonable reduction in the Contract Price in accordance with Sub-Clause 3.5 [Determinations]; or
  - (c) if the defect or damage deprives the Procuring Entity of substantially the whole benefit of the Worksor any major part of the Works, terminate the Contract as a whole, or in respect of such major partwhich cannot be put to the intended use. Without prejudice to any other rights, under the Contractorotherwise, the Procuring Entity shall then be entitled to recover all sums paid for the Works or forsuch part (as the case may be), plus financing costs and the cost of dismantling the same, clearing the Site and returning Plant and Materials to the Contractor.

## **11.5** Removal of Defective Work

If the defector damage cannot be remedied expeditiously on the Site and the Procuring Entity gives consent, the Contractor may remove from the Site for the purposes of repair such items of Plant as are defective ordamaged. This consent may require the Contractor to increase the amount of the Performance Security by the full replacement cost of these items, or to provide other appropriate security.

## 11.6 **Further Tests**

- 11.61 If the work of remedying of any defector damage may affect the performance of the Works, the Architect may require the repetition of any of the tests described in the Contract. The requirement shall be made bynotice within 14 days after the defect or damage is remedied.
- 11.62 These tests shall be carried out in accordance with the terms applicable to the previous tests, except that they shall be carried out at the risk and cost of the Party liable, under Sub-Clause 11.2 [Cost of Remedying Defects], for the cost of the remedial work.

## 11.7 Right of Access

Until the Completion Certificate has been issued, the Contractor shall have such right of access to the Works as is reasonably required in order to comply with this Clause, except as may be inconsistent with the Procuring Entity's reasonable security restrictions.

## 118 Contractor to Search

The Contractor shall, if required by the Engineer, search for the cause of any defect on parts of the worksthat have already accepted, under the direction of the Engineer. Unless the defect is to be remedied at the cost of the Contractor under Sub-Clause 11.2 [Cost of Remedying Defects], the Cost of the search plus profit shall be agreed or determined by the Architect in accordance with Sub-Clause 3.5 [Determinations] and shall be included

in the Contract Price.

## **11.9 Completion** Certificate

- 119.1 Performance of the Contractor's obligations shall not be considered to have been completed until the Architect has issued the Completion Certificate to the Contractor, stating the date on which the Contractor completed his obligations under the Contract.
- 1192 The Architect shall issue the Completion Certificate within 30days after the latest of the expiry dates of the Defects Liability Period, or as soon thereafter as the Contractor has supplied all the Contractor's Documents and completed and tested all the Works, including remedying any defects. A copy of the Completion Certificate shall be issued to the Procuring Entity.
- 1193 Only the Completion Certificate shall be deemed to constitute acceptance of the Works.

## 11.10 Unfulfilled Obligations

After the Completion Certificate has been issued, each Party shall remain liable for the fulfilment of anyobligation which remains unperformed at that time. For the purposes of determining the nature and extent of unperformed obligations, the Contract shall be deemed to remain in force.

### 11.11 Clearance of Site

- 11.11.1 Upon receiving the Completion Certificate, the Contractor shall remove any remaining Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works from the Site.
- 11.11.2 If all these items have not been removed within 30 days after receipt by the Contractor of the CompletionCertificate, the Procuring Entity may sell or otherwise dispose of any remaining items. The Procuring Entity shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the Site.
- 11.11.3 Any balance of the moneys from the sale shall be paid to the Contractor. If these moneys are less than the Procuring Entity's costs, the Contractor shall pay the outstanding balance to the Procuring Entity.

# 12 MEASUREMENT AN DEVALUATION

## 12.1 Works to be Measured

 12.1.1 The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractorshall show in each application under Sub-Clauses 14.3 [Application for Interim Payment Certificates],
 14.10 [Statement on Completion] and 14.11 [Application for Final Payment Certificate] the

14.10 [Statement on Completion] and 14.11 [Application for Final Payment Certificate] the quantities and other particulars detailing the amounts which he considers to be entitled under the Contract.

- 12.1.2 Whenever the Architect requires any part of the Works to be measured, reasonable notice shall be given to the Contractor's Representative, who shall:
  - a) promptly either attend or send another qualified representative to assist the Architect in making themeasurement, and

- b) supply any particulars requested by the Engineer.
- 12.1.3 If the Contractor fails to attend or send a representative, the measurement made by the Architect shall beaccepted as accurate.
- 12.1.4 Except as otherwise stated in the Contract, wherever any Permanent Works are to be measured from records, these shall be prepared by the Engineer. The Contractor shall, as and when requested, attend to examine and agree the records with the Engineer, and shall sign the same when agreed. If the Contractor of attend, the records shall be accepted as accurate.
- 12.1.5 If the Contractor examines and disagrees the records, and/ or does not sign them as agreed, then the Contractor shall give notice to the Architect of the respects in which the records are asserted to be inaccurate. After receiving this notice, the Architect shall review the records and either confirm or varythem and certify the payment of the undisputed part. If the Contractor does not so give notice to the Architect within 14 days after being requested to examine the records, they shall be accepted as accurate.

## 12.2 Method of Measurement

Except as otherwise stated in the Contract:

- a) Measurement shall be made of the net actual quantity of each item of the Permanent Works, and
- b) the method of measurement shall be in accordance with the Bill of Quantities or other applicableSchedules.

### 12.3 Evaluation

- 12.3.1 Except as otherwise stated in the Contract, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of work done by evaluating each item of work, applying the measurement agreed or determined in accordance with the above Sub-Clauses 12.1 and 12.2 and the appropriate rate or price for the item.
- 12.3.2 For each item of work, the appropriate rate or price for the item shall be the rate or price specified for suchitem in the Contractor, if there is no such item, specified for similar work.
- 12.3.3 Any item of work included in the Bill of Quantities for which no rate or price was specified shall be considered as included in other rates and prices in the Bill of Quantities and will not be paid for separately.
- 12.3.4 However, for a new item of work, a new rate or price shall be appropriate for such item of work if:
  - a) The work is instructed under Clause13 [Variations and Adjustments],
  - b) no rate or price is specified in the Contract for this item, and
  - c) no specified rate or price is appropriate because the item of work is not of similar character, or is notexecuted under similar conditions, as any item in the Contract.
- 12.3.5 Each new rate or price shall be derived from any relevant rates or prices in the Contract. If no rates or prices are relevant for the new item of work, it shall be derived from the reasonable Cost of executing such work, prevailing market rates, together with profit, taking account of any other relevant matters.
- 12.3.6 Until such time as an appropriate rate or price is agreed or determined, the Architect

shall determine a provisional rate or price for the purposes of Interim Payment Certificates as soon as the concerned work commences.

12.3.7 Where the contract price is different from the corrected tender price, in order to ensure the contractor is notpaid less or more relative to the contract price (*which would be the tender price*), payment valuation certificates and variation orders on omissions and additions valued based on rates in the Bill of Quantitiesor schedule of rates in the Tender, will be adjusted by a <u>plus or minus</u> percentage. The percentage already worked out during tender evaluation is worked out as follows: (*corrected tender price–tender price)/tender price X 100*.

## 12.4 Omissions

Whenever the omission of any work forms part (or all) of a Variation, the value of which has not been agreed, if:

- a) The Contractor will incur (or has incurred) cost which, if the work had not been omitted, wouldhave been deemed to be covered by a sum forming part of the Accepted Contract Amount;
- b) The omission of the work will result (or has resulted) in this sum not forming part of the Contract Price; and
- c) this cost is not deemed to be included in the evaluation of any substituted work; then the Contractor shall give notice to the Architect accordingly, with supporting particulars. Upon receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this cost, which shall be included in the Contract Price.

### **13. VARIATIONS AND ADJUSTMENTS**

### 13.1 Right to Vary

- 13.1.1 Variations may be initiated by the Architect at any time prior to issuing the Taking-Over Certificate for the Works, either by an instruction or by a request for the Contractor to submit a proposal. No Variation instructed by the Architect under this Clause shall in any way vitiate or in validate the Contract.
- 13.1.2 The Contractor shall execute and be bound by each Variation, unless the Contractor promptly gives notice to the Architect stating (with supporting particulars) that (i) the Contractor cannot readily obtain the Goodsrequired for the Variation, or (ii) such Variation triggers a substantial change in the sequence or progress of the Works. Upon receiving this notice, the Architect shall cancel, confirm or vary the instruction.
- 13.1.3 Each Variation may include:
  - a) changes to the quantities of any item of work included in the Contract (however, such changes donot necessarily constitute a Variation),
  - b) changes to the quality and other characteristics of any item of work,
  - c) changes to the levels, positions and/ or dimensions of any part of the Works,
  - d) omission of any work unless it is to be carried out by others,
  - e) any additional work, Plant, Materials or services necessary for the Permanent Works, including any associated Tests on Completion, boreholes and other testing and exploratory work, or changes to the sequence or timing of the execution of the Works.

13.1.4 The Contractor shall not make any alteration and/or modification of the Permanent

Works, unless and until the Architect instructs after obtaining approval of the Procuring Entity.

## **132.** Variation Order Procedure

- 132.1 Prior to any Variation Order under Sub-Clause 13.1.4 the Architect shall notify the Contractor of the nature and form of such variation. As soon as possible after having received such notice, the Contractor shall submit to the Engineer:
  - a) A description of work, if any, to be performed and a programme for its execution, and
  - b) the Contractor's proposals for any necessary modifications to the Programme according to Sub-Clause 8.3 or to any of the Contractor's obligations under the Contract, and
  - c) the Contractor's proposals for adjustment to the Contract Price.

Following the receipt of the Contractor's submission the Architect shall, after due consultation with the Employer and the Contractor, decide as soon as possible whether or not the variation shall be carried out. If the Architect decides that the variation shall be carried out, he shall issue a Variation Order clearly identified as such in accordance with the Contractor's submission or as modified by agreement.

If the Architect and the Contractor are unable to agree the adjustment of the Contract Price, the provisions of Sub-Clause 13.2.2 shall apply.

### 1322 Disagreement on Adjustment of the Contract Price

If the Contractor and the Architecture unable to agree on the adjustment of the Contract Price, the adjustment shall be determined in accordance with the rates specified in the Bills of Quantities or Scheduleof Day work Prices. If the rates contained in the Bills of Quantities or Day works Prices are not directly applicable to the specific work in question, suitable rates shall be established by the Architect reflecting the level of pricing in the Day works Prices. Where rates are not contained in the said Prices, the amount shallbe such as is in all the circumstances reasonable, reflecting a market price. Due account shall be taken of any over-or under-recovery of overheads by the Contractor in consequence of the variation. The Contractor shall also be entitled to be paid:

- a) The cost of any partial execution of the Works rendered useless by any such variation,
- b) The cost of making necessary alterations to Plant already manufactured or in the course of manufacture or of any work done that has to be altered in consequence of such a variation,
- c) any additional costs incurred by the Contractor by the disruption of the progress of the Works as detailed in the Programme, and
- d) the net effect of the Contractor's finance costs, including interest, caused by the variation.

The Architect shall on this basis determine the rates or prices to enable on-account payment to be included in certificates of payment.

### **1323** Contractor to Proceed

On receipt of a Variation Order, the Contractor shall forth with proceed to carry out the variation and bebound to these Conditions in so doing as if such variation was stated in the Contract. The work shall not be delayed pending the granting of an extension of the Time for Completion or an adjustment to the ContractPrice under Sub-Clause31.3.

