

TENDER NO. KWS/OT/RMLF/12/2021-2022

PERFORMANCE BASED CONTRACT FOR KITANI – MAKTAU – L. JIPE UTW1 ROAD INTSAVO WEST NATIONAL PARK

SEPTEMBER 2021

(Open to All)

KENYA WILDLIFE SERVICE, P.O.BOX 40241 – 00100 , NAIROBI. www.kws.go.ke

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SECTION I INVITATION TO TENDER

SECTION I INVITATION TO TENDER

KENYA WILDLIFE SERVICE, P.O.BOX 40241 – 00100 NAIROBI. hps@kws.go.ke

TENDER NO. KWS/OT/RMLF/12/2021-2022:

PERFORMANCE BASED CONTRACT FOR KITANI – MAKTAU – L. JIPE UTW1 ROAD IN TSAVO WEST NATIONAL PARK

- 1. Kenya Wildlife Service invites sealed tenders for Performance Based Contract for Kitani Maktau L Jipe UTW1 Road
- 2. Tendering will be conducted under National open competitive method using a standardized tender document. Tendering is <u>Open to All qualified and interested Tenderers</u>.
 - "Tenderers will not be allowed to tender for more than one bid".
- 3. Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours *i.e.* 0800 to 1700 hours at the address given below.
- 4. A complete set of tender documents may be obtained free of charge electronically from our website; www.kws.go.ke or the Public Procurement Information Portal https://www.tenders.go.ke.
- 5. Tender documents may be viewed and downloaded for free from the website (www.kws.go.ke or the Public Procurement Information Portal https://www.tenders.go.ke). Tenderers who download the tender document must forward their particulars immediately to hps@kws.go.ke, Kenya Wildlife Service, P.O Box 40241-00100, Nairobi and Telephone number 0202379407 to facilitate any further clarification or addendum.
- 6. All Tenders must be accompanied by an Original Tender Security of KES 600,000.00 (Six Hundred Thousand Shillings). The tender security shall be issued in Kenya Shillings in the form of a Bank Guarantee or an Insurance Guarantee from Insurance Companies approved by PPRA / deposit-taking Microfinance institutions, SACCO societies, Youth Enterprise Development Fund or Women Enterprise Development Fund.
- 7. The Tenderer shall chronologically serialise all pages of the tender documents submitted.
- 8. Completed tenders must be delivered to the address below on or before **26**th **October 2021 at 1000hrs**. Electronic Tenders *will not* be permitted.
- 9. Tenders will be opened immediately after the deadline date and time specified above or any deadline date and time specified later. Tenders will be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at the address below.
- 10. Late tenders will be rejected.
- 11. The addresses referred to above are:

A. Address for obtaining further information and for purchasing tender documents

Kenya Wildlife Service

Physical address for hand Courier Delivery Shall be the office of Head Supply Chain Management located at Ndovu Court 1st Floor Kenya Wildlife Service Headquarters located along Lang'ata Road.

Postal address is Kenya Wildlife Service Headquarters located along Lang'ata Road, P. O. Box 40241-00100, NAIROBI, KENYA

The contact person is the Head Supply Chain Management, Kenya Wildlife Service, Telephone number 0202379407 and Email hps@kws.go.ke .

B. Address for Submission of Tenders.

Kenya Wildlife Service P. O. Box 40241-00100, NAIROBI, KENYA Physical address for: -

- i. Hand Delivery Shall be deposited in the Tender Box located at, Kenya Wildlife Service Headquarters, Main Reception, along Lang'ata Road
- ii. Courier delivery shall be registered at the office of Head Supply Chain Management located at Ndovu Court 1st Floor Kenya Wildlife Service Headquarters along Lang'ata Road.

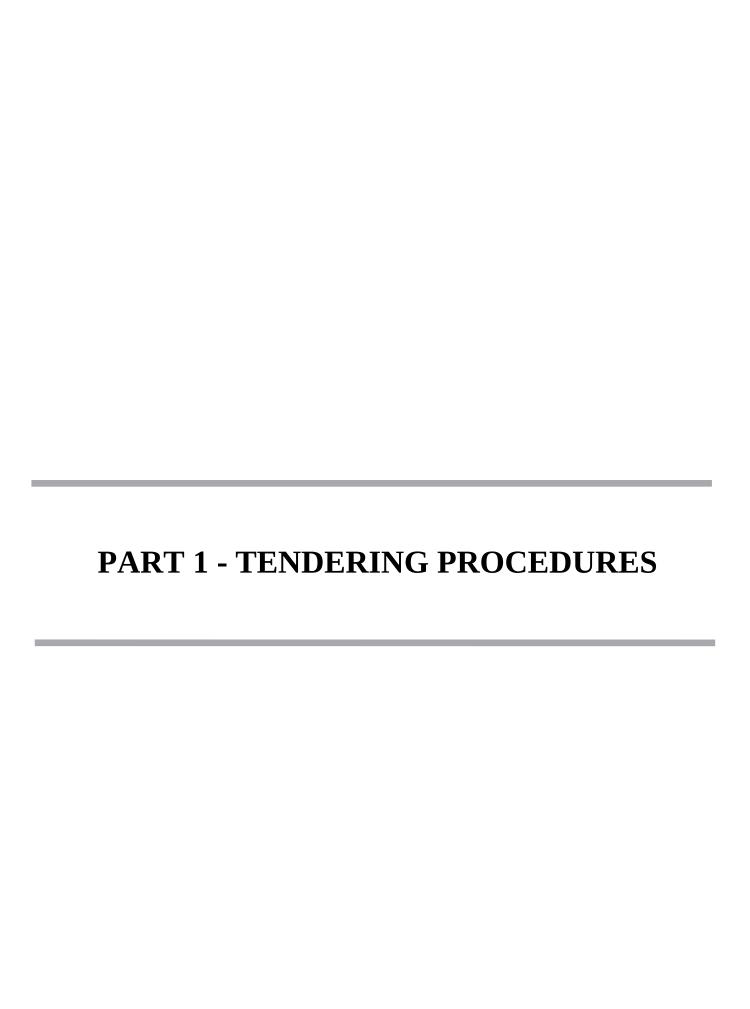
C. Address for Opening of Tenders.

Kenya Wildlife Service Veterinary Conference Room, KWS Headquarters located along Lang'ata Road.

28th September 2021

Date

Name: Brig. (Rtd) John Waweru, EBS, 'ndc' (K), 'psc' (K)
Designation: DIRECTOR GENERAL
Signature:



SECTION I-INSTRUCTIONS TO TENDERERS

A GENERAL PROVISIONS

1. Scope of Tender

- 1.1 The Procuring Entity, as indicated in the **TDS**, issues this tendering document for the procurement of Works and Services as listed below for the award of a Performance-based Road Contract. The name, identification, and number of lots (contracts) of this ITT are specified in the **TDS**. The Works and Services under the Performance-basedContractwillcovertheRoadsindicatedinthe**TDS**andwillconsistof:
 - a) Maintenance Services or "Services" consisting of all interventions on the Roads which are to be carried out by the contractor in order to achieve and keep the Road performance stand defined by the Service Level included in Section VII, Specifications for Works and Services of this tendering document, and all activities related to the management and evaluation of the road network under contract;
 - b) Rehabilitation Works, when requested in the **TDS** for the sections of the Road(s) indicated in the **TDS**, consisting of specific types of civil works described in the Specifications;
 - c) Improvement Works, when requested in the **TDS**, consisting of a set of specific interventions indicated in the Specifications to add new characteristics to the Roads in response to existing or new traffic and safety or other considerations;
 - d) Works consisting of activities needed to reinstate the Roads and reconstruct their structure or their right of way which has been damaged as a result of natural phenomena with imponderable consequences, such as strong storms, flooding, and earthquakes.

2. Interpretations

Throughout this tendering document:

The term "in writing" means communicated in written form (e.g. by mail, e-mail, and fax, including if specified in the **TDS**, distributed or received through electronic-procurement system used by the Procuring Entity) with proof of receipt;

if the context so requires, "singular" means "plural' and vice versa; and "Day" means calendar day, unless otherwise specified as a "Business Day." A Business Day is any day that is a working day of the Procuring Entity. It excludes the Procuring Entity's official public holidays.

3. Fraud and Corruption

- 3.1 The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset Disposal Act, 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 sub-contractors are not debarred from participating in public procurement proceedings.
- The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding collusive practices 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.
- 3.3 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 information that would in that respect give such firm any unfair competitive advantage over competing firms.
- 3.4 Tenderers shall permit and shall cause their agents (where 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, prequalification 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.

4 EligibleTenderers

- 4.1 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 agreement or with the intent to enter into 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 all business 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 JVmembers shall be specified in the **TDS**.
- 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.
- 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; or
 - b) Receives or has received any direct or indirect subsidy from another tenderer; or
 - c) Has the same legal representative as another tenderer; or
 - 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; or
 - 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; or
 - f) any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as a consultant for Contract implementation; or
 - 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 project specified in the **TDS** ITT 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
 - h) Has a close business or personal elationship with senior management or professional staff of the Procuring Entity who:
 - i) 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 conflict stemming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.
- A firm that is 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. A firm that is not a Tenderer or a JV member may participate as a subcontractor in more than one Tender.
- . A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT 4.9. 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 maybe. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub-consultants for any part of the Contract including related Services.
- 4.6 Tenderer that has been debarred from participating in public procurement shall be ineligible to be prequalified for a tender or be awarded a contract. The list of debarred firms and individuals is available from the website of PPRA www.ppra.go.ke_or email complaints@ppra.go.ke.

- 4.7 Tenderers that are state-owned enterprises or institutions in Kenya may be eligible to compete and be awarded a Contract(s) only if they can establish that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Procuring Entity.
- 4.8 Tenderer shall not be under suspension from Tendering by the Procuring Entity as the result of the operation of a Tender-Securing or Proposal-Securing Declaration.
- 4.9 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, if Kenya prohibits commercial relations with that country, or (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.
- 4.10 Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, subcontracts and labor) from national 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 in for this purpose is be provided in "SECTION III EVALUATION AND QUALIFICATION CRITERIA, Item 9".
- 4.11 Pursuant to the eligibility requirements of ITT 4.10, a tender is considered a foreign tenderer, if the tenderer is not registered in Kenya or if the tenderer is registered in Kenya and has less than 51 percent ownership by Kenyan citizens. JVs are considered as foreign tenderers if the individual member firms are not registered in Kenya or if are registered in Kenya and have less than 51 percent ownership by Kenyan citizens. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.
- 4.12 The National Construction Authority Act of Kenya requires that all local and foreign contractors be registered with the National Construction Authority and be issued with a Registration Certificate before they can undertake any construction works in Kenya. Registration for foreign contractors shall not be a condition for tender, but it shall be a condition of contract award and signature. A selected tenderer shall be given opportunity to register before such award and signature of contract. Application for registration with National Construction Authority may be accessed from the website www.nca.go.ke.
- 4.13 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 in accordance 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 websitewww.cak.go.ke
- 4.14 A Tenderer may be considered ineligible if he/she offers 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.
- 4.15 A Kenyan tenderer shall provide evidence of having fulfilled his/her tax obligations by producing a valid tax compliance or tax exemption certificate issued by the Kenya Revenue Authority.

5. Eligible Materials, Equipment, and Services

- The materials, equipment and services to be supplied under the Contract may have their origin in any eligible country and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Procuring Entity's request, Tenderers may be required to provide evidence of the origin of materials, equipment and services.
- For purposes of ITT 5.1 above, "origin" means the place where the materials and equipment are mined, grown, produced or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that is substantially different in its basic characteristics or in purpose or utility from its components.

B. Contents of Tendering Document

6 Sections of Tendering Document

6.1 The tendering document consists of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITT 10.

PART 1 - Tendering Procedures

Section I- Instructions to Tenderers (ITT) Section II-Tender Data Sheet (TDS) Section III- Evaluation and Qualification Criteria Section IV-Tendering Forms

PART 2 - Works and Services' Requirements

Section V - Specifications

PART3-Conditions of Contract and Contract Forms

Section VI - General Conditions of Contract Section VII - Special Conditions of Contract Section VIII-Contract Forms

- 6.2 The Invitation to Tender (ITT) or the notice to the prequalified Tenderers issued by the Procuring Entity is not part of the tendering document.
- 6.3 Unless obtained directly from the Procuring Entity, the Procuring Entity is not responsible for the completeness of the tendering document, responses to requests for clarification, the minutes of the pre-Tender meeting (if any), or Addenda to the tendering document in accordance with ITT 10. In case of any contradiction, documents obtained directly from the Procuring Entity shall prevail.
- 6.4 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the tendering document and to furnish with its Tender all information and documentation as is required by the tendering document.

7 Site Visit

7.1 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the site of the works and its surroundings and obtain all information that may be necessary for preparing the Tender and entering into a contract for the Services. The costs of visiting the Site shall be at the Tenderer's own expense.

8 Pre-Tender Meeting and a pre-arranged pretender site visit

- 8.1 The Procuring Entity shall specify in the **TDS** if a pre-tender conference will be held, when and where. The Procuring Entity shall also specify in the **TDS** if a pre-arranged pretender visit of the site of the works will be held and when. The Tenderer's designated representative is invited to attend a pre-arranged pretender visit of the site of the works. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 8.2 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.
- 8.3 Minutes of the pre-Tender meeting and the pre-arranged pretender visit of the site of the works, 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 in accordance with ITT 6.3. Minutes shall not identify the source of the questions asked.
- 8.4 The Procuring Entity shall also promptly publish anonymized (no names) Minutes of the pre-Tender meeting and the pre-arranged pretender visit of the site of the works at the web page identified in the **TDS**. Any modification to the Tender Documents that may become necessary as a result of the pre-Tender meeting shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 10 and not through the minutes of the pre-Tender meeting. Nonattendance at the pre-Tender meeting will not be a cause for disqualification of a Tenderer.

9 Clarification of Tender Documents

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 meeting and the pre-arranged pretender visit of the site of the works if provided for in accordance with ITT 8.4. 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** prior 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 ITT 6.3, 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 appropriately following the procedure under ITT 10.

10 Amendment of Tendering Document

- 10.1 At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the Tendering document by issuing addenda.
- 10.2 Any addendum issued shall be part of the tendering document and shall be communicated in writing to all who have obtained the tendering document from the Procuring Entity in accordance with ITT 6.3. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's website in accordance with ITT 8.4.
- 10.3 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity shall extend, as necessary, the deadline for submission of Tenders, in accordance with ITT 24.2 below.

C. Preparation of Tenders

11 Cost of Tendering

11.1 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.

12 Language of Tender

12.1 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 translation of the relevant passages in the English language, in which case, for purposes of interpretation of the Tender, such translation shall govern.

13 Documents Comprising the Tender

- 13.1 The Tender shall comprise the following:
 - ^a Form of Tender prepared in accordance with ITT 14;
 - b Schedules, including priced Bills of Quantities completed in accordance with ITT 14 and ITT 16;
 - ^c Tender Security or Tender-Securing Declaration, in accordance with ITT 21.1;
 - d Alternative Tender, if permissible, in accordance with ITT 15;
 - Authorization: written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordance with ITT 22.3;
 - qualifications: documentary evidence in accordance with ITT 19 establishing the Tenderer's qualifications, or continued qualified status, as the case may be, to perform the Contract if its Tender is accepted;
 - g Conformity: a technical proposal in accordance with ITT 18;
 - h Any other document required in the **TDS**.

- In addition to the requirements under ITT 13.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a Form 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 agreement.
- 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.

14 Form of Tender, and Schedules

14.1 The Form of Tender and Schedules, including the Bills 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. All blank spaces shall be filled in with the information requested. The Tenderer chronologically serialize all pages of the tender documents submitted.

15 Alternative Tenders

- 15.1 Unless otherwise indicated in the **TDS**, alternative Tenders shall not be considered.
- 15.2 When alternative times for reaching the required Service Levels or for the completion of Rehabilitation or Improvement Works are explicitly invited, a statement to that effect will be included in the **TDS**, as will the method of evaluating different times for completion.
- 15.3 Except as provided under ITT 15.4 below, Tenderers wishing to offer technical alternatives to the requirements of the tendering document must first price the Procuring Entity's design as described in the tendering document 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 Best Evaluated Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.
- When specified in the **TDS**, Tenderers are permitted to submit alternative technical solutions for specified parts of the Rehabilitation and/or Improvement Works, and such parts will be identified in the **TDS**, as will the method for their evaluating, and described in Section VII, Works and Services' Requirements.

16 Tender Prices and Discounts

- The prices and discounts quoted by the Tenderer in the Form of Tender and in the Bills of Quantities shall conform to the requirements specified below.
- The Tenderer shall fill in rates and prices for all items of the Works and Services described in the Bills of Quantities. Items against which no rate or price is entered by the Tenderer will not be paid for by the Procuring Entity when executed and shall be deemed covered by the rates for other items and prices in the Bills 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 item quoted by substantially responsive Tenderers will be added to the Tender price and the equivalent total cost of the Tender so determined will be used for price comparison.
- The price to be quoted in the Form of Tender, in accordance with ITT 14.1, shall be the total price of the Tender, excluding any discounts offered.
- The Tenderer shall quote any discounts and the methodology for their application in the Form of Tender, in accordance with ITT 16.1.
- Unless otherwise provided in the **TDS** and the Contract, the rates and prices quoted by the Tenderer are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract. 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.

- If so indicated in ITT 1.1, Tenders are being invited for individual lots (contracts) or for any combination of lots (packages). Tenderers wishing to offer any price reduction for the award of more than one Contract shall specify in their tender the 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) are submitted and opened at the same time.
- All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 28 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.

17 Currencies of Tender and Payment

- The currency (ies) of the Tender and the currency (ies) of payments shall be the same and shall be as specified in the **TDS**.
- Tenderers may be required by the Procuring Entity to justify, to the Procuring Entity's satisfaction, their foreign currency requirements, and to substantiate that the amounts shown in the Summary of Payment Currency Schedule, in which case a detailed breakdown of the foreign currency requirements shall be provided by Tenderers.

18 Documents Comprising the Technical Proposal

The Tenderer shall furnish a technical proposal (if so required) including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Tendering Forms, in sufficient detail to demonstrate the adequacy of the Tenderers' proposal to meet the work and services' requirements and the completion time.

19 Documents Establishing the Qualifications of the Tenderer

- To establish Tenderer's eligibility in accordance with ITT 4, Tenderers shall complete the Form of Tender, included in Section IV, Tendering Forms.
- 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, Tendering Forms.
- If a margin of preference applies as specified in accordance with ITT 36.1, domestic Tenderers, individually or in joint ventures, applying for eligibility for domestic preference shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 36.1.
- 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, a particular contractor or group of contractors 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.
- The purpose of the information described in ITT 19.4 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.
- The Tenderer shall provide further documentary proof, information or authorizations that the Procuring Entity may request in relation to ownership and control which information on any changes to the information which was provided by the tenderer under ITT 19.4. The obligations to require this information shall 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.
- 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.

If a tenderer fails to submit the information required by these requirements, its tenderer 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.

16.17 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 be disqualified from the procurement process,
- ii) If the contract has been awarded to that tenderer, the contract award will be set aside,
- iii) The tenderer will be referred to the relevant law enforcement authorities for investigation of whether the tenderer or any other persons have committed any criminal offence.

If a tenderer submits information pursuant to these requirements that is incomplete, inaccurate or out-of-date, or attempts to obstruct the verification process, then the consequences ITT 19.9 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 tenderer.

20 Period of Validity of Tenders

- Tenders shall remain valid for the 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 24). A Tender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.
- 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 shall be made in writing. If a Tender Security is requested in accordance with ITT 21, 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, except as provided in ITT 26.3.

21 Tender Security

- 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**.
- 21.1 A Tender-Securing Declaration shall use the form included in Section IV, Tendering Forms.
- 21.2 The Tender Security shall be a demand guarantee at the Tenderer's option, in any of the following forms:
 - 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; or
 - iv. a guarantee issued by a financial institution approved and licensed by the Central Bank of Kenya, from a reputable source, and an eligible country.
 - v. Other forms of Security as specified in the **TDS**.
- If the unconditional guarantee is issued by a non-bank financial institution located outside Kenya, the issuing non-bank financial institution shall have a correspondent financial institution located in Kenya to make it enforceable unless the Procuring Entity has agreed in writing, prior to tender submission, that a correspondent financial institution is not required. In the case of a bank guarantee, the Tender Security shall be submitted either using the Tender Security Form included in Section IV, Tendering Forms, or in another substantially similar format approved by the Procuring Entity prior to Tender submission. 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 24.2.

- If a Tender Security or Tender-Securing Declaration is specified pursuant to ITT 21.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Procuring Entity as non-responsive.
- If a Tender Security is specified pursuant to ITT 21.1, 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. The Procuring Entity shall also promptly return the tender security to the tenderers where the procurement proceedings are terminated, all tenders were determined non-responsive or a bidder declines to extend tender validity period.
- 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.
- 21.7 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 the Form of Tender or any extension thereto provided by the Tenderer; or
 - ь if the successful Tenderer fails to:
 - i. sign the Contract in accordance with ITT 48; or
 - ii. furnish a performance security.
- Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA that PPRA debars the Tenderer from participating in public procurement as provided in the law.
- 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 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 Form of intent referred to in ITT 4.1 and ITT 13.2.

22 Format and Signing of Tender

- The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 13and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 15, 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.
- 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.
- 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.
- 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.
- Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

D. Submission and Opening of Tenders

23 Sealing and Marking of Tenders

21.15 Depending on the sizes or quantities or weight of the tender documents, a tenderer may use an

envelope, package or container. 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 13; and
- b. in an envelope or package or container marked "COPIES", all required copies of the Tender; and
- c. if alternative Tenders are permitted in accordance with ITT 15, and if relevant:
 - i. in an envelope or package or container marked "ORIGINAL ALTERNATIVE TENDER", the alternative Tender; and
 - ii. in the envelope or package or container marked "COPIES-ALTERNATIVE TENDER", all required copies of the alternative Tender.

21.16 The inner envelopes or packages or containers shall:

- a Bear the name and address of the Procuring Entity.
- ь Bear the name and address of the Tenderer; and
- Bear the name and Reference number of the Tender.

21.17 Where a tender package or container cannot fit in the tender box, the procuring entity shall:

- a Specify in the **TDS** where such documents should be received.
- Maintain a record of tenders received and issue acknowledgement receipt note to each tenderer specifying time and date of receipt.
- c Ensure all tenders received are handed over to the tender opening committee for opening at the specified opening place and time.
- If all envelopes are not sealed and marked as required, the Procuring Entity will assume no responsibility for the misplacement or premature opening of the Tender. Tenders that are misplaced or opened prematurely will not be accepted.

24 Deadline for Submission of Tenders

- Tenders must be received by the Procuring Entity at the address and no later than the date and time indicated 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**.
- The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the tendering document in accordance with ITT 10, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

25 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.

26 Withdrawal, Substitution, and Modification of Tenders

- 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 must be:
 - 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
- Received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT 22.
- 21.22 Tenders requested to be withdrawn in accordance with ITT 24.1 shall be returned unopened to the Tenderers.
- 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 Form or any extension thereof.

27 Tender Opening

- Except in the cases specified in ITT 23 and ITT 24.2, the Procuring Entity shall publicly open and read out in accordance with this ITT all Tenders received by the deadline, at the date, time and place specified in the **TDS**, in the presence of Tenderers' designated representatives and anyone 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**.
- First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope 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.
- Next, 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.
- Next, 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 authorization to request the modification and is read out at Tender opening.
- Next, 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, if required; and any other details as the Procuring Entity may consider appropriate.
- Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further. The Form of Tender and the Bill of Quantities are to be initialed by representatives of the Procuring Entity attending Tender opening in the manner specified in the **TDS**.
- The Procuring Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 23.1).
- 21.31 The Procuring Entity shall prepare a record of the Tender opening that shall include, as a minimum:
 - i. The name of the Tenderer and whether there is a withdrawal, substitution, or modification;
 - ii. The Tender Price, per lot (contract) if applicable, including any discounts;
 - iii. Any alternative Tenders;
 - iv. The presence or absence of a Tender Security, if one was required.
 - v. Number of pages of each tender document submitted
- The Tenderers' representatives who are present shall be requested to sign the record. The omission of a Tenderer's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Tenderers. A copy of the tender opening register shall be issued to a Tenderer upon request

E. Evaluation and Comparison of Tenders

28 Confidentiality

- 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 such process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 43.
- 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.
- Notwithstanding ITT 28.2, from the time of Tender opening to the time of Contract award, if any Tenderer wishes to contact the Procuring Entity on any matter related to the Tendering process, it may do so in writing.

29 Clarification of Tenders

- 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. Any clarification submitted by a Tenderer that is not in response to a request by the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change in the prices or substance of the Tender shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Procuring Entity in the evaluation of the Tenders, in accordance with ITT 33.
- If a Tenderer does not provide clarifications of its Tender by the date and time set in the Contracting Agency's request for clarification, its Tender may be rejected.

30 Deviations, Reservations, and Omissions

- 29.3 During the evaluation of Tenders, the following definitions apply:
 - ^a "Deviation" is a departure from the requirements specified in the tendering document; "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the tendering document; and
 - ^b "Omission" is the failure to submit part or all of the information or documentation required in the tendering document.

31 Determination of Responsiveness

- The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of the Tender itself, as defined in ITT 13.
- A substantially responsive Tender is one that meets the requirements of the tendering document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
 - a. If accepted, would:
 - i. Affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or
 - ii. Limit in any substantial way, in consistent with the tendering document, the Procuring Entity's rights or the Tenderer's obligations under the proposed Contract; or
 - b. if rectified, would unfairly affect the competitive position of other Tenderers presenting substantially responsive Tenders.
- The Procuring Entity shall examine the technical aspects of the Tender submitted in accordance with ITT18, Technical Proposal, in particular, to confirm that all requirements of Section VII, Specifications for Works and Services have been met without any material deviation, reservation or omission.
- ^{29.7} If a Tender is not substantially responsive to the requirements of the tendering 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.

32 Non material Non-conformities

29.8 Provided that a Tender is substantially responsive, the Procuring Entity may waive any non-

conformities in the Tender.

- 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 nonmaterial 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
- Provided that a Tender is substantially responsive, the Procuring Entity shall rectify nonmaterial 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**.

33 Correction of Arithmetical Errors

- The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in anyway by any person or entity.
- 29.12 Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis:
 - 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.
 - 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
 - If there is a discrepancy between words and figures, the amount in words shall prevail
- 29.13 Tenderers shall be notified of any error detected in their bid during the notification of award.

34 Conversion to Single Currency

^{29.14} For evaluation and comparison purposes, the currency (ies) of the Tender shall be converted into a single currency which is Kenya Shillings. The source of the exchange rates shall be the Central Bank of Kenya.

35 Nominated Subcontractors

- 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.
- Tenderers may propose subcontracting 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 their parts of the Works.
- The 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** as can be met by subcontractors referred to here after 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.

36 Margin of Preference and Reservations

A margin of preference on local contractors 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.

- A margin of preference shall not be allowed unless it is specified so in the **TDS**.
- Contracts procured on basis of international competitive tendering shall not be subject to reservations exclusive to specific groups as provided in ITT 36.5.
- An individual firm is considered a Kenyan tenderer for purposes of the margin of preference if it is registered in Kenya, has more than 51 percent ownership by nationals of Kenya, and if it does not subcontract more than 10 percent of the contract price, excluding provisional sums, to foreign contractors. JVs are considered as Kenyan Tenderer and eligible for domestic preference only if the individual member firms are registered in Kenya or have more than 51 percent ownership by nationals of Kenya, and the JV shall be registered in Kenya. The JV shall not subcontract more than 10 percent of the contract price, excluding provisional sums, to foreign firms.
- 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 a competent authority, 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 to more 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.