### 133 Value Engineering

- 133.1 The Contractor may, at anytime, submit to the Architect written proposal which (in the Contractor's opinion) will, if adopted, (i) accelerate completion, (ii) reduce the cost to the Procuring Entity of executing, maintaining or operating the Works, (iii) improve the efficiency or value to the Procuring Entity of the completed Works, or (iv)otherwise be of benefit to the Procuring Entity.
- 13.3.2 The proposal shall be prepared at the cost of the Contractor and shall include the items listed in Sub-Clause 13.3 [Variation Procedure].
- 1323 If a proposal, which is approved by the Engineer, includes a change in the design of part of the Permanent

Works, then unless otherwise agreed by both Parties:

- a) The Contractor shall design this part,
- b) sub-paragraphs (a) to (d) of Sub-Clause 4.1 [Contractor's General Obligations] shall apply, and
- c) if this change results in a reduction in the contract value of this part, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine a fee, which shall be included in the Contract Price. This fee shall behalf (50%) of the difference between the following amounts:
  - i) such reduction in contract value, resulting from the change, excluding adjustments under Sub-Clause
     13.8 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes inCost], and
  - ii) the reduction (if any) in the value to the Procuring Entity of the varied works, taking account of any improvement in quality, anticipated life or operational efficiencies.
- 13.3.4 However, if the amount established in item 13.2.3 (c) (i) is less than amount established in item 13.2.3 (c(ii), there shall not be a fee. However, if the amount established in item 13.2.3 (c) (i) is more than amount established in item 13.2.3 (c (ii), it shall result in a price variation to the Procuring Entity.

### 134 Variation Procedure for Value Engineering proposal

- 134.1 If the Architect requests a proposal, prior to instructing a Variation, the Contractor shall respond in writing as soon as practicable, either by giving reasons why he cannot comply (if this is the case) or by submitting:
  - a) A description of the proposed work to be performed and a programme for its execution,
  - b) the Contractor's proposal for any necessary modifications to the programme according to Sub-Clause 8.3 [Programme] and to the Time for Completion, and
  - c) the Contractor's proposal for evaluation of the Variation.
- 1342 The Architect shall, as soon as practicable after receiving such proposal (under Sub-Clause 13.2 [Value Project Engineering] or otherwise), respond with approval, disapproval or comments. The Contractor shall not delay any work whilst awaiting a response.
- 1343 Each instruction to execute a Variation, with any requirements for the recording of Costs, shall be issued by the Architect to the Contractor, who shall acknowledge receipt.
- 13.4.4 Each Variation shall be evaluated in accordance with Clause 12 [Measurement and Evaluation], unless the Architect instructs or approves otherwise in accordance with this Clause.

#### 135 Payment in Applicable Currencies

If the Contract provides for payment of the Contract Price in more than one currency, then whenever an adjustment is agreed, approved or determined as stated above, the amount payable in each of the applicable currencies shall be specified. For this purpose, reference shall be made to the actual or expected currencyproportions of the Cost of the varied work, and to the proportions of various currencies specified for payment of the Contract Price.

#### **136 Provisional Sums**

- 13.6.1 Each Provisional Sum shall only be used, in whole or in part, in accordance with the Architect instructions, and the Contract Price shall be adjusted accordingly. The total sum paid to the Contractor shall include only such amounts, for the work, supplies or services to which the Provisional Sum relates, as the Architect shall have instructed. For each Provisional Sum, the Architect May instruct:
  - a) Work to be executed (including Plant, Materials or services to be supplied) by the Contractor and valued under Sub-Clause 13.3 [Variation Procedure]; and/or
  - b) Plant, Materials or services to be purchased by the Contractor, from a nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]) or otherwise; and for which there shall be included in the Contract Price:
    - i) The actual amounts paid (or due to be paid) by the Contractor, and
    - ii) a sum for overhead charges and profit, calculated as a percentage of these actual amounts by applying the relevant percentage rate (if any) stated in the appropriate Schedule. If there is no such rate, the percentage rate stated in **the Special Conditions of Contract** shall be applied.
- 13.6.2 The Contractor shall, when required by the Engineer, produce quotations, invoices, vouchers and accounts or receipts in substantiation.

#### 13.7 Dayworks

- 13.7.1 For work of a minor or incidental nature, the Architect may instruct that a Variation shall be executed on a daywork basis. The work shall then be valued in accordance with the Daywork Schedule included in the Contract, and the following procedure shall apply. If a Daywork Schedule is not included in the Contract, this Sub-Clause shall not apply.
- 13.7.2 Before ordering Goods for the work, the Contractor shall submit quotations to the Engineer. When applying for payment, the Contractor shall submit invoices, vouchers and accounts or receipts for any Goods.
- 13.7.3 Except for any items for which the Daywork Schedule specifies that payment is not due, the Contractor shall delive reach day to the Architect accurate statements induplicate which shall include the following details of the resources used in executing the previous day's work:
  - a) The names, occupations and time of Contractor's Personnel,
  - b) the identification, type and time of Contractor's Equipment and Temporary Works, and
  - c) the quantities and types of Plant and Materials used.
- 13.74 One copy of each statement will, if correct, or when agreed, be signed by the Architect and returned to the Contractor. The Contractor shall then submit priced statements of

these resources to the Engineer, prior totheir inclusion in the next Statement under Sub-Clause 14.3 [Application for Interim Payment Certificates].

### 138 Adjustments for Changes in Legislation

- 138.1 The Contract Price shall be adjusted to take account of any increase or decrease in Cost resulting from a change in the Laws of Kenya (including the introduction of new Laws and the repeal or modification of existing Laws) or in the judicial or official governmental interpretation of such Laws, made after the BaseDate, which affect the Contractor in the performance of obligations under the Contract.
- 13.82 If the Contractor suffers (or will suffer) delay and/or incurs (or will incur) additional Cost as a result of these changes in the Laws or in such interpretations, made after the Base Date, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) payment of any such Cost, which shall be included in the Contract Price.
- 13.83 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 1384 Notwithstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the table of adjustment data in accordance with the provisions of Sub-Clause 13.8[Adjustments for Changes in Cost].

#### 139 Adjustments for Changes in Cost

- 139.1 In this Sub-Clause, "table of adjustment data" means the completed table of adjustment data for local andforeign currencies included in the Schedules. If there is no such table of adjustment data, this Sub-Clauseshall not apply.
- 13.9.2 If this Sub-Clause applies, the amounts payable to the Contractor shall be adjusted for rises or falls in the cost of labor, Goods and other inputs to the Works, by the addition or deduction of the amounts determined by the formulae prescribed in this Sub-Clause. To the extent that full compensation for any rise or fall in Costs is not covered by the provisions of this or other Clauses, the Accepted Contract Amount shall be deemed to have included a mounts to cover the contingency of other rises and falls in costs.
- 13.9.3 The adjustment to be applied to the amount otherwise payable to the Contractor, as valued in accordance with the appropriate Schedule and certified in Payment Certificates, shall be determined from formulae foreach of the currencies in which the Contract Price is payable. No adjustment is to be applied to work valued on the basis of Cost or current prices. The formulae shall be of the following general type:

#### **Price Adjustment Formula**

Prices shall be adjusted for fluctuations in the cost of inputs only if **provided for in the SCC.** If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due in each currency. A separate formula of the type specified below applies:

#### $\mathbf{P} = \mathbf{A} + \mathbf{B} \mathbf{Im}/\mathbf{Io}$

where:

**P** is the adjustment factor for the portion of the Contract Price payable.

- A and **B** a recoefficients **specified in the SCC**, representing then on adjustable and adjustable portions, respectively, of the Contract Price payable and
- **I m** is the index prevailing at the end of the month being invoiced and **Io**c is the index prevailing 30 days before Bid opening for inputs payable.
- **NOTE:** The sum of the two coefficients A and B should be 1 (one) in the formula for each currency. Normally, both coefficients shall be the same in the formulae for all currencies, since coefficient A, for the non adjustable portion of the payments, is a very approximate figure (usually 0.15) to take account of fixed cost elements or other nonadjustable components. The sum of the adjustments for each currency are added to the Contract Price.
- 139.4 The cost indices or reference prices stated in the table of adjustment data shall be used. If their source is indoubt, it shall be determined by the Engineer. Forth is purpose, reference shall be made to the values of the indices at stated dates (quoted in the fourth and fifth columns respectively of the table) for the purposes of clarification of the source; although these dates (and thus these values) may not correspond to the base costindices.
- 139.5 In cases where the "currency of index" is not the relevant currency of payment, each index shall be converted into the relevant currency of payment at the selling rate, established by the Central Bank of Kenya, of this relevant currency on the above date for which the index is required to be applicable.
- 139.6 Until such time as each current cost index is available, the Architect shall determine a provisional index for the issue of Interim Payment Certificates. When a current cost index is available, the adjustment shallbe recalculated accordingly.
- 139.7 If the Contractor fails to complete the Works within the Time for Completion, adjustment of prices there after shall be made using either (i) each index or price applicable on the date 49 days prior to the expiry of the Time for Completion of the Works, or (ii) the current index or price, whichever is more favorable to the Procuring Entity.
- 139.8 The weightings (coefficients) for each of the factors of cost stated in the table(s) of adjustment data shall only be adjusted if they have been rendered unreasonable, unbalanced or in applicable, as a result of Variations.

### **14 CONTRACT PRICE AND PAYMENT**

### **14.1** The Contract Price

- 14.1.1 Unless otherwise stated in the Special Conditions:
  - a) The value of the payment certificate shall be agreed or determined under Sub-Clause 12.3 [Evaluation] and be subject to adjustments in accordance with the Contract;

- b) the Contractor shall pay all taxes, duties and fees required to be paid by him under the Contract, and the Contract Price shall not be adjusted for any of these costs except as stated in Sub-Clause 13.7 [Adjustments for Changes in Legislation];
- c) any quantities which may be set out in the Bill of Quantities or other Schedule are estimated quantities and are not to be taken as the actual and correct quantities:
  - i) of the Works which the Contractor is required to execute, or
  - ii) for the purposes of Clause12 [Measurement and Evaluation]; and
- d) the Contractor shall submit to the Engineer, within 30 days after the Commencement Date, a proposed breakdown of each lump sum price in the Schedules. The Architect may take account of the break down when preparing Payment Certificates but shall not be bound by it.
- 14.1.2 Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts there for, imported by the Contractor for the sole purpose of executing the Contract shall not be exempt from the payment of import duties and taxes upon importation.

#### 14.2 Advance Payment

- **14.2.1** The Procuring Entity shall make an advance payment, as an interest-free loan for mobilization and cashflow support, when the Contractor submits a guarantee in accordance with this Clause. The total advance payment, the number and timing of installments (if more than one), and the applicable currencies and proportions, shall be as stated in the **Special Conditions of Contract.**
- 14.22 Unless and until the Procuring Entity receives this guarantee, or if the total advance payment is not stated in the Special Conditions of Contract, this Sub-Clause shall not apply.
- 14.2.3 The Architect shall deliver to the Procuring Entity and to the Contractor an Interim Payment Certificate for the advance payment or its first installment after receiving a Statement (under Sub-Clause 14.3 [Application for Interim Payment Certificates]) and after the Procuring Entity receives (i) the PerformanceSecurity in accordance with Sub-Clause 4.2 [Performance Security] and (ii) a guarantee in amounts and currencies equal to the advance payment. This guarantee shall be issued by a reputable bank or financial institutions elected by the Contractor and shall be in the form annexed to the Special Conditions or in another form approved by the Procuring Entity.
- 14.24 The Contractor shall ensure that the guarantee is valid and enforceable until the advance payment has been repaid, but its amount shall be progressively reduced by the amount repaid by the Contractor as indicated in the Payment Certificates. If the terms of the guarantee specify its expiry date, and the advance paymenthas not been repaid by the date 30 days prior to the expiry date, the Contractor shall extend the validity of the guarantee until the advance payment has been repaid.
- 14.25 Unless stated otherwise in **the Special Conditions of Contract**, the advance payment shall be repaid through percentage deductions from the interim payments determined by the Architect in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates], as follows:
  - a) Deductions shall commence in the next interim Payment Certificate following that in which the total of all certified interim payments (excluding the advance payment

and deductions and repayments of retention) exceeds 30 percent (30%) of the Accepted Contract Amount less Provisional Sums; and

- b) deductions shall be made at the amortization rate stated in the **Special Conditions of Contract** of the amount of each Interim Payment Certificate (excluding the advance payment and deductions for its repayments as well as deductions for retention money) in the currencies and proportions of the advance payment until such time as the advance payment has been repaid; provided that the advancepayment shall be completely repaid prior to the time when 90 percent (90%) of the Accepted Contract Amount less Provisional Sums has been certified for payment.
- 14.2.6 If the advance payment has not been repaid prior to the issue of the Taking-Over Certificate for the Works or prior to termination under Clause 15 [Termination by Procuring Entity], Clause 16 [Suspension and Termination by Contractor] or Clause 19 [Force Majeure] (as the case may be), the whole of the balance then outstanding shall immediately become due and in case of termination under Clause 15 [Terminationby Procuring Entity], except for Sub-Clause 14.2.7 [Procuring Entity's Entitlement to Termination for Convenience], payable by the Contractor to the Procuring Entity.

### 14.3 Application for Interim Payment Certificates

- 14.3.1 The Contractor shall submit a Statement (in number of copies indicated in the **Special Conditions of Contract**) to the Architect after the end of each month, in a form approved by the Engineer, showing in detail the amounts to which the Contractor considers itself to be entitled, together with supporting documents which shall include the report on the progress during this month in accordance with Sub- Clause4.21 [Progress Reports].
- 14.3.2 The Statement shall include the following items, as applicable, which shall be expressed in the various currencies in which the Contract Price is payable, in the sequence listed:
  - a) the estimated contract value of the Works executed and the Contractor's Documents produced up to the end of the month (including Variations but excluding items described in sub-paragraphs (b) to (g) below);
  - b) any amounts to be added and deducted for changes in legislation and changes in cost, in accordance with Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost];
  - c) any amount to be deducted for retention, calculated by applying the percentage of retention stated in **the Special Conditions of Contract** to the total of the above amounts, until the amount so retained by the Procuring Entity reaches the limit of Retention Money (if any) stated **in the Special Conditions of Contract**;
  - any amounts to be added for the advance payment and (if more than one installment) and to be deducted for its repayments in accordance with Sub-Clause 14.2 [Advance Payment];
  - e) any amounts to be added and deducted for Plant and Materials in accordance with Sub-Clause 14.5[Plant and Materials intended for the Works];
  - f) any other additions or deductions which may have become due under the Contractor otherwise, including those under Clause 20 [Claims, Disputes and Arbitration]; and
  - g) the deduction of amounts certified in all previous Payment Certificates.

# 14.4 Schedule of Payments

- 14.4.1 If the Contract includes a schedule of payments specifying the installments in which the Contract Price will be paid, then unless otherwise stated in this schedule:
  - a) The installments quoted in this schedule of payments shall be the estimated contract values for the purposes of sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates];
  - b) Sub-Clause 14.5 [Plant and Materials intended for the Works] shall not apply; and
  - c) If these installments are not defined by reference to the actual progress achieved in executing the Works, and if actual progress is found to be less or more than that on which this schedule of payments was based, then the Architect may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine revised installments, which shall take account of the extent to which progress is less or more than that on which the installments were previously based.
- 14.42 If the Contract does not include a schedule of payments, the Contractor shall submit nonbinding estimates of the payments which he expects to become due during each quarterly period. The first estimate shall be submitted within 42 days after the Commencement Date. Revised estimates shall be submitted at quarterly intervals, until the Taking-Over Certificate has been issued for the Works.

## 14.5 Plant and Materials intended for the Works

- 14.5.1 If this Sub-Clause applies, Interim Payment Certificates shall include, under subparagraph (e) of Sub- Clause 14.3, (i) an amount for Plant and Materials which have been sent to the Site for incorporation in the Permanent Works, and (ii) a reduction when the contract value of such Plant and Materials is included aspart of the Permanent Works under sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates].
- 14.5.2 If the lists referred to in sub-paragraphs (b)(i) or (c)(i) below are not included in the Schedules, this Sub-Clause shall not apply.
- 14.5.3 The Architect shall determine and certify each addition if the following conditions are satisfied:
  - a) The Contractor has:
    - i) kept satisfactory records (including the orders, receipts, Costs and use of Plant and Materials) which are available for inspection, and
    - (ii) submitted statement of the Cost of acquiring and delivering the Plant and Materials to theSite, supported by satisfactory evidence;

and either:

- b) the relevant Plant and Materials:
  - i) are those listed in the Schedules for payment when shipped,
  - ii) have been shipped to Kenya, enroute to the Site, in accordance with the Contract; and
  - iii) are described in a clean shipped bill of lading or other evidence of shipment, which has been submitted to the Architect together with evidence of payment of freight and insurance, any other documents reasonably required, and a bank guarantee in a form and issued by an entity approved by the Procuring Entity in amounts and currencies equal to the amount due under this Sub-Clause: this guarantee may be in a similar form to the form referred to in Sub-Clause14.2 [Advance Payment] and shall be valid until the Plant and Materials are properly stored on Site and protected against loss, damage or deterioration; or
- c) the relevant Plant and Materials:
  - i) are those listed in the Schedules for payment when delivered to the Site, and

- ii) have been delivered to and are properly stored on the Site, are protected against loss, damageor deterioration and appear to be in accordance with the Contract.
- 14.5.4 The additional amount to be certified shall be the equivalent of eighty percent (80%) of the Architect determination of the cost of the Plant and Materials (including delivery to Site), taking account of the documents mentioned in this Sub-Clause and of the contract value of the Plant and Materials.
- 14.55 The currencies for this additional amount shall be the same as those in which payment will become due when the contract value is included under sub-paragraph (a) of Sub-Clause 14.3 [Application for InterimPayment Certificates]. At that time, the Payment Certificate shall include the applicable reduction which shall be equivalent to, and in the same currencies and proportions as, this additional amount for the relevant Plant and Materials.

## 14.6 Issue of Interim Payment Certificates

- 14.6.1 No amount will be certified or paid until the Procuring Entity has received and approved the PerformanceSecurity. Thereafter, the Architect shall, within 30 days after receiving a Statement and supporting documents, deliver to the Procuring Entity and to the Contractor an Interim Payment Certificate which shall state the amount which the Architect fairly determines to be due, with all supporting particulars for any reduction or withholding made by the Architect on the Statement if any.
- 14.62 However, prior to issuing the Taking-Over Certificate for the Works, the Architect shall not be bound to issue an Interim Payment Certificate in an amount which would (after retention and other deductions) beless than the minimum amount of Interim Payment Certificates (if any) stated **in the Special Conditions of Contract**. In this event, the Architect shall give notice to the Contractor accordingly.
- 14.63 An Interim Payment Certificate shall not be withheld for any other reason, although:
  - a) if anything supplied or work done by the Contractor is not in accordance with the Contract, the costof rectification or replacement may be withheld until rectification or replacement has been completed; and/or
  - b) if the Contractor was or is failing to perform any work or obligation in accordance with the Contract, and had been so notified by the Engineer, the value of this work or obligation may be withheld until the work or obligation has been performed.
- 4.6.4 The Architect may in any Payment Certificate make any correction or modification that should properly bemade to any previous Payment Certificate. A Payment Certificate shall not be deemed to indicate the

Architect acceptance, approval, consent or satisfaction.

### 14.7 Payment

- 14.7.1 The Procuring Entity shall pay to the Contractor:
  - a) The advance payment shall be paid within 60 days after signing of the contract by both parties or within 60 days after receiving the documents in accordance with Sub-Clause 4.2 [Performance Security] and Sub- Clause 14.2 [Advance Payment], whichever is later;
  - b) The amount certified in each Interim Payment Certificate within 60 days after the

Architect Issues Interim Payment Certificate; and

- c) the amount certified in the Final Payment Certificate within 60 days after the Procuring Entity Issues Interim Payment Certificate; or after determination of any disputed amount shown in the Final Statement in accordance with Sub-Clause 16.2 [Termination by Contractor].
- 14.7.2 Payment of the amount due in each currency shall be made into the bank account, nominated by the Contractor, in the payment country (forth is currency) specified in the Contract.

## 14.8 Delayed Payment

- 14.8.1 If the Contractor does not receive payment in accordance with Sub-Clause 14.7 [Payment], the Contractorshall be entitled to receive financing charges (simple interest) monthly on the amount unpaid during the period of delay. This period shall be deemed to commence on the date for payment specified in Sub-Clause 14.7 [Payment], irrespective (in the case of its sub-paragraph (b) of the date on which any Interim Payment Certificate is issued.
- 14.82 These financing charges shall be calculated at the annual rate of three percentage points above the mean rate of the Central Bank in Kenya of the currency of payment, or if not available, the inter bank offered rate, and shall be paid in such currency.
- 14.83 The Contractor shall be entitled to this payment without formal notice and certification, and without prejudice to any other right or remedy.

## 14.9 Payment of Retention Money

- 14.9.1 When the Taking-Over Certificate has been issued for the Works, the first half of the Retention Money shall be certified by the Architect for payment to the Contractor. If a Taking-Over Certificate is issued for a Section or part of the Works, a proportion of the Retention Money shall be certified and paid. This proportion shall behalf (50%) of the proportion calculated by dividing the estimated contract value of the Section or part, by the estimated final Contract Price.
- 14.92 Promptly after the latest of the expiry dates of the Defects Liability Periods, the outstanding balance of the Retention Money shall be certified by the Architect for payment to the Contractor. If a Taking-Over Certificate was issued for a Section, a proportion of the second half of the Retention Money shall be certified and paid promptly after the expiry date of the Defects Notification Period for the Section. This proportion shall behalf (50%) of the proportion calculated by dividing the estimated contract value of the Section by the estimated final Contract Price.
- 14.9.3 However, if any work remains to be executed under Clause 11 [Defects Liability], the Architects hall beentitled to withhold certification of the estimated cost of this work until it has been executed.
- 14.9.4 When calculating these proportions, no account shall be taken of any adjustments under Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause13.8 [Adjustments for Changes in Cost].
- 14.9.5 Unless otherwise stated in the Special Conditions, when the Taking-Over Certificate has

been issued for the Works and the first half of the Retention Money has been certified for payment by the Engineer, the Contractor shall be entitled to substitute a Retention Money Security guarantee, in the form annexed to the Special Conditions or in another form approved by the Procuring Entity and issued by a reputable bank or financial institution selected by the Contractor, for the second half of the Retention Money.

14.9.6 The Procuring Entity shall return the Retention Money Security guarantee to the Contractor within 14 days after receiving a copy of the Completion Certificate.

### 14.10 Statement at Completion

- 14.10.1 Within 84 days after receiving the Taking-Over Certificate for the Works, the Contractor shall submit to the Architect three copies of a Statement at completion with supporting documents, in accordance with Sub- Clause 14.3 [Application for Interim Payment Certificates], showing:
  - a) the value of all work done in accordance with the Contract up to the date stated in the Taking-OverCertificate for the Works,
  - b) any further sums which the Contractor considers to be due, and
  - c) an estimate of any other amounts which the Contractor considers will become due to him under theContract. Estimated amounts shall be shown separately in this Statement at completion.
- 14.102 The Architect shall then certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates].

#### 14.11 Application for Final Payment Certificate

- 14.11.1 Within 60 days after receiving the Completion Certificate, the Contractor shall submit, to the Engineer, six copies of a draft final statement with supporting documents showing in detail in a form approved by the Engineer:
  - a) The value of all work done in accordance with the Contract, and
  - b) Any further sums which the Contractor considers to be due to him under the Contractor otherwise.
- 14.11.2 If the Architect disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Architect may reasonably require within 30 days from receipt of said draft and shall make such changes in the draft as may be agreed between them. The Contractor shall then prepare and submit to the Architect the final statement as agreed. This agreed statement is referred to in these Conditions as the "Final Statement".
- 14.11.3 However, if, following discussions between the Architect and the Contractor and any changes to the draftfinal statement which are agreed, it becomes evident that a dispute exists, the Architect shall deliver to the Procuring Entity (with a copy to the Contractor) an Interim Payment Certificate for the agreed parts of the draft final statement. Thereafter, if the dispute is finally resolved under Sub-Clause 20.4 [Obtaining Dispute Board's Decision] or Sub-Clause 20.5 [Amicable Settlement], the Contractor shall then prepare and submit to the Procuring Entity (with a copy to the Engineer) a Final Statement.