37 Evaluation of Tenders

- 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 Best Evaluated Tender in accordance with ITT 39.
- 35.8 To evaluate a Tender, the Procuring Entity shall consider the following:
 - ^a Price adjustment due to discounts offered in accordance with ITT 16.4;
 - b Price adjustment due to quantifiable non material non-conformities in accordance with ITT 32.3;
 - c converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 34; and
 - any additional evaluation factors specified in the **TDS** and Section III, Evaluation and Qualification Criteria.
- 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.
- In the case of multiple contracts or lots, Tenderers are allowed to tender for one or more lots and the methodology to determine the lowest evaluated cost of the lot (contract) and for combinations, including any discounts offered in the Form of Tender, is specified in Section III, Evaluation and Qualification Criteria.
- The price of the Rehabilitation and Improvement Works included in each Tender shall not be higher than the threshold indicated in the **TDS**. If the Tenderer estimates that its costs for the Rehabilitation and Improvement Works are higher than the threshold indicated in the **TDS**, it shall include the portion above the threshold in its price for the Maintenance Services. If the Tender price in the Best Evaluated Tender is above the threshold indicated in the **TDS** for the Rehabilitation and Improvement Works, the Procuring Entity may reject the Tender.

38 Comparison of Tenders

- The Procuring Entity shall compare the evaluated costs of all substantially responsive Tenders in accordance with ITT 34.2 to determine the Tender that has the lowest evaluated cost.
- 38.2 After application of the criteria established in ITT 37.1 to ITT 37.5, the Evaluated Tender Price for comparison of Tenders will be:
 - a The lump-sum price offered by the Tenderer for the Maintenance Services; plus
 - The lump-sum price offered by the Tenderer for the Rehabilitation Works, if the tendering document requires prices for this type of works; plus

- the total price of the priced Bill of Quantities for the Improvement Works, if the tendering document requires prices for this type of works; plus
- d the total price of the priced Bill of Quantities for the Emergency Works.

39 Abnormally Low Tenders

- 39.1 An Abnormally Low Tender is one where the Tender price, in combination with other constituent elements of the Tender, appears unreasonably low to the extent that the Tender price raises material concerns as to the capability of the Tenderer to perform the Contract for the offered Tender price.
- 39.2 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 tendering document.
- 39.3 After evaluation of the price analyses, in the event that the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the Contract for the offered Tender Price, the Procuring Entity shall reject the Tender.

40 Abnormally High Tenders

- An abnormally high 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.
- 40.2 In case of an abnormally high tender price, the Procuring Entity shall make a survey of the market prices, check if 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:
 - If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may 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.
- 40.3 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.

41 Unbalanced Tenders or Front Loaded

- 41.1 If the Tender that is evaluated as the lowest evaluated cost is, in the Procuring Entity's opinion, seriously unbalanced or front loaded 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 tendering document.
- 41.2 After the evaluation of the information and detailed price analyses presented by the Tenderer, the Procuring Entity may as appropriate:
 - a) Accept the Tender; or
 - b) Require that the amount of the Performance Security be increased at the expense of the Tenderer to a level not exceeding 20% of the Contract price; or
 - c) Reject the Tender.

42 Qualification of the Tenderer

- 42.1 The Procuring Entity shall determine to its satisfaction whether the 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 or, if prequalification has taken place, continues to be eligible and continues to meet the qualifying criteria.
- 42.2 The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 19.2. 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 Subcontractors, if permitted in **TDS** when prequalification has not taken place) or any other firm(s) different from the Tenderer.
- 42.3 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 next lowest evaluated Tender to make a similar determination of that Tenderer's qualifications to perform satisfactorily.

43 Lowest Evaluated Tender

- 43.1 Having compared the evaluated costs of Tenders, the Procuring Entity shall determine the Best Evaluated Tender. The Best 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 tendering document; and
 - b) The lowest evaluated cost.

44 Procuring Entity's Right to Accept Any Tender, and to Reject Any or All Tenders

44.1 The Procuring Entity reserves the right to accept or reject any Tender, and to annul the Tendering process and reject all Tenders at any time prior to contract award, without thereby incurring any liability to Tenderers. In case of annulment, all Tenderers shall be notified with reasons and all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.

45 Notice of Intention to enter in to a Contract

- 45.1 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 © above already reveals the reason;
 - d) The expiry date of the Standstill Period; and
 - e) Instructions on how to request a debriefing and/or submit a complaint during the standstill period;

46 Standstill Period

- 46.1 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 shall not apply. Where only one Tender is submitted, the Standstill Period shall not apply.
- 46.2 Where a Standstill Period applies, it shall commence 100when the Procuring Entity has transmitted to each Tenderer the Notification of Intention to Enter into a Contract with the successful Tenderer.

47 Debriefing by the Procuring Entity

47.1 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.

45.2 Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending such a debriefing meeting.

F. Contract Negotiations and Award of Contract

48 Negotiations

- 48.1 Before signature of contract, the procuring Entity may conduct negotiations with the best evaluated tenderer. The negotiations will be held at the date and address indicated in the **TDS** with the Tender's Representatives who must have written power of attorney to negotiate a Contract on behalf of the Tenderer.
- 48.2 The Procuring Entity shall prepare minutes of negotiations that are signed by the Procuring Entity and the Tender's authorized representative.
- 48.3 The negotiations include discussions of the Schedule of Requirements, the proposed methodology, the Procuring Entity's inputs, the Special Conditions of the Contract, and finalizing the "Works and Services' Requirements" part of the Contract. These discussions shall not substantially alter the original scope of services or the terms of the contract, lest the quality of the final product, its price, or the relevance of the initial evaluation be affected.
- 48.4 The financial negotiations include the clarification of the tax liability in Kenya and how it should be reflected in the Contract. If the selection method included cost as a factor in the evaluation, the total price stated in the Financial Proposal for a Lump-Sum contract shall not be negotiated. The Procuring Entity may ask for clarifications and, if the costs are very high, ask to change the rates.
- 48.5 The negotiations are concluded with a review of the finalized draft Contract, which then shall be initialed by the Procuring Entity and the Tender's authorized representative. If the negotiations fail, the Procuring Entity shall inform the Tender in writing of all pending issues and disagreements and provide a final opportunity to the Tenderer to respond. If disagreement persists, the Procuring Entity shall terminate the negotiations informing the Tenderer of the reasons for doing so. The Procuring Entity will invite the next-ranked Tenderer to negotiate a Contract. Once the Procuring Entity commences negotiations with the next-ranked Tenderer, the Procuring Entity shall not reopen the earlier negotiations.

49 Letter of Award

49.1 Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT 44.1, upon addressing a complaint that has been filed within 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.

50 Signing of Contract

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

51 Performance Security

51.1 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 if required in the **TDS**, using for that purpose the Performance Security Forms included in Section VIII, Contract Forms, or another form acceptable to the Procuring Entity. If the Performance Security furnished by the successful Tenderer is in the form of a bond, it shall be issued by a bonding or insurance company that has been verified by

the successful Tenderer to be acceptable to the Procuring Entity. A foreign institution providing a bond shall have a correspondent financial institution located in Kenya, unless the Procuring Entity has agreed in writing that a correspondent financial institution is not required.

51.2 Failure of the successful Tenderer to submit the above-mentioned Performance Security 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.

52 Publication of Procurement Contract

- 52.1 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 method used;
 - c) The name of the successful Tenderer, the final total contract price, the contract duration.
 - d) Dates of signature, commencement and completion of contract; names of all Tenderers that submitted Tenders, and their Tender prices as read out at Tender opening.

53 Procurement Related Complaints and Administrative Review

- 53.1 The procedures for making a Procurement-related Complaint are as specified in the **TDS**.
- 53.2 A request for administrative review shall be made in the form provided under contract forms.

13.3

SECTION II - TENDER DATA SHEET (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.

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS		
	A. General		
ITT 1.1	The reference number of the Invitation to Tender is: KWS/OT/RMLF/12/2021-2022		
	The Procuring Entity is: KENYA WILDLIFE SERVICE		
	The Road is: KITANI – MAKTAU – L. JIPE UTW1 ROAD		
	Improvement Works <u>are</u> required.		
	The sections of the Road(s) subject to Improvement Works are: Kitani – Maktau – L. Jipe Road		
ITT 2.1 (a)	Tenderers are <i>Not Allowed</i> to submit Tenders electronically		
ITT 4.1	Maximum number of members in the JV shall be: <i>Joint Ventures shall not be</i>		
	allowed		
B. Contents of	FenderDocument		
8.1	 (A) There shall be no pre-arranged pretender site visit. (B) A Pre-Tender meeting <i>shall</i> take place as follows: Date: 6th October 2021 		
	Time: 10:00 am Place: In compliance with the Covid-19 measures and guidelines issued by the Ministry of Health, the meeting shall be VIRTUAL .		
	NOTE: In order to participate in the Virtual Pre-tender meeting, you are required to submit your email contacts to hps@kws.go.ke by filling Form of intent to participate in pre-tender meeting. This form must be submitted three (3) days before the PRE TENDER MEETING for the purposes of recording / registration and planning. This form is included in the tender document under Section IV-Supplementary Information Schedule 1		
ITT 8.2	The Tenderer will submit any questions in writing, to reach Kenya Wildlife Service not later than 3 days prior to the pre tender meeting.		
ITT 8.4	The minutes of the pre-tender meeting will be published on <u>www.kws.go.ke</u>		
ITT 9.1	For Clarification of Tender purposes, for obtaining further information and for purchasing tender documents, the Procuring Entity's address is		
	Kenya Wildlife Service Physical address for hand Courier Delivery Shall be the office of Head Supply Chain Management located at Ndovu Court 1st Floor Kenya Wildlife Service Headquarters located along Lang'ata Road.		
	Postal address is Kenya Wildlife Service Headquarters located along Lang'ata Road, P.O. Box 40241-00100, NAIROBI, KENYA		
	Contact person: Head Supply Chain Management, -Kenya Wildlife Service, Telephone number 0202379407 Email hps@kws.go.ke .		
	;		
C. Preparation o	f Tenders		
ITP 13.1 (h)	The Tenderer shall submit the following additional documents in its Tender:		
(11)	The renderer shan submit the ronowing additional documents in its render.		

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS			
Tre charge	i) Copy of Certificate of Incorporation/Business Registration name under the Companies Act or Partnership Deed duly Certified by a Commissioner of Oaths			
	ii) A current copy of Form CR12 for limited companies issued by the Registrar of Companies that indicates the ownership of the company (not older than 12 months, as at the time of the tender Closing). Form CR12 shall be duly certified by a Commissioner of Oaths. This should be provided with Identification documents of all directors listed on the CR12 (ID or Passport).			
	iii) Copy of a valid Tax Compliance Certificate from Kenya Revenue Authority (KRA) as at the time of tender opening/closing.			
	 iv) Valid current annual NCA practicing license for either category 5, 4, 3, 2 or 1. v) Tenderers with ongoing works with KWS that have not been completed will not be eligible for bidding in these tenders and will be disqualified. 			
	Note All documents certified by a commissioner of oaths, Must be original copies duly stamped and signed with the date of certification stipulated.			
ITT 14.1	i) All alterations made on the Form of tender and Schedules in the tender document must be signed by authorized person(s).All the pages of the bid document MUST be chronologically serialized. Tenderers who fail to			
	comply with this criterion will be disqualified.			
ITT 15.1	Alternative Tenders shall not be considered.			
ITT 15.2	Alternative times for reaching the required Service Levels and for the completion of the Rehabilitation and/or Improvement Works shall not be permitted.			
ITT 15.4	Alternative technical solutions for the Rehabilitation and/or Improvement Works shall be permitted.			
ITT 16.1	The price estimated of works is Kenya Shillings Thirty-Two Million, Eighty Nine Thousand, Four Hundred and Thirty TwoOnly (KES 32,089,432.00)			
ITT 16.5	The prices quoted by the Tenderer shall be fixed			
ITT 17.1	Foreign currency requirements not allowed.			
ITT 20.1	The Tender validity period shall be 126 days			
ITT 21.1	A Tender Security <i>shall be</i> required. A Tender-Securing Declaration <i>shall not be</i> required. Tender Security amount shall be KES600, 000.00 (Six Hundred Thousand Shillings Only).			
ITT 21.3 (v)	Other types of acceptable securities: NONE			
ITT 22.1	The tenderer Must submit One copy of the bid document in addition to the original.			
ITT 21.12 & ITT 22.3	The written confirmation of authorization to sign on behalf of the Tenderer shall be a Written Power of Attorney.			
ITT 21.4	Any inter-lineation, erasures, or overwriting MUST be signed or initialed by the person authorized to sign the Tender.			
D. Submission ar	nd Opening of Tenders			
ITT 24.1	(A) For <u>Tender submission purposes</u> only, The address is:			
	Director General,			
	Kenya Wildlife Service			
	P.O Box 40241-00100,			
	Nairobi Physical address for: -			
	i. Hand Delivery Shall be deposited in the Tender Box located at, Kenya Wildlife Service Headquarters, Main Reception, along Lang'ata Road			
	ii. Courier delivery shall be registered at the office of Head Supply Chain Management located at Ndovu Court 1 st Floor Kenya Wildlife Service			

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS	
	Headquarters along Lang'ata Road.	
	Date and time for submission of Tenders 1000hrs on or before 26 th October 2021 Tenders shall not be submitted electronically.	
ITT 27.1	The Tender opening <i>shall</i> take place as follows:	
	Venue: Kenya Wildlife Service, Veterinery Conference Room,	
ITT 27.6	The Form of Tender and priced Bills of QuantitiesSHALL [be initialed by representatives of the Procuring Entity attending Tender opening. If initialization is required, it shall be conducted as follows: The form of tender Only shall be initialed	
E. Evaluation and	d Comparison of Tenders	
ITT 32.3	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, Kenya Wildlife Service shall use its Lowest estimate.	
ITT 33.2	The error shall be considered a major deviation that leads to disqualification of the tender if the percentage of the error (error over the tender price quoted) is: more than 0%	
ITT 34.1	The currency that shall be used for Tender evaluation and comparison purposes to convert at the selling exchange rate all Tender prices expressed in various currencies into a single currency is: Kenya Shillings	
ITT 35.1	The Procuring Entity does not intend to execute any specific elements of the Works by subcontractors selected/nominated by the Procuring Entity.	
ITT 35.2	The volume of works that can be subcontracted is 0% of the total contract price.	
ITT 35.3	The subcontractor's qualifications shall/shall not (<i>select one</i>) be used by the Tenderer to qualify for the Works. NOT APPLICABLE.	
ITT 36.2	A margin of preference SHALL NOT apply.	
ITT 37.2 (d)	Additional requirements apply. These are detailed in the evaluation criteria in Section III, Evaluation and Qualification Criteria. The submitted document MUST be book or tape bound	
ITT 44.2	Where prequalification has not taken place, the Procuring Entity shall not permit that specific experience for parts of the Works and Service may be met by Specialized Subcontractors.	
ITT 51.1	 Additional requirements are: as provided An Acceptance Letter within fourteen (14) days from the date of notification of award. An irrevocable and unconditional Performance Bank Guarantee equivalent to Five Percent (5%) of the contract price awarded as per the format stipulated in the tender document; Contractors All Risk Policy and other relevant insurance policies necessary during the execution of the works; Programme of works showing the general methods, order timing and sequence for all activities of the works; Detailed Cash Flow projection for the entire contract period. 	
ITT 53.1	The procedures for making a Procurement-related Complaint are available from the PPRA website info@ppra.go.ke or complaints@ppra.go.ke . If a Tenderer wishes to make a Procurement-related Complaint, the Tenderer should submit its complaint following these procedures, in writing (by the quickest means available, that is either by hand delivery or email)	

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS	
	to:	
	For the attention: George M Wambua	
	Title/position: Head Supply Chain Management	
	Procuring Entity: Kenya Wildlife Service	
	Email address: hps@kws.go.ke	
	In summary, a Procurement-related Complaint may challenge any of the following:	
	(i) The terms of the Tender Documents; and	
	(ii) The Procuring Entity's decision to award the contract.	

SECTION III- EVALUATION AND QUALIFICATION CRITERIA

General Provisions

1. General Provisions

- 1.1 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. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.
- 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 should use the Standard Tender Evaluation Document for Goods and Works for evaluating Tenders.

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. 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 requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements of "Part 2 – Procuring Entity's Works Requirements", including checking for tenders with unacceptable errors, abnormally low tenders, abnormally high tenders and tenders that are front loaded. The Standard Tender Evaluation Report for Goods and Works for evaluating Tenders provides clear guidelines on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be considered irresponsive and will not be considered further.

3. Assessment of adequacy of Technical Proposal with Requirements

Kenya Wildlife Service will evaluate the Technical Proposals of all irresponsive tenders using the following criteria, sub-criteria, and point system for the evaluation of the Technical Proposals:

- i) Adequacy and quality of the proposed methodology, and work plan in responding to the schedule of Requirements:
 - a) Technical approach and methodology
 - b) Organization and staffing
 - c) Total points for criterion
- ii) Transfer of knowledge (training) program (relevance of approach and methodology):
 - a) Relevance of training program
 - b) Training approach and methodology
 - c) Qualifications of experts and trainers
 - d) Total points for criterion

Tenderers who score less than the required pass will be automatically disqualified. Tenderers who pass the technical evaluation will be evaluated further.

4. Tender Evaluation (ITT 35)

Price evaluation: In addition to the criteria listed in ITT 35.2 (a) – (d) the following criteria shall apply:

Price evaluation: in addition to the criteria listed in ITT 35.2 (a) - (d) the following criteria shall apply:

- i) Alternative Completion Times, if permitted under ITT 13.2, will be evaluated as follows:
- ii) Alternative Technical Solutions for specified parts of the Works, if permitted under ITT 13.4, will be evaluated as follows:
- iii) Other Criteria; if permitted under ITT 35.2 (e):

5. Multiple Contracts

Multiple contracts will be permitted in accordance with ITT 35.4. Tenderers are evaluated on basis of Lots and the 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 contracts for all won Lots, provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the Lots. The tenderer will be awarded the combination of Lots for which the tenderer qualifies and the others will be considered for award to second lowest the tenderers.

OPTION 2

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

6. Alternative Tenders (ITT 13.1)

An alternative if permitted under ITT 13.1, will be evaluated as follows:

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

7. Margin of Preference

- 7.1 If the TDS so specifies, the Procuring Entity will grant a margin of preference of fifteen percent (15%) to be loaded one valuated price of the foreign tenderers, where the percentage of shareholding of Kenyan citizens is less than fifty-one percent (51%).
- 7.2 Contractors applying for such preference 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.
- 7.3 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 hold shares of over fifty one percent (51%).
 - ii) *Group B:* tenders offered by foreign Contractors and other Tenderers where Kenyan citizens hold shares of less than fifty one percent (51%).

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. If a tender from Group B is the lowest, an amount equal to the percentage indicated in Item 3.1 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. All tenders shall then be compared using new prices with added prices to Group B and the lowest evaluated tender from Group A. If the tender from Group A is still the lowest tender, it shall be selected for award. If not, the lowest evaluated tender from Group B based on the first evaluation price shall be selected.

8. Post qualification and Contract award (ITT 39), more specifically,

- a) In case the tender was subject to post-qualification, the contract shall be awarded to the lowest evaluated tenderer, subject to confirmation of prequalification data, if so required.
- b) Incase the tender was not subject to post-qualification, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to meeting each of the following conditions. In case the tender was not subject to post-qualification, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to meeting each of the following conditions.
 - 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 advance payment) sufficient to meet the construction cash flow of Kenya Shillings equivalent to 20% the Contract Sum.
 - ii) Minimum average annual construction turnover of Kenya Shillings 50Million, equivalent calculated as total certified payments received for contracts in progress and/or completed within the last 5 years.
 - iii) At least 2 of contract(s) of a similar nature executed within Kenya, or the East African Community or abroad, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of minimum value Kenya shillings 25Million equivalent.
 - iv) Contractor's Representative and Key Personnel, which are specified as
 - v) Contractors key equipment listed on the table "Contractor's Equipment" below and more specifically listed as

Table 1 Contractors Equipment

S/		Minimum Number		
No	Details of Equipment required by the Tender	Required for the Contract		
		Execution		
1.	Mobile Concrete Mixers and Vibrator	2		
2.	6 X 4 tippers payload 16 – 20 tones	4		
3.	Water tankers (18,000 – 20,000lts. capacity)	2		
4.	Wheeled loaders (2m3)	1		
5.	Motor graders (93 - 205kW)	2		
6.	Crawler Dozer (D6 and above) or Excavator	1		
7.	Self-propelled single Flat drum vibrating (10 tons)	1		

vi) Other conditions depending on their seriousness.

a) History of non-performing contracts:

Tenderer and each member of JV incase 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 **3** *years*. The required information shall be furnished in the appropriate form.

b) Pending Litigation

Financial position and prospective long-term profitability 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, in the last **3** *years*. All parties to the contract shall furnish the information in the appropriate form about any litigation or arbitration resulting from contracts completed or ongoing 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	Documents To be Completed and Submitted by the Tenderer	For KWS Use (Qualification met or Not Met)
1. PR	ELIMINARY EVAL	UATION CRITERIA		
1.	Nationality	Nationality in accordance with ITT 4.5	 Copy of National Identification Card / Passport A current copy of Form CR12 for limited companies issued by the Registrar of Companies that indicates the ownership of the company (not older than 12 months, as at the time of the tender Closing). Form CR12 shall be dully certified by a Commissioner of Oaths. This should be provided with Identification documents of all directors listed on the CR12 (ID or Passport). Note All documents certified by the Commissioner of Oaths must be signed, stamped and the date stipulated 	
2.	Conflict of Interest	No conflicts of interest in accordance with ITT 4.3	Form of Tender Part A of <u>Form of Tender</u>	
3.	Tax Obligations for Kenyan Tenderers	Has produced a current tax clearance certificate or tax exemption certificate issued by the Kenya Revenue Authority in accordance with ITT 4.14.	Form of Tender Valid Tax Compliance Certificate (Must be valid as at the date of tender Closing / Opening)	
4.	PPRA Eligibility	Not having been declared ineligible by the PPRA as described in ITT 4.6	Form of Tender Form SD1 of the Form of Tender,	
5.	State- owned Enterprise	Meets conditions of ITT 3.7	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 under ITT 5.1	Forms ELI – 1.1 and 1.2, with attachments	

1	2	3	4	5
Item No.	Qualification Subject	Qualification Requirement	Documents To be Completed and Submitted by the Tenderer	For KWS Use (Qualification met or Not Met)
7.	History of Non- Performing Contracts	Non-performance of a contract did not occur as a result of contractor default since last 3 years	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 Securing Declaration pursuant to ITT 19.10.	Form of Tender	
9.	Pending Litigation	Tender's financial position and prospective long-term profitability still sound according to criteria established in 3.1 and assuming that all pending litigation will NOT be resolved against the Tenderer.	Form CON – 2	
10.	History	No consistent history of court/arbitral award decisions against the Tenderer since last 3 years	Form CON – 2	
11.	Tender Security	ITT 21,	Form of Tender Security Provide original Tender Security in the format given in Form of Tender Security Properly fill, sign and stamp the Form of Tender Security	
12.	NCA practicing licence	ITT 13.1 (h)	Current annual NCA practicing licence for NCA Category 5, 4, 3, 2 and 1. valid as at the date of Tender opening	
13.	Certificate of Incorporation	ITT 13.1 (h)	Provide a duly Certified Copy of Incorporation Certificate / Registration of Business Name or Partnership Deed	
14.	Power of Attorney	Form of Tender & ITT 48.1	Duly Executed Power of Attorney-	

1	2	3	4	5
Item No.	Qualification Subject	Qualification Requirement	Documents To be Completed and Submitted by the Tenderer	For KWS Use (Qualification met or Not Met)
	Form of Tender	ITT 14	Properly fill, sign and stamp the Form of Tender which is inclusive of the following:-	
15.			 Confidential Business Questionnaire. 	
15.			 Certificate of Independent Tender Determination. 	
			Self-Declaration of the Tenderer.	
16.	Confidential Business Questionnaire	14	Part A of the Form of tender	
17.	Number of participation	As per Section I: Invitation To tender Clause (ii)	Tenderers will not be allowed to participate in more than one tender.	
18.	Completeness of the tender Document	ITT 13.1 (h)	Submit a complete set of tender documents as per the instruction to Tenderers and also ensure that all the forms BOQ and Schedules provided in the tender documents are properly filled for completeness	
19.	Serialization of Tender Document	ITT 13.1 (h)	All the pages of the bid document MUST be chronologically serialized.	
20.	Alterations on Form of tender and schedules	ITT 13.1 (h), ITT 21.12and ITT 21.14	All alterations made on the Form of tender and schedules must be signed by authorized person(s).	

Note

- All the above requirements must **Be Met** by the tenderer inorder to proceed to the Technical stage of the evaluation Process
- All documents certified by the Commissioner of Oaths **MUST** be signed, stamped and the date stipulated.
- And all forms **MUST** be properly filled, signed and stamped.

3. Assessment of adequacy of Technical Proposal with Requirements

Kenya Wildlife Service will evaluate the Technical Proposals of all responsive tenders using the following criteria, sub-criteria, and assessment system for the evaluation of the Technical Proposals:

TECHNICAL EVALUATION CRITERIA Part A

Item No.	Qualification Subject	Qualification Requirement	Documents To be Completed and Submitted by the Tenderer	For KWS (Qualification met Not Met)
(i) Financia	l Evaluation Criteria			
1	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 advance payment) sufficient to meet the construction cash flow requirements estimated as Kenya Shillings 20% of The Tender Sum equivalent for the subject contract(s) net of the Tenderer's other commitments. (ii) The Tenderers shall also demonstrate, to the satisfaction of Kenya Wildlife Service, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments. (iii) The audited balance sheets or, if not required by the laws of the Tenderer's country, other financial statements acceptable to Kenya Wildlife Service, for the last 3years shall be submitted and must demonstrate the current soundness of the Tenderer's financial position and indicate its prospective long-term profitability.	The tenderer to provide sources of funding meeting the requirements in the form of:- i) Sources of Finance The tenderer to provide sources of funding meeting the requirements in the form of:- • Line of Credit (Valid for the last 6 months from date of tender Opening/Closing) • Bank Statement (Current last 6 Months from date of tender Opening/Closing) • Unencumbered real assets (evidence in the form of duly certified (by registered valuer/ realtors) copy of: - title deed, recent Search and valuation report within the last 6 months). The real asset should be in the name of the tenderer or at least one of the directors. • Any other authorized credit facility accredited by relevant laws in Kenya(e.g. Youth fund, Sacco, Women Enterprise Fund e.t.c) The above sources of funding should either be cumulatively or individually equivalent to at least 20% of the Tender Sum, net of the Tenderer's other commitments. ii) Financial Ratio Provide fully filled signed and stamped computations of the financial ratios in Form FIN = 3.1The form to be signed by the auditor registered with ICPAK and one of the directors. Computation shall be made for the following ratios and marks awarded to each of the ratios: • Current Ratio (≥1) • Liquidity Ratio (≥1)	Met/Not Met

Return on Capital Employed (ROCE) ≥5%
iii) Audited Accounts.
Provide the above with all pages initialised and stamped by a practicing auditor registered with ICPAK (Auditor's practicing membership number must be indicated and a Valid practicing licence shall be provided) and One of the directors.

TECHNIC	TECHNICAL EVALUATION CRITERIA Part A Cont'				
Item No.	Qualification Subject	Qualification Requirement	Documents To be Completed and Submitted by the Tenderer	For KWS Use (Qualification met or Not Met)	
2	Average Annual Construction Turnover	Minimum average annual construction turnover of Kenya Shillings 50Million equivalent calculated as total certified payments received for contracts in progress and/or completed within the last 5 years, divided by 5 years	Properly fill, sign and stamp Form <u>FIN – 3.2</u> Attach duly certified copies of letters of Award and Completion Certificates/ Taking over Certificates for each project	Met/Not Met	
(ii) Past Ex	perience Evaluation Criter	ia			
1	General Construction Experience	Experience under construction contracts in the role of prime contractor, JV member, subcontractor, or management contractor for at least the last 5 years, starting 1st January 2016, with a cumulative value of at least Kenya Shillings 250Million	Fully fill sign and stamp Form <u>EXP – 4.1</u> Attach duly certified copies of letters of Award and Completion Certificates/ Taking over Certificates for each project Experience	Met/Not Met	
2	Specific Construction & Contract Management Experience	A minimum number of <i>two</i> (2) similar contracts each of minimum value Kenya shillings 25Million equivalent that have been satisfactorily and substantially completed as a prime contractor, joint venture	Fully fill sign and stamp Form $\underline{EXP-4.2}$ Attach duly certified copies of letters of Award and Completion Certificates/ Taking over Certificates for each project	Met/Not Met	

member,	management
contractor	or sub-contractor
between 1 st	January 2016 and
tender subr	nission deadline 26 th
October 20	21

TECHNICAL EVALUATION CRITERIA Part A Cont'					
Item No.	Qualification Subject	Qualification Requirement	Documents To be Completed and Submitted by the Tenderer	For KWS Use (Qualification met or Not Met)	
(iii) Equipi	ment Evaluation Criteria				
	Contractors key equipment	The bidder shall provide the major plants and equipment's by filling Form EQU. Bidder must attach evidence of ownership, Lease agreement or any rent / hiring arrangements.	 Properly fill, sign and stamp Form EQU and submit For Owned Equipments-Provide proof of Ownership in form of copies of NTSA TIMs Account Print Out including Log books or For Leased Equipments - Provide Lease Agreements with copies of NTSA TIMs Account Print Out including Log books. 		
			 For Rented/Hired Equipments-Provide Rent/Hire Agreements referenced to the tender with copies of NTSA TIMs Account Print Out including Log books. 		
			For Hired Equipments from Mechanical and Transport Department of MoTIHUD-Provide letter of commitment from MTD referenced to the tender including list of specific equipment relevant to the scope of works.		
	The table below shall be the	e minimum Equipment requirement	for this tender;		
	Details of Equipment requir	red Minimum Number Required for the Contract Execution	No. of equipment to be made Date of Arrival on Project (Days after commencement.)		
1	obile Concrete Mixers brator	and 2			
	X 4 tippers payload 16 – 20 ton				
	Vater tankers (18,000 – 20,00 apacity)	Olts. 1			
	Wheeled loaders (2m3)	1			
	Motor graders (93 - 205kW)	2			
E	rawler Dozer (D6 and above xcavator	1			
	elf-propelled single Flat d ibrating (10 tons)	Irum 2			

(i)	Contractors Representativ	ve/ Key Personnel					
No	Completeness and Responsiveness Criteria	Qualification Requirement		Key Staff			Max Scores
Kesponsiveness Criteria		 Duly filled signed and stamped Form PER. 1 and PER. 2 in the format provided containing the following attachments: Curriculum Vitae (CVs) of the Proposed Key Staff Duly stamped and signed certified 		and attach:- copies of Academic/Proffessional certificates and relevant testimonials for each of the staff Curriculum Vitae			3 Marks
		copies of Academic/Proffessional certificates and relevant testimonials. Note The Certification Must be original with the date of certification stipulated		Site Agent meets criteria	Minimum Qualification Dip in Civil Eng.	5 Marks	11 Marks
Contractor's Representative and Key Personnel	Representative and Key				Exp. 7Yrs and above	6 Marks	
	Personnel	-	Site Foreman meets criteria Site Surveyor	Minimum Dip in Civil Eng.	4 Marks	9 Marks 7 Marks	
				Exp.5Yrs and above	5 Marks		
					Minimum Dip. Cert in Survey and above		3 Marks
				meets criteria	Exp.3Yrs and above	4 Marks	
(ii)	Work Methodology Evalua	ation Criteria					
19		Mobilization Management Plan		Site Lay Out Plan		2 Marks	
	Work Execution		Material I	Mobilization	2 Marks		10.75
	Programme Site Org		Site Organ	Site Organization Chart			10 Marks
			Equipmer	nt Management Plan	2 Marks		

			Personnel Mobilization	2 Marks	
		Quality and Quantity	Methodology Statement	12 Marks	
	l I	Management	Proposals on Material Testing	8 Marks	
			Proposals on Measurements	4 Marks	26 Marks
			Photographic Plan	2 Marks	
	,	Work Scheduling	Work Programme Charts	8 Marks	
	Work Safety Management		Cash Flow Plan	6 Marks	14 Marks
		Work Safety Management	Traffic Control, and Accident Prevention	6 Marks	40.35
			Workers Safety	6 Marks	12 Marks
		Environmental and Social Manage	ement	8 Marks	8 Marks
Score Summa	ary				
Contractors Representative, Key personnel and Declaration					30 Marks
Work Execution Programme				70 Marks	
Total Score			100 Marks		
NOTE: Any	NOTE: Any additional information partaining to this tender that does not fit in the standard tender forms may be printed in indelible inly on the tenderor's stational				

NOTE: Any additional information pertaining to this tender that does not fit in the standard tender forms may be printed in indelible ink on the tenderer's stationery on its letterhead as long as it does not distort the information therein

Tenderers who do not attain the set minimum required passmark of **75%** in the **TECHNICAL EVALUATION CRITERIA part B** (above) will be deemed

non responsive

SECTION IV - TENDERING FORMS

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 and TENDERER'S ELIGIBILITY- CONFIDENTIAL BUSINESS QUESTIONNAIRE, CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION OF THE TENDERER, all attached to this Form of Tender.
- iv) The Form of Tender shall include the following Forms duly completed and signed by the Tenderer.
 - **A)** Tenderer's Eligibility- Confidential Business Questionnaire
 - **B)** Certificate of Independent Tender Determination
 - **C)** Self-Declaration of the Tenderer

FORM OF TENDER

Date of this Tender submission:	(DD-MM-YYYY)		
Invitation to Tender No.:			
Го:			

We, the undersigned, declare that:

- a) *No reservations:* We have examined and have no reservations to the tendering document, including Addenda issued in accordance with Instructions to Tenderers (ITT)
- **b)** *Eligibility:* We meet the eligibility *requirements* and have no conflict of interest in accordance with ITT4;
- c) *Tender-Securing* Declaration: *We* have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing Declaration or Proposal-Securing Declaration in Kenya in accordance with ITT 4.8.
- **d)** *Conformity:* We offer to *execute* in conformity with the tendering document and in accordance with the construction or service schedule the following Works:

[Insert one of the options below as appropriate]

e) Tender Price: The total price of our Tender, excluding any discounts offered in item (f) below is:

Description	Amount (in numbers)
(a) Maintenance Services in an amount of [amount in words] [name of currency].	
(b) Rehabilitation Works in an amount of [amount in words] [name of currency].	

A. $SUB-TOTAL = (a) + (b)$	
(d) Emergency Works in an amount of [amount in words] [name of currency].	
2. TOTAL = A + (d)	

f) Combined Price: We hereby confirm that our combined price for Rehabilitation Works and Improvement Works does not exceed the threshold given in the TDS ITT 34.5 which is [insert amount or percentage of the total contract price].

Or *Tender Price*: The total price, excluding any discounts offered in item (f) below is:

- **Discounts:** The *discounts* offered and the methodology for their application are:
 - *i*) The discounts offered are: [Specify in detail each discount offered.]
 - *ii*) 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];
- h) Tender Validity Period: Our Tender shall be valid for a period specified in TDS 18.1 (or as amended if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1 (or as amended if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- *i)* Performance Security: If our Tender is accepted, we commit to obtain a Performance Security in accordance with the tendering document;
- j) One Tender per Tenderer: We are not submitting any other Tender (s) as an individual Tenderer, and we are not participating in any other Tender(s) as a Joint Venture member or as a subcontractor, and meet the requirements of ITT 4.4, other than alternative Tenders submitted in accordance with ITT 13;
- k) Suspension and Debarment: We, along with any of our subcontractors, suppliers, consultants, 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 Procuring Entity. Further, we are not ineligible under Kenya laws or official regulations or pursuant to a decision of the United Nations Security Council;
- l) State-owned enterprise or institution: [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 ITT 4.7];
- m) Commissions, gratuities and fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the Tendering 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

(If none has been paid or is to be paid, indicate "none.").

- n) Binding Contract: We understand that this Tender, together with your written acceptance thereof included in your Form of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- o) Not Bound to Accept: We understand that you are not bound to accept the lowest evaluated cost Tender, the Best Evaluated Tender or any other Tender that you may receive;
- *p)* Fraud and Corruption: We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption;
- **q)** Collusive practices: We hereby certify and confirm that the tender is genuine, non-collusive 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.
- r) We undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from http://ntnt.treasury.go.ke during the procurement process and the execution of any resulting contract.
- s) 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.
 - **b)** Declaration and commitment to the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal.
- t) 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.

Name of the Tenderer: Name of the person duly authorized to sign the Tender on behalf of the Tenderer:				
Date signed day of, 2021				
Name in the capacity of				
Signed				
Duly authorized to sign the Tender for and on behalf of				
Dated on	day of			

(A) TENDERER'S ELIGIBILITY - CONFIDENTIAL BUSINESS QUESTIONNAIRE

Instruction to Tenderer

Tender is instructed 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.

a) Tenderer's details

	ITEM	DESCRIPTION
1 2	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 Contact Details of the Tenderer.	 Country City Location Building Floor Postal Address Name and email of contact person.
6	Current Trade License Registration Number and Expiring date	
7	Name, country and full address (<i>postal and physical addresses</i> , <i>email</i> , <i>and telephone number</i>) of Registering Body/Agency	
8	Description of Nature of Business	
9	Maximum value of business which the Tenderer handles.	
10	State if Tenders Company is listed in stock	
	exchange, give name and full address (postal	
	and physical addresses, email, and telephone	
	number) of	
	state which stock exchange	

Sole Proprietor , provide the following details.		
Name in full	_Age	
Nationality	_Country of Origin	
Citizenship	_	

c) **Partnership**, provide the following details.

	Names of Partners	Nationality	Citizenship	% Shares owned
1				
2				
3				

(D)	Registered Company, provide the following details.					
	i) Private or public Company					
	ii) State the nominal and i	ssued capital of the	Company-			
	Nominal Kenya Shillings (E	quivalent)				
	Issued Kenya Shillings (Equ	ivalent)				
	iii) Give details of Directors as follows.					
	Names of Director Nationality Citizenship % Shares owned					
1						
2						
3						

e) DISCLOSURE OF INTEREST - Interest of the Firm in the Procuring Entity.

i) Are there any person/persons inKenya Wildlife Service who has/have an interest or relationship in this firm? Yes/No.....

If yes, provide details as follows.

	ii jes, provide details as ronows.			
	Names of Person	Designation in the	Interest or Relationship with	
		Procuring Entity	Tenderer	
1				
2				
3				

ii) Conflict of Interest Disclosure

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
1	Tenderer is directly or indirectly controlled by or is under common control with another tenderer.		
2	Tenderer receives or has received any direct or indirect subsidy from another tenderer.		
3	Tenderer has the same legal representative as another tenderer		
4	Tender 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.		
5	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.		
6	Tenderer would be providing goods, works, non- consulting services or consulting services during implementation of the contract specified in this Tender Document.		
7	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		

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
	document or specifications of the Contract, and/or		
	the Tender evaluation process of such contract.		
8	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.		
9	Has the conflict stemming from such relationship		
	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?		

(f)	Certification

On behalf of the Tenderer, I certify that the information given above is consubmission.	nplete, current and accurate as at the date of
Full Name	
Title or Designation	
(Signature) (Date)	

(B) CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

I, the ı	ınder	ersigned, in submitting the accompanying Letter of Tender to Kenya Wildl			
rocpor	so to		iame and	number of	tender] in
respon	ise to	· · · · · · · · · · · · · · · · · · ·	 lame of Te	nderer] do he	 reby make
the fol	lowii	ring statements that I certify to be true and complete in every respect:			
I certi	y, or	on behalf of[Name	e of Tender	er] that:	
				_	
1.	I ha	ave read and I understand the contents of this Certificate;			
2.		nderstand that the Tender will be disqualified if this Certificate is found no spect;	t to be true	and complete	in every
3.		m the authorized representative of the Tenderer with authority to sign this onder on behalf of the Tenderer;	Certificate,	and to submi	t the
4.		r the purposes of this Certificate and the Tender, I understand that the word lividual or organization, other than the Tenderer, whether or not affiliated v			ide any
	a)	Has been requested to submit a Tender in response to this request for ter	nders;		
	b)	could potentially submit a tender in response to this request for tenders, abilities or experience;	based on th	heir qualificati	ions,
5.	The	e Tenderer discloses that [check one of the following, as applicable]:			
	a)	The Tenderer has arrived at the Tender independently from, and without agreement or arrangement with, any competitor;	t consultati	on, communio	cation,
6.		the Tenderer has entered into consultations, communications, agreem more competitors regarding this request for tenders, and the Tenderument(s), complete details thereof, including the names of the creasons for, such consultations, communications, agreements or arrange particular, without limiting the generality of paragraphs (5) (a) or (5) (b) almost a such communication, agreement or arrangement with any competitor	nderer discompetitors ements; bove, there	closes, in the and the natu	e attached
	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 specifically disclosed pursuant to paragraph (5) (b) above;	request for	r Tenders; exc	ept as
7.	rega requ	addition, there has been no consultation, communication, agreement or garding the quality, quantity, specifications or delivery particulars of the quest for tenders relates, except as specifically authorized by the proceedings of the processed pursuant to paragraph (5) (b) above;	e works or	r services to	which this
8.	indi Con	e terms of the Tender have not been, and will not be, knowingly discillirectly, to any competitor, prior to the date and time of the official tender ontract, whichever comes first, unless otherwise required by law or as ragraph (5) (b) above.	opening, c	or of the awar	ding of the
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 THE MATTER OF THE PUBLIC PROCUREMENT AND ASSET DISPOSAL ACT 2015

		Office Boxdo h	
1.		cary/ Chief Executive/Managing Director	•
		(Insert name of the Company) who is a	Bidder in respect of Tender
		on) for Kenya Wildlife Service and duly	
2.	THAT the aforesaid Bidder, its I procurement proceeding under I	Directors and subcontractors have not be Part IV of the Act.	en debarred from participating in
3.	THAT what is deponed to herein	a above is true to the best of my knowled	lge, information and belief.
(Title	 e)	(Signature)	(Date)
Bidde	r Official Stamp		

FORM SD2

SELF DECLARATION THAT THE TENDERER WILL NOT ENGAGE IN ANY CORRUPT OR FRAUDULENT PRACTICE

I,	of P. O. Boxbeing a resident of
	do hereby make a statement as follows: -
1.	THAT I am the Chief Executive/Managing Director/Principal Officer/Director of
2.	THAT the aforesaid Bidder, its servants and/or agents /subcontractors will not engage in any corrupt or fraudulent practice and has not been requested to pay any inducement to any member of the Board, Management, Staff and/or employees and/or agents of Kenya Wildlife Service which is the procuring entity.
3.	THAT the aforesaid Bidder, its servants and/or agents /subcontractors have not offered any inducement to any member of the Board, Management, Staff and/or employees and/or agents of Kenya Wildlife Service.
4.	THAT the aforesaid Bidder will not engage/has not engaged in any corrosive practice with other bidders participating in the subject tender
5.	THAT what is deponed to herein 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

l,	
	Act, 2015, Regulations and the Code of Ethics for persons my responsibilities under the Code.
I do hereby commit to abide by the provisions of the Code of Asset Disposal.	of Ethics for persons participating in Public Procurement and
Name of Authorized signatory	
Sign	
Position	
Office address	Telephone
E-mail	
Name of the Firm/Company	
Date	
(Company Seal/ Rubber Stamp where applicable)	
Witness	
Name	
Sign	
Date	

D) APPENDIX 1-FRAUD AND CORRUPTION

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

- 2.1 The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (applicants/proposers), Consultants, Contractors and Suppliers; any Sub-contractors, 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.
- 2.2 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:
 - 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 asset disposal proceeding;
 - A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;
 - 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;
 - The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;
 - An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity who has a conflict of interest with respect to a procurement
 - i. Shall not take part in the procurement proceedings;
 - ii. Shall not, after a procurement contract has been entered into, take part in any decision relating to the procurement or contract; and
 - iii. Shall not be a subcontract or for the bidder to whom was awarded contract, or a member of the group of bidders to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.
 - 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 with in his or her duties shall conflict of interest to the procuring entity;
 - 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 had a 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.
- 2.3 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 misrepresentation, 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;
- iv) "coercive practice" 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;
- v) "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 matters relevant 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 of a contract if PPRA determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, 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 sanction 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, records and other documents relating to the procurement process, selection and/or contract execution, and to have the audited by auditors appointed by the PPRA or any other appropriate authority appointed by Government of 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 declaring that they and all parties involved in the procurement process and contract execution have not engaged/will not engage in any corrupt or fraudulent practices.

TECHNICAL PROPOSAL

WORK EXECUTION PROGRAMME

Give a brief description of how you plan to carry out the works within the contract period. The Works execution programme should include all relevant information to the project. The information given should be clear, not flawed description and compliance to standard and special specification.

Note: Works Execution programme is different from form "programme of works referred in FIDIC and Standard Specification for Roads and Bridge Construction. The said "programme of works" is but part of Works Execution Programme (WEP).

The WEP will be used hand in hand with Supervision Check-list Manual and the Supervision Check-list sheet documents may be obtained electronically from the Website www.krb.go.ke for evaluation of the contractors' performance and scoring during works execution.

The Content's of Works Execution Programme shall include:

1.1 General information

- a) Project data
 - Project name,
 - employer,
 - implementing agency
 - contract period,
 - date of completion,
 - defects liability period,
 - date of submission of works execution programme,
- b) Scopes of works

A brief description of the project which includes major work items

1.2 Mobilization Schedule

- Site office Plan and site organization chart,
- Material mobilization plan
- Personnel management plan
- Equipment management plan

1.3 Work execution schedule

- a) Signed Programme of works
- b) Signed cash flow plan during the contract period

It is desirable that work execution schedule includes time frame of each activity such as in bar chart format.

1.4 Quality and Quantity Management

Method statement

This includes Work procedures, order and methods for execution.

- Proposal on material testing.
- Proposal on measurements
- Photograph plan

The bidder shall provide a photograph plan to record the progress and proof of quality control, measurement and any event that may arise

1.5 Safety management plan

This includes but not limited compliance with safety rules and regulation, traffic control and detour plans, emergency contact list

1.6 Environmental and social management plan

When the negative impacts on third parties during the execution are predicted, the management and mitigation plans should be included in WEP.

Note:

Works Execution Programme to be submitted by the bidder shall not be less 3 pages and not more than five (5) pages covering all the above stated items.

SECTION V - BILLS OF QUANTITIES

A. Preamble

- 1. The Bills of Quantities shall be read in conjunction with the Instructions to Tenderers, General and Particular Conditions of Contract, Technical Specifications, and Drawings.
- 2. The quantities given in the Bills of Quantities are estimated and provisional, and are given to provide a common basis for tendering. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tender in the priced Bills of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
- 3. 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, labor, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
- 4. A rate or price shall be entered against each item in the priced Bills 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 Bills of Quantities.
- 5. 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.
- 6. 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 documentation shall be made before entering prices against each item in the priced Bills of Quantities.
- 7. Provisional 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 Engineer in accordance with Sub-Clause 13.5 and Clause 13.6 of the General Conditions.
- 8. The method of measurement of completed work for payment shall be in accordance with *Civil Engineering Standard Method of Measurement (CESM)*

B. Work Items

TENDER NO. KWS/OT/RMLF/12/2021-2022

INSTRUCTED WORKS OF KITANI – MAKTAU – L. JIPE UTW1 – 100KM

Item	Description of Work Item	Unit	Quantity	Rate	Amount
01-80-026	Allow a prime cost sum of KES 135,000 for the REs miscellaneous account	PC SUM	1	135,000.00	135,000.00
01-80-027	Extra over of 01-80-026 for profits and overheads	%	135,000.00		
01-80-028	Allow a prime cost sum of KES 100,000 for off road Environmental Mitigation Measures.	PC SUM	1	100,000.00	100,000.00
01-80-029	Extra over of 01-80-028 for profits and overheads	%	100,000.00		
01-80-034	Allow a prime cost sum of KES 10,000 for HIV/AIDS awareness on site	PC SUM	1	10,000.00	10,000.00
01-80-035	Extra over of 01-80-034 for profits and overheads	%	10,000.00		
04-50-004	Light Bush Clearing	M^2	34,000		
05-60-002	Fill in soft material including benching of shoulders and embankment and compact to 95% MDD (AASHTO) in layers of 150mm as directed by the Engineer	M^3	2,000		
08-50-005	Ditch/Mitre drain /catch water drain excavation	M^3	2,000		
08-60-025	Provide, lay and joint 600mm pipe culvert with surround including headwalls, wingwalls, toe walls and aprons. Rate to include excavation and backfilling over the culvert to specifications.	METERS	60		
10-50-001	Heavy grading without watering or compaction as instructed by the Engineer	M^2	600,000		
10-60-001	Prepare road formation, provide gravel wearing course including, haulage, water and compact gravel to specifications	M ³	3,061		
(I)	TOTAL INSTRUCTED WORKS Carried Forward to Form of Tender(A+B)				

BILL OF QUANTITIES FOR EMERGENCY WORKS/DAY WORKS

ITEM	DESCRIPTION	Unit	Nominal Quantity	Rate Kshs	Amount Kshs
PLANT A	ND EQUIPMENT				
wages, supe include for	ncluded herein are to include all operational and ervision, overheads and profits. Only time empl idle time spent travelling and overtime in accor nd Equipment must be priced	oyed upon	the work will b	e measured	and the rates shall
22-50-151	Motor grader complete with scarifier: a-80- 110kw rated flywheel power	hr	33		
22-50-190	Rollers, vibratory single drum ,rubber tyred, self-propelled 8.3t - 10.5t unballasted weight	hr	6		
22-50-072	Compressor rated by normal delivery of free air per min at about 7kg/cm2,complete with all tools, hoses, steel etc: b-7.5-19.7m3/min	hr	6		
22-80-002	Crawler dozers with dozers and hydraulic attachment (a) 136 - 185kw rated fly wheeled power		6		
22-67-001	Pump Water/Mud: 100 mm.	EH	8		
22-50-083	Craw loaders: b-1.31-1.90m3 SAE rated capacity	hr	6		
22-65-003	Concrete Mixer : 300 - 450 L	hr	12		
22-80-020	Poker vibrator for concrete diesel	hr	8		
22-61-009	Truck, Tipper: 15 Tonnes	hr	20		
22-50-210	Van, pickup or similar utility vehicle 1.1 - 2.6t carrying capacity	hr	25		
22-80-025	Water tanker/bowser self-propelled 5000- 10000 lts capacity	hr	16		
LABOUR					
accommoda	rate included herein shall include all costs of labation, social security contributions, use and mai profits and any other cost.				
22-50-002	Unskilled Labour	PD	12		
22-50-040	Artisan	PD	30		
22-90-029	Labour c) Plant operator	PD	12		
22-50-015	Driver Assistant (Turn boy)	PD	12		
22-90-030	Labour d) Driver	PD	12		
22-90-031	Labour e) Foreman.	PD	15		
22-90-032	Labour f) Site surveyor.	PD	12		
MATERIA	ALS				
All items of	materials must be priced in accordance with the	ne requiren	ents of clause	2202©of the	specifications
22-70-008	Shuttering timber class F1 finish	M ²	25		

ITEM	DESCRIPTION	Unit	Nominal Quantity	Rate Kshs	Amount Kshs
22-70-009	Shuttering timber class F2 finish	M ²	15		
22-50-127	High yield Steel Reinforcement -Up to and including 16mm diameter	Ton	0.5		
22-70-005	Cement (ordinary portland)	Ton	8		
22-70-001	Fine aggregates(sand)	Ton	12.0		
22-70-003	Graded aggregates (ballast)	Ton	15.0		
22-72-003	Precast concrete culvert - 600mm	М	16		
22-72-004	Precast concrete culvert - 900mm	M	7		
22-72-023	Hardcore	M ³	16		
22-72-022	Gravel material (murram)	M ³	1,000		
22-76-018	Shovel	NO	2		
22-76-032	Buckets plastic 20lts	NO	1		
22-76-033	Wheel barrow	NO	1		
22-77-005	Weldmesh BRC A142	M ²	2		
22-77-006	Binding wire	KG	4		
22-50-113	Gabion box 2 x 1 x 1m	M ²	44		
(II)	TOTAL EMERGENCY WORKS (Day worl Tender(A+B)	ks) Carried	Forward to Fo	orm of	

BILL OF QUANTITIES FOR PERFORMANCE BASED MAINTENANCE SERVICES

Item No.	Description	Unit	Nominal Quantity	Rates Kshs.	Amount Kshs.
BILL NO	. 4. Site clearance/Vegetation control				
04-50-004	Light Bush clearing: Cut grass from shoulders, slopes, inlet ditches, and side ditches including back slopes turnouts and culvert outlets	M^2	20,000		
04-50-008	Clearing of obstruction: Clear any obstruction including debris or boulders out of the road carriage way.	M^2	10		
Bill 5 Eart	h works				
05-50-006	Fill in soft material and compact	M^2	445		
Bill 8 Culv	rerts and Drainage Works		-		1
08-50-002	Ditch cleaning Desilt, grade to shape inlets and outfalls, side drains/catch water drains to free flow.	M	1,500		
08-60-003	Culvert Cleaning- Partially blocked - 600mm	M	720		
08-60-004	Culvert Cleaning- Partially blocked - 900mm	M	414		
Bill 10 Gra	nding and Gravelling Works.				
10-50-003	Light grading as instructed by the Engineer				
	Trim with motor grader existing carriageway to camber, including slopes and ditches	M^2	1,800,000		
10-60-001	Gravel patching				
	Provide gravel wearing course- excavation, free haul, spread, water and compact gravel to specifications	M^3	1,000		
(III)	TOTAL PBC WORKS (Carried over to S	ummary P	age)		
Duration of	f the PBC Contract(months)	12	Cost/M	lonth	
Length of I	Road/s(km)	100	Cost/Mor	nth/km	

Description of Service and Price

This price is the remuneration to the Contractor (Exclusive of VAT) to carry out the services and works required in order to reach and maintain the service levels described in the Specifications and elsewhere in the contract. It further includes the activities of the Contractor related to self-control, quality assurance and material testing.

The Unit Price (Exclusive of VAT)per month and kilometer is						
SNO.	ROAD	Length (km)	Unit Price (Kshs)			
KITANI - MAKTAU – LAKE .JIPE 100						
Total Unit	Price Per Month Per Kilometer					

[Note: There may either be one unit price for all roads or road sections included in the contract, or different prices for different roads].

TENDER NO. KWS/OT/RMLF/12/2021-2022 Summary Page Item Description of Work Item Amount I Instructed works II Emergency Works (Day works) III Performance based routine maintenance works A SUB TOTAL B ADD 16% VAT

Total Carried Forward to Form of Tender(A+B)

TECHNICAL PROPOSAL

The Tenderer's Technical Proposal shall include the following elements: SCHEDULE

A. Projected Cash Flow

SCHEDULE B. Site Organizations

SCHEDULE C. Subcontractors SCHEDULE

D. Contractor's Equipment

SCHEDULE E. Initial Tentative Program of Performance SCHEDULE F.

Key Personnel Proposed

Instructions on how to present the various schedules of the Technical Propos

SCHEDULE A

Projected Cash Flow

- 1) Tenderers shall tabulate below estimates, based on their preliminary work programme, of:
 - a) On the expenditure side, the value of the work which will be carried out;
 - b) On the revenue side, the net payments to which they will become entitled with due allowance for the advance payment and repayment, materials prepayments, and retention money, but excluding price adjustments for rise and fall and provisional sums for emergency works.
 - c) The projected net cash flow during the contract period.

2) The prospective successful Tenderer may be required to submit full details to substantiate his estimates.

Period	Cost of Maintenance	Cost of Rehabilitation	Net Payments to	Net Cash
(Months)	Services	and Improvement	be received	Flow
		Works		
1-6				
7-12				
13-18				
19-24				
25-30				
31-36				
37-42				
43-48				
ETC.				

SCHEDULE B

Site Organization

Tenderers shall give below full particulars of the organization they propose to establish, direct, and administer the performance of the Contract. In particular, Tenderers shall indicate the location of site camps and the resources they intend to allocate to Self-Control Units for planning and monitoring purposes.