#### 14.12 Discharge

When submitting the Final Statement, the Contractor shall submit a discharge which

confirms that the total of the Final Statement represents full and final settlement of all moneys due to the Contractor under or inconnection with the Contract. This discharge may state that it becomes effective when the Contractor has received the Performance Security and the outstanding balance of this total, in which event the dischargeshall be effective on such date.

### 14.13 Issue of Final Payment Certificate

- 14.13.1 Within 30days after receiving the Final Statement and discharge in accordance with Sub-Clause 14.11 [Application for Final Payment Certificate] and Sub-Clause 14.12 [Discharge], the Architect shall deliver, to the Procuring Entity and to the Contractor, the Final Payment Certificate which shall state:
  - a) The amount which he fairly determines is finally due, and
  - b) After giving credit to the Procuring Entity for all amounts previously paid by the Procuring Entity and for all sums to which the Procuring Entity is entitled, the balance (if any) due from the ProcuringEntity to the Contractor or from the Contractor to the Procuring Entity, as the case may be.
- 14.132 If the Contractor has not applied for a Final Payment Certificate in accordance with Sub-Clause 14.11 [Application for Final Payment Certificate] and Sub-Clause 14.12 [Discharge], the Architect shall request the Contractor to do so. If the Contractor fails to submit an application within a period of 30 days, the Architect shall issue the Final Payment Certificate for such amount as he fairly determines to be due.

## 14.14 Cessation of Procuring Entity's Liability

- 14.14.1 The Procuring Entity shall not be liable to the Contractor for any matter or thing under or in connection with the Contract or execution of the Works, except to the extent that the Contractor shall have included an amount expressly for it:
  - a) in the Final Statement and also,
  - b) (except for matters or things arising after the issue of the Taking-Over Certificate for the Works) in the Statement at completion described in Sub-Clause 14.10 [Statement at Completion].
- 14.14.2 However, this Sub-Clause shall not limit the Procuring Entity's liability under his indemnification obligations, or the Procuring Entity's liability in any case of fraud, deliberate default or reckless misconduct by the Procuring Entity.

# 14.15 Currencies of Payment

The Contract Price shall be paid in the currency or currencies named in the Schedule of Payment Currencies. If more than one currency is so named, payments shall be made as follows:

- a) If the Accepted Contract Amount was expressed in Local Currency only:
  - i) the proportions or amounts of the Local and Foreign Currencies, and the fixed rates of exchangeto be used for calculating the payments, shall be as stated in the Schedule of Payment Currencies, except as otherwise agreed by both Parties;
  - ii) payments and deductions under Sub-Clause 13.5 [Provisional Sums] and Sub-Clause 13.7 [Adjustments for Changes in Legislation] shall be made in the applicable currencies and proportions; and
  - iii) other payments and deductions under sub-paragraphs (a) to (d) of Sub-Clause

14.3 [Application for Interim Payment Certificates] shall be made in the currencies and proportions specified in sub- paragraph (a) (i) above;

- b) payment of the damages specified in the Special Conditions of Contract, shall be made in the currencies and proportions specified in the Schedule of Payment Currencies;
- c) other payments to the Procuring Entity by the Contractor shall be made in the currency in which thesum was expended by the Procuring Entity, or in such currency as may be agreed by both Parties;
- d) if any amount payable by the Contractor to the Procuring Entity in a particular currency exceeds thesum payable by the Procuring Entity to the Contractor in that currency, the Procuring Entity may recover the balance of this amount from the sums otherwise payable to the Contractor in other currencies; and
- e) if no rates of exchange are stated in the Schedule of Payment Currencies, they shall be those prevailing on the Base Date and determined by the Central Bank of Kenya.

# 15. TERMINATION BY PROCURING ENTITY

#### 15.1 Notice to correct any defects or failures

If the Contractor fails to carry out any obligation under the Contract, the Architect may by noticerequire the Contractor to make good the failure and to remedy it within 30 days.

#### **15.2** Termination by Procuring Entity

- 15.2.1 The Procuring Entity shall be entitled to terminate the Contract if the Contractor breaches the contract based on following circumstances which shall include but not limited to:
  - a) fails to comply with Sub-Clause 4.2 [Performance Security] or with a notice under Sub-Clause 15.1 [Notice to Correct],
  - b) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract,

- c) without reasonable excuse fails:
  - i) to proceed with the Works in accordance with Clause 8 [Commencement, Delays andSuspension], or
  - ii) to comply with a notice issued under Sub-Clause 7.5 [Rejection] or Sub-Clause 7.6 [RemedialWork], within 30 days after receiving it,
- d) subcontracts the major part or whole of the Works or assigns the Contract without the consent of the Procuring Entity,
- e) becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events, or
- f) gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission orother thing of value, as an induce mentor reward:
- i) for doing or for bearing to do any action in relation to the Contract, or
- ii) for showing or for bearing to show favor or disfavor to any person in relation to the Contract, or
- iii) if any of the Contractor's Personnel, agents or Subcontractors gives or offers to give (directly orindirectly) to any person any such induce mentor reward as is described in this sub-paragraph (f).
   However, lawful inducements and rewards to Contractor's Personnel shall not entitle termination, or
- g) If the contract or repeatedly fails to remedy delivers defective work,
- h) based on reasonable evidence, has engaged in Fraud and Corruption as defined in paragraph 2.2 of the Appendix B to these General Conditions, in competing for or in executing the Contract.
- 15.22 In any of these events or circumstances, the Procuring Entity may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of sub- paragraph (e) or (f) or (g) or (h), the Procuring Entity may by notice terminate the Contract immediately.
- 15.2.3 The Procuring Entity's election to terminate the Contract shall not prejudice any other rights of the Procuring Entity, under the Contractor otherwise.
- 15.24 The Contractor shall then leave the Site and deliver any required Goods, all Contractor's Documents, andother design documents made by or for him, to the Engineer. However, the Contractor shall use his best efforts to comply immediately with any reasonable instructions included in the notice (i) for the assignment of any subcontract, and (ii) for the protection of life or property or for the safety of the Works.
- 15.25 After termination, the Procuring Entity may complete the Works and/ or arrange for any other entities todo so. The Procuring Entity and these entities may then use any Goods, Contractor's Documents and other design documents made by or on behalf of the Contractor.
- 15.2.6 The Procuring Entity shall then give notice that the Contractor's Equipment and Temporary Works will be released to the Contractor at or near the Site. The Contractor shall promptly arrange their removal, at therisk and cost of the Contractor. However, if by this time the Contractor has failed to make a payment due to the Procuring Entity, these

items may be sold by the Procuring Entity in order to recover this payment. Any balance of the proceeds shall then be paid to the Contractor.

### **15.3** Valuation at Date of Termination

As soon as practicable after a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of the Works, Goods and Contractor's Documents, and any other sums due to the Contractor for work executed in accordance with the Contract.

## **15.4** Payment after Termination

After a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Procuring Entity may:

- a) Proceed in accordance with Sub-Clause 2.5 [Procuring Entity's Claims],
- b) withhold further payments to the Contractor until the costs of execution, completion and remedying of any defects, damages for delay in completion (if any), and all other costs incurred by the Procuring Entity, have been established, and/ or
- c) recover from the Contractor any losses and damages incurred by the Procuring Entity and any extracosts of completing the Works, after allowing for any sum due to the Contractor under Sub-Clause

15.3 [Valuation at Date of Termination]. After recovering any such losses, damages and extra costs, the Procuring Entity shall pay any balance to the Contractor.

### 15.5 Procuring Entity's Entitlement to Termination for Convenience

The Procuring Entity shall be entitled to terminate the Contract, at any time at the Procuring Entity's convenience, by giving notice of such termination to the Contractor. The termination shall take effect 30days after the later of the dates on which the Contractor receives this notice or the Procuring Entity returns the Performance Security. The Procuring Entity shall not terminate the Contract under this Sub-Clause in order to execute the Works itself or to arrange for the Works to be executed by another contractor or to avoid a termination of the Contract by the Contractor under Clause 16.2 [Termination by Contractor]. After this termination, the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment] and shall be paid in accordance with Sub-Clause 16.4 [Payment on Termination].

### **15.6 Fraud and Corruption**

The Contractor shall ensure compliance with the Kenya Government's Anti-Corruption Laws and its prevailing sanctions.

### 15.7 Corrupt gifts and payments of commission

- 15.7.1 The Contractor shall not;
  - a) Offer or give or agree to give to any person in the service of the Procuring Entity any gift or consideration of any kind as an inducement or reward for doing or for bearing to door for having done or for borne to do any act in relation to the obtaining or execution of this or any other Contract for theProcuring Entity or for showing or

for bearing to show favor or disfavor to any person in relation to his or any other contract for the Procuring Entity.

- b) Enter into this or any other contract with the Procuring Entity 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 there of have been disclosed in writing to the Procuring Entity.
- 15.7.2 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 and Asset Disposal Act (2015) and the Anti-Corruption and Economic Crimes Act (2003) of the Laws of Kenya.

### **16 SUSPENSION AND TERMINATION BY CONTRACTOR**

### 16.1 Contractor's Entitlement to Suspend Work

- 16.1.1 If the Architect fails to certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] or Sub-Clause 14.7 [Payment], or not receiving instructions that would enable the contractor to proceed with the works in accordance with the program, the Contractor may, after giving not less than 30 days' notice to the Procuring Entity, suspend work (or reduce the rate of work) unless and until the Contractorhas received the Payment Certificate, reasonable evidence or payment, as the case may be and as described in the notice.
- 16.1.2 The Contractor's action shall not prejudice his entitlements to financing charges under Sub-Clause 14.8[Delayed Payment] and to termination under Sub-Clause 16.2 [Termination by Contractor].
- 16.1.3 If the Contractor subsequently receives such Payment Certificate, evidence or payment (as described in the relevant Sub-Clause and in the above notice) before giving a notice of termination, the Contractor shall resume normal working as soon as is reasonably practicable.
- 16.1.4 If the Contractor suffers delay and/or incurs Cost as a result of suspending work (or reducing the rate of work) in accordance with this Sub-Clause, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:

- a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- **16.2** After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5[Determinations] to agree or determine these matters.

## **16.3** Termination by Contractor

- 16.3.1 The Contractor shall be entitled to terminate the Contract if:
  - a) the Architect fails, within 60 days after receiving a Statement and supporting documents, to issue therelevant Payment Certificate,
  - b) the Contractor does not receive the amount due under an Interim Payment Certificate within 90 days after the expiry of the time stated in Sub-Clause1 4.7 [Payment] within which payment is to be made(except for deductions in accordance with Sub-Clause 2.5 [Procuring Entity's Claims]),
  - c) the Procuring Entity substantially fails to perform his obligations under the Contract in such manneras to materially and adversely affect the economic balance of the Contract and/or the ability of the Contractor to perform the Contract,
  - d) a prolonged suspension affects the whole of the Works as described in Sub-Clause 8.11 [ProlongedSuspension], or
  - e) the Procuring Entity becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events.
  - f) the Contractor does not receive the Architect instruction recording the agreement of both Parties on the fulfilment of the conditions for the Commencement of Works under Sub-Clause 8.1 [Commencement of Works].
- 16.3.2 In any of these events or circumstances, the Contractor may, upon giving 14 days' notice to the ProcuringEntity, terminate the Contract. However, in the case of sub-paragraph (f) or (g), the Contractor may by notice terminate the Contract immediately.
- 16.3.3 The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contractor otherwise.