- 1. SITE ORGANIZATION CHART
- 2. NARRATIVE DESCRIPTION OF SITE ORGANIZATION CHART

SCHEDULE C

SUB-CONTRACTORS / PARTNERS

Tenderers shall list below those parts of the Works and Services which they propose to subcontract, and state the approximate value of those parts and the names and addresses of the proposed subcontractors, if those are known at Tendering stage. Tenderers shall also list other business partners involved in the execution of the contract and their respective roles and responsibilities.

Part of Works / Services:
Approximate value:
Name and address of proposed subcontractor / partner:
Part of Works / Services:
Approximate value:
Name and address of proposed subcontractor / partner:
Part of Works / Services:
Approximate value:
Name and address of proposed subcontractor / partner:
Part of Works / Services:
Approximate value:
Name and address of proposed subcontractor / partner:

SCHEDULE D

Contractor's Equipment

FORM EQU: EQUIPMENT

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 Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Tenderer.

Equipment information	Name of manufacturer	Model and power rating			
	Capacity	Year of manufacture			
Current status	Current location				
	Details of current commitments				
Source	Indicate source of the equipment □o Owned □o Rented □o Leased	□o Specially manufactured			
	g information for equipment owned by the Tende	erer.			
mit the followin Owner	g information for equipment owned by the Tende Name of owner	erer.			
		erer.			
	Name of owner	Contact name and title			
	Name of owner Address of owner				
	Name of owner Address of owner Telephone	Contact name and title Telex			
Owner	Name of owner Address of owner Telephone Fax	Contact name and title Telex			

SCHEDULE E

Initial Tentative Program of Performance

To demonstrate a clear understanding of the requirements of the Contract, Tenderers shall provide the following:

- i) A bar chart sub-divided into sections for each road showing the major activities to be carried out for Maintenance Services, Rehabilitation Works and Improvement Works, if any. The activities shall be shown against time, with linkages shown between related/sequential activities as far as possible and appropriate.
- ii) a bar chart or schedule showing the usage of major plant, including those listed in Schedule D (Contractor's Equipment).

SCHEDULE F FORM PER-1

Contractor's Representative and Key Personnel Schedule

Tenderers should provide the names and details of the suitably qualified Contractor's Representative 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.

2.	Title of position: [S	ite Agent]
	Name of candidate:	
	Duration of	
	appointment:	[insert the whole period (start and end dates) for which this position will be engaged]
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]
	uns position.	[insert the number of days/week/months/ that has been scheduled for this position]
	Expected time schedule for this	
	position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]
3. 2.	Title of position: [S	ite Foreman]
	Name of candidate:	
	Duration of appointment:	
		[insert the whole period (start and end dates) for which this position will be engaged]
	Time	
	commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]
	Expected time	
	schedule for this position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]
4. 3.	Title of position: [S	ite Surveyor]
3.	Name of candidate:	
	Duration of	
	appointment:	[insert the whole period (start and end dates) for which this position will be engaged]
	Time	
	commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]
	Expected time	
	schedule for this position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]

FORM PER-2:

Resume and Declaration - Contractor's Representative and Key Personnel

Name of Tenderer

Position [#1]: [SI *	TE AGENT]				
Personnel	Name:	Date of birth:			
information					
	Address:	E-mail:			
	Professional qualifications:				
	Academic qualifications:				
	Language proficiency: [language and levels of speaking, reading and writing skills]				
Details					
	Address of Procuring Entity:				
	Telephone:	Contact (manager / personnel officer):			
	Fax:				
	Job title:	Years with present Procuring Entity:			

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

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

DECLARATION

I, the undersigned [], certify that to
the best of my knowledge and belief, the information contained in this Form PER-2 correctly of	lescribes 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:

Commitment	Details
Commitment to duration of contract:	
	[insert period (start and end dates) for which site agent is available to work on this contract]
Time commitment:	[insert period (start and end dates) for which site agent is available to work on 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 Site Agent [insert name]

Signature:______

Date: (day month year): _____

Countersignature of authorized representative of the Tenderer:

Signature:_____

Date: (day month year): _____

Position [#2]: [S	ITE FOREMAN]	
Personnel	Name:	Date of birth:
information		
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: [language and levels of s	speaking, reading and writing skills]
Details		
	Address of Procuring Entity:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present Procuring Entity:

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

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

DECLARATION

I, the undersigned [], certify that to
the best of my knowledge and belief, the information contained in this Form PER-2 correctly of	lescribes 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:

Commitment	Details
Commitment to duration of contract:	
	[insert period (start and end dates) for which the Site Foreman is available to work on this contract]
Time commitment:	
	[insert period (start and end dates) for which the Site Foreman is available to work on 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 Site Foreman : [insert name]
Signature:
Date: (day month year):
Countersignature of authorized representative of the Tenderer:
Signature:
Date: (day month year):

Position [#3]: [S	TE SURVEYOR]			
Personnel	Name:	Date of birth:		
information				
	Address:	E-mail:		
	Professional qualifications:			
	Academic qualifications:			
Language proficiency: [language and levels of speaking, reading and writing sa				
Details				
	Address of Procuring Entity:			
	Telephone:	Contact (manager / personnel officer):		
	Fax:			
	Job title:	Years with present Procuring Entity:		

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

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

DECLARATION

I, the undersigned <i>[</i>	
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:

Commitment	Details
Commitment to duration of contract:	
	[insert period (start and end dates) for which the site surveyor is available to work on this contract]
Time commitment:	
	[insert period (start and end dates) for which the site surveyor is available to work on 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 Site Surveyor: [insert name]
Signature:
Date: (day month year):
Countersignature of authorized representative of the Tenderer:
Signature:
Date: (day month year):

TENDERERS QUALIFICATION WITHOUT PRE-QUALIFICATION

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.

31 FORM ELI-1

Tenderer Information Form
Date:
ITT No. and title:
Tenderer's name
In case of Joint Venture (JV), name of each member: Not Applicable
Tenderer's actual or intended country of registration: [Indicate country of Constitution]
Tenderer's actual or intended year of incorporation:
Tenderer's legal address [in country of registration]:
Tenderer's authorized representative information
Name:
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 named above, in accordance with ITT 3.6 ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITT 3.5 ☐ In case of state-owned enterprise or institution, in accordance with ITT 3.8, documents establishing: Legal and financial autonomy Operation under commercial law Establishing that the Tenderer is not under the supervision of the Procuring Entity Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

FORM ELI-1.2

Tenderer's JV Information Form (To be completed for each member of Tenderer's JV)

Date:	
ITT No. andtitle:	
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 authorized representative information	
Name:	
Address:	
Telephone/Fax numbers:	
E-mail address:	
 Attached are copies of original documents of □ Articles of Incorporation (or equivalent documents of constitution or associated documents of the legal entity named above, in accordance with ITT 43.6. □ In case of a state-owned enterprise or institution, documents establishing legal at operation in accordance with commercial law, and that they are not under the super Entity, in accordance with ITT 3.8. 	and financial autonomy
2. Included are the organizational chart, a list of Board of Directors, and the benefic	cial ownership.

Form ELI - 1.3

Qualification of Foreign Tenderers

Pursuant to ITT 4.10, a foreign tenderer must complete this form to demonstrate that the tender fulfils this condition (the 40% Rule).

	the 40% Rule).					
ITEM	Description of Work Item	Describe location of Source	COST in K. shillings	Comments, if any		
A	Local Labor					
1						
2						
3						
4						
5						
В	Sub contracts from Local sour	ces	•			
1						
2						
3						
4						
5						
С	Local materials					
1						
2						
3						
4						
5						
D	Use of Local Plant and Equipment					
1	•					
2						
3						
4						
5						
Е	Add any other items	'				
1						
2						
3						
4						
5						
6						
7						
,	TOTAL COST LOCAL CON	TENT	xx			
	PERCENTAGE OF CONTRA		XX			
	TEXTENTIAL OF COULTY	TOT TIMOL	44/4	1		

Disclosure of Interest – Interest of the Firm in the Procuring Entity (this form is already attached to the Form of Tender).

FORM CON - 1

Historical Contract Non-Performance, Pending Litigation and Litigation History

Tendere	er'sName:		
Date:			
		Applicable	
ITT No	. and title:		
Non-Perf	ormed Contracts in	accordance with Section III, Evaluation and Qualification Crit	teria
		mance did not occur since 1 st January [insert year Criteria, Sub-Factor 2.1.	r] specified in Section III,
	Contract(s) not perf tion Criteria, require	ormed since 1 st January [insert year] specified in sement 2.1	Section III, Evaluation and
Year	Non- performed portion of contract	lContract Identification t	Total Contract Amount (current value, currency, exchange rate and Kenya Shilling equivalent)
[insert	[insert amoun	tContract Identification: [indicate complete contract name/	[insert amount]
year]	and percentage]	number, and any other identification]	
		Name of Procuring Entity: [insert full name]	
		Address of Procuring Entity: [insert street/city/country]	
		Reason(s) for nonperformance: [indicate main reason(s)]	
Pending L	 Litigation, in accorda	nce with Section III, Evaluation and Qualification Criteria	
□ N	No pending litigation	in accordance with Section III, Evaluation and Qualification	Criteria, Sub-Factor 2.3.
		accordance with Section III, Evaluation and Qualification	Criteria, Sub-Factor 2.3 as
indicated	below.		

Year of dispute	Amount in dispute	Contract Identification	Total Contract
	(currency)		Amount
			(currency),
			Kenya Shilling
			Equivalent
			(exchange rate)
			(
		Contract Identification:	
		Name of Procuring Entity:	
		Address of Procuring Entity:	
		Matter in dispute:	
		Party who initiated the dispute:	
		Status of dispute:	
		Contract Identification:	
		Name of Procuring Entity:	
		Address of Procuring Entity:	
		Matter in dispute:	
		Party who initiated the dispute:	
		Status of dispute:	
Litigation Histor	y in accordance with Section	on III, Evaluation and Qualification Criteria	
		e with Section III, Evaluation and Qualification Crit	
indicated below.	n History in accordance w	ith Section III, Evaluation and Qualification Criteri	ia, Sub-Factor 2.4 as
		Contract Identification	Total Contract
1 1 -	percentage of Net		Amount (currency),
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Kenya Shilling
			Equivalent (exchange rate)
			, ,
[insert year] [1 5 -	Contract Identification: [indicate complete contract name, number, and any other	[insert amount]
		dentification]	
		Name of Procuring Entity: [insert full name]	
		Address of Procuring Entity: [insert	
		street/city/country] Matter in dispute: [indicate main issues in	
		dispute]	
		Party who initiated the dispute: [indicate	
		"Procuring Entity" or "Contractor"]	
		Reason(s) for Litigation and award decision [indicate main reason(s)]	

FORM FIN –3.1:

Financial Situation and Performance

Date: ___

Tenderer's Name: JV Member's Name **Not Applicable**_____ ITT No. and title:_____ 1. Financial Data Type of Financial information in_____ Historic information for previous 3 years, (Kenya Shillings) (amount in Kenya Shillings) Year 1 Year 2 Year 3 Statement of Financial Position (Information from Balance Sheet) Total Assets (TA) Total Liabilities (TL) Total Equity/Net Worth (NW) Current Assets (CA) Current Liabilities (CL) Working Capital (WC) Information from Income Statement Total Revenue (TR) Profits Before Taxes (PBT) Cash Flow Information Cash Flow from Operating Activities Current Ratio Liquidity Ratio Financial Ratios Return on Capital Employed(ROCE) Registered Auditor Name: _____ Director Name: _ Signature & Stamp: Practising Number: Signature & Stamp:

2. Sources of Finance

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

No.	No. Source of finance Amount (Kenya Shilling equi	
1.		
2.		
3.		
4.		
5.		
6.		

3. Financial documents

The Tenderer and its parties shall provide copies of financial statements for <u>3</u> years pursuant Section III, Evaluation and Qualifications Criteria, Sub-factor 3.1. The financial statements shall:

- a) Reflect the financial situation of the Tenderer, 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 ¹ for t	theyears	required above;	and complying w	vith the
requirements				

FORM FIN – 3.2:

Average Annual Construction Turnover

Tenderer's Name:
Date:
JV Member's Name Not Applicable
ITT No. and title:

Amount Currency	Exchange rate	Kenya Shilling equivalent
[insert amount and indicate currency]		
	Currency	Currency

^{*} See Section III, Evaluation and Qualification Criteria, Sub-Factor 3.2.

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.

Starting Year	Ending Year	Contract Identification	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 performed by the	
		Tenderer:	
		Amount of contract:	
		Name of Procuring Entity:	
		Address:	
		Contract name:	
		Brief Description of the Works performed by the	
		Tenderer:	
		Amount of contract:	
		Name of Procuring Entity:	
		Address:	

FORM EXP -4.1

General Construction Experience

Tenderer's Name:						
Date:						
JV Member's Name: Not Applicable						
ITT No. and title:						
Similar Contract No.	Informati	ion				
Contract Identification						
Award date						
Completion date						
Role in Contract	Prime Cor □	ntractor] [Member JV □	in	Management Contractor	Sub- contractor □
Total Contract Amount					Kenya Shilling	
If member in a JV or sub-contractor,	,					
specify participation in total Contract	t					
amount						
Procuring Entity's Name:						
Address:						
Telephone/fax number						
E-mail:						

FORM EXP -4.2(a)

Specific Construction and Contract Management Experience

Tenderer's Name:
Date:
JV Member's Name Not Applicable
ITT No. and title:

Sim	ilar Contract No.	Information
Desc	cription of the similarity in accordance with	
Sub-	Factor 4.2(a) of Section III:	
1.	Amount	
2.	Physical size of required works items	
3.	Complexity	
4.	Methods/Technology	
5.	Construction rate for key activities	
6.	Other Characteristics	

FORM EXP -4.2(b)

Construction Experience in Key Activities

Tenderer's Name: Date: Tenderer's JV Member Name: Not Applica Sub-contractor's Name ² (as perITT34): ITT No. and title:	ble				
All Sub-contractors for key activities mus Evaluation and Qualification Criteria, Sub-F		nformation in th	is form as per	ITT 34 and Section	on II
1. Key Activity No One: _					
Courting at I doubtification	Information				
Contract Identification					
Award date					
Completion date					
Role in Contract	Prime Contractor	rMember in JV □	Management Contractor	Sub-contractor	
Fotal Contract Amount			Kenya Shilling	g	
Quantity (Volume, number or rate or or or conduction, as applicable) performed under the contract per year or part of the year		in the Percentage participatio (ii)		Actual Quantity Performed (i) x (ii)	
Year 1					
Year 2					
Year 3					
Year 4					
Procuring Entity's Name:		·			
h.	nformation				
Address: Felephone/fax number	in or macion				
E-mail: Description of the key activities in accordance with Sub-Factor 4.2(b) of Section II:					

2 Activity No. Two Information Contract Identification Award date Completion date Sub-contractor

☐ Role in Contract Member Management Prime in Contractor Contractor Total Contract Amount Kenya Shilling Quantity (Volume, number or rate of Total quantity inPercentage Actual production, as applicable) performed under the contract participation Quantity the contract per year or part of the year (i) (ii) Performed (i) x (ii) Year 1 Year 2 Year 3 Year 4 Procuring Entity's Name: Information Address: Telephone/fax number Description of the key activities accordance with Sub-Factor 4.2(b) of Section 3.

.....

FORM OF TENDER SECURITY-[Option 1–Demand Bank Guarantee]

Bei	neficiary:	
Re	quest forTenders	No:
	te:	
TE	NDER GUARANTEE No.:	-
Gu	arantor:	
1.	We have been informed that	nder") for th
2.	Furthermore, we understand that, according to the Beneficiary's conditions, Tende supported by a Tender guarantee.	rs must be
3.	At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake Beneficiary any sum or sums not exceeding in total an amount of() upon recoff the Beneficiary's complying demand, supported by the Beneficiary's statement, who demand itself or a separate signed document accompanying or identifying the demand that either the Applicant:	ceipt by us ether in the
(a)	has withdrawn its Tender during the period of Tender validity set forth in the Applic of Tender ("the Tender Validity Period"), or any extension thereto provided by the Ap	
b)	having been notified of the acceptance of its Tender by the Beneficiary during the Ten Period or any extension there to provided by the Applicant, (i) has failed to execute to agreement, or (ii) has failed to furnish the Performance.	_
4.	This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon ou copies of the contract agreement signed by the Applicant and the Performance Secu (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of the Beneficiary's notification to the Applicant of the results of the Tendering process; or	rity and, or of a copy of

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)]

days after the end of the Tender Validity Period.

FORMAT OF TENDER SECURITY [Option 2-Insurance Guarantee]

TEND	DER GUARANTEE No.:
1.	Whereas [Name of the tenderer] (hereinafter called "the tenderer") has submitted its tender dated [Date of submission of tender] for the [Name and/or description of the tender] (hereinafter called "the Tender") for the execution of under Request for Tenders No("the ITT").
2.	KNOW ALL PEOPLE by these presents that WE
3.	NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Applicant:

- 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 thereto provided by the Principal; or
- b) having been notified of the acceptance of its Tender by the Procuring Entity during the Tender Validity Period or any extension thereto 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 Procuring Entity's Tendering document.

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

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 not the 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)twenty-eight days after the end of the Tender Validity Period.

5.	Consequently, any demand for p office indicated above on or before	ayment under this guarantee must be received by us at the ore that date.
	[Date]	[Signature of the Guarantor]
	[Witness]	[Seal]
<u>FO</u>	RM OF TENDER-SECURING DE	CLARATION
[Th	e Bidder shall complete this Form in a	accordance with the instructions indicated]
Dat	e:[Inse	rt date (as day, month and year) of Tender Submission]
Ter	der No.:	. [Insert number of tendering process]
	[Inse	•
nan that	ne of Purchaser] I/We, the undersi	gned, declare
1.		your conditions, bids must be supported by a Tender-Securing
2.	contract with the Purchaser for the pon [insert date], if we are in breach on have withdrawn our tender during the Data Sheet; or (b) having been notified period of bid validity, (i) fail or refuse	cally be suspended from being eligible for tendering in any period of time of [insert number of months or years] starting of our obligation(s) under the bid conditions, because we—(a) the period of tender validity specified by us in the Tendering fied of the acceptance of our Bid by the Purchaser during the se to execute the Contract, if required, or (ii) fail or refuse to accordance with the instructions to tenders.
3.	Tenderer(s), upon the earlier of:	ecuring Declaration shall expire if we are not the successful of our Tender.

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:
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

PART 2 – WORKS AND SERVICES' REQUIREMENTS

SECTION V.A-SPECIFICATIONS

Standard Specification

Where required, material to be incorporated in the works shall comply with the relevant section of the Standard Specification for Roads and Bridge Construction, 1986 Edition published by the Ministry of Transport and Communication.

The technical specifications shall be read in conjunction with all other documents forming the contract, the requirement of the specifications shall be complementary and additional to the requirements of all the other documents of the contract namely:

- i. Ministry of Road Maintenance Mannual, 2010
- ii. Roads 2000 Operations Manual –March 2006
- iii. Roads 2000 Contractor's Field handbook May 2008
- iv. Performance Based Road Maintenance Contract (PBC) Guideline, JICA, 2nd Edition 2019

Whenever reference is made to "The Engineer" in the specification, it shall be construed to be synonymous with the term "Employer" or "Employer's duly authorised Representative" respectively as referred to in the Conditions of Contract.

SPECIAL SPECIFICATIONS

SECTION 1: GENERAL

101 LOCATION AND EXTENT OF SITE

The Project is located in TsavoWest National Park. The total road length is 100km which is Earth/Gravel road

102 EXTENT OF SCOPE OF WORKS.

The extent of works under this particular contract entails:-

- General: Office administration and overheads/Preliminaries
- Site Clearance
- Earthworks
- Culverts and drainage works
- Passage of traffic
- Light and Heavy grading
- Embankment and riverbed protection works
- Gravelling
- Drift Construction
- Any other works that may be instructed by the Engineer

104 PROGRAMME OF EXECUTION OF THE WORKS

The contractor shall provide the works programme, required under clause 14 of the Conditions of Contract, within 14 days of receipt of the Engineer's Order to commence work.

The programme shall be co-ordinated with climatic and other conditions to provide for the completion of the works in the order and by the time specified.

The Contractor shall carry out the contract in accordance with the programme agreed with the Engineer, but he shall in no manner be relieved by the Engineer's approval of the programme, of his obligation to complete the works in the prescribed order and by the prescribed completion date and he shall from time to time review his progress and make such amendments to his rate of execution of the works as may be necessary to fulfill his obligations.

105 ORDER OF EXECUTION OF WORKS

In addition to Clause 105 of the Standard Specification the Contractor shall carry out the Works such that a continuous and consecutive output of fully completed work is achieved. The Resident Engineer shall be required to check the contractor's work execution progress guided by the Supervision Checklist provided as **Appendix II** to these Special Specifications.

107 TAKING OVER CERTIFICATE

The minimum length of road for which a taking over or completion certificate will be issued shall be the whole road when completed.

109 NOTICE OF OPERATIONS

Add the following sub- Clause:

Notification Terms

It shall be the Contractor's responsibility to notify the Engineer when any item of works scheduled are completed and ready for approval, and the contractor shall give sufficient notice to allow control test to be performed.

Explosives and Blasting

- (a) The requirements of the Laws of Kenya governing explosives and other requirements and regulations of Government of Kenya and other authorities shall be complied with.
- (b) No explosives of any kind shall be used without prior written consent of the Engineer.
- (c) The Contractor shall be solely responsible for the provision, handling, storage and transporting of all explosive ancillary materials and all other items of related kind whatsoever required for blasting.

117 HEALTH, SAFETY AND ACCIDENTS

Add to Sub-Clause 19.1 the following:

In addition to providing, equipping and maintaining adequate first aid stations with minimum of the following items:-Non Stick wound dressing, election of plaster/band aids, Crepe bandages, Gauze and cotton wool, Antiseptic solution (washing wounds), Oral re-hydration sachets,

Antiseptic cream – Betadine, Burnol, Pain killers Panadol, Disprin, Anti diarrhoea – Immodium, Diadis, Charcoal, Anti histamine – Piriton, Triludan, Anti nausea – Stemetil, Antibiotic – Amoxil, Septrin, Surgical gloves Eye ointment throughout the works in accordance with the Laws of Kenya, the contractor shall provide and should provide contact and written MOU with local dispensary or medical clinic during the duration of the Contract.

Such dispensary shall be with a qualified Clinical Officer / Nurse who shall offer the necessary medical advice on HIV and related diseases to the Engineer's and Contractor's Site staff.

The Contractor shall allow for this in the rates and be responsible for all site welfare arrangements at his own cost.

121 DIVERSION OF SERVICES

(a) The Contractor shall acquaint himself with the location of all existing services such as telephone lines, electricity cables, water pipes, sewers etc., before execution of any works that may affect the services. The cost of determining the location of the existing services together with making good or repairing of any damage caused all to the satisfaction of the Engineer shall be included in the Bid rates.

- (b) Subject to the agreement with the Engineer, the Contractor shall be responsible for removal of alteration and relocation of existing services.
- (c) The Contractor shall indemnify the Employer against claims originating from damage to existing services or works.

123 LIAISON WITH GOVERNMENT AND POLICE OFFICIALS

The Contractor shall keep in close touch with the Police and the other Government officials of the area regarding their requirements in the control of traffic or other matters, and shall provide all assistance or facilities, which may be required by such officials in the execution of their duties.

124 LAND FOR ALL CAMPS SITES AND FOR THE CONTRACTOR'S OWN PURPOSES, INCLUDING TEMPORARY WORKS.

Notwithstanding Clause 124 of the Standard Specification all requirements of land for temporary works and construction purposes shall be to the approval of the Engineer but the Contractor will make all necessary arrangements with the property owners concerned and pay all charges arising there from. On or before completion of the Contract, the Contractor shall remove all temporary works and shall restore all such land to the condition in which it was immediately prior to the occupation thereof as far as a reasonable and practicable. No separate payment will be made to the Contractor on account of these items and the Contractor must make due allowance for them in his rates.

Notwithstanding Clause 120 of the Standard Specifications, the Contractor shall be required to appoint a competent surveyor who will liaise with the Engineer on matters related to the demarcation of the existing road reserve, site measurements, removal and reinstatement of existing services.

128 STORAGE OF MATERIALS

All materials shall be stored on Site in a manner approved by the Engineer and the Contractor shall carefully protect from the weather all work and materials which may be affected thereby.

129 TEST CERTIFICATES

When instructed by the Engineer the Contractor shall submit certificates of test from the suppliers of materials and goods required in connection with the works as the Engineer may require.

Such certificates shall certify that the materials or goods concerned have been tested in accordance with the requirements of the specifications and shall give the results of all the tests carried out. The Contractor shall provide adequate means of identifying the materials and goods delivered to the site with the corresponding certificates.

139 PRIME COST SUMS

The Contractor will be paid on a prime cost basis plus a percentage for overheads and profits under relevant items of the Bills of Quantities.

143 ENVIRONMENTAL PROTECTION

The Contractor shall ensure so far as is reasonably practicable and to the satisfaction of the Engineer; that the impact of the construction on the environment shall be kept to a minimum and

that appropriate measures are taken to mitigate any adverse effects during the construction.

- (a) After extraction of materials, all borrows pits shall be backfilled to the satisfaction of the Engineer. In particular borrow pits near the project road shall be backfilled in such a way that no water collects in them.
- (b) Spilling of bitumen fuels Oils and other pollutants shall be cleared up.

SECTION 3: SETTING OUT & TOLERANCES

301 SETTING OUT

a) In addition to the provisions of clause 3.01(a) if the traverse points to be used for the setting out are close to the existing carriageway and interfere with construction works then the Contractor will have to relocate them to a location where they will not be disturbed. The coordinates and heights of all traverse points so located shall be listed and provided to the Engineer for checking and/or approval. Contractor shall also monument the new centreline every 200m along straight and all salient points along curves by a pin in the concrete beacon before commencement of any works.

The road reserve boundary posts shall have 12mm diameter steel pins embedded in concrete, 200mm long with 25mm exposed to the air, sticking out form its top surface. This pin shall be co-ordinated and heighten and result of the same shall be provided to the Engineer for approval. Cost of these works shall be included in the rates as no separate item has been provided.

Commencement of the works shall not be permitted until this basic survey data has been provided and approved by the Engineer for at least 5 Kms of the road

b) <u>Detailed Setting Out</u>

The reference peg shall be 50mm by 50mm in section, 600mm long and driven 400mm firmly into the ground and painted white above the ground. The offset from the centre line shall be indicated by small nail 20mm to 25mm long with its head flush with the top of the peg.

Chainages, offset and reference elevation shall be clearly indicated to the sides of the peg to the satisfaction of the Engineer.

After cutting of benches and prior to commencement of earthworks or subgrade works, Contractor shall take cross-sections again and submit the copy of the same to Engineer for agreement. These cross-sections shall then be used as basis of measurement for all subsequent layers, unless otherwise stated.

SECTION 4: SITE CLEARANCE AND TOP SOIL STRIPPING

401 SITE CLEARANCE

Site Clearance shall be carried out as directed by the Engineer.

04 - 50 - 002: Grass Cutting (Manual)

Grass shall be defined as any form of plant growth including small shrubs having a girth of not more than 100mm measured at height of 150mm above ground level.

The grass shall be cut to height of not more than 50 mm above the ground. The width limits shall be as instructed by the Engineer. All cut grass shall be removed from the carriageway, side drains, mitre drains and inlets and outlet drains of structures/culverts and deposited in approved spoil dumps

Burning of the grass shall not be allowed and care shall be taken not to damage roadside fixtures such as signs and marker posts.

This activity shall be carried out twice, each time before the rainy season or as shall be instructed by the Engineer.

Work Method

The Contractor shall use labour to carry out this item of work.

Quality Control

The road width for grass cutting shall be measured using tape measure at 50-m intervals and shall be visually checked to be free of grass after the operation.

Measurement: m2

The unit of measurement shall be square metres of grass cut.

Payment

The unit rate shall be full compensation, for labour, materials, tools, equipment and any incidental costs required to carry out the prescribed works.

04 - 50 - 003: Bush Clearing

This activity involves removal of small trees, shrubs and bushes all including their root system so as to prevent re-growth. In addition, the Engineer may order the trimming of branches of large trees so as to improve visibility. The width limits shall be as instructed by the Engineer.

The cut down material shall be collected into heaps away from the side drains and where it shall not block or interfere with visibility problems.

Burning of cut bush and removed trees or branches shall not be allowed.

Work Method

The contractor shall use **Labour** to carry out this item work

Quality Control

The width for bush clearing shall be measured using a tape at 50-m intervals and shall be visually confirmed to be free of trees or bushes.

Measurement: m²

The unit of measurement shall be the area in square metres.

Payment

The unit rate shall be the full compensation, for labour, materials, tools, and any incidental costs required to carry out the prescribed works.

402 REMOVAL OF TOPSOIL

Topsoil shall include removal of up to 200mm depth of any unsuitable material as directed by the Engineer.

403 REMOVAL OF STRUCTURES, FENCES AND OBSTRUCTIONS

When instructed by the Engineer, the Contractor shall demolish or remove structure and payment for this shall be made on day works basis.

04 - 50 - 008: Clearing of Obstructions

This activity shall involve to the following tasks:-

- Inspection of the road section(s) included in the contract daily.
- Removal of all obstruction such as fallen trees/ branches, rock fall, landslides, broken signs, etc. away from the roadway road side drains, mitre drains and other drains, inlets and outlets of drifts, culverts and other structures and the safe disposal thereof outside the road formation width.
- Removal of dead animals' carcasses away for the carriageway and disposing them as directed by the Engineer. Liaison with the Police may be necessary.

Work Method

The contractor shall use **labour** to carry out this item of work

Quality Control

The road section shall be visually checked for any obstruction.

Measurement

The unit of measurement for this item shall be **lump sum per Km** for the contract period.

Payment

The unit rate shall be the full compensation for the provision of labour, and tools necessary to carry out the tasks listed above.

SECTION 5: EARTHWORKS

504 PREPARATION PRIOR TO FORMING EMBANKMENT

Where benching is required for existing pavement to accommodate earthworks subgrade or subbase for widening the road, the rate for compaction of existing ground shall be deemed to cover this activity.

Excavation in the pavement of the existing road shall be kept dry. In the event of water penetrating the underlying layer, construction of the subsequent layers shall be postponed until the underlying layers are dry enough to accommodate the construction plant without deforming or otherwise showing distress.

Step construction shall be carried out per layer at the joint where excavating both vertically and perpendicular to the direction of the travel. The step shall be 500mm perpendicular to the direction of the travel and 150mm vertical unless otherwise instructed by the Engineer.

Special care shall be taken when compacting the new material at the joint ensuring that specified density is achieved.

505 CONSTRUCTION OF EMBANKMENTS

Only material approved by the Engineer shall be used for fill in embankments. Material with high swelling characteristics or high organic matter content and any other undesirable material shall not be used, unless specifically directed by the Engineer. Unsuitable material shall include:

- (i) All material containing more than 5% by weight or organic matter (such as topsoil, material from swamps, mud, logs, stumps and other perishable material)
- (ii) All material with a swell of more than 3% (such as black cotton soil)
- (iii) All clay of plasticity index exceeding 50.
- (iv) All material having moisture content greater than 105% of optimum moisture content (Standard Compaction)

Subgrade: Shall mean upper 300mm of earthworks either insitu or in fill and subgrade shall be provided for as part of earthworks operation and payment shall be made as "fill". The material for subgrade shall have a CBR of not less than 8% measured after a 4-day soak in a laboratory mix compacted to a dry density of 100% MDD (AASHTO T99) and a swell of less than 1%.

Subgrade repair: Where directed by the Engineer, any localized failure in the subgrade shall be repaired by filling in selected soft, hard or natural of minimum CBR 30% and compacted in accordance with clauses in the specifications applying to normal subgrade.

Embankment repair: Where directed by the Engineer, any localized filling in soft, hard or natural; selected material requirements shall be executed with Clause 505.

508 COMPACTION OF EARTHWORKS

At pipe culverts, all fill above ground level around the culverts shall be compacted to density of 100% MDD (AASHTO T.99) up to the level of the top of the pipes or top of the surround(s), if any and for a width equal to the internal diameter of the pipe on either side of the pipe(s) or

surround(s) as applicable.

At locations adjacent to structures, all fill above ground level up to the underside of the subgrade shall be compacted to density of 105% MDD (AASHTO T.99). In case of fill around box culverts this should be carried out for the full width of the fill and for a length bounded by the vertical plane passing through the ends of the wingwalls.

Notwithstanding the provision of clause 503 of the standard Specification, Compaction of subgrade material (i.e. material immediately below formation) in cut areas shall not be carried out by the contractor in areas where the formation is formed in hard material, unless the Engineer issues specific instructions to the contrary are issued.

Where improved sub-grade material shall be required, this shall be compacted and finished to the same standards and tolerances as those required for normal subgrade and clauses in the specifications applying to normal subgrade shall also apply.

511 BORROW PITS

The first part of the Standard Specification is amended as follows: -

Fill material which is required in addition to that provided by excavation shall be obtained from borrow pits to be located and provided by the Contractor but to the approval of the Engineer contrary to what has been stated.

<u>05 – 70 - 001:</u> Grassing (Repair of erosion on shoulders / planting of grass)

This activity shall involve protection / repair of erosion on embankment slopes, cut faces, shoulders, side slopes by filling with suitable soils and compacting using appropriate tamping tools as instructed by the Engineer.

Contractor shall plant turf of approved indigenous 'runner' type grass. The Contractor shall care for and water the grass until it is firmly established.

Work Method

The contractor shall use **Labour or equipment** carry out this item work.

Quality Control

- The width of the slope shall be measured at 50m intervals and shall have maximum tolerances of $\pm / 100$ mm.
- The quality of grass and spacing of the sprigs shall be visually checked

Measurement: m²

The unit of measurement shall be total area in square metre calculated as the net area, measured on the slope.

Payment

The unit rate shall be full compensation, for labour, materials, tools, and any incidental costs required to carry out the prescribed works

517 MEASUREMENT AND PAYMENT

Notwithstanding the provisions of clause 517 of the standard specifications, the rate for compaction of fill in soft material shall allow for the requirements of clause 508 of the special specification and no extra payment shall be made for compaction around pipe culverts (100% MDD AASHTO T.99).

SECTION 6: QUARRIES, BORROW PITS, STOCKPILES AND SPOIL AREAS

601 GENERAL

Notwithstanding any indications to the contrary in the Standard specification the Engineer will not make available to the Contractor any land for quarries, borrow pits, stockpiles and spoil areas, except for those areas in road reserves specifically approved by him.

The contractor will be entirely responsible for locating suitable sources of materials complying with the Standard and Special Specifications, and for the procurement, Wining, haulage to site of these materials and all costs involved therein. Similarly the contractor will be responsible for the provision and costs involved in providing suitable areas for stockpiling materials and spoil dumps. Should there be suitable sites for spoil dumps or stockpiles within the road reserve forming the site of the works the Contractor may utilise these subject to the approval of the Engineer.

No additional payment will be made to the Contractor to cover costs arising from the requirements for this Clause and the Contractor must include these costs in the rates inserted into the Bills of Quantities.

SECTION 7: EXCAVATION AND FILLING FOR STRUCTURES

703 EXCAVATION OF FOUNDATIONS FOR STRUCTURES

Unless otherwise instructed by the Engineer, all excavated surfaces in material other than hard material, on which foundations for structures shall be placed, shall be compacted to 100% MDD (AASHTO T.99) immediately before structures are constructed.

Paragraph 4, last line: - Replace "95%" with "100%".

707 BACKFILLING FOR STRUCTURES

Unless otherwise instructed by the Engineer, all backfilling material shall be compacted to a minimum of 100% MDD (AASHTO T.99).

709 EXCAVATION FOR RIVER TRAINING AND NEW WATER COURSES

Payments for river training and establishment of new watercourses shall only be made where such work constitute permanent works. Works done for road deviation or other temporary works shall not qualify for payment.

710 STONE PITCHING

Stone pitching to drains, inlets and outlets of culverts to embankments and around structure shall consist of sound unweathered rock approved by the Engineer.

The stone as dressed shall be roughly cubical in shape with minimum dimensions of 150×150 mm for normal thickness of stone pitching.

The surface to receive the pitching shall be compacted and trimmed to slope and the stone laid, interlocked and rammed into the material to give an even finished surface.

In areas where stone pitching has been damaged, the Contractor shall identify such areas and notify the Engineer for his agreement of the extent of the Works required and his approval and instructions to proceed with the Works. Stone Pitching Repair and Reconstruction shall be carried out in accordance with Clause 710 of the Standard Specifications.

The Works shall involve, removal of the damaged stone pitching and reconstruction of the said areas in accordance with Clause 710 of the Standard Specifications by use of the sound salvaged material together with any necessary additional material where all such materials shall comply with Section 7 of the Standard Specifications.

Contrary to Clause 713 of the standard specifications, the rates inserted for stone pitching shall allow for grouting.

711 GABIONS

Where instructed by the Engineer the Contractor shall install gabions as protection works to washout areas or bridge Piers and or Abutments. Gabions shall be constructed in accordance with Clause 711 of the Standard Specification.

In cases where existing gabions have been damaged, the Contractor shall identify them and notify the Engineer for his agreement of the extent of the Work required and his approval and instructions to proceed with the Works.

The Works shall involve removal of the damaged gabions / rocks, excavation to the correct levels and grades as directed by the Engineer, and in accordance with Clause 711 of the Standard Specifications and reconstruction with new gabions and other necessary materials as necessary. The damaged gabions shall be recovered and transported to the nearest D.W.O's Yard or M.O. R.& P. depot.

712 RIP-RAP PROTECTION WORK

Quarry waste or similar approved material shall be used to backfill scoured and eroded side, outfall and cut-off drain. The material shall be compacted to form a flat or curved surface preparatory to stone [pitching of drainage channels, existing and new scour checks as directed by the Engineer.

The surface to receive the pitching shall be compacted and trimmed to slope and the stone hand laid, interlocked and rammed into the material to give an even finished surface. The interstices of the Pitching shall be rammed with insitu material. The insitu material immediately behind the pitching shall be compacted to minimum density of 100% MDD compaction (AASHTO T.99).

714 BACKFILL BELOW STRUCTRURES

Where instructed this shall be carried out in compliance with the requirements of Clause 507 and 804 of the Standard Specification.

SECTION 8 - CULVERTS AND DRAINAGE WORKS

801 SCOPE OF SECTION

The operations specified in this section apply to the installation of drainage works and reinstatement and improvement of the same.

In addition, this Section covers: -

- Installation of 450 mm, 600 mm, 900mm or 1200mm diameter pipe culverts
- Desilting and cleaning of existing pipes and outfall drains to make them free flowing.

This activity consists of supplying the concrete pipe rings, laying and joining the rings, excavating and backfilling the trench and constructing a ramp over the culvert.

804 EXCAVATION FOR CULVERTS AND DRAINAGE WORKS

This Item consists of excavating trenches for culverts, foundations for head and wing walls and the construction of pipe culverts. The dimension of excavation shall be specified in the Drawings or shall be as directed by the Engineer. The Engineer shall approve all excavation work before the contractor is allowed to proceed with other works.

In the Standard Specifications, make the following amendments: -

In paragraph 6, line 3, and in paragraph 7, line 5 and in paragraph 11, line 6, delete "95%" and insert "100%".

Removal of Existing Pipe Culverts

Where instructed by the Engineer, the Contractor shall excavate and remove all existing blocked or collapsed culvert pipes of 450 mm, 600 mm and 900mm diameter including concrete surround, bedding, inlet and outlet structure and cut to spoil.

The void left after removal of culvert pipes shall be widened as necessary to accommodate new concrete bedding, pipe and hunching.

The payment of this work shall be per linear metre of pipes removed, and the volume in m3 of inlet/outlet structure removed. The void left by removal of these pipes shall be carefully preserved in order to accommodate replacement with 450 mm, 600 mm or 900 mm diameter pipe culverts as shall be directed by the Engineer.

Removal of Other Existing Drainage Structures

When instructed by the Engineer, the Contractor shall demolish or remove any other structure and payment shall be made on day work basis.

Excavation for Culverts and Drainage Works

The Contractor shall carry out all excavations for new culverts and drainage works to the lines, levels, inclinations, and dimensions shown on the drawings or as instructed by the Engineer.

805 EXCAVATION IN HARD MATERIAL

In the Standard Specifications, Sub-clauses 805(a) and 805 (b) delete "95%" and insert "100%".

In sub-clause 809(a), paragraph 1, line 1, substitute "95%" with "100%".

In sub-clause 809(c), paragraph 2, line 4, between the words "compacted" and "and shaped" insert the words "to 100% MDD (AASHTO T.99)".

Hard material is material which can be excavated only after blasting with explosives or barring and wedging or the use of a mechanical breaker fitted with a rock point in good condition and operated correctly. Boulders of more than 0.2m^3 occurring in soft material shall be classified as hard material.

809 BEDDING AND LAYING OF PIPE CULVERTS

Concrete pipes shall be laid on a 150mm thick concrete bed of class 15/40 and the pipes shall be bedded on a 1:3 cement-sand mortar at least 50mm thick, 150mm wide and extending the full length of the barrel.

Pipe culverts shall be haunched using 150mm concrete Class 15/20 surround as per profile IV as indicted in the drawings. Headwalls/Wing walls, toe walls and aprons shall be constructed with class 20/20 concrete.

Backfilling shall be done with approved material and compacted layers not exceeding 150 mm loose. Ramps shall be shaped to achieve a minimum overfill of 3/4 of the pipe diameter.

The rates inserted shall allow for compaction of the bottom of excavation to 100% MDD (AASHTO T.99).

810 JOINTING CONCRETE PIPES

The pipe rings shall be of Class 20 concrete, at least 28 days cured and, manufactured on site or procured from a supplier approved by the Engineer.

The concrete pipes for the culverts shall have ogee joints and will be jointed by 1:2 cement: sand mortar and provided with fillets on the outside as described in clause 810 of the Standard Specification. The culvert gradient including the outlet shall be minimum 2%.

812 BACKFILLING OVER PIPE CULVERTS

In the Standard Specifications, clause 812

- a) Delete paragraph 6 " for pipe culvertsdepth of 150mm", entirely.
- b) Wherever the expression "dry density of 95% MDD (AASHTO T. 99)" appears delete and replace with "dry density of 100% MDD (AASHTO T.99)".

The rates entered for laying of pipe culverts shall allow for backfilling to pipe culverts and compacting to 100% MDD (AASHTO T.99) and these works shall deemed included in the contractors rate and shall <u>not</u> be measured and paid for separately.

Quality Control

- The dimensions of the trench shall be checked using tape measure and shall have a tolerance of + / 50mm
- The invert level shall be checked using line and level and shall have a tolerance of + / 50mm
- The trench bottom shall be checked using straight edge, spirit level and shall have a tolerance of + / 10mm
- Culvert quality shall be checked visually for cracks, honey combing etc

- The length of each pipe shall be checked using tape measure and shall have a tolerance of + / -10mm.
- Before the pipes are laid, the gradient of the culvert trench shall be checked using boning rods and line levels and shall have a tolerance of + / 1%
- The joint shall be visually checked to have been properly made properly made

Measurement: m

The unit of measurement shall be in linear metres of installed size of culvert specified

814 SUBSOIL DRAINS

In the event of excavation for repairs exposing local see page, springs or unacceptably high water table, the Engineer may instruct the provision of counter fort or French drains.

These drains shall consist of a trench excavated to the alignment, width, depth and gradient instructed by the Engineer, and backfilled with approved compacted clean hard crushed rock material as specified in clause 815 of the standard specification. Where these drains lie within the carriageway the carriageway shall be reinstated with compacted graded crushed stone or stabilised gravel and surfaced with hot asphalt or a surface dressing as instructed by the Engineer.

Payment will be paid in accordance with Clause 814 of the Standard Specification.

817 REPAIRS TO DRAINS

<u>08 – 70 – 001/2:</u> Provide material to reconstruct or repair headwall, and wing wall

i). Stones, ii) Concrete blocks

This activity shall include provision of all materials required and to carry out repairs to damaged head walls and wing walls as shown in the drawings and as instructed by the Engineer.

Work Method

The contractor shall use **Labour** to carry out this item of work

Quality Control

- \bullet The dimension of the headwalls shall be checked with tape measure and shall have maximum tolerances of + /- 50mm
- The levels shall be checked with line levels, straight edge and spirit levels and shall have maximum tolerance of + / 20mm

Measurement m²

The unit of measurement shall be square metres for masonry paid for on the basis of area of wall completed while the concrete works shall be cubic meters paid for on the basis of volume of concrete poured in the wall.

Payment

The unit rate shall be full compensation for labour, materials equipment, tools, material haulage and unloading as required to carry out the prescribed works

08 – 70.003: Provide material to reconstruct headwall, wing wall

i) Stones, ii). Concrete blocks

This item consists of provision of material and construction of masonry walls as detailed in the drawings..

Work Method

The contractor shall use both **labour** and equipment to carry out this item work

Quality Control

- \bullet The dimensions of the structure shall be checked using tape measure and shall have a tolerance of + / 10mm
- The levels shall be checked using line and level, straight edge and spirit level and shall have a tolerance of + / 10mm
- The quality of the mortar joints shall be checked visually

Measurement m2

The unit of measurement shall be the total area in square metres of wall constructed.

Payment

The unit rate shall be the full compensation for labour, material, equipment and any other incidentals that may be required in carrying out the work as prescribed.

08 - 70.004 : Provide material and construct headwall, wing wall and apron - Concrete

This work consists of provision of all materials, and construction of the structures as detailed in the drawings. Aprons shall be constructed using concrete. Concrete shall be class 20/20 unless otherwise specified.

Work Method

The contractor shall use both **labour** and equipment to carry out this item work

Quality Control

- The dimensions of the structure shall be checked using tape measure and shall have a maximum tolerance of + 20mm / - 10mm
- The workability and mix of concrete shall be checked using the slump test and shall have a maximum tolerance of + / 25mm of slump. The frequency of testing shall be determined by the Engineer
- The concrete shall be visually checked for any cracks or honey combing

Measurement m³

The unit of measurement shall be the total volume in cubic metres of concrete.

Payment

The unit rate shall be the full compensation for labour, material, equipment and any other incidentals that may be required in carrying out the work as prescribed.

<u>08 – 70.005-010: Provide and install or repair scour checks</u>

i) -Stone; ii). - Wooden stakes; iii) - Concrete

Scour checks shall be constructed or repaired using either stones or sticks, as instructed by the Engineer.

Construction of concrete scour checks shall be in class 20/20 concrete unless otherwise specified and as per the details shown in the drawings.

Spacing for scour checks depends on the gradient of the drain as given in the guidelines shown in Table $8.1\,$

Table 8.1: Scour checks spacing

Gradient of Drain	Scour Chec Spacing	k Gradient of Drain	Scour Check Spacing
4% or less	not required	8%	7.5m
5%	20m	9%	6m
6%	15m	10%	5m
7%	10m	>10%	4m

Work method

The contractor shall use **labour** to carry out this item work.

Quality Control

The spacing of the scour checks shall be checked using tape measure and shall have a tolerance of \pm / \pm 0.5m

The sizes of the stakes and stones used shall be visually checked.

The shape of the scour check shall be checked using the scour check template.

Measurement: No.

The unit rate of measurement shall be the **number** of scour checks constructed.

Payment

The unit rate shall be full compensation, for labour, materials, equipment, haulage and any incidental costs required for carrying out the prescribed works.

817.1 Cleaning Existing Drains

In areas of existing side drains, mitre or outfall drains where such are blocked, the Engineer shall instruct the Contractor to clean and clear the drains to free flowing condition. The work shall consist of:

- (a) Stripping and removal of any extraneous material to spoil including vegetation and roots in the drains to the satisfaction of the engineer.
- (b) Spreading of any spoil to the satisfaction of the Engineer.
- (c) Shaping the drains to free flowing condition.
- (d) Removing any obstruction materials in the drains.

Cleaning any closed structures including cross culverts of any size to free flowing conditions.

Measurement and Payment for cleaning drains shall be by cubic metre of drain cleaned measured as the product of plan area and vertical depth of extraneous material instructed to be removed. No extra payment will be made for removal of vegetation and roots.

08 – 50 – 002: Cleaning of the Side Drains / Catch water drains

Partially silted

Partially silted drain shall be that drain that is less than half silted and requires only cleaning.

All deposited material, debris, and vegetation shall be removed and the drain shaped to the original cross-sectional standard and shall be in a free-draining condition. All debris and other unsuitable material removed from the side drains shall be disposed well clear of the drainage system in approved spoil dumps where it cannot cause any obstruction or be washed back.

The side drains shall be cleaned before the onset of the rains. The Engineer may instruct the contractor to clean the side drains immediately after heavy downpours.

Work Method

The contractor shall use **labour and or equipment** to carry out this item work

Quality Control

- Appropriate drain templates shall be used to check and control the dimension of the drains.
- The longitudinal profile of the drains shall be checked using boning rods, string and line-level.

Payment

The unit rate shall be full compensation, for labour, tools, and any incidental costs required to carry out the prescribed works

08 - 50 - 002: Desisting / Reshaping of the Side Drains / Catch water Drains

Fully silted

Fully silted Catch water or side drain shall be that drain that is greater than half-silted and requires re excavationor reshaping

All deposited material, debris, and vegetation shall be removed and the drain shaped to the original cross-sectional standard and shall be in a free-draining condition. All debris and other unsuitable material removed from the side drains shall be disposed well clear of the drainage system in approved spoil dumps where it cannot cause any obstruction or be washed back.

The side drains shall be desilted or re-excavated before the onset of the rains and during grading

Work Method

The contractor shall use **Equipment and or Labour** as directed to carry out this item work. Reshaping of the side drain shall be done together with the carriage way.

Quality Control

- Appropriate drain templates shall be used to check and control the dimension of the drains.
- The longitudinal profile of the drains shall be checked using boning rods, string and linelevel.

Measurement for works on catch water drain: m³

Under this item the unit of measurement shall be the total volume in cubic metres of excavated material, excavated in its original position.

Measurement for works on side drain:

Under this item measurement shall be considered in the grading works except when the work is order by the Engineer where no grading or gravelling is required on the pavement. In such case the unit of measurement shall be the total volume in cubic metres (m³) of excavated material, excavated in its original position.

Payment

The unit rate shall be full compensation, for labour, tools, and any incidental costs required to carry out the prescribed works

08-50-005: Cleaning of Mitre drains

Partially silted

Partially silted drain shall be that drain that is less than half silted and requires only cleaning

All silt, debris, and vegetation shall be removed and the drain shaped to the instructed cross-section and be in a free-draining condition. All debris and other material removed from the mitre drains shall be disposed away and clear of the drainage system in approved spoil dumps to prevent debris from being washed back.

The mitre drains shall be cleaned before the onset of the rains.

Work Method

The contractor shall use **Equipment and or Labour** as directed to carry out this item work.

Quality Control

- Appropriate drain templates shall be used to check and control the dimension of the drains.
- The longitudinal profile of the drains shall be checked using boning rods, string and line-level.

Measurement: m

Under this item the unit of measurement shall be the total length in linear metres of the drain cleaned

Payment

The unit rate shall be full compensation, for labour, tools, and any incidental costs required to carry out the prescribed works.

Fully silted

Fully silted drain shall be that drain that is greater than half-silted and requires re excavation or reshaping.

All silt, debris, and vegetation shall be removed and the drain shaped to the instructed cross-section and be in a free-draining condition. All debris and other material removed from the mitre drains shall be disposed away and clear of the drainage system to prevent debris from being washed back.

The mitre drains shall be cleaned before the onset of the rains.

Work Method

The contractor shall use **Equipment and or Labour** as directed to carry out this item work

Quality Control

- Appropriate drain templates shall be used to check and control the dimension of the drains.
- The longitudinal profile of the drains shall be checked using boning rods, string and line-level.
- Siltation/Obstructions must be less than 50mm in depth
- The longitudinal profiles mitre drains shall be checked using boning rods and shall have tolerances of +/- 25mm;
- The dimensions of the mitre drains shall be checked using template and tape measure and shall have tolerances of +20mm or -10mm;

The location of the mitre drains shall be checked visually

Measurement: m³

Under this item the unit of measurement shall be the total volume in cubic metres of excavated material, excavated in its original position.

Payment

The unit rate shall be full compensation, for labour, tools, and any incidental costs required to carry out the prescribed works.

817.2 Channels

817.3 RUBBLE FILLS FOR PROTECTION WORK

Quarry waste or similar approved material shall be used to back fill scoured and eroded side, outfall and cu-off drains. The material shall be compacted to form a flat or curved surface preparatory to stone pitching of drainage channels, existing and new scour checks as directed by the Engineer.

817.4 Stone Pitching

Stone pitching shall be constructed in accordance with clause 710 of the standard Specification.

Gabions

Gabions shall be constructed in accordance with clause 711 of the standard Specification.

Spoil Material

The Contractor shall be responsible for removal from site of all materials excavated in the course of undertaking works in this section of the specifications, unless suitable for re-use, and deposit of the material in a spoil dump to be approved by the Engineer.

SCOUR CHECKS

Scour checks are to be constructed in mass concrete in accordance with clause 818 of the standard specifications and the drawings as shall be provided.

05 – 007: Catch water drains

The cross section details shall be provided in the drawings or shall be as directed by the Engineer. In steep gradient scour checks may be installed in the catch water drains and grass cover shall be encouraged to grow in the drain. The excavated material shall be deposited at the lower (valley) side of the drain.

The location of the drains shall be checked and approved by the Engineer before construction;

The cross section dimensions shall be checked using tape measure at 25 m intervals and tolerances shall be +/- 25mm

Work Method

The contractor shall use **Labour or Equipment to** carry out this item work.

Measurement: m³

The unit of measurement shall be cubic metres of materials excavated.

Payment

The unit rate shall be full compensation for labour and any incidental costs required for carrying out the prescribed works

819 CLEANING AND MAINTENANCE

819.1 De-silting of Pipe Culverts

Where Contractor instructed shall desilt the existing pipe culverts by removing all the material from the pipe to make them clean and free flowing.

Measurement and payment shall be by the linear metres of pipes de-silted, regardless of diameter size.

08 – 60 - 001/2/3/4/5: Cleaning Culverts / Structures, inlet/outlets (Partially blocked)

```
08 - 60 - 001 300mm dia;

08 - 60 - 002 450mm dia;

08 - 60 - 003 600mm dia;

08 - 60 - 004 900mm dia;

08 - 60 - 005 1200mm dia
```

This activity shall involve the cleaning of culverts of specified size including pipe barrels and the outlet/inlet structures, and the outlet drains, keeping them free of all debris, weed, silt and any obstruction to ensure free passage of water at all times. The debris shall be deposited in approved spoil dumps directed by the Engineer. *Partially blocked culverts shall be considered as pipe culverts with less than half the barrel-blocked*.

Correct widths and slopes of the outlet drains shall be maintained. The gradient of the outlet drain shall be checked to ensure it is greater than 2 % using boning rods, line and level.

All broken culvert barrels discovered in the course carrying out this activity shall be reported to the Engineer. This activity should be carried out before the rains.

Work Method

The contractor shall use l**abour** to carry out this item of work

Quality Control

The workmanship shall be visually checked and shall be clean and free of obstacles

Measurement: m

The unit of measurement shall be linear metre of culvert line including outlet drain cleaned Payment

The unit rate shall be full compensation for labour, tools, as required to carry out the prescribed works.