### 164 Cessation of Work and Removal of Contractor's Equipment

After a notice of termination under Sub-Clause 15.5 [Procuring Entity's Entitlement to Termination for Convenience], Sub-Clause 16.2 [Termination by Contractor] or Sub-Clause 19.6 [Optional Termination, Payment and Release] has taken effect, the Contractor shall promptly:

- a) cease all further work, except for such work as may have been instructed by the Architect for theprotection of life or property or for the safety of the Works,
- b) hand over Contractor's Documents, Plant, Materials and other work, for which the Contractor has received payment, and
- c) remove all other Goods from the Site, except as necessary for safety, and leave the Site.

### **16.5** Payment on Termination

After a notice of termination under Sub-Clause 16.2 [Termination by Contractor] has taken effect, the Procuring Entity shall promptly:

- a) Return the Performance Security to the Contractor,
- b) pay the Contractor in accordance with Sub-Clause 19.6 [Optional Termination, Payment andRelease], and
- c) pay to the Contractor the amount of any loss or damage sustained by the Contractor as a result of this termination.

# 17. RISK AND RESPONSIBILITY

## 17.1 Indemnities

- 17.1.1 The Contractor shall indemnify and hold harmless the Procuring Entity, the Procuring Entity's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of:
  - a) Bodily injury, sickness, disease or death, of any person what so ever arising out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and theremedying of any defects, unless attributable to any negligence, willful actor breach of the Contractby the Procuring Entity, the Procuring Entity's Personnel, or any of their respective agents, and
  - b) damage to or loss of any property, real or personal (other than the Works), to the extent that such damage or loss arises out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless and to the extent that any such damage or loss is attributable to any negligence, willful act or breach of the Contractby the Procuring Entity, the Procuring Entity's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.
- 17.12 The Procuring Entity shall indemnify and hold harmless the Contractor, the Contractor's Personnel, andtheir respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of (1) bodily injury, sickness, disease or death, which is attributable to any negligence, willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any of their respective agents, and (2) the matters for which liability may be excluded from insurance cover, as described in sub-paragraphs (d)(i), (ii) and (iii) of Sub-Clause 18.3 [Insurance Against Injury to Persons and Damage to Property], unless and to the extent that any such damage or loss is attributable to any negligence, willful actor breach of the Contract by the contractor, the contractor's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.

# 17.2 Contractor's Care of the Works

- 17.2.1 The Contractor shall take full responsibility for the care of the Works and Goods from the Commencement Date until the Taking-Over Certificate is issued (or is deemed to be issued under Sub-Clause 10.1 [TakingOver of the Works and Sections]) for the Works, when responsibility for the care of the Works shall passto the Procuring Entity. If a Taking-Over Certificate is issued (or is so deemed to be issued) for any Section or part of the Works, responsibility for the care of the Section or part shall then pass to the Procuring Entity.
- 17.2.2 After responsibility has accordingly passed to the Procuring Entity, the Contractor shall take responsibility for the care of any work which is outstanding on the date stated in a Taking-Over Certificate, until this outstanding work has been completed.

- 1723 If any loss or damage happens to the Works, Goods or Contractor's Documents during the period when the Contractor is responsible for their care, from any cause not listed in Sub-Clause 17.3 [Procuring Entity's Risks], the Contractor shall rectify the loss or damage at the Contractor's risk and cost, so that the Works, Goods and Contractor's Documents conform with the Contract.
- 172.4 The Contractor shall be liable for any loss or damage caused by any actions performed by the Contractorafter a Taking-Over Certificate has been issued. The Contractor shall also be liable for any loss or damage which occurs after a Taking-Over Certificate has been issued and which arose from a previous event for which the Contractor was liable.

## 17.3 Procuring Entity's Risks

The risks referred to in Sub-Clause 17.4 [Consequences of Procuring Entity's Risks] below, in so far as they directly affect the execution of the Works in Kenya, are:

- a) War hostilities (whether war be declared or not),
- b) rebellion, riot, commotion or disorder, terrorism, sabotage by persons other than the Contractor'sPersonnel,
- c) explosive materials, ionizing graduation or contamination by radio-activity, except as may beattributable to the Contractor's use of such explosives, radiation or radio-activity,
- d) pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds,
- e) use or occupation by the Procuring Entity of any part of the Permanent Works, except as may bespecified in the Contract,
- f) design of any part of the Works by the Procuring Entity's Personnel or by others for whom the Procuring Entity is responsible, and
- g) any operation of the forces of nature which is Unforeseeable or against which an experienced contractor could not reasonably have been expected to have taken adequate preventive precautions.

### 17.4 Consequences of Procuring Entity's Risks

- 17.4.1 If and to the extent that any of the risks listed in Sub-Clause 17.3 above results in loss or damage to the Works, Goods or Contractor's Documents, the Contractor shall promptly give notice to the Architect and shall rectify this loss or damage to the extent required by the Engineer.
- 17.4.2 If the Contractor suffers delay and/ or incurs Cost from rectifying this loss or damage, the Contractor shallgive a further notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
- (a) An extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4[Extension of Time for Completion], and
- (b) Payment of any such Cost, which shall be included in the Contract Price. In the case of sub-paragraphs(e)and
   (g) of Sub-Clause 17.3 [Procuring Entity's Risks], Accrued Costs shall be payable.
- 17.4.3 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5[Determinations] to agree or determine these matters.

## 17.5 Intellectual and Industrial Property Rights

- 175.1 In this Sub-Clause, "infringement" shall refer to an infringement (or alleged infringement) of any patent, registered design, copyright, trade mark, trade name, trade secret or other intellectual or industrial property right relating to the Works; and "claim" shall refer to a claim (or proceedings pursuing a claim) alleging an infringement.
- 17.5.2 Whenever a Party does not give notice to the other Party of any claim within 30 days of receiving the claim, the first Party shall be deemed to have waived any right to indemnity under this Sub-Clause.
- 17.5.3 The Procuring Entity shall indemnify and hold the Contractor harmless against and from any claim alleging an infringement which is or was:
  - a) An un avoidable result of the Contractor's compliance with the Contract, or
  - b) A result of any Works being used by the Procuring Entity:
    - i) for a purpose other than that indicated by, or reasonably to be inferred from, the Contract, or
    - ii) in conjunction with anything not supplied by the Contractor, unless such use was disclosed to the Contractor prior to the Base Date or is stated in the Contract.
- 17.5.4 The Contractor shall indemnify and hold the Procuring Entity harmless again stand from any other claimwhich arises out of or in relation to (i) the manufacture, use, sale or import of any Goods, or (ii) any design for which the Contractor is responsible.
- 17.55 If a Party is entitled to be indemnified under this Sub-Clause, the indemnifying Party may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it. The other Party shall, at the request and cost of the indemnifying Party, assist in contesting the claim. This other Party (and its Personnel) shall not make any admission which might be prejudicial to the indemnifying Party, unless the indemnifying Party failed to take over the conduct of any negotiations, litigation or arbitration upon being requested to do so by such other Party.
- 17.5.6 For operation and maintenance of any plant or equipment installed, the contractor shall grant a non- exclusive and non-transferable license to the Procuring Entity under the patent, utility models ,or other intellectual rights owned by the contractor or a third party from whom the contract or has received the rights to grant sub-licenses and shall also grant to the Procuring Entity a non-exclusive and non- transferable rights (without the rights to sub-license) to use the know-how and other technical information disclosed to the contract or under the contract. Nothing contained here-in shall be construed as transferring ownership of any patent, utility model, trademark, design, copy right, know-how or other intellectual rights from the contractor or any other third party to the Procuring Entity.

## 17.6 Limitation of Liability

- 17.6.1 Neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contractor for any in director consequential loss or damage which may be suffered by the other Party in connection with the Contract, other than as specifically provided in Sub-Clause 8.7 [Delay Damages]; Sub- Clause 11.2 [Cost of Remedying Defects]; Sub-Clause 15.4 [Payment after Termination]; Sub-Clause 16.4 [Payment on Termination]; Sub-Clause 17.1 [Indemnities]; Sub-Clause 17.4(b) [Consequences of Procuring Entity's Risks] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights].
- 17.6.2 The total liability of the Contractor to the Procuring Entity, under or in connection with the Contract other than under Sub-Clause 4.19 [Electricity, Water and Gas], Sub-Clause 4.20 [Procuring Entity's Equipment and Free- Issue Materials], Sub-Clause 17.1 [Indemnities] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights], shall not exceed the sum resulting from the application of a multiplier (less or greater than one) to the Accepted Contract Amount, as stated in **the Special Conditions of Contract**, or (if such multiplier or other sum is not so stated) the Accepted Contract Amount.
- 17.6.3 This Sub-Clause shall not limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party.

### 17.7 Use of Procuring Entity's Accommodation/Facilities

- 17.7.1 The Contractor shall take full responsibility for the care of the Procuring Entity provided accommodation and facilities, if any, as detailed in the Specification, from the respective dates of hand-over to the Contractor until cessation of occupation (where hand-over or cessation of occupation may take place after the date stated in the Taking-Over Certificate for the Works).
- 17.7.2 If any loss or damage happens to any of the above items while the Contractor is responsible for their carearising from any cause whatsoever other than those for which the Procuring Entity is liable, the Contractor shall, at his own cost, rectify the loss or damage to the satisfaction of the Engineer.

### 18. INSURANCE

### **18.1** General Requirements for Insurances

- 18.1.1 In this Clause, "insuring Party" means, for each type of insurance, the Party responsible for effecting andmaintaining the insurance specified in the relevant Sub-Clause.
- 18.1.2 Wherever the Contractor is the insuring Party, each insurance shall be effected with insurers and in terms approved by the Procuring Entity. These terms shall be consistent with any terms agreed by both Parties before the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause.
- 18.1.3 Wherever the Procuring Entity is the insuring Party, each insurance shall be effected with insurers and interms acceptable to the Contractor. These terms shall be consistent with any terms agreed by both Partiesbefore the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause.

- 18.1.4 If a policy is required to indemnify joint insured, the cover shall apply separately to each insured as though a separate policy had been issued for each of the joint insured. If a policy indemnifies additional joint insured, namely in addition to the insured specified in this Clause, (i) the Contractor shall act under the policy on behalf of these additional joint insured except that the Procuring Entity shall act for ProcuringEntity's Personnel, (ii) additional joint insured shall not be entitled to receive payments directly from the insurer or to have any other direct dealings with the insurer, and (iii) the insuring Party shall require all additional joint insured to comply with the conditions stipulated in the policy.
- 18.1.5 Each policy insuring against loss or damage shall provide for payments to be made in the currencies required to rectify the loss or damage. Payments received from insurers shall be used for the rectification of the loss or damage.
- 18.1.6 The relevant insuring Party shall, within the respective periods stated in **the Special Conditions of Contract** (calculated from the Commencement Date), submit to the other Party:
  - a) Evidence that the insurances described in this Clause have been affected, and
  - b) copies of the policies for the insurances described in Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment] and Sub-Clause 18.3 [Insurance against Injury to Persons and Damage toProperty].
- 18.1.7 When each premium is paid, the insuring Party shall submit evidence of payment to the other Party. Whenever evidence or policies are submitted, the insuring Party shall also give notice to the Engineer.
- 18.1.8 Each Party shall comply with the conditions stipulated in each of the insurance policies. The insuring Party shall keep the insurers informed of any relevant changes to the execution of the Works and ensure that insurance is maintained in accordance with this Clause.
- 18.1.9 Neither Party shall make any material alteration to the terms of any insurance without the prior approval of the other Party. If an insurer makes (or at tempts to make) any alteration, the Party first notified by the insurer shall promptly give notice to the other Party.
- 18.1.10 If the insuring Party fails to effect and keep in force any of the insurances it is required to effect and maintain under the Contractor fails to provide satisfactory evidence and copies of policies in accordance with this Sub- Clause, the other Party may (at its option and without prejudice to any other right or remedy) effect insurance for the relevant coverage and pay the premiums due. The insuring Party shall pay the amount of these premiums to the other Party, and the Contract Price shall be adjusted accordingly.
- 18.1.11 Nothing in this Clause limits the obligations, liabilities or responsibilities of the Contractor or the Procuring Entity, under the other terms of the Contractor otherwise. Any amounts not insured or not recovered from the insurers shall be borne by the Contractor and/or the Procuring Entity.
- 18.1.12 Procuring Entity in accordance with these obligations, liabilities or responsibilities. However, if the insuring Party fails to effect and keep in force an insurance which is available and which it is required to effect and maintain under the Contract, and the other Party neither approves the omission nor effects insurance for the coverage relevant to this default, any moneys which should have been recoverable under this insurance

shall be paid by the insuring Party.