08 - 60 - 006/7/8/9/10 :	Desilting Culverts / Structures inlet/outlets (Fully blocked):
08 - 60 - 006 300mm dia;	
08 - 60 - 007 450mm dia;	
<u>08 - 60 - 008 600mm dia;</u>	
<u>08 - 60 - 009 900mm dia;</u>	
08 - 60 - 010 1200mm dia	

This activity involves the cleaning of culverts of specified size including pipe barrels and the outlet/inlet structures, and the outlet drains, keeping them free of all debris, weed, silt and any obstruction to ensure free passage of water at all times. The debris shall be deposited in approved spoil dumps directed by the Engineer. *Fully blocked culvert shall be considered as pipe culvert with greater than half-of the barrel blocked*.

Correct widths and slopes of the outlet drains shall be maintained. The gradient of the outlet drain shall be checked to ensure it is greater than 2 % using boning rods, line and level

All broken culvert barrels discovered in the course of carrying out this activity shall be reported to the Engineer.

Work Method

This activity should be carried out before the onset of the rains.

Quality Control

The workmanship shall be visually checked

Measurement m³

Under this item the unit of measurement shall be cubic metres of material, excavated. The workmanship shall be visually checked and shall be clean and free of obstacles

Payment

The unit rate shall be full compensation for labour, and tools required to carry out the prescribed works

SECTION 9 - PASSAGE OF TRAFFIC

901 SCOPE OF THE SECTION

The Contractor shall so arrange his work to ensure the safe passage of the Traffic at all times and if necessary construct and maintain an adequate diversion for traffic complete with all the necessary road traffic signs.

The contractor shall provide to the satisfaction of the Engineer adequate warning signs, temporary restriction signs, advance warning signs, barriers, temporary bumps and any other device and personnel shall be properly positioned well in before work is allowed to start. Signs and traffic control shall be kept in good condition and be clear to all road users to ensure the safe passage of traffic through the works. When carrying out the Works the Contractor shall have full regard for the safety of all road users.

The Contractor shall also provide sign posts and maintain to the satisfaction of the Engineer all deviations necessary to complete the works. The contractor should allow for the costs of complying with the requirements of this clause in his rates.

Warning signs, fences, barriers, detours, etc. shall be properly positioned well in advance so that all traffic has been well and safely accommodated before work is allowed to start. Payment shall be per unit km rate through the works.

SECTION 10 – GRAVEL WEARING COURSE

GENERAL 1001

The road carriageway shall be constructed in accordance with the provisions of Section 10 of the Standard Specifications. Borrow pits and spoil areas shall comply with all the requirements of Section 6 of this specification in respect of borrow pits and spoil areas.

1002 CLASSIFICATION OF MATERIAL

Gravel wearing course material shall be material which can be extracted from a borrow area or a road cutting by ripping to a depth of 300mm with a single tine hydraulic ripper acceptable to the Engineer. The material shall have a minimum CBR of 20 at 95% MDD (AASHTO T180) and four days soak

Where directed by the Engineer new gravel will be added to the existing gravel to have the required thickness of wearing course. The existing gravel wearing course shall be cut by ripping top of the roadway to a depth of 150mm with a single tine hydraulic ripper acceptable to the Engineer.

The scarification, watering, mixing, shaping and compaction of the top 150mm of roadway materials to 95% MDD (AASHTO T99) if watering and compaction is specified. In this case the Engineer should direct the contractor to mix in any additional material. Both new and existing gravel will be mixed and bladed back over the roadway, and recompacted in accordance to the requirements given in Clause 1003 of the MOPWH Standard Specification. And such gravel shall be paid for separately under the relevant pay item allowed in the Bill of Quantities

However, where there is existing gravel wearing course, the Engineer may instruct that the Contractor blade aside and stockpile the wearing course material before commencing any of the works under this item. The contractor shall take such care as to ensure that the stockpiled gravel is not contaminated with sub grade materials, topsoil or organic material.

After carrying out the work defined in part **10.-.50.004** (a) to (d) above, the contractor shall compact the formation to 95% MDD (AASHTO T99). If necessary to achieve the desired compaction, the Contractor shall scarify the formation level to a depth of 150mm, water to obtain the required moisture content, reshape and finally re-compact the material.

The gravel-wearing course shall then be bladed back over the formation to a constant thickness and recompacted in accordance with the requirements given in Clause 1003 of the MOPWH Standard Specification.

Wherever the existing roadway width is less than specified in the document the contractor shall, if instructed by the Engineer, widen the roadway to obtain this minimum width, and excavate ditches to the template shown in the Drawings or as directed by the Engineer. Any widening works shall be paid for separately and in addition to the payment for Light Reshaping, under the appropriate earthwork item.

Quality Control

The material may be obtained from borrow pits or excavation in cuttings. The plasticity requirements and the class of material shall be as specified in Table 10.1 and the Special specification.

Table 10.1: Requirement for Gravel Wearing Course

GRADING REQUIREMENTS AFTER COMPACTION		
Sieve	% by Weight	
(mm)	Passing	
40	100	
28	95 - 100	
20	85 - 100	
14	65 - 100	
10	55 - 100	
5	35 - 92	
2	23 - 77	
1	18 - 62	
0.425	14 - 50	
0.075	10 - 40	

PLASTICITY INDEX REQUIREMENTS PI		
Zone	Min	Max
MET		20
DDV	10	20

BEARING STRENGTH REOUIREMENTS		
Traffic Commercial		DCP
VPD	CBR	Equivalent
		mm/Blow
> 15	20	11
< 15	15	14
CBR at 95 % at MDD, Modified AASHTO and 4		
days soak		
Lower quality material (CBR 15) may be accepted if		
no better material can be found		

NB: Wet Zone - mean annual rainfall greater than 500 mm.

Dry zone - mean annual rainfall less than 500 mm.

The Contractor shall be responsible for the acquisition of the quarry rights and shall therefore conduct respective negotiations with landowners and affected communities. The Engineer shall approve quarries and their extent of exploitation.

Alternative sources of gravel material whose quality can be shown to be in compliance with the specification requirements may be used, with the proviso that the Employer is not to incur additional expenses in connection with its winning and haulage. Contractor is deemed to have included in his rates for the provision of the gravel material to have included the cost of complying with the testing requirements.

10.-.50.004 Light Grading

Grading covers the works involved in the reinstatement of the road carriageway to the camber by removing the high points and filling up gullies corrugations and wheel ruts to restore smooth running surface.

Light grading shall only be undertaken where ordered by the Engineer.

Light grading is the restoration of the road profile and existing side drainage/mitre drains including the shaping of the formation, recompaction and, if applicable, the reshaping and recompaction of the gravel wearing course.

These operations shall be carried out using the following plant:

- a motor grader of at least 120 HP(for light grading alone)
- a roller, sufficient to achieve the required compaction(if compaction required it shall be included in the BOQ's)
- a water tanker to obtain the required moisture content for compaction. if watering required it shall be included in the BOQ's)

The works to be carried out under this item are as follows.

- (a) Removal of vegetation, topsoil and landslips form with the limits of the roadway and side drains, whatsoever the width.
- (b) The reshaping of the longitudinal profile of the roadway, including the removal of ruts, humps and windrow, and the filling of potholes.
- (c) The reshaping of the roadway and ditches to the specified cross-section template, as directed by the engineer, including the reinstatement of existing side ditches and mitre drains.
- (d) The clearing of all loose material from side slopes to fills and cuts.

10.-.50.002 Heavy grading

Heavy Grading shall only be undertaken when directed by the Engineer.

Heavy Grading is the restoration of the road profile, template and side ditches and involves operations similar to what is required for Light Grading. Heavy grading demands the following works in addition to the works specified above Light grading:

- (a) Correction of undulations, deep rutting, and gullies whatever their depth;
- (b) The drainage of quagmires; the removal and disposal of water logged material;
- (c) The clearance of landslips from the roadway and ditches;
- (d) Where directed by the Engineer, the widening of the roadway by either cutting or filling, or both.
- (e) The improvement of the longitudinal profile of the road by the excavation of humps and the filling of holes and depressions.

The following equipment shall be used in this works:

- a motor grader of a at least 120 HP
- a bulldozer of at least 150 HP
- a water tanker
- a self-propelled roller of at least 10 tonnes dead weight, or a vibrating roller of at least 3 tonnes dead weight.

Any fill required for the reshaping of the road profile, the elimination of ruts, gullies and holes and the replacement of waterlogged material shall be obtained from either within the road prism or from cut slopes and adjacent to the road, provided that the material conforms to the requirements of this Specification and meets with the approval of the Engineer.

Any excavation in hard material will be deemed to be in addition to the work requirements for Heavy Reshaping and will be paid for separately under the appropriate earthworks item.

Table 10.2: Overall widths ditch to ditch (Guidelines)

Road Category	Carriageway width	Overall width to front of Ditches
A/B/C + Secondary Roads	6.0 m	8.4
D/E + Minor Roads	5.4 m	7.8 m
RAR Roads	4.5 m	6.5 m
Minor / RAR roads with insufficient widths	3.5 m	5.5 m

or Temporary Sections	

Work Method

The contractor shall use **equipment** to carry out this item work.

Quality Control

Grading

- Gradient of the ditch shall be checked at 20m interval using boning roads and shall drain to the natural drainage channels or mitre drains placed at regular intervals.
- The width of the carriageway (see table 10.2) shall be checked using tape measure at every 50m with tolerance of +50mm or -20mm
- The camber shall be checked using camber board at every 50m with and shall have a tolerance of +/1%

Compaction

Compaction of the reshaped or reformed road shall be by not less than 8 passes as and directed by the Engineer depending on the compaction equipment used. Unless otherwise instructed, the moisture content at the time of compaction shall be within the range of +/- 2% of the optimum moisture content.

Where water needs to be added, it shall be applied in an even manner and the rate of application shall be such that no traverse or longitudinal flow occurs. The Contractor is required to provide all water for compaction and shall include this in his or her rates.

- Unsuitable material should not be used;
- Compaction shall be carried out using either dead weight or pedestrian rollers of approved weight and dimensions.
- The minimum passes of compaction to applied shall be that which no more roller imprint on the surface can be seen and to a minimum dry density as given in table 5.0 below;
- The camber shall be checked at 100m intervals using camber board and a line level and shall not be less than 5 % with a tolerances of +/- 1%
- Material for compaction shall be placed in layers of 200mm loose depth unless otherwise directed. The layers shall be parallel to the top of the subgrade level.

Table 10.3: Minimum dry density

Layer location.	Minimum compaction
Excavation to level platform	95% MDD (AASHTO T99)
Road formation and fill material	100% MDD (AASHTO T99)
Gravel wearing course	95% MDD (AASHTO T180)

Measurement: m²

The unit of measurement for mitre drains and compaction shall not be paid for separately and shall be deemed to be covered in his rates for grading

Payment

The unit rate compaction shall be the full compensation for labour, equipment and any incidental costs

required for carrying out the works to the required specifications.

SECTION 12 - NATURAL MATERIAL SUB-BASE AND BASE

1201 GENERAL

(a) Definitions

The term "natural material" includes lateritic gravel, quartzitic gravel, calcareous gravel, soft stone, coral rag, conglomerate, sand or clayey sand, a combination of any of these materials or a mixture of natural gravel and upto 30% of stone (crushed or not). A natural material is also referred to as "gravel".

(b) Sources of materials

Natural material for subbase and base may be obtained from any of the following sources: -

- (i) Borrow pits
- (ii) Spoil areas
- (iii) Excavation in cuttings, widened if necessary.

In all cases the Engineer will instruct the Contractor as to the source of material to be used and the location in which it is to be placed.

(c) Inspection of site

Where a source of material is available for inspection during the Tender Period the Contractor shall satisfy himself as to the nature and amount of work involved particularly in respect of the volume of overburden, the quality and hardness of material, the degree of selection necessary, the method of extraction, and access to the source.

(d) Borrow pits

The Contractor shall comply with all the requirements of Section 6 of this Specification in respect of borrow pits.

1202 CLASSIFICATION OF MATERIAL

Natural material shall be material which can be extracted from a borrow area or a road cutting by ripping to a depth of 300 mm with a single tine hydraulic ripper acceptable to the Engineer drawn by a track type crawler tractor in good order complete with all equipment and accessories as supplied and rated at 300 BHP flywheel power and over with an operating weight of not less than 37.2 tonne and being operated in accordance with the manufacturer's recommendations.

The material may require the use of either a grid or sheep foot roller with more than 8000 kg mass per metre width of roll to break it down and/or screening to achieve the specified grading.

1203 MATERIAL REQUIREMENTS

(a) Gravel with Minimum Soaked CBR Value of 25% (G25)

Material for G25 subbase shall include natural gravel or a mixture of natural gravel and up to 30% of sand or crushed stone aggregates and shall conform to the following requirements:

Maximum size : 63mm

• Passing 0.075mm sieve : Maximum 35%

Plasticity Index : Maximum 15%

• CBR (4 days soak) : Minimum 25%

(b) Gravel with Minimum Soaked CBR Value of 30% (G30)

Material for G30 subbase shall include natural gravel or a mixture of natural gravel and up to 30 percent of sand or crushed stone aggregates and shall conform to the specifications given in Section 1203(a) of the Standard Specifications for Road and Bridge Construction but with maximum PI of 12%.

The material shall comply to the following grading envelope after compaction:

BS Sieve size (mm)	Percentage by weight passing
63	100
37.5	80-100
20	60-100
5	30-100
1.18	17-75
0.3	9-50
0.075	5-25

(c) Gravel with Minimum Soaked CBR Value of 50% (G50)

Material for G50 base shall include natural gravel or a mixture of natural gravel and up to 30% of sand or crushed stone aggregates and shall conform to the following requirements:

Maximum size : 50mm
 Passing 0.075mm sieve : 4 - 20%

Plasticity Index
Plasticity Modulus
Maximum 250
LAA
Maximum 70%
CBR (4 days soak)
Minimum 50%

The material shall conform to the following grading envelope after compaction:

BS Sieve size (mm)	Percentage by weight passing
50	100
37.5	95 - 100
28	80-100
20	60 - 100
10	35-90
5	20-75
2	12-50
1	10-40
0.425	7-33
0.075	4-20

(d) Gravel with Minimum Soaked CBR Value of 60% (G60)

Material for G80 base shall include natural gravel or a mixture of natural gravel and up to 80% of sand or crushed stone aggregates and shall conform to the following requirements:

Maximum size : 50mmPassing 0.075mm sieve : 4 - 20%

Plasticity Index
Plasticity Modulus
Maximum 10%
Maximum 250
LAA
Maximum 70%
CBR (4 days soak)
Minimum 60%

The material shall conform to the following grading envelope after compaction:

BS Sieve size (mm)	Percentage by weight passing
50	100
37.5	95 - 100
28	80-100
20	60 - 100
10	35-90
5	20-75
2	12-50
1	10-40
0.425	7-33
0.075	4-20

(e) Gravel with Minimum Soaked CBR Value of 80% (G80)

Material for G80 base shall include natural gravel or a mixture of natural gravel and up to 80% of sand or crushed stone aggregates and shall conform to the following requirements:

Maximum size : 50mm
 Passing 0.075mm sieve : 4 - 20%

Plasticity Index
Plasticity Modulus
Maximum 250
LAA
Maximum 50%
CBR (4 days soak)
Minimum 80%

The material shall conform to the following grading envelope after compaction:

BS Sieve size (mm)	Percentage by weight passing
50	100
37.5	95 - 100
28	80-100
20	60 - 100
10	35-90
5	20-75
2	12-50
1	10-40
0.425	7-33
0.075	4-20

(f) Material for Cement/Lime Improved Gravel of CBR 60% (CIG 60)

Material for CIG 60 base shall include natural gravel or a mixture of natural gravel and up to 30 percent of sand or crushed stone aggregates and shall conform to the following requirements:

Maximum size : 50mmPassing 0.075mm sieve : 5-35%

Plasticity Index : Maximum 20%
 CBR (4 days soak) : Minimum 25%

After treatment the material shall have a CBR of at least 60% measured after 7 day cure and 7 day soak on the site mix compacted to at least 95% MDD AASHTO T180 and the treated material shall have a plasticity index less than 8% and a plasticity modulus less than 250.

(g) Material for Cement/Lime Improved Gravel of CBR 100% (CIG 100)

Material for CIG 100 base shall include natural gravel or a mixture of natural gravel and up to 30 percent of sand or crushed stone aggregates and shall conform to the following requirements:

Maximum size : 50mmPassing 0.075mm sieve : 5-35%

Plasticity Index : Maximum 20%
 CBR (4 days soak) : Minimum 25%

After treatment the material shall have a CBR of at least 100% measured after 7 day cure and 7 day soak on the site mix compacted to at least 95% MDD AASHTO T180 and the treated material shall have a plasticity index less than 6% and a plasticity modulus less than 250.

(h) Material for Cement/Lime Improved Gravel of CBR 160% (CIG 160)

Material for CIG 160 base shall include natural gravel or a mixture of natural gravel and up to 30 percent of sand or crushed stone aggregates and shall conform to the requirements given in Section 1203(d) of the Standard Specifications for Road and Bridge Construction but shall have Plasticity Index not exceeding 20% and 4 day soak CBR of at least 25%.

SECTION 14: CEMENT AND LIME TREATED MATERIALS

1401. Cement Treatment

Cement for stabilisation will be **Ordinary Portland Cement** to KS EAS 18-1 and KS EAS 18-2 CEM 1 and clause 207 of the Standard Specifications. The cement content of the treated material shall be as indicated by the Engineer and will normally be about 4%. The Engineer shall exercise his discretion to any variation in the rate of application of the cement, which he may see fit, to order from time to time.

Moisture Content

The moisture content of the stabilized material shall be as directed by the Engineer but nevertheless within the range of 85% to 100% of the optimum Moisture Content (AASHTO T.180)

Mixing and Placing

The material to be stabilized and the cement shall be mixed by an approved mixing plant, which will either be a mix-in-place pulvi-mixer or a stationary mixing plant for material to be used for pavement reconstruction, widening and shoulders.

1403. Lime Improvement

Lime improvement shall be carried out in accordance with Section 14 of the Standard Specification. The lime content of the stabilized material shall be as indicated by the Engineer.

1409. Protection & Curing

Protection and curing shall be carried out in accordance with the provisions of Clause 1409(i) of the Standard Specification but provision shall be made to wet the surface from time to time as directed by the Engineer.

1410. Traffic

The requirements of clause 1410 of the Standard Specification will not apply to improved natural material utilized for patching and repair works but will apply in case reprocessing of reconstruction and widening of the existing base and shoulders.

1412 MEASUREMENT AND PAYMENT

Stabilizer

The provision of the stabilizer shall be measured by the tonne calculated as the specific weight of stabilizer added to the material.

Mix-in stabilizer

Mixing stabilizer into the material shall be measured by the cubic metre of treated material calculated as the product of the compacted sectional area treated and the length.

SECTION 15 - BITUMINOUS SURFACE TREATMENTS

PART A - GENERAL

1501A GENERAL

Details of the spray rates for bitumen and the spread rates for chippings will be directed by the Engineer but the under listed is anticipated and can be used for guidance purpose i.e.

a. Chippings

- 14/20mm size pre-coated chippings at a spread rate of 75-90 square meters per cubic meter as first seal.
- 10/14mm size pre-coated chippings at a spread rate of 80-100 square meters per cubic meter as single seal.
- 6/10mm size pre-coated chippings at spread rate of 100-130 square meters per cubic meter as second seal.

b. Bitumen Spray Rates

- 1.1 1.3 l/m2 for the first seal
- 0.9 1.1 l/m2 for the second seal

The Average Least Dimension (ALD) shall be determined in the field after crushing the rock for chippings and then determine the actual spray rates and chipping spread rates

1501B PREPARATION OF SURFACE

In addition to requirements of Clause 1503B of the Standard Specifications, the contractor shall prepare and Repair Cracks, Edges, Potholes and Other Failures as follows: -

a) Cracks 3.0mm or less in width

The entire crack area shall be cleaned by brushing with a wire brush and then blowing with a compressed air jet and the crack sealed with 80/100 cutback bitumen using a pouring pot or pressure lance and hand squeegee. The surface shall then de dusted with sand or crushed dust.

b) Cracks greater than 3.0mm in width

Before these cracks are filled a steel wire brush or router shall be used to clean them and then a compressed air jet shall be used to clean and remove any foreign or lose material in the crack until the entire crack area is clean.

When the crack and surrounding area have been thoroughly cleaned, dry sand shall be forced into the crack until it is sealed in the manner specified for cracks less than 3.0mm width.

c) Potholes, edges and other repair areas

Where instructed, the Contractor shall prepare areas for the repair of potholes, road edges and other repair areas by excavating off unsuitable or failed material and debris, trimming off excavated edges, cleaning and compacting the resulting surfaces and applying MC 30 or MC 70 cut-back bitumen prime coat at a rate of 0.8-1.2 litres/m2, all as directed by the Engineer. Measurement and payment shall be made under the relevant item of Bill No 15. Where the surface repair on potholes and edges are to be carried out, Asphalt Concrete Type I (0/14gradation) shall be used. Bituminous material for repair of failures and other repair areas

PART B - PRIME COAT

1502B MATERIALS FOR PRIME COAT AND TACK COAT.

For prime coat, the binder shall be a medium-curing cutback MC 30 unless otherwise directed by the Engineer.

The rate of spray of bituminous prime coat refers to the gross volume of the cutback bitumen, that is to say the volume of the bitumen plus dilutants.

Prime coat shall be applied to all gravel areas that are to receive bituminous mixes as directed by the Engineer.

The tack coat shall consist of bitumen emulsion KI-60 unless otherwise directed by the Engineer.

The rates of spray of the binder shall be as instructed by the Engineer and shall generally be within the range 0.8-1.2 litres/square metre.

The rates of spray of the tack coat shall be as instructed by the Engineer and shall generally be within the range 0.5-0.8 litres/square metre.

PART C - SURFACE DRESSING

1502C MATERIALS FOR SURFACE DRESSING

Binder

The bituminous binder shall be 80/100 penetration grade bitumen cut-back with kerosene fuel in accordance with prevailing road temperatures, and conforming to Clause 211 of the Standard Specification.

Chippings

Chippings shall be of class 2 material and shall comply in all respects with Clause 1502C of the Standard Specification. The contractor's attention is drawn to the requirements of Clause 1502C and 1504C of the Standard Specification with regard to cleanliness and dust content of chippings for surface dressing. Should it prove necessary in the Engineer's opinion to wash chippings, no extra payment will be made to the contractor for this operation

1503C SPRAY AND SPREAD RATES OF BITUMEN AND CHIPPINGS.

Spray and Spread Rates for bitumen and chippings cannot be calculated until samples of the chippings to be used are available for test.

After submission of samples and completion of laboratory tests on chippings and binder, the contractor shall in the presence of the Engineer and the Chief Materials Engineer or representatives, lay trial sections of seal at various rates of spray and spread as directed by the Engineer and in accordance with clause 1503C of the Standard Specification.

Should any change occur in nature of source of chippings or bitumen, the contractor shall advice the Engineer accordingly who will then decide if any revisions are required to the spray and spread rates.

If any changes are required, the Contractor shall carry out further trials as instructed by the Engineer.

Payment for binder and chippings will be based on the instructed spray and spread rates used which may not necessarily be those specified. The Engineer will specify the spray rates of bitumen as residual bitumen per square meter. Actual spray rates used by the Contractor must be adjusted to compensate for any cutter added.

1505C PRE-COATED CHIPPINGS

Chippings utilized for surface dressing works under this contract shall be pre-coated in accordance with clause 1505C of the Standard Specification. The binder used for pre-coating chippings shall be MC 30 cutback bitumen.

The amount of bituminous binder used to pre-coat chippings will be as instructed by the Engineer and will normally be between 0.4% and 1.0% residual bitumen as percentage of the total dry weight.

Prior to laying any pre-coated chippings the Contractor shall prepare trial mixes of bitumen and chippings in the presence of the Engineer. After completion of trial mixes the Engineer shall issue written instructions to the Contractor indicating the amount of binder to be added in pre-coated chippings. The Contractor shall maintain this proportion unless the surface or nature of the chippings changes when the Contractor shall repeat the trials and the Engineer will issue revised instruction.

No separate payments shall be made for the pre-coating exercise. The contractor shall have included in his rates the cost of complying with this clause.

1511C MEASUREMENT AND PAYMENT

a) Seal coat

Seal coats shall be measured by the litre, for each type of bituminous binder for each seal coat, calculated as the product of the area in square metres sprayed and the rate of application in litres/square metres, corrected to 15.6° C

b) (b) Pre-coated Chippings

Chippings shall be measured by the cubic metre of each nominal size for each class calculated as the product of the area in square metres covered and the reciprocal of the instructed rate of application in square metres/cubic metre or the actual rate of application in square metres/cubic metre whichever calculation gives the lower volume.

SECTION 17 - CONCRETE WORKS (MAJOR)

1703 MATERIALS FOR CONCRETE

All materials shall comply with the requirements of section 1703 of the standard specifications.

Cement for all concrete works shall be Ordinary Portland Cement complying with KS1725: 2001 CEM 1 42.5N

This work shall consist of placing selected approved rock fill material of 250mm minimum diameter on the foundation put after excavation to receive levelling concrete in accordance with these specifications and in conformity with the lines, grades and cross sections shown on the Drawings as directed by the Engineer.

a) Materials

Selected rock: The selected rock builders to be placed for this work shall be hard, sound, durable quarry stones as approved by the Engineer. Samples of the stone to be used shall be submitted to and approved by the Engineer before any stone is placed.

The maximum size of the stone boulders shall be 300mm.

b) Construction Method

After completion of the structural excavation the surface of the loose soil shall be levelled and compacted. Then the stone of the above sizes shall be placed in one layer of 250mm over the compacted bed where the bottom slab will rest. Coarse sand shall be spread to fill up the voids in the stone boulders, and compaction with vibratory compactors should be performed to make this layer dense whereon a concrete of levelling course shall be placed.

c) Measurement and payment

Measurement for the bedding materials shall be made in cubic metres for the completed and accepted work, measured from the dimension shown on the Drawings, unless otherwise directed by the Engineer.

Payment for the bedding Materials for Levelling Concrete Works shall be full compensation for furnishing and placing all materials, all labour equipment, tools and all other items necessary for proper completion of the work in accordance with the Drawings and specifications and as directed by the Engineer.

1703(A) LEVELLING CONCRETE (CLASS 15/20) FOR BOTTOM SLAB INCLUSIVE OF COST OF FORM WORKS

This work shall consist of placing and levelling lean concrete class 15/20 over the prepared bed of stone boulders in the foundation for bottom slab and wingwalls in accordance with these specifications and which conformity with the lines, grades, thickness and typical cross-sections shown on the drawings unless otherwise directed by the Engineer.

a) Materials for Levelling Concrete

Requirement for the concrete class 15/20 is specified as follows:Design compressive strength (28) days 15N/mm²
Maximum size of coarse aggregate 20mm

: 20mm

 $\begin{tabular}{ll} Maximum cement content & 300 kg/m^3 \\ Maximum water/cement ration of 50\% with slump of 80mm \\ \end{tabular}$

b) Construction Method

The bed of stone boulders upon which the levelling concrete will be placed shall be smooth, compacted and true to the grades and cross-section shall be set to the required lines and grades.

c) Measurement and Payment

Measurement for levelling concrete (class 15/20) shall be made in cubic metres completed and accepted levelling concrete work measured in place which is done in accordance with the Drawings and the Specifications.

Payment for this work shall be the full compensation for furnishing and placing all materials, labour, equipment and tools, and other incidentals to Specifications and as directed by the Engineer.

1703 (C) FORMWORK FOR CULVERT WALLS

This work shall consist of all temporary moulds for forming the concrete for culvert walls and slabs together with all temporary construction required for their support. Unless otherwise directed by the Engineer all formworks shall be removed on completion of the walls and slabs.

a) Materials

Forms shall be made of wood or metal and shall conform to the shape, lines and dimensions shown on the Drawings.

All timber shall be free from holes, loose material, knots, cracks, splits and warps or other defects affecting the strength or appearance of the finished structure.

Release Agents – Release agents shall be either neat oils containing a surface activating agent, cream emulsions, or chemical agents to be approved by the Engineer.

b) Construction Method

I. Formworks

Formworks shall be designed to carry the maximum loads that may be imposed, and so be rigidly constructed as to prevent deformation due to load, drying and wetting, vibration and other causes. After forms have been set in correct location, they shall be inspected and approved by the Engineer before the concrete is placed.

If requested, the contractor shall submit to the Engineer working drawings of the forms and also, if requested, calculations to certify the rigidity of the forms.

1703(D) CONCRETE WORKS (CLASS 20/20) OF CULVERT WALLS AND SLABS

This work shall consist of furnishing, mixing, delivering and placing of the concrete for the construction of culvert walls and slabs, in accordance with these Specifications and in conformity with the requirements shown on the Drawings.

Concrete class 20/20 shall be used for Culvert walls and slabs.

a) Concrete Materials

I.Cement:

Cement shall be of Portland type and shall conform to the requirements of BS 12 or equivalent.

The contractor shall select only one type or brand of cement or others. Changing of type or brand of cement will not be permitted without a new mix design approved by the Engineer. All cement is subject to the Engineer's approval, however, approval of cement by the Engineer shall not relieve the Contractor of the responsibility to furnish concrete of the specified compressive strength.

Conveyance of cement by jute bags shall not be permitted. Storage in the Contractor's silo or storehouse shall not exceed more than two (2) months, and age of cement after manufacture at mill shall not exceed more than four months. The Contractor shall submit to the Engineer for his approval the result of quality certificate prepared by the manufacturer.

Whenever it is found out that cement have been stored too long, moist, or caked, the cement shall be rejected and removed from the project.

II.Aggregates

Fine and coarse aggregates must be clean, hard, strong and durable, and free from absorbed chemicals, clay coating, or materials in amounts that could affect hydration, bonding, strength and durability of concrete.

Grading of aggregates shall conform to the following requirements:

(i) Grading of Fine Aggregates

Sieve Size	Percentage by Weight Passing
10 mm	100
5 mm	89-100
2.5 mm	60-100
1.2 mm	30-100
0.6 mm	15- 54
0.3 mm	5- 40
0.15 mm	0-15

(ii) Grading of Coarse Aggregates

	Amounts finer than each standard sieve percentage by weight								
Size of Coarse Aggregate	40 2.5	30	25	20	15	10	5		
88 -8									
	100	-	-	90-100	-	30-69	0-10		

Other requirements for aggregates are as follows:

(iii) Fine Aggregates

Fitness Modulus, AASHTO M-6 : 2.3 – 3.1 Sodium Sulphate Soundness, AASHTO T104 loss : Max 10%

Content of Friable Particles AASHTO 112 : Max 1% by weight

Sand Equivalent, AASHTO T176 : Min 75

(iv) Coarse Aggregate

Abrasion, AASGTO T96 : Max 405 loss

Soft Fragment and shale, AASHTO M80 : Max 5% by weight Thin and elongated Pieces, AASHTO M80 : Max 15%

(v) Water

All sources of water to be used with cement shall be approved by the Engineer. Water shall be free from injurious quantities of oil, alkali, vegetable matter and salt as determined by the Engineer.

(i) Admixture

Only admixture, which have been tested and approved in the site laboratory through trial mixing for design proportion shall be used.

Before selection of admixture, the Contractor shall submit to the Engineer the specific information or guarantees prepared by the admixture supplier.

The contractor shall not exclude the admixture from concrete proportions.

b) Concrete class 20/20

Concrete class 20/20 shall be used for culvert walls and slabs. The requirements of Concrete class 20/20 are provided as follows unless otherwise the Engineer will designate any alteration.

Design compressive strength (28 days) : 20N/mm2

Maximum size of coarse aggregates : 20mm

Maximum water/cement ratio of 45% with slump of 80mm

c) Proportioning Concrete

The Contractor shall consult with the Engineer as to mix proportions at least thirty (30) days prior to beginning the concrete work. The actual mix proportions of cement, aggregates, water and admixture shall be determined by the Contractor under supervision of the Engineer in the site laboratory.

The Contractor shall prepare the design proportions which has 120% of the strength requirement specified for the designated class of concrete.

No class of concrete shall be prepared or placed until its job-mix proportions have been approved by the Engineer

d) Concrete Work

I. Batching

Batching shall be done by weight with accuracy of:

Cement : ½ percent

Aggregate : ½ percent

Water and Admixture : 1 percent.

II. Equipment should be capable of measuring quantities within these tolerances for the smartest batch regularly used, as well as for larger batches.

The accuracy of batching equipment should be checked every month in the presence of the Engineer and adjusted when necessary.

III. Mixing and Delivery

Slump of mixed concrete shall be checked and approved at an accuracy of +25mm against designated slump in these specifications.

IV. Concrete in hot weather

No concrete shall be placed when the ambient air temperature is expected to exceed thirty three degrees Celsius (33°C) during placement operations.

V. Concreting at night

No concrete shall be mixed, placed or finished when natural light is insufficient, unless an adequate approved artificial lighting system is operated, such night work is subject to approval by the engineer.

VI. Placing

In preparation of the placing of concrete, the interior space of forms shall be cleaned and approved by the engineer prior to placing concrete. All temporary members except tie bars to support forms shall be removed entirely from the forms and not buried in the concrete. The use of open and vertical chute shall not be permitted unless otherwise directed by the engineer.

The Contractor shall provide a sufficient number of vibrators to properly compact each batch immediately after it is placed in the forms.

Measurement and Payment

Measurements for the Concrete Works Class 20/20 of culvert walls and slabs shall be made in cubic metres for the walls and slabs actually constructed, measured from their dimensions shown on the Drawings. Payment for the Concrete Works (Class 20/20) of culvert walls and slabs shall be the full compensation for furnishing all materials of the concrete mixing, delivering, placing and curing the concrete, equipment and tools, labour and other incidental necessary for the completion of the work in accordance with the Drawings and these Specifications and as directed by the Engineer.

1704 DESIGN OF CONCRETE MIXES

The following classes of concrete shall be designed and mix proportions approved for use as follows:

- Class 15/20 for all blinding to structures and precast pipe culvert beds and surrounds
- Class 25/20 for all culvert headwalls, wing-walls, aprons, toe-walls, and bridge members; abutments, piers and deck
- Class 30/20 for bridge superstructure beams

Specifications for construction materials and quality control shall be in accordance with the standard specifications.

1713 FINISHES ON UNFORMED SURFACES

All unformed surfaces shall be finished to class UF 3 Finish in accordance with the standard specifications

1725 SURFACE FINISHES

All surfaces shall be finished to class F3 finish in accordance with the standard specifications.

1728 REINFORCEMENT FOR CONCRETE

All reinforcement to concrete shall be hot rolled high yield deformed bars complying with BS 4449 and steel mesh fabric to BS 4483.

1741 MEASUREMENT AND PAYMENT

a) Item: Concrete

Amend clause 1741 (a) (iv) of standard specifications to read "class UF 3 finish"

b) Item: formwork for formed surface finishes

Amend the following to Clause 1741 (e) of the Standard Specification:

<u>Unit m</u>² of formwork shall cover inclined formwork of all slopes and angles.

SECTION 20 - ROAD FURNITURE

2001 ROAD RESERVE BOUNDARY POSTS

Road reserve boundary posts shall be provided as directed by the Engineer and in compliance with Standard Specification clause 2001.

2003 EDGE MARKER POSTS

Edge marker posts shall be provided as directed by the Engineer and in compliance with standard Specification Clause 2003.

2004 PERMANENT ROAD SIGNS

Permanent Road Signs shall be provided as directed by the Engineer and in compliance with the requirements of the "Manual for Traffic Signs in Kenya" Part II and standard Specification clause 2004.

2004B EXISTING ROAD SIGNS

Where directed by the Engineer, the Contractor shall take down road signs including all posts, nuts, bolts and fittings, and remove and dispose of the concrete foundation and backfill the post holes. The signs shall be stored at the Contractor's store and they shall become the property of the Employer who shall remove them prior to the expiry of the maintenance period.

Measurement and payment for taking down road signs shall be made by the number of signs of any type and size taken down, cleaned and stored as directed.

Where a salvaged existing sign complies with the requirements of new road signs, the Engineer may instruct the Contractor to remove the sign for safe storage, and re-erect it.

Measurement and payment shall be made by the number of road signs re-erected as directed and the rate shall include for excavation, concrete foundations and backfilling around posts and removal of surplus material to spoil.

2005 ROAD MARKING

Paint for road marking shall be internally reflectorized hot applied thermoplastic material in accordance with Clause 218 d(ii) of the Standard Specification.

The rates inserted in the Bills of Quantities for road marking shall include for prior application of approved tack coat.

2006 GUARDRAILS

Contrary to the Standard Specification, guardrail posts shall be concrete 200 mm diameter set vertically at least 1.2m into the shoulder as directed by the Engineer. Spacer blocks shall also be made of concrete.

Beams for guardrails shall be "Armco Flex beam" or similar obtained from a manufacturer approved by the Engineer.

2007 KERBS

a) **Vertical Joints**

Vertical joints between adjacent Kerbs shall not be greater than 5 mm in width and shall be filled with a mortar consisting of 1:3 cement: sand by volume.

b) <u>Transition between flush and raised kerbs</u>

The transition between flush and raised kerbs (e.g at bus bays) shall be termed as ramped kerbs. The transition between flush and raised kerbs shall occur within a length of 2.0 m.

2008 KILOMETRE MARKER POSTS

Kilometre marker posts shall be provided as directed by the Engineer and in compliance with Standard Specification clause 2008.

2009 RUMBLE STRIPS

Where directed by the Engineer, the Contractor shall provide, place, trim, shape and compact to line and level asphaltic concrete rumble strips on the finished shoulders. This shall be done to the satisfaction of the Engineer

2010 BOLLARDS

Where directed by the Engineer, the Contractor shall provide, and install class 20/20 200mm diameter reinforced concrete Bollards concreted 300mm into the ground.

SECTION 22: DAYWORKS

This section covers provisional items included in the Bills of Quantities to cover the payment of equipment, labour and materials for work instructed by the Engineer on a daywork basis.

22-001: Dayworks

Measurement and Payment

a. Equipment:

Payment for equipment shall only be made for the time each item of equipment is actually working. Idle time due to breakdown or incompleteness of the equipment shall not be paid for. The rate of equipment shall include for the cost of the following:-

- i) Transport of the equipment to the site
- ii) Operators, drivers and assistants including their overtime
- iii) Maintenance, spare parts and all costs of repairs
- iv) Depreciation insurance, overheads and profits.

b. Labour

Payment shall only be made for the time each of worker labour is actually working on the daywork instructed by the Engineer. The rate for labour shall include the cost of the following:-

- i) All salaries allowances and other payments required by the worker
- ii)Provision of small tools used on Daywoks such as picks, shovels, pangas, jembes hammers chisels and all other tools used by tradesmen.
- iii) Insurance, overheads and profit.

c. Materials

Payment shall only be made for materials instructed by the Engineer for use in dayworks. The rate for materials shall include for the cost of provision of the material, transport to site and storage handling overheads and profits.

d. Use of Dayworks

The use of Dayworks shall be only sanctioned by the Authorized Person for extra and substituted works and at the rates approved by the Ministry of Roads for the current period.

SECTION V B: PERFORMANCE SPECIFICATIONS

1. Introduction on Service Level Categories

Levels of Category

Based on the study of current service levels applied by the road authorities, four (4) standard service level categories Cover road network in Kenya. The principal factors considered in the selection of service levels are road type and traffic volume. However, specific road characteristics, such as climatic conditions, road function and terrain, may also be considered. Two service levels (High and Standard) are for paved roads and another two service levels (High and Standard) for un-paved roads.

The Service Levels should be selected from Table 1.1 according to the Annual Average Daily Traffic Volume (AADT).

Table 1.1. Service Level Categories Adopted

Table 1/1/ Del / lee Ze / el Categories l'adopteu					
Road Type	Paved		Un-Paved		
Service Level	High	Standard	Lligh	Standard	
Category	підіі	Stallualu	High	Stallualu	
Annual Average Daily	More than	Less than	More than 500	Less than 500	
Traffic Volume	20,000 vapid	20,000 vapid	vapid	vpd	

Note: vpd – *vehicles per day*

Note that Table 1.1 shows indicative traffic volume of service level category. The Road Authority need to define service level based not only on traffic but also on road class, climate and road complexity.

1.1. Service Criteria

Selection of Standard Service Level Category is made based on the road type (Paved or Unpaved), the traffic volume, as well as road conditions assessment.

The Table 1.2 below shows the list of service criteria under each Service Category and Service Scope.

Table 1.2. List of Service Criteria

Service			
Category	Service Scope	Elements-Paved Road	Elements-Unpaved Road
			Pavement.
Road Usability	Passability	Pavement	
		Pavement	Pavement
	Smooth and Safe	Shoulder	Shoulder
	Traffic	Median	Footpath
	Trairic	Footpath/ Cycle way	
Road User		Footbridge	
Comfort	Visibility	Sight Distance Availability	Sight Distance Availability
Comfort	Visibility	Street Lighting	
		Signage	Signage
	Traffic Information	Road Works advance warning	Road Works advance warning
		signs	signs
		Road Marking	
Road Durability		Side Drains, Mitres Drains, Cut	Side Drains, Mitres Drains, Cut
		off Drains(Lined)	off Drains
		Side Drains, Mitres Drains, Cut	
	Drainage	off Drains(Unlined)	
	Capability	Culverts and Drifts	Culverts and Drifts
	Capability	Scour checks, gabions and	Scour checks, gabions and
		other erosion protection	other erosion protection
		Structures	Structures
		Manholes and gulley pots	
	Vegetation	Vegetation free zone	Vegetation free zone
	Control	Inner vegetation zone	Inner vegetation zone
	Control	Overhanging branches	Overhanging branches
	Maintenance of	Concrete structures	Concrete structures

Service			
Category	Service Scope	Elements-Paved Road	Elements-Unpaved Road
		Steel structures	Steel structures
	othor structures	Bridge expansion joints	Bridge expansion joints
	other structures	Guardrail/Pedestrian rail	Guardrail/Pedestrian rail
		Riverbeds	Riverbeds
	Clope Ctability	Embankment Slopes	Embankment Slopes
	Slope Stability	Slopes in Cuts	Slopes in Cuts

Table 1.1. Service Level Categories Adopted

Road Type	Paved		Un-Paved	
Service Level	High	Standard	High	Standard
Category	Ingn	Stallualu	Ingn	Stallualu
Annual Average Daily	More than	Less than	More than 500	Less than 500
Traffic Volume	20,000 vapid	20,000 vapid	vapid	vpd

Note: vpd – vehicles per day

Note that Table 1.1 shows indicative traffic volume of service level category. The Road Authority need to define service level based not only on traffic but also on road class, climate and road complexity.

1.2. Service Criteria

Selection of Standard Service Level Category is made based on the road type (Paved or Unpaved), the traffic volume, as well as road conditions assessment.

The Table 1.2 below shows the list of service criteria under each Service Category and Service Scope.

Table 1.2. List of Service Criteria

Service Category	Service Scope	Elements-Paved Road	Elements-Unpaved Road
Road Usability	Passability	Pavement	Pavement.
		Pavement	Pavement
	C	Shoulder	Shoulder
	Smooth and Safe Traffic	Median	Footpath
	Sale Hallic	Footpath/ Cycleway	
		Footbridge	
Road User Comfort	Visibility	Sight Distance Availability	Sight Distance Availability
	Visibility	Street Lighting	
		Signage	Signage
	Traffic		Road Works advance warning
	Information	Road Works advance warning signs	signs
		Road Marking	
	Drainage Capability	Side Drains, Mitres Drains, Cut off Drains(Lined)	Side Drains, Mitres Drains, Cut off Drains
		Side Drains, Mitres Drains, Cut off Drains(Unlined)	
		Culverts and Drifts	Culverts and Drifts
		Scour checks, gabions and other erosion protection Structures	Scour checks, gabions and other erosion protection Structures
Road Durability		Manholes and gulley pots	
Road Durability	Vegetation	Vegetation free zone	Vegetation free zone
	Control	Inner vegetation zone	Inner vegetation zone
	Control	Overhanging branches	Overhanging branches
		Concrete structures	Concrete structures
	Maintenance	Steel structures	Steel structures
	of other	Bridge expansion joints	Bridge expansion joints
	structures	Guardrail/Pedestrian rail	Guardrail/Pedestrian rail
		Riverbeds	Riverbeds
	Slope Stability	Embarkment Slopes	Embarkment Slopes
	Stope Stability	Slopes in Cuts	Slopes in Cuts

2. Description of the Road

The Road is in Taita Taveta County County. It commences at Kitani and traverses a rolling terrain for 100 km to end At Lake Jipe

The Road has the following major physical features.

- a) Unpaved main road of mixed surface of gravel/Earth of 100km. Average carriage way width of 6.0m.
- b) Drainage system including approximate 2000m of side drains and 88m of culverts.
- c) Major structures are 1No. Drift

As a general reference on the Road, the information shown below is provided to the Contractor. The Employer provides this information to the best of his knowledge, but does not guarantee its correctness, and the Contractor may not make any claim based on potential errors or omissions in the information provided.

[Provide information which may be useful to the tenderer for the preparation of his tenderer, such as:

- Traffic volumes for each road section
- Traffic composition
- Rain fall quantities and patterns
- Technical information of each road, such as original design, previous works executed, etc.
- Any maintenance history that is available
- Other information as available.l

3. Works and Services to be provided

3.1 Works

The Works are what the Contract requires the Contractor to construct, install, and turnover to the Employer, as covered under Rehabilitation Works, Improvement Works and Emergency Works.

3.1.1 Rehabilitation Works

Rehabilitation Works are a set of measurable inputs to be executed by the Contractor during the Initial Mobilization Period to allow the Road to achieve the performance standards required under the contract. Rehabilitation Works shall be carried out by the Contractor in accordance with the Bill of Quantities. Rehabilitation Works will be paid for as measured items in accordance with the unit rates in the Bill of Quantities.

3.1.2 Improvement Works

Improvement Works are a set of interventions to be executed by the Contractor to allow the Road to acquire new characteristics under the contract. Improvement Works shall be carried out by the Contractor when specifically instructed by the Engineer as set out in Clause 27 of GCC and in accordance with the Bill of Quantities. Improvement Works will be paid for as measured items in accordance with the unit rates in the Bill of Quantities.

3.1.3 Emergency Works

Emergency Works are a set of necessary inputs to be executed by the Contractor to allow the Road to be reinstated under the contract in case of inflicted damages as a result of natural phenomena with imponderable consequences, such as strong storms, flooding and earthquakes. Emergency Works shall be carried out by the Contractor when specifically instructed by the Engineer as set out in Clause 27 of GCC and in accordance with the unit rates provided for in the Specifications.

In the event of an emergency, the Contractor shall draw to the attention of the Engineer that certain works need to be carried out to reinstate the carriageway and other road features to restore the safe passage of traffic and ensure the integrity of the Road.

The Engineer who will determine the quantities of activities to reinstate the roads, shall make the payments according to the measured works.

3.1.4 Design Responsibility for Works

All Works, Rehabilitation Works, Improvement Works and Emergency Works shall be designed by the Employer in accordance with the latest specifications adopted by the Employer.

3.2 Maintenance Services

Maintenance Services to be provided by the Contractor include all activities, physical and others, which the Contractor needs to carry out in order that specific road related assets and items comply with the Road Performance Standards as defined by the Service Levels and other output and performance criteria indicated in the contract, or with any other requirements of the contract. In particular, they include management tasks and physical works associated with the following road-related assets and items:

[Note: List the extent of specific road related assets and items that are to be maintained under the contract. The list of assets and items may include:

- 1) Pavements (paved roads)
- 2) Shoulders
- **3)** Footpaths/cycle ways
- 4) Road embankments and slopes
- 5) Bridges
- **6)** Drainage system
- 7) Vegetation
- 8) Riverbeds
- Road furniture
- **10)** Other road related structures
- 11) Traffic Management
- 12) Data collection Maintenance service delivery outputs

During the entire contract period, the Contractor is expected to achieve the following outcomes:

- **1.** No potholes on any part of the Project road
- 2 No side drains and/or culverts on the Project roads shall be blocked, silted or damaged
- 3. No standing water on the project road
- 4. No road furniture on the Project road is missing
- **5.** The road is safe to all users
- **6.** No defects on the project road
- 7. No road section length shall be unavailable

For guidance, the activities to be undertaken by the Contractor include, but are not limited to, management tasks and physical works associated with the following:

- 1. Inspect the road for safety defects and defects likely to impact on durability of the assets
- 2 Inspect road, identify and remove all obstructions
- 3. Clean drainage (side drains, culverts)
- **4.** Repair and replace scour checks
- 5. Vegetation control, grass cutting, bush clearing, tree pruning
- **6.** Maintain bridges and minor repairs (replacement of guardrails)
- 7. Maintain road furniture and replace damaged traffic signs

The Contract or shall prepare and submit Routine Maintenance strategy for approval by Engineer.

Management tasks and physical works include, but not limited to the following;

[Note: List the management tasks and physical works that are to be provided by the Contractor under the contract. The list may include:

- 1) Maintain road usability
- 2) Maintain road user comfort
- 3) Maintain road durability
- 4) Maintain control of the Road by patrolling, data collection, conducting inspections and reporting

Maintenance Services shall be paid for as a fixed lump sum per km per month, with payment reductions made for non-compliance, if appropriate.

4. Compliance with Service Level Requirements

The Initial Mobilization Period for the Road to be brought to Service Level requirements is 3 months after the issuance of the Actual Start Date by the Contractor. However, the period should vary depending on the initial condition of the road as defined and specified in the SCC. In the Contract. Within the first 3 months, compliance with the Service Levels will be adjusted as shown in Table 3.1 to allow the Contractor to properly mobilize the team within the Initial Mobilization Period.

Table 4.1 Timetable for Compliance with Service Level Requirements

Contract	Road Usability	Road User Comfort	Road Durability
Month	Compliance required on %	Compliance required on %	Compliance required on % of
	of contract road	of contract road	contract road
1	50	50	50
2	100	75	75
3	100	100	100
Until end of	100	100	100
Contract			

5.0 Programme of Performance

In accordance with clause 17.2 of the General Conditions of Contract (GCC), the Contractor shall submit a Program of Performance within twenty-eight (28) days after the signing the contract agreement. The program shall include, but not be limited, to the following items:

5.1 Contractor's Quality Assurance Plan

The purpose of the Contractor's Quality Assurance Plan is to integrate the requirements of the contract and the Contractor's quality assurance systems to deliver the Works and Services.

The Contractor's Quality Assurance Plan describes the methods and procedures which the Contract or will apply for the execution of the Contract, including how the Contractor will:

- a) Identify the quality requirements specific to the contract,
- b) Plan and execute the Works and Services to satisfy those requirements
- c) Inspect and/or test the Works and Services to ensure compliance with the quality requirements
- **d)** Record and monitor the results as evidence of compliance, and
- e) Ensure that prompt action is taken to correct non-compliance.

The Contractor's Quality Assurance Plan must clearly describe the systems, procedures and methods that will be used to deliver and monitor compliance of the Works and Services.

5.2 Traffic Management Plan

If required in the Special Conditions of Contract (SCC) the Program of Performance shall include a Traffic Management Plan. The Traffic Management Plan establishes the practices for traffic management at work sites. The Traffic Management Plan must be developed by the Contractor and agreed with the Engineer.

The objectives of the Traffic Management Plan are to:

a clearly define and document the responsibilities and chain of command for the development, implementation and management of traffic control measures and systems

- **b** establish the minimum requirements for temporary traffic control
- c establish the minimum geometric, cross section and surfacing standards for temporary works
- **d** provide appropriate transitions and enable safe and efficient traffic flow into, through and out of work sites
- **e** protect the Contractor's personnel at all times
- **f** protect the Assets and the Contractor's resources at all times.
- **g** Meet the operational requirements for the road

The Traffic Management Plan must include at least the following:

Lay out diagrams, method statements etc. for implementation of traffic control while undertaking each aspect of the Works and Services (including site specific layout diagrams and method statements if the Services require traffic control measures not covered by standard codes of practice)

A documented process for preparation, review and approval of the Traffic Management Plan

A document tracking and control system to ensure that only the latest operative copy of the Traffic Management Plan is in circulation

Contact details for Contractor, Principal, emergency services and other stakeholders.

5.3 Safety Management Plan

If required in the Special Conditions of Contract (SCC) the Program of Performance shall include a Safety Management Plan. The Safety Management Plan establishes the practices for safety management at work sites. The Safety Management Plan must be developed by the Contractor and agreed with the Engineer.

The objectives of the Safety Management Plan are to:

- a clearly define and document the responsibilities and chain of command for the development, implementation and management of safety control measures and systems
- **b** establish the minimum requirements for the safety of workers, road users and community people using the Road
- **c** protect the Contractor's personnel at all times.

The Safety Management Plan must include at least the following:

Method statements for implementation of work safety undertaking on each aspect of the Works and Services (including safety gears for workers, use of tool box meetings for safety awareness, provision of work safety signs, training of workers on safe use of tools and equipment, safety inspection under the patrolling by Self Control Unit and commitment by the Contractor on adherence to the Occupational Safety and Health Act, 2007 amended on 2010.)

A documented process for preparation, review and approval of the Safety Management Plan

A document tracking and control system to ensure that only the latest operative copy of the Safety Management Plan is in circulation

Contact details for Contractor, Engineer, emergency services and other stakeholders.

5.4 Environmental Management Plan

If required in the Special Conditions of Contract (SCC) the Program of Performance shall include an Environmental Management Plan. The Environmental Management Plan establishes the practices for environmental management at work sites. The Environmental Management Plan must be developed by the Contractor and agreed with the Engineer.

The objectives of the Environmental Management Plan are to:

- **a** clearly define and document the responsibilities and chain of command for the development, implementation and management of environmental control measures and systems
- **b** establish the minimum requirements for environmental control measures for maintaining the adequate environment for workers, road users and community people using the Road
- c maintain the awareness of the Contractor's personnel on environmental protection at all times

The Environmental Management Plan must include at least the following:

Method statements for maintaining the adequate environmental on work sites undertaking on each aspect of the Works and Services (including specific dumping locations of debris and materials unwanted from the Road, use of tool box meetings for environmental protection awareness, training of workers on environmental control measures, inspection under the patrolling by Self Control Unit and commitment by the Contractor on adherence to the regulations and acts enacted by the government of Kenya under National Environmental Management Authority.)

A documented process for preparation, review and approval of the Environmental Management Plan

A document tracking and control system to ensure that only the latest operative copy of the Environmental Management Plan is in circulation

Contact details for Contractor, Engineer, emergency services and other stakeholders

5.5 Emergency Procedures and Contingency Plan

If required in the Special Conditions of Contract (SCC) the Program of Performance shall include an Emergency Procedures and Contingency Plan which shall establish the roles, practices and procedures during specific types of emergency events identified in the plans and contingency plans associated with the closure of roads. The Emergency Procedures and Contingency Plan must be developed by the Contractor and agreed with the Engineer and any other stakeholders the Engineer may identify.

The purpose of the Emergency Procedures and Contingency Plan is to ensure the safety of the Contractor's personnel and road users in the case of emergency and/or road closure. It should include: an effective communication and event recording system the name, contact number and specific duties of the Contractor's personnel nominated to respond to an emergency even the contact number of other parties who need to be notified in cases of emergency events, e.g. police detailed response procedures for all emergency events possible detour routes in the event of road closure

6. Service Criteria

The Contractor is required to carry out the Maintenance Services and to maintain the specific road related assets and items as stipulated in Clause 1.2.2 of the Performance Specifications during the contract duration in compliance with the Road Performance Standards as defined by the Service Criteria as stipulated hereunder.

The Employer requires the Contractor to maintain roads under the contract to be safe and efficient together with the satisfactory level of availability to road users. In order that the Contract or can achieve such, service criteria are established for guidance and classified into three Service Categories; i.e. Road Usability, Road User Comfort and Road Durability.