- 18.1.13 Payments by one Party to the other Party shall be subject to Sub-Clause 2.5 [Procuring Entity's Claims] or Sub- Clause 20.1 [Contractor's Claims], as applicable.
- 18.1.14 The Contractor shall be entitled to place all insurance relating to the Contract (including, but not limited to the insurance referred to Clause 18) with insurers from any eligible source country.

### 18.2 Insurance for Works and Contractor's Equipment

- 182.1 The insuring Party shall insure the Works, Plant, Materials and Contractor's Documents for not less thanthe full reinstatement cost including the costs of demolition, removal of debris and professional fees andprofit. This insurance shall be effective from the date by which the evidence is to be submitted under sub-paragraph (a) of Sub-Clause 18.1 [General Requirements for Insurances], until the date of issue of the Taking-Over Certificate for the Works.
- 1822 The insuring Party shall maintain this insurance to provide cover until the date of issue of the Performance Certificate, for loss or damage for which the Contractor is liable arising from a cause occurring prior to the issue of the Taking-Over Certificate, and for loss or damage caused by the Contractor in the course of any other operations (including those under Clause 11 [Defects Liability]).
- 182.3 The insuring Party shall insure the Contractor's Equipment for not less than the full replacement value, including delivery to Site. For each item of Contractor's Equipment, the insurance shall be effective while it is being transported to the Site and until it is no longer required as Contractor's Equipment.
- 182.4 Unless otherwise stated in the Special Conditions, insurances under this Sub-Clause:a) Shall be effected and maintained by the Contractor as insuring Party,

- b) shall be in the joint names of the Parties, who shall be jointly entitled to receive payments from theinsurers, payments being held or allocated to the Party actually bearing the costs of rectifying the lossor damage,
- c) shall cover all loss and damage from any cause not listed in Sub-Clause 17.3 [Procuring Entity's Risks],
- d) shall also cover, to the extent specifically required in the tendering documents of the Contract, loss ordamage to a part of the Works which is attributable to the use or occupation by the Procuring Entity of another part of the Works, and loss or damage from the risks listed in sub-paragraphs (c), (g) and(h)of Sub-Clause 17.3 [Procuring Entity's Risks], excluding (in each case) risks which are not insurable at commercially reasonable terms, with deductibles per occurrence of not more than the amount stated **in the Special Conditions** of Contract (if an amount is not so stated, this sub-paragraph (d) shall not apply), and
- e) may however exclude loss of, damage to, and reinstatement of:
  - i) a part of the Works which is in a defective condition due to a defect in its design, materials or workmanship (but cover shall include any other parts which are lost or damaged as a direct result of this defective condition and not as described in sub-paragraph (ii) below),
  - ii) apart of the Works which is lost or damaged in order to reinstate any other part of the Works if this other part is in a defective condition due to a defect in its design, materials or workmanship,
  - iii) apart of the Works which has been taken over by the Procuring Entity, except to the extent thatthe Contractor is liable for the loss or damage, and
  - iv) Goods while they are not in Kenya, subject to Sub-Clause 14.5 [Plant and Materials intended for the Works].
- 1825 If, more than one year after the Base Date, the cover described in sub-paragraph (d) above ceases to be available at commercially reasonable terms, the Contractor shall (as insuring Party) give notice to the Procuring Entity, with supporting particulars. The Procuring Entity shall then (i) be entitled subject to Sub- Clause 2.5 [Procuring Entity's Claims] to payment of an amount equivalent to such commercially reasonable terms as the Contractor should have expected to have paid for such cover, and (ii) be deemed, unless he obtains the cover at commercially reasonable terms, to have approved the omission under Sub-Clause 18.1 [General Requirements for Insurances].

# 18.3 Insurance against Injury to Persons and Damage to Property

- 18.3.1 The insuring Party shall insure against each Party's liability for any loss, damage, death or bodily injurywhich may occur to any physical property (except things insured under Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment]) or to any person (except persons insured under Sub-Clause 18.4 [Insurance for Contractor's Personnel]), which may arise out of the Contractor's performance of the Contract and occurring before the issue of the Performance Certificate.
- 18.3.2 This insurance shall be for a limit per occurrence of not less than the amount stated in **the Special Conditions of Contract**, with no limit on the number of occurrences. If an amount is not stated in the **Special Conditions of Contract**, this Sub-Clause shall not apply.
- 18.3.3 Unless otherwise stated in the Special Conditions, the insurances specified in this Sub-Clause:

- a) Shall be effected and maintained by the Contractor as insuring Party,
- b) shall be in the joint names of the Parties,
- c) shall be extended to cover liability for all loss and damage to the Procuring Entity's property (exceptthings insured under Sub-Clause 18.2) arising out of the Contractor's performance of the Contract, and
- d) may however exclude liability to the extent that it arises from:
  - i) the Procuring Entity's right to have the Permanent Works executed on, over, under, in or
  - ii) through any land, and to occupy this land for the Permanent Works,
  - iii) damage which is an unavoidable result of the Contractor's obligations to execute the
  - iv) Works and remedy any defects, and
  - v) a cause listed in Sub-Clause 17.3 [Procuring Entity's Risks], except to the extent that cover is available at commercially reasonable terms.

## **18.4** Insurance for Contractor's Personnel

- 184.1 The Contractor shall effect and maintain insurance against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the Contractor's Personnel.
- 18.4.2 The insurance shall cover the Procuring Entity and the Architect against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the Contractor's Personnel, except that this insurance may exclude losses and claims to the extent that they arise from any act or neglect of the Procuring Entity or of the Procuring Entity's Personnel.
- 184.3 The insurance shall be maintained in full force and effect during the whole time that these personnel are assisting in the execution of the Works. For a Subcontractor's employees, the insurance may be effected by the Subcontractor, but the Contractor shall be responsible for compliance with this Clause.

### **19. FORCE MAJEURE**

### **19.1** Definition of Force Majeure

- 19.1.1 In this Clause, "Force Majeure" means an exceptional event or circumstance:
  - a) Which is beyond a Party's control,
  - b) Which such Party could not reasonably have provided against before entering into the Contract,
  - c) which, having arisen, such Party could not reasonably have avoided or over come, and
  - d) which is not substantially attributable to the other Party.
- 19.1.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:
  - a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
  - b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
  - c) riot, commotion, disorder, strike or lock out by persons other than the Contractor's Personnel,
  - d) munitions of war, explosive materials, ionizing radiation or contamination by

radio-activity, exceptas may be attributable to the Contractor's use of such munitions, explosives, radiation or radio- activity, and

e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.

## **19.2** Notice of Force Majeure

- 192.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by ForceMajeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure.
- 19.2.2 The Party shall, having given notice, be excused performance of its obligations for so long as such ForceMajeure prevents it from performing them.
- 19.2.3 Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.

#### **19.3** Duty to Minimize Delay

Each Party shall at all times use all reasonable endeavors to minimize any delay in the performance of theContract as a result of Force Majeure. A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.

#### 19.4 Consequences of Force Majeure

- 19.4.1 If the Contractor is prevented from performing his substantial obligations under the Contract by Force Majeure of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], and suffers delay and/ or incurs Cost by reason of such Force Majeure, the Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
  - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
  - b) if the event or circumstance is of the kind described in sub-paragraphs (i) to (iv) of Sub-Clause 19.1[Definition of Force Majeure] and, in sub-paragraphs (ii) to (iv), occurs in Kenya, payment of any such Cost, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause18.2 [Insurance for Works and Contractor's Equipment].
- 19.42 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5[Determinations] to agree or determine these matters.

#### 19.5 Force Majeure Affecting Subcontractor

If any Subcontractor is entitled under any contract or agreement relating to the Works to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broaderforce majeure events or circumstances shall not excuse the Contractor's non-performance or entitle him torelief under this Clause.

#### 19.6 Optional Termination, Payment and Release

19.6.1 If the execution of substantially all the Works in progress is prevented for a continuous period of 84 daysby reason of Force Majeure of which notice has been given under Sub-

Clause 19.2 [Notice of Force Majeure], or for multiple periods which total more than 140 days due to the same notified Force Majeure, then either Party may give to the other Party a notice of termination of the Contract. In this event, the termination shall take effect 7 days after the notice is given, and the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment].

- 19.6.2 Upon such termination, the Architect shall determine the value of the work done and issue a PaymentCertificate which shall include:
  - $a) \quad the amounts payable for any work carried out for which a price is stated in the Contract;\\$
  - b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Procuring Entity when paid for by the Procuring Entity, and the Contractor shall place the same at the Procuring Entity's disposal;
  - c) other Cost or liabilities which in the circumstances were reasonably and necessarily incurred by theContractor in the expectation of completing the Works;
  - d) the Cost of removal of Temporary Works and Contractor's Equipment from the Site and the return of these items to the Contractor's works in his country (or to any other destination at no greater cost); and
  - e) the Cost of repatriation of the Contractor's staff and lab or employed wholly in connection with the Works at the date of termination.

### **19.7** Release from Performance

Notwithstanding any other provision of this Clause, if any event or circumstance outside the control of the Parties (including, but not limited to, Force Majeure) arises which makes it impossible or unlawful for either or both Parties to fulfill its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other Party of such event or circumstance:

- a) The Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract, and
- b) The sum payable by the Procuring Entity to the Contractor shall be the same as would have been payable under Sub-Clause 19.6 [Optional Termination, Payment and Release] if the Contract had been terminated under Sub-Clause 19.6.

#### 20. SETTLEMENT OF CLAIMS AND DISPUTES

#### 20.1 Contractor's Claims

- 20.1.1 If the Contractor considers itself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give <u>Notice to the Engineer</u>, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 30 days after the Contractor became aware, or should have become aware, of the event or circumstance.
- 20.1.2 If the Contractor fails to give notice of a claim within such period of 30 days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Procuring Entityshall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub-Clause shall apply.
- 20.1.3 The Contractor shall also submit any other notices which are required by the Contract, and supporting particulars for the claim, all as relevant to such event or circumstance.
- 20.1.4 The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the Engineer. Without admitting the Procuring Entity's liability, the Architect may, after receiving any notice under this Sub-Clause, monitor the record-keeping and/ or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Architect to inspect all these records and shall (if instructed) submit copies to the Engineer.
- 20.1.5 Within 42days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Engineer, the Contractor shall send to the Architect fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/ or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:
  - a) This fully detailed claim shall be considered as interim;
  - b) The Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/ or amount claimed, and such further particulars as the Architect may reasonably require; and
  - c) The Contractor shall send a final claim within 30 days after the end of the effects resulting from the event or circumstance, or within such other period as may be proposed by the Contractor and approved by the Engineer.
- 20.1.6 Within 42 days after receiving a Notice of a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Architect and approved by the Contractor, the Architect shall respond with approval, or with disapproval and detailed comments. He may also request any necessary further particulars but shall nevertheless give his response on the principles of the claim within the above defined time period.
- 20.1.7 Within the above defined period of 42 days, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the extension (if any) of the Time for Completion (before or after its expiry) in accordance with Sub-Clause 8.4 [Extension of Time for Completion], and/or (ii) the additional payment (if any) to which

the Contractor is entitled under the Contract.

- 20.1.8 Each Payment Certificate shall include such additional payment for any claim as has been reasonably substantiated as due under the relevant provision of the Contract. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate.
- 20.19 If the Architect does not respond within the time frame defined in this Clause, either Party may consider that the claim is rejected by the Architect and any of the Parties may refer the dispute for amicable settlement in accordance with Clause 20.3.
- 20.1.10 The requirements of this Sub-Clause are in addition to those of any other Sub-Clause which may apply toa claim. If the Contractor fails to comply with this or another Sub-Clause in relation to any claim, any extension of time and/ or additional payment shall take account of the extent (if any) to which the failure prevented or prejudiced proper investigation of the claim, unless the claim is excluded under the second paragraph of this Sub-Clause 20.3.

### 20.2 Procuring Entity's Claims

- 202.1 If the Procuring Entity considers itself to be entitled to any payment under any Clause of these Conditions or otherwise in connection with the Contract, and/or to any extension of the Defects Notification Period, the Procuring Entity or the Architect shall give notice and particulars to the Contractor. However, notice is not required for payments due under Sub-Clause 4.19 [Electricity, Water and Gas], under Sub-Clause 4.20 [Procuring Entity's Equipment and Free-Issue Materials], or for other services requested by the Contractor.
- 2022 The notice shall be given as soon as practicable and no longer than 30 days after the Procuring Entity became aware, or should have become aware, of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Notification Period shall be given before the expiry of such period.
- 2023 The particulars shall specify the Clause or other basis of the claim and shall include substantiation of the amount and/or extension to which the Procuring Entity considers itself to be entitled in connection with the Contract. The Architect shall then proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the amount (if any) which the Procuring Entity is entitled to be paid by the Contractor, and/ or (ii) the extension (if any) of the Defects Notification Period in accordance with Sub-Clause 11.3 [Extension of Defects Notification Period].
- 202.4 This amount may be included as a deduction in the Contract Price and Payment Certificates. The Procuring Entity shall only be entitled to set off against or make any deduction from an amount certified in a Payment Certificate, or to otherwise claim against the Contractor, in accordance with this Sub-Clause.

### 20.3 Amicable Settlement

Where a notice of a claim has been given, both Parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both Parties agree otherwise, the Party giving a notice of a claim in accordance with Sub-Clause 20.1 above should move to commence arbitration after 60 days from the day on which a notice of a

claim was given, even if no attempt at an amicable settlement has been made.

## 20.4 Matters that may be referred to arbitration

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:

- a) Whether or not the issue of an instruction by the Architect is empowered by these Conditions.
- b) Whether or not a certificate has been improperly withheld or is not in accordance with theseConditions.
- c) Any dispute arising in respect risks arising from matters referred to in Clause 17.3 and Clause 19.
- e) 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 Procuring Entity and theContractor agree otherwise in writing.

### 20.5 Arbitration

- 205.1 Any claim or dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with Sub-Clause 20.3 shall be finally settled by arbitration.
- 20.5.2 No arbitration proceedings shall be commenced on any claim or dispute where notice of a claim or dispute has not been given by the applying party within ninety days of the occurrence or discovery of the matteror issue giving rise to the dispute.
- 20.5.3 Notwithstanding the issue of a notice as stated above, the arbitration of such a claim or dispute shall not commence unless an attempt has in the first instance been made by the parties to settle such claim or dispute amicably with or without the assistance of third parties. Proof of such attempt shall be required.
- 205.4 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 a ward any sums which ought to have been the subject of or included

in any certificate.

- 20.5.5 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 require mentor notice had been given.
- 20.5.6 The arbitrators shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Engineer, relevant to the dispute. Nothing shall disqualify representatives of the Parties and the Architect from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.
- 20.5.7 Neither Party shall be limited in the proceedings before the arbitrators to the evidence, or to the reasons for dissatisfaction given in its Notice of Dissatisfaction.
- 205.7 Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, and the Architect shall not be altered by reason of any arbitration being conducted during the progress of the Works.
- 2058 The terms of the remuneration of each or all the members of Arbitration shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

#### 20.6 Arbitration with National Contractors

- 20.6.1 If the Contract is with national contractors, arbitration proceedings will be conducted in accordance with the Arbitration Laws of Kenya. In case of any claim or dispute, such claim or dispute shall be notified inwriting 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, on the request of the applying party, by the Chairman or Vice Chairman of any of the following professional institutions;
  - i) Architectural Association of Kenya
  - ii) Institute of Quantity Surveyors of Kenya
  - iii) Association of Consulting Engineers of Kenya
  - iv) Chartered Institute of Arbitrators (Kenya Branch)
  - v) Institution of Engineers of Kenya
- 20.6.2 The institution written to first by the aggrieved party shall take precedence over all other institutions.

### 20.7 Arbitration with Foreign Contractors

- 20.7.1 Arbitration with foreign contractors shall be conducted in accordance with the arbitration rules of the United Nations Commission on International Trade Law (UNCITRAL); or with proceedings administered by the International Chamber of Commerce (ICC) and conducted under the ICC Rules of Arbitration; by one or more arbitrators appointed in accordance with said arbitration rules.
- 20.7.2 The place of arbitration shall be a location specified in the SCC; and the arbitration shall

be conducted in the language for communications defined in Sub-Clause1.4 [Law and Language].

## 20.8 Alternative Arbitration Proceedings

Alternatively, the Parties may refer the matter to the Nairobi Centre for International Arbitration (NCIA) which offers a neutral venue for the conduct of national and international arbitration with commitment to providing institutional support to the arbitral process.

## 20.9 Failure to Comply with Arbitrator's Decision

- 20.9.1 The award of such Arbitrator shall be final and binding up on the parties.
- 20.9.2 In the event that a Party fails to comply with a final and binding Arbitrator's decision, then the other Partymay, without prejudice to any other rights it may have, refer the matter to a competent court of law.

### 20.10 Contract operations to continue

Notwithstanding any reference to arbitration herein,

- 1.1.1 the parties shall continue to perform their respective obligations under the Contract unless theyotherwise agree; and
- 1.1.2 the Procuring Entity shall pay the Contractor any monies due the Contractor.

# SECTION IX - SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions shall supplement the GCC. Whenever there is a conflict, the provisionshere in shall prevail over those in the GCC.

# Part A - Contract Data

Conditions	Sub-Clause	Data
Procuring Entity's	Heading	Kaimosi Friends University College
name and address		(KAFUCO)
		P.O. Box 385 – 50309, Kaimosi
Name and Reference No.	Heading	Plumbing and Drainage installation
of the Contract	and	works for the Proposed Construction of
	3.1.1	Library at Kaimosi Friends University
		College
		KAFUCO/LIB /
Engineers Name and	Heading	Works Secretary, State Department
Address	and	For PublicWorks P.O. Box 30743-
	3.1.1	00100 Nairobi.
Contractor's	4.3.1	
Representative'sname	1601	
Key Personnel names	16.9.1	
Time for Completion	1.1.	24 Months
Defects Notification Period	1.1	6 Months
Sections	1.1	Not Applicable
Electronic transmission	1.3	
systems		
Time for the Parties	1.6	Within 120 Days
entering intoa Contract		
Agreement		
Commencement date	8.1.1	To be Agreed with the Project Manager
Time for access to the site	2.1	No later than the Commencement Date, and not
		later than 14 days after Commencement Date
Architects Duties and	3.1.6(b) (ii)	Variations resulting in increase of the accepted
Authority		ContractAmount in excess of 25% shall
		require approval of theProcuring Entity
Performance Security	4.2.1	The performance security will be in the form
		of a Perfomance Bond in the amount(s) of 5%
		of the acceptedContract Amount and in the
		same currency (ies) of the Accepted Contract
		Amount
Normal working hours	6.5	0800 - 1700 HOURS
Delay damages for the	8.7 &	0.01% of the Contract Price per day
Works	14.15(b)	

Maximum amount of	8.7	5% of the final Contract Price
delaydamages		
Provisional Sums	13.5. (b)(ii)	[If there are Provisional Sums, insert a percentage for adjustment of Provisional Sums} %
Adjustments for Changes in Cost	13.8	Period "n" applicable to the adjustment multiplier "Po": [Insert the period if differentfrom one (1) month; if period "n" is one (1) month, insert "not applicable"}
Total advance payment	14.2.1	N/A
Repayment amortization rate of advance payment	14.2.5 (b)	N/A
Percentage of	14.3.2 (c)	10%
Retention		
Limit of Retention Money	14.3.2 (c)	5% of the Accepted Contract Amount
Plant and Materials	14.5(b)(i)	If Sub-Clause 14.5 applies: Plant and Materials for payment Free on Board N/A
	14.5(C)(i)	Plant and Materials for payment when delivered to the Site. Plant And Materials to be Incorporated into Permanent Work
Minimum Amount of InterimPayment Certificates	14.6	3.0% of the Accepted Contract Amount.
Publishing source of commercial interest rates for financial chargesin case of delayed payment	14.8	Specify % rate per month of delayed payment. 3 percentage points above the Central Bank of Kenya's average rate for base lending prevailing as of the first day the payment becomes overdue
Maximum total liability of the Contractor to the Procuring Entity	17.6	The product of <i>zero point one (0.10)</i> times the Accepted Contract Amount,
Periods for submission of insurance: a. Evidence of insurance. Relevant policies	18.1	14 days <u>14</u> days
Maximum amount of deductibles for insurance of the Procuring Entity's risks	18.2.4 (d)	NIL
Minimum amount of third- party insurance	18.3	KSh. 5,000,000.00
The place of Arbitration	20.7.2	Kisumu

# SECTION X - CONTRACT FORMS

FORM No. 1 - NOTIFICATION OF INTENTION TO AWARD

FORM No. 2 - NOTIFICATION OF AWARD - LETTER OF

ACCEPTANCEFORM No. 3 - CONTRACT AGREEMENT

FORM No. 4 - PERFORMANCE SECURITY [Option 1 - Unconditional Demand Bank Guarantee]

FORM No. 5- PERFORMANCE SECURITY [Option 2-

Performance Bond]FORM No. 6 - ADVANCE PAYMENT

SECURITY

FORM No. 7 - RETENTION MONEY SECURITY

# FORM No 1: NOTIFICATION OF INTENTION TOAWARD OF CONTRACT

This Notification of Award shall be sent to each Tenderer that submitted a Tender and was not successful. Sendthis Notification to the Tenderer's Authorized Representative named in the Tender Information Form on the format below.

# **FORMAT**

- 1. For the attention of Tenderer's Authorized Representative

[IMPORTANT: insert the date that this Notification is transmitted to Tenderers. The Notification must be sent to all Tenderers simultaneously. This means on the same date and as close to the same time as possible.]

2. <u>Date of transmission</u>: [*email*] on [*date*] (local time)

This Notification is sent by (Name and designation)

- 3. Notification of Award

  - *ii)* Project ......[insert name of project]

This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period, you may:

- 4. Request a debriefing in relation to the evaluation of your tender by submitting a Procurement-related Complaint in relation to the decision to award the contracts.
  - a) The successful tenderers
  - i) Name of successful Tender\_\_\_\_\_
  - ii) Address of the successful Tender

- b) The reasons for your tender being unsuccessful are as follows:
- c) OtherTenderers

Names of all Tenderers that submitted a Tender. If the Tender's price was evaluated include the evaluated price well as the Tender price as read out.

SNo	Name of Tender	Tender Price as read out	Tender's evaluated price (Note a)	One Reason Why Not Evaluated
1				
2				
3				
4				
5				

(Note a) State NE if not evaluated

- 5. <u>How to request a debriefing</u>
  - a) DEADLINE: The dead line to request a debriefing expires at midnight on [*insert date*] (*local time*).
  - b) You may request a debriefing in relation to the results of the evaluation of your Tender. If you decide to request a debriefing your written request must be made within three (5) Business Days of receipt of thisNotification of Intention to Award.
  - c) Provide the contract name, reference number, name of the Tenderer, contact details; and address therequest for debriefing as follows:
    - i) Attention: [insert full name of person, if applicable]
    - ii) Title/position: [insert title/position]
    - iii) Agency: [insert name of Procuring Entity]
    - iv) Email address: [insert email address]
  - d) If your request for a debriefing is received within the 3 Days deadline, we will provide the debriefing within five (3) Business Days of receip tof your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (3) Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period willend.
  - e) The debriefing may be in writing, by phone, video conference call or in person. We shall promptly adviseyou in writing how the debriefing will take place and confirm the date and time.

- f) If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we willprovide the debriefing as soon as practicable, and normally no later than fifteen (15) Days from the date of publication of the Contract Award Notice.
- 6. <u>How to make a complaint?</u>
  - a) Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [*insert date*] (local time).
  - b) Provide the contract name, reference number, name of the Tenderer, contact details; and address theProcurement-related Complaint as follows:
    - i) Attention: [insert full name of person, if applicable]
    - ii) Title/position: [insert title/ position]
    - iii) Agency: [insert name of Procuring Entity]
    - iv) Email address: [insert email address]
  - c) At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.
  - d) Further information: For more information refer to the Public Procurement and Disposals Act 2015 and ts Regulations a vailable from the Website <u>www.ppra.go.ke</u>.

You should read these documents before preparing and submitting your complaint.

- e) There are four essential requirements:
  - You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender in this tendering process and is the recipient of a Notification of Intention to Award.
  - ii) The complaint can only challenge the decision to award the contract.
  - iii) You must submit the complaint within the period stated above.
  - iv) You must include, in your complaint, all of the information required to support your complaint.
- 7. <u>Standstill Period</u>
  - i) DEADLINE: The Standstill Period is due to end at midnight on [*insert date*] (local time).
  - ii) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention Award.
  - iii) The Standstill Period may be extended as stated in paragraph Section 5(d) above.

If you have any questions regarding this Notification please do not hesitate tocontact us. On behalf of the Procuring Entity:

Signature:		
Name:		
Title/position:		
Telephone:		

# FORM NO 2: LETTER OF AWARD

[letterhead paper of the Procuring

## Entity][date]

To: [name and address of the Contractor]

This is to notify you that your Tender dated [date] for execution of the [name of the Contract and identificationnumber, as given in the Contract Data] for the Accepted Contract Amount [amoun tin numbers and words] [nameof currency], as corrected and modified in accordance with the Instructions to Tenderers, is here by acceptedby (name of Procuring Entity).

You are requested to furnish the Performance Security within in accordance with the Conditions of Contract, using, for that purpose, one of the Performance Security Forms included in Section VIII, Contract Forms, of the TenderDocument.

Authorized Signature:
Name and Title of Signatory:
Name of Procuring Entity:
Attachment: Contract Agreement:

# FORM NO 3: CONTRACT AGREEMENT

WHEREAS the Procuring Entity desires that the Works known as

shoul

d be executed by the Contractor, and has accepted a Tender by the Contractor for the execution and completion of these Worksand the remedying of any defects there in,

The Procuring Entity and the Contractor agree as follows:

- 1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to themin the Contract documents referred to.
- 2 The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
  - a) The Notification of Award
  - b) the Form of Tender
  - c) the addenda Nos\_\_\_\_(if any)
  - d) the Special Conditions of Contract
  - e) the General Conditions of Contract;
  - f) the Specifications
  - g) the Drawings; and
  - h) the completed Schedules and any other documents forming part of the contract.
- 3. In consideration of the payments to be made by the Procuring Entity to the Contractor as specified in this Agreement, the Contractor here by covenants with the Procuring Entity to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.
- 4. The Procuring Entity here by covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects there in, 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.

INWITNESS where of the parties here to have caused this Agreement to be executed in accordance with the Laws of Kenya on the day, month and year specified above.

Signed and sealed by	, (	(for the Contractor).

# FORM NO. 4 - PERFORMANCE SECURITY

### [Option 1 - Unconditional Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary......[insert name and Address of Procuring Entity]
Date:\_\_\_\_\_[Insert date of issue]

Guarantor: [Insert name and address of place of issue, unless indicated in the letterhead]

- 1. We have been informedthat \_\_\_\_\_\_\_\_(hereinafter called "the Contractor") has entered into Contract No. \_\_\_\_\_\_\_dated \_\_\_\_\_\_\_\_dated \_\_\_\_\_\_\_\_with (name of Procuring Entity) \_\_\_\_\_(the Procuring Entity as the Beneficiary), for the execution of \_\_\_\_\_\_\_\_(hereinafter called "the Contract").
- 2. Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.
- 3. Atthe request of the Contractor, we as Guarantor, here by irrevocably undertake to pay the Beneficiary anysum or sums not exceeding in total an amount of \_\_\_\_(*in words*),<sup>1</sup> such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand it self or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.
- 4. This guarantee shall expire, no later than the......Day of...........20\_\_\_ and any demand for payment under it must be received by us at the office indicated above on or before that date.
- 5. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months] [oneyear]*, inresponse to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

[Name of Authorized Official, signature(s) and seals/stamps]

# FORM No. 5- PERFORMANCE SECURITY

# [Option 2– Performance Bond]

[Note: Procuring Entities a readvised to use Performance Security – Unconditiona lDemand Bank Guarantee instead of Performance Bond due to difficulties involved in calling Bond holder to action]

[Guarantor letterhead or SWIFT identifier code]

#### **Beneficiary:**

[insertnameandAddressofProcuringEntity] Date:

\_\_\_\_\_[Insert date of issue]

#### PERFORMANCE BONDNo.:\_\_\_\_\_

Guarantor: [Insert name and address of place of issue, unless indicated in the letterhead]

- By this Bond \_\_\_\_\_\_as Principal (hereinafter called "the Contractor")and as Surety (hereinafter called "the Surety"), are held and firmly bound unto \_\_\_\_\_\_] as Obligee (hereinafter called "the Procuring Entity") in the amount of \_\_\_\_\_\_for the payment of which sum well and truly to be made in the types and proportions of currencies in which the Contract Price is payable, the Contractor and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.
- 2. WHEREAS the Contractor has entered into a written Agreement with the Procuring
- 3. Entity dated the \_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_\_ for \_\_\_\_\_\_ in accordance

with the documents, plans, specifications, amendments there to, which to the extent here in provided for, are by reference made part here of and are here in after referred to as the Contract.

- 4. NOW, THEREFORE, the Condition of this Obligation is such that, if the Contractor shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise, it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the Procuring Entity to be, in default under the Contract, the Procuring Entity having performed the Procuring Entity's obligations there under, the Surety may promptly remedy the default, or shall promptly:
  - a) Complete the Contract in accordance with its terms and conditions; or
  - b) Obtain a tender or tenders from qualified tenderers for submission to the Procuring Entity for completing the Contract in accordance with its terms and conditions, and upon determination by the Procuring Entity and the Surety of the lowest responsive Tenderers, arrange for a Contract between such Tenderer, and Procuring Entity and make a vailable as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "Balance of the Contract Price," as used in this paragraph, shall mean the total amount payable by Procuring Entity to Contractor under the Contract, less the amount properly paid by Procuring Entity to Contractor; or

- c) Pay the Procuring Entity the amount required by Procuring Entity to complete the Contract in accordance with its terms and conditions upto a total not exceeding the amount of this Bond.
- 5. The Surety shall not be liable for a greater sum than the specified penalty of this Bond.
- 6. Any suit under this Bond must be instituted before the expiration of one year from the date of the issuing of the Taking-Over Certificate. No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Procuring Entity named here in or the heirs, executors, administrators, successors, and assigns of the Procuring Entity.
- 7. In testimony whereof, the Contractor has here unto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly at tested by the signature of his legal representative,

this dayof	20
SIGNED ON	on behalf of
By	in the capacity of
Inthepresenceof	
SIGNED ON	on behalf of
By	in the capacity of
Inthepresence of	

# FORM NO. 6 - ADVANCE PAYMENT SECURITY

[Demand Bank Guarantee] [Guarantor letterhead] Beneficiary:\_\_\_\_\_\_[Insert name and Address of ProcuringEntity] Date:\_\_\_\_\_[Insert date of issue] ADVANCE PAYMENT GUARANTEE No.: [Insert guarantee reference number] Guarantor: [Insert name and address of place of issue, unless indicated in the letterhead]

- 2. Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum

*(in words\_\_\_\_\_)* is to be made against an advance payment guarantee.

3. At the request of the Contractor, we as Guarantor, here by irrevocably undertake to pay the Beneficiary anysum or sums not exceeding in total an amount of \_\_\_\_\_(*in* 

words\_\_\_\_\_)<sup>I</sup> upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- a) Has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or
- b) Has failed to repay the advance payment in accordance with the Contract conditions, specifying theamount which the Applicant has failed to repay.
- 4. A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Contractoron its account number\_\_\_\_\_at\_\_\_.
- 5. The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, oronthe \_\_\_\_\_\_ dayof \_\_\_\_\_\_, 2 \_\_\_\_\_, ^2 whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office onor before that date.
- 6. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months] [one year]*, in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

[Name of Authorized Official, signature(s) and seals/stamps]

# FORM NO. 7 – RETENTION MONEY SECURITY

[Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary: [Insert name and Address of Procuring Entity]

Date:\_\_\_\_\_[Insert date of issue]

Advance payment guarantee no. [Insert guarantee reference number]

Guarantor: [Insert name and address of place of issue, unless indicated in the letterhead]

1. We have been informed that \_\_\_\_\_[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture] (hereinafter called "the Contractor") has entered into ContractNo.

*[insert reference number of the contract]* dated \_\_\_\_\_ with the Beneficiary, for the execution of \_\_\_\_\_\_ *[insert name of contract and brief description of* Works] (hereinafter called "the Contract").

- 2. Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneysupto the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, and payment of *[*insert the second half of the Retention Money] is to be made against a Retention Money guarantee.
- 3. At the request of the Contractor, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]*

 $([insert amount inwords]])^{I}$  upon receipt by us of the Beneficiary's complying demands upported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifyingthedemand, stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or showgrounds for your demand or the sum specified there in.

*[insert name and addressofApplicant's bank].* 

- 5. This guarantee shall expire no later than the......Day of......2, and any demand for payment under it must be received by us at the office indicated above on or before that date.
- 6. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months] [one year]*, in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

[Name of Authorized Official, signature(s) and seals/stamps]

#### FORM NO. 7 MANUFACTURER'S AUTHORIZATION FORM

**To:** Principal, Kaimosi Friends University CollegeP.O BOX 385 – 50309 Kaimosi

We hereby extend our full guarantee and warranty as per the General Conditions of Contract for thegoods offered for supply by the above firm against this Invitation for Tenders.

.....

...... [signature for and on

behalf of manufacturer]

Note: This letter of authority MUST be on the letterhead of the Manufacturer and MUST be signed by a person authorized.

LOCAL MANUFACTURING FIRMS TO ATTACH KEBS CERTIFICATION FOR THE GALVANIZED STEELPANELS AND ASSOCIATED SUPPORTS.

BIDDERS WHO INTEND TO IMPORT GALVANIZED STEEL PANELS AND ASSOCIATED SUPPORTS TO ATTACH CERTIFICATE OF CONFORMITY AND A VALID WATER REGULATORY AUTHORITY SERVICES(WRAS) AUTHORIZATION OR EQUIVALENT FROM THE COUNTRY OF IMPORTATION ANDKEBS AUTHORIZATION PRIOR TO IMPORTATION.