- 1) Road Usability is a description that encompasses the scope of passability of the Road, and service level requirements entailed for each.
- 2) Road User Comfort is a description that encompasses the scope of operational performance indicators of road assets from the road user comfort perspective, such as cleanliness, smooth riding surface, sight distance availability, shoulder availability, adequacy of safety features and functionality of NMT facilities, and service level requirements entailed for each
- 3) Road Durability is a description that encompasses the scope of operational performance indicators of road assets from the Employer's perspective towards monitoring and prolonging the life spans of the assets such as drainage capabilities, functionality of structures, functionality of road furniture and suitability of road profiles, road widths, embankments, slopes and vegetation control.

The service level requirements, defects and the response times thereof that the Contractor must comply with and separately adhere to are defined in the Performance Standards for the various standard service level categories indicated in the appendices shown in table 6.1 below;

Table 6.1. Performance Standards

Appenaix	Service Level Categories	кедшгеа Levei
А	Performance Standards for Paved High Road	
В	Performance Standards for Paved Standard Road	
C	Performance Standards for Unpaved High Koad	

	Ŋ	Performance Standards for Unpaved Standard Road	
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7. Self-Control Unit (SCU)

The Contractor is required to establish a Self-Control Unit within his project organization throughout execution and completion of the Works and Services to the satisfaction of the Engineer. The roles of the SCU:

- **1.** For conducting self-inspection to verify the degree of compliance with the Road Performance Standards as defined by the Service Levels and maintain the reporting system of self-inspection.
- Assessment of the Road. The Self-Control Unit shall have a complete knowledge of the road condition, both on and off carriage way, at all times by carrying out patrolling, to the satisfaction of the Engineer.
- **3.** The Self-Control Unit is responsible for Gathering information required by the Contractor to prepare the Monthly Statement.
- **4.** The carrying out, in close cooperation with the Engineer, the Form a land Informal Inspections of Service Levels which will take place as required.

The Contractor is required to assign a technically qualified and trained person, or persons, to continuously verify the degree of compliance of Service Levels. The Contractor is also required to arrange a satisfactory means of mobility for conducting patrolling to the satisfaction of the Engineer.

8. Site Inspection and Patrolling/Reporting

The Contractor is required to undertake the following management tasks to ensure the full integrity of the Road throughout execution and performance of the Works and Maintenance Services.

8.1 Site Condition Assessment before Commencement of Works and Services

The Contractor shall conduct initial site condition assessment before commencement of the Works and Services under the contract. In case any defects and deficiencies are discovered under the assessment, the Contractor shall notify the Engineer by submitting the Defect Detection and Rectification List as attached to the Appendix 1 of the Performance Specifications and upon agreement of the Engineer, the Contractor shall carry out rectification works as the Rehabilitation Works.

In case the Contractor discovers cases of illegal encroachment and illegal dumping of unwanted materials or otherwise illegal actions by the third parties, the Contractor shall notify the Engineer for further instructions as required.

8.2 Determination of Subsection and Installation of Marker Posts

The Contractor shall either mark clearly on the road or install temporary posts to determine the subsections inspection purposes. The Contractor shall submit the record of such identification and markers to the Engineer.

8.3 Patrolling/Reporting

The Contractor shall carry out patrolling of the Road as required under the contract. Such patrolling shall be reported to the Engineer without delay through submission of the Daily Work Record, Daily Patrol Record, Monthly Photo Record and Incident Report as attached to the Appendices 2, 3, 4 and 5 of the Performance Specifications. The Contractorisals or equired to give the result of self-inspection to the Engineer without delay through submission of the Detail Self Inspection Result Record Form (Paved Road) as attached to the Appendix 6 of the Performance Specifications.

In case the Contractor discovers cases of illegal encroachment and dumping of unwanted materials or illegal actions by third parties, the Contractor shall notify the Engineer for further instructions as required.

8.4 Ad hoc Inspection

The Engineer may carry out ad-hoc inspections to verify the degree of compliance with the Road Performance Standards as defined by the Service Levels. He may do so on his own initiative, at anytime and anywhere on the roads under the contract. If he detects any road sections where the Service Level criteria are not met, he is required to notify the Contractor within 24 hours in writing as the Corrective Order, to enable the Contractor to

take remedial action as soon as possible. The results of ad-hoc inspections may not be used by the Engineer for purposes of correcting the Contractor's monthly statements or applying penalties, except for cases in which the traffic flow on the road has been completely interrupted due to the negligence and tardy action by the Contractor.

9. Monthly Statement

9.1 Preparation for Monthly Statement

For the Works and Maintenance Services executed and performed during the month, the Monthly Statement shall be prepared by the Contractor in accordance with the GCC Clauses 46, 47, 48, 49, 50 and 51. The format of Monthly Statement is attached as Appendix 7.

For the Maintenance Services. The Contractor shall take the following actions;

- 1) Prior to compilation of the Monthly Statement for each month, the Contractor is required to prepare the Payment Reduction Calculation Table for the month by utilizing the result of the most recent self-inspection recorded in Self Inspection Result Record Form to determine the total length of non-compliant sections for each Service Scope and for calculation of the reductions required for the month by determining the percentages of non-compliant sections for each Service Scope. The formats of Payment Reduction Calculation Table are attached as Appendix 8.
- 2) The prepared Payment Reduction Calculation Table shall become the basis of the payment request for the Maintenance Services.
- 3) Upon completion of Formal Inspection, the amounts indicated on the Monthly Statement and the Payment Reduction Calculation Table will be adjusted, if required. Such modified Monthly Statement and Payment Reduction Calculation Table shall be countersigned by the Engineer to sign it and present it to the Employer for payment, and to the Contractor for information.

9.2 Reduction Weighting for Non-Compliance on Maintenance Services

In accordance with the relevant clauses of the Performance Specifications and GCC, payment reduction is applied in case of non-compliance with Service Levels.

The total aggregate weighting of 200% is applied to various Service Criteria and Documentation. The reduction weighting for each is indicated below.

Service Criteria/Documentation

- Documentation (Submission of documents specified under Programme of Performance) (% doc)
- 2. Passability: (% pas)
- 3. Smooth and Safe Traffic: (% sst)
- 4. Visibility: (% vis)
- 5. Traffic Information: (% ti)
- 6. Drainage Capability: (% dc)
- 7. Vegetation Control: (% vc)
- 8. Maintenance on Other Structures: (% mos)
- 9. Slope Stability: (% ss)

Reduction Weight in case of Non- Compliance

4% of the monthly lump sum for on km applied if the document is not submitted.

40% of the monthly lump sum for one km applied to each one km section which does not comply.

30% of the monthly lump sum for one km applied to each one km section which does not comply.

20% of the monthly lump sum for one km applied to each one km section which does not comply

20% of the monthly lump sum for one km applied to each one km section which does not comply

30% of the monthly lump sum for one km applied to each one km section which does not comply

30% of the monthly lump sum for one km applied to each one km section which does not comply

30% of the monthly lump sum for one km applied to each one km section which does not comply

6% of the monthly lump sum for one km applied to each one km section which does not comply

(% xx indicates the percentage of service criteria non-compliant during the month for Service Criteria xx.

The amount of reduction for the Maintenance Services will be calculated as follows:

If the Contractor fails to remedy a cause of non-compliance for which a payment reduction has already been applied, the amount of the payment reduction increases month by month for that cause of non-compliance, without a ceiling being applied, until compliance is established.

The amount of payment reduction for such case will be calculated as follows;

- 1) If the non-compliance has not been remedied within the first thirty days of non-compliance, additional payment reduction for periods beyond 30 days will be split into each 30 days.
- 2) The additional payment reduction for periods beyond 30 days is calculated using the formula indicated below,

PR =
$$2^{n}$$
PR₀, where
$$n = \left\{ \frac{J-1}{30} \right\}$$
 rounded up to full number (without decimals)

J= number of days of non-compliance beyond thirty days

PR₀ is the amount of the initial payment reduction.

10. Formal Inspection

The Formal Inspection shall be carried out jointly by the Engineer and the Road Manager at the end of each month. The Engineer shall notify the Contractor that he intends to carry out Formal Inspection in writing within 7 days of notification. The Contractor shall inform the Engineer of the proposed date and time and shall prepare for Formal Inspection. The main purpose of carrying out the Formal Inspection is to enable the Engineer to verify the information presented in the Contractor's Monthly Statement with the actual observed and measured conditions on the site.

10.1 Procedure for Formal Inspection

The Contractor shall submit the following documents as indicated in Table 10.1 to the Engineer for scrutiny prior to the Formal Inspection after the receipt of notification of carrying out Formal Inspection. The Contractor shall provide sufficient time to the Engineer to allow full scrutiny of the submitted documents.

T 11 40 4	. .	C -	c —	
Table 10.1	List of	f Documents	tor Forma	l Inspection

Appendices	Names of Documents	Mandatory Submission	Submission, if requested by the Engineer
1	Defect Detection and Rectification Lists	0	
2	Daily Work Records		0
3 _	Daily Patrol Records		0
4	Monthly Photo Records		0
5 _	Incident Condition & Activity Reports		0
6 _	Detail Self-Inspection Result Record Form	0	
7	Payment Reduction Calculation Table	0	

The criteria of each Service Level shall be checked jointly by the Engineer and the Road Manager at sections selected by the Engineer based on visual appearance. The Engineer shall be the sole judge of compliance. If a specified criterion is not met, the one-kilometer section in which the deficit occurs will be judged non-compliant in accordance with the Self Inspection Result Record Form.

The Engineer shall prepare a brief Memorandum describing

- i) The general circumstances of the site visit, including date, road sections visited, persons present, etc.,
- ii) Any non-compliance which may have been detected, and
- iii) The time granted by the Engineer to the Contractor to remedy the detected defects.

The results of Formal Inspection on Service Levels will be recorded by the Engineer in this Memorandum. The Memorandum will state the type and location of any non-compliance detected, in particular those non-compliances already shown in the most recent Self Inspection Result Record Form provided by the Contractor as part of the Monthly Statement. For each individual case of non-compliance, the Engineer will determine a date by which the Contractor must have completed the necessary measures in order to remedy the cause of the non-compliance. A follow-up site visit is therefore necessary at the date fixed by the Engineer, or soon thereafter, in order to verify that the Contractor has indeed remedied the cause of non-compliance. If at the date indicated in

the Memorandum, the Contractor has not remedied the cause for non-compliance, independent of the reason given for their failure to do so, the Contractor is subject to payment reduction in accordance with the relevant clauses of the Performance Specifications and GCC.

Based on the outcome of the Formal Inspection and subsequent remedies by the Contractor or otherwise, the Engineer will correct any possible errors or misrepresentations in the Contractor's Monthly Statement, countersign it and present it to the Employer for payment, and to the Contractor for information.

11. Performance Monitoring by the Employer

The Contractor shall acknowledge that the Employer encourages adoption of proactive approach by the Contractor on performing the Maintenance Services. To maintain such approach, the Employer shall have the power to entrust the Engineer to conduct monthly performance monitoring on the Contractor.

- 1) Performance monitoring will be conducted on service level compliance, self-control unit performance, work safety performance, performance on environment and social management, corrective order management and statutory compliance. The format of Monthly Evaluation Form is attached as Appendix 9, for the purpose of performance monitoring.
- 2) The result of performance monitoring of each month will be used for the evaluation of the Contract or at the end of each year. Evaluation of the Contractor shall be carried out by the Engineer using the Contract Evaluation Tally Sheet, which is attached as Appendix 10.
 - The total aggregate weighting of 100% is applied to 6 criteria in 1) above, with the weighting of 50% on service level compliance, 20% on work safety performance, 0% on statutory compliance and the remaining criteria each weighing 10%.
- 3) The result of each month on each criterion will be evaluated either a pass or a fail. The tally will be made at the end of each month, collected to the end of the year and to arrive at the performance of the criterion as the percentage of pass attained during the year. The respective weight will be applied to arrive at the evaluation score, with the maximum score of 100 and the minimum score of 0. For statutory compliance, the evaluation score will not be tabulated, but a penalty of 20 will be imposed in case the Contractor faces violation on statutory compliance at least once in a year.

12. Handover Report

Immediately prior to the completion of the contract, the Contractor shall prepare a Handover Report and submit to the employer. The purpose of the Handover Report is to provide a smooth transition to the next contract and ensure that the next contractor is aware of any outstanding issues. The Report will:

- a) Summarize any unresolved issues;
- b) Include the most recent complete set of data on the roads covered by the contract, and
- c) Provide the following details as shall be agreed by the Engineer:
 - i) A schedule of outstanding defects.
 - **ii)** Any unresolved issues, especially those that may impact on the next Contractor.
 - iii) Details of any sensitive issues.
 - iv) Any on-going special monitoring/maintenance needs.

APPENDICES

Appendix A: Performance Standards for Paved High Standard Road

ROAD USABILITY

Service criteria			RESPONSE TIME			
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE		
I) Passability	I) Passability					
Pavement	Obstruction on passage	The road should always allow for passage of traffic	<< 1 hr >>	No tolerance permitted		
	Obstruction on overhead clearance		<< 1 hr >>	permitted		

ROAD USER COMFORT

Service crite	ria		RESPONSE TIME	
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE
I) Smooth an	nd Safe Traffic			
1.Pavement	Unclean Pavement	The road must always be clean and free of soil, debris, trash and other objects.	<<3 hours >>	i) No tolerance permitted.
	Pavement too rough for road use	The pavement must at all times be kept to an acceptable level of roughness.	<<1 week>>	The permitted level of tolerance of the hand over IRI. Shall be a maximum of 2.5mm/m higher than the takeover IRI.
	Potholes	All visible potholes must be repaired	<<2 Days>>	No tolerance permitted.
	Cracking in Surface (Alligator, Transverse and Longitudinal).	All cracks >> 3mm in width must be repaired.	<<1 week>>	The permitted maximum cracked area ≤5% in any subsection. see note 1
	Rutting	All rutting of more than 2cm deep must be repaired.	<<28 days>>	The permitted maximum rutted area > 2 cm deep is ≤ 2 % in any subsection. see note 2

Service criteria Check Element Defect			RESPONSE TIME		
		Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE	
I) Smooth and Saf	e Traffic				
1.Pavement	Heaving/Shoving	All shoving and heaving causing depression of > 40 mm must be repaired.	<<28 days>>	The permitted maximum area under heaving/ shoving ≤5%	

Service criteria			RESPONSE TIME	
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE
				in any subsection.
				see note 1
	Bleeding (complete) Bleeding	The pavement must at all times be kept free from bleeding	<<28 days>>	The permitted maximum area under bleeding ≤5% in any subsection.
				See note 1.
	Glazing	The pavement must at all times be kept free from Glazing at all times.	<<28 days>>	The permitted maximum area under Glazing ≤ 5% in any subsection. see note 1
	Ravelling	All ravelled areas that are more than 5mm deep must be repaired.	<<28 days>>	The permitted maximum ravelled area > 5mm deep is ≤ 2 % in any subsection. see note 2
	Stripping/Fretting	Loose depth of fine Aggregates >20mm must be repaired	<<28 days>>	The permitted maximum area undergoing stripping/fretting ≤5% in any subsection.
	Edge Damage	All loose pavement edges, and/ or pieces of pavement breaking off at the edges must be made good.	<<1 week>>	The permitted maximum affected length ≤2% in any subsection.
	Cracking in Concrete	All cracks > 0.2 mm in width	<<1 week>>	
	Cracking in Concrete pavement	must be sealed	~~1 week//	The permitted maximum cracked area
		Cracks > 3.0 mm	<<1 week>>	<1 % in any subsection.
		< 0.5 mm and 3.0 mm>		see note 4
		Cracks > 0.5 mm.	<< 2 weeks >>	

Service criteri	ia		RESPONSE TIME		
Element	Defect	Service Level	<< x hours>> means "within x hrs./Days/wks."	TOLERANCE	
I) Smooth and	l Safe Traffic				
1.Pavement	Damage on Interlocking Paving Blocks.	1) Must be without deformations and depression so that the cross fall allows for free-flowing water so that there isn't any water ponding.	<< 24 hours>>.	1) No ponding water allowed on the paved surface for >4 % in any subsection.	
		2) Free of visible defects and missing pieces.			
2.Shoulder	Damaged (Scoured/Rutted/Depresse d/Potholed) paved	1) Repaired to avoid water penetration	<<2 weeks >>	1)Cross fall < the camber on the paved surface > than 4 % of	

	shoulders	2) without deformations and erosion so that the cross fall is not less than the camber on the paved surface 3) free of visible potholes, cracks wider >3mm, multiple cracks and rutting of > 2cm		the subsection. 2) The permitted maximum cracked area with cracks>> of 3 mm wide <<10 % of the area in any sub-section.
	Shoulder Carriageway Step.	At all sections, difference in height at edge of pavement must be maintained to < 5cm.	<<1 week>>	The permitted maximum affected length of difference in height < 2 % for each subsection. see note 5
3.Median	Unclean Median	Must always be clean, free of debris and objects which must be removed within the time given if they pose danger to traffic safety	<< 3 days >>	No tolerance permitted.
	Ponding and spillage	The level of filling in the median should be maintained such that there is no water ponding and no fill material spills onto the carriageway	<< 2 week>>	No tolerance permitted.

Service criteria	ı		RESPONSE TIME		
Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE	
I) Smooth and	Safe Traffic				
3.Median	Poorly maintained Vegetation.	Median plantations must be maintained properly with watering and pruning as required from time to time. The height of plantations < 1m at any time. There must be no obstruction in sight distance and no fallen plantations on roadway are allowed.	<< 2 weeks>>.	No tolerance permitted.	
4.Footpath	Obstruction due to soil, debris, trash rocks, fallen trees.	All footpaths must be clean, in good condition and fully functional. Should be well drained, No Potholes and have access to people with Disability.	<< 3 hours >>	No tolerance permitted.	
5.Foot Bridge	Broken footbridge steps	Footbridge must be in good condition and fully functional	<< 3 hours >>	No tolerance permitted.	
II) Visibility				_	
1.Sight Distance of availability	Vegetation obstructs visibility or is within the vegetation free zone	Must be removed if 5.5m above the road surface and/or the minimum sight distance of 240m is not maintained	<<24 hours >>.	No tolerance permitted.	
2.Street Lighting	Two or more consecutive lights not functioning/missing bulbs	Road must always be well lit during the specified hours at night.	<< 24 hours>>.	The permitted maximum tolerance is 5 % of	

III) Traffic Info	ormation			the length of the road equipped with street lighting is
1.Signage	Absence of relevant warning signs/Mandatory signs	All signage must be present, complete, clean, legible, reflective and firmly installed	<<24 hours >>	Max. Tolerance is 5 % of the signs are below the defined Service Level in any subsection.

Service criteria	a		RESPONSE TIME		
Element	Defect	Service Level	<< x hours>> means "within x hrs/days/wks."	TOLERANCE	
III) Traffic Inf	ormation				
1.Signage	Absence of relevant Information Signs, Edge marker Post, Guide Post, Kilometre post	All signage must be present, complete, clean, legible, reflective and firmly installed	<< 2 days >>	Max. Tolerance is 5 % of the signs are below the defined Service Level in any subsection.	
	Absence of relevant Traffic signals	All traffic signals must be clean, operational and well synchronized	<< 24 hours >>	No tolerance permitted	
2. Road Works Advance warning signs	Absence of relevant warning signs/obscured by vegetation	Must be placed when clearing works are required to be undertaken.	<< 1 hour>>	No tolerance permitted	
3. Road Marking	Faded marking, Damaged road reflectors	All road markings/ road studs including 'cat's eyes' are clear, visible and functional. If the reflection factor is < 35% of the specified design value:	<< 4 weeks>>	The permitted maximum tolerance is 5 % of the area of road markings and the number of road studs below the defined Service Level.	

ROAD DURABILITY

Service criteria			RESPONSE TIME	
Element Defect		Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE
I) Drainage Capab	ility			
1. Side Drains, Mitre Drains, Cut off drains (Lined)	Obstructions due to silt, sediments, debris, soil, materials washed after storm	Must be clean, free of sediments and obstructions to ensure free flowing conditions at all times	<< 3 days >>	The permitted maximum tolerance is 5% of the length of drains below the defined Service Level.
2. Side Drains, Mitre Drains, Cut off drains (Unlined)		Must be clean and free of obstructions to ensure free flowing conditions at all times	<< 3 days >>	The permitted maximum tolerance is 5% of the length of drains below the defined Service Level.

Service criteria			RESPONSE TIME	
Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE
I) Drainage Capab	oility.			
3. Culverts and Drifts	Obstructions due to debris	Must be clean and free of obstacles to ensure free flowing conditions at all times	Siltation/ Obstruction must be cleared << 3 days >>	The permitted maximum tolerance is 5% of the length of drains below the defined Service Level.
	Obstruction due to Structural Damage		Damages must be repaired <<2 weeks >>	
	Obstruction due to Broken Culvert.		Broken culverts should be reported to the Engineer << 24 hours>>	No tolerance permitted
4. Scour Checks, gabions and other erosion protection structures and gabions	Erosion due to malfunction of the structures.	Must be fully functional with no serious defects that can endanger the structure, roadway or pose safety hazard to road users	<<1 week>>	The permitted maximum tolerance is 5 %of the length below the defined Service Level.
5. Manholes and Gulley pots	Blocked manholes/ obstructions due to debris	Must be clean and free from obstructions and without structural damage and ensure free flowing conditions	<<3 days>>	The permitted maximum tolerance is 5%of the number of manholes and gulley pots below the
			Damaged manholes and gulley pots << 1 week>>	defined Service Level.
II) Vegetation Cont	rol			
1. Vegetation free zone	Unwanted vegetation on the Vegetation free zone	Carriageway, shoulders and structures must be kept with no vegetation	Height: 0mm at all times	No tolerance permitted. see note 6.
2. Inner vegetation Zone	Overgrown vegetation	Inner vegetation must zone, edge of shoulders to back of side drain /ditch or 2m away	Height ≤25 mm, ≥150 mm at all times	The permitted maximum tolerance is 5 %of the length below the defined
		from edge of shoulder on straight and outside of curves and 5m on the inside of curves. Also control of vegetation around street furniture and other features.	Outer vegetation <<25mm and 300 mm>>	Service Level in any subsection. see note 6.
	Overhanging Branches obstructing visibility.	Must be removed if within 5.5m above the road surface and/or the minimum sight distance of 240m is not maintained.	<<1 week>>	No tolerance permitted

Service criteria			RESPONSE TIME	
Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE
II) Vegetation Control			III 3.7 day 37 WK3.	
4. Trees within ROW	Self sown tree of nuisance >1 m high	Must be removed in case of outgrown roots which damage the road/structure Dead trees within	<< 1 month>> << 1 week>>	The permitted maximum tolerance is 5 % of the number of trees are below the defined Service Level in any subsection
	presents risk of falling onto the road	outer vegetation zone must be removed.	· · · · week	
III) Maintenance of other Structur		removeav		
1. Concrete structures	Structural deterioration	Concrete structures must be in good condition and fully functional.	In case of structural damage, the contractor to notify the	No tolerance permitted
Blocked culvert	Obstruction due to sediments, soils and washed materials	Must be free flowing at all times	Engineer <<24 Hours>>	
2. Steel structures	Structural deterioration, leaking structures	The steel structures (e.g. Bridge and pedestrian bridge) must be clean, in good condition, free of corrosion and fully functional.	In case of structural damage, the contractor to notify the Engineer <<24 Hours>>	No tolerance permitted
3. Bridge expansion joints	Debris impending joint movement/ damaging the joint	All expansion joints must be clean and in good condition and fully functional	In case of any condition which threatens structural integrity of the expansion joint, the Contractor must notify the Engineer <<24 Hours>>.	No tolerance permitted
4. Guardrail / Pedestrian Rail	Deformed/ Missing guardrails	Guardrails must be in good condition and fully functional.	<< 1 week>>	No tolerance permitted
5. Riverbeds	Obstructions due to debris or inappropriate vegetation	Riverbeds must be maintained to ensure free flow of water under the bridge and up to 50 meters upstream and downstream of the river at all times	Any accumulation of debris <400 mm must be removed.	No tolerance permitted
	Eroded river beds	Erosion around bridge abutments and piers must be controlled with all reasonable measures at all times.	Causes for non-compliance must be eliminated within 2 weeks after water has sufficiently receded to allow	However, the damaged portion pending repairs maybe left on site with proper signs and safety arrangements.

Service criteria			RESPONSE TIME	
Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE
II) Vegetation Control				
4. Trees within ROW	Self sown tree of nuisance >1 m high	Must be removed in case of outgrown roots which damage the road/structure	<< 1 month>>	The permitted maximum tolerance is 5 % of the number of trees are below the defined Service Level in any subsection
	Dead tree that presents risk of falling onto the road	Dead trees within outer vegetation zone must be removed.	<< 1 week>>	
			working conditions.	

Service crite	eria	Service Level	RESPONSE TIME	TOLERANCE			
Element	Defect		<< x hours>> means "within x hrs./days/wks."				
IV) Slope St	IV) Slope Stability						
1. Embankme nt slopes	Possible slope failure	All embankment slopes must be without deformations/damages and erosions of more than 100 mm in depth	<< 1 week >>	The permitted Max. Tolerance is 5 %of the length of the road with embankment slopes is below the defined Service Level in each subsection.			
2. Slopes in Cuts	Possible slope failure	All slopes in cuts must be stable	Fallen slope material must be removed, Quantities below 10m³ per Km section from pavement << 4hrs >> from shoulders << 1day >>	No tolerance permitted			

Response Time is the Time taken to repair a defect from the time of its detection.

Notes:

Note 1: Say A sub-section is 200m long. The length below the defined service level must not exceed 10min the sub-section.

Note2: Say area of sub-section of 200m length=7mx200=1400sqm. Area of cracking not to exceed 70sqm in the sub-section.

Note 3: Say area of sub-section of 200m length=7mx200=1,400sqm. Area of cracking not to exceed 28sqm in the sub-section.

Note 4: Say sub-section of 200m length and the affected length of pavement edges not to exceed 4min the sub-section.

Note 5: Say sub-section of 200m length and. The affected length of difference in height not to exceed 4min the sub-section.

Note 6: For vegetation control such as vegetation free zone and inner vegetation, please refer to the vegetation control cross section indicated in the next page.

APPENDIX B: PERFORMANCE STANDARDS FOR PAVED STANDARD ROAD

USABILITY

Service criteria			RESPONSE TIME	TOLERANCE
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	
I) Passability				
Pavement	Obstruction on passage	The road should always allow for passage of	<< 2 hrs.>>	No tolerance permitted
	Obstruction on overhead clearance	traffic	<< 2 hrs.>>	No tolerance permitted

ROAD USER COMFORT

Service criter	ria		RESPONSE TIME	
Element	Defect	Service Level	<< x hours>> means "within x hrs./ days/ wks."	TOLERANCE
1) Smooth an	d Safe Traffic			
1.Pavement	Unclean Pavement	The road must always be clean and free of soil, debris, trash and other objects.	<<12 hours >>	i) No tolerance permitted.
	Pavement too rough for road use	The pavement must at all times be kept to an acceptable level of roughness.	<<5 Days>>	The permitted level of tolerance of the IRI shall be a maximum of 11 mm/km.
	Potholes	Max.permitted area within 1 km depth of pothole >5 cm and dia.25 cm.	<<1 week>>	The permitted maximum area ≤5% in any subsection.
	Corrugations	Max.spacing 3.0 cm.	<<1 week>>	The permitted max. Corrugated area ≤5% in any subsection. see note 1
	Rutting	All rutting of >7 cm deep must be repaired.	<<1 week >>	The permitted maximum rutted area > 7 cm deep is≤ 5 % in any subsection. see note 1
	Loss of Camber	The Camber must be kept at 5.0 %.	<<1 week >>	≤1.0 %
	Erosion Gullies	The pavement must at all times be kept free from Gullies	<<28 days>>	The permitted maximum area under ≤5% in any subsection. see note 1.
	Soft Spots	The pavement must at all times be well drained, Quality base materials must be used at all times.	<<28 days>>	The permitted maximum Soft Spot area≤ 5% in any subsection. see note 1

Service criteria			RESPONSE TIME	
Element	Defect	Service Level	<< x hours>> means "within x hrs./ days/ wks."	TOLERANCE
I) Smooth and	Safe Traffic			
1.Pavement	Loss of Gravel Depth	The gravel thickness along the road center line must be equal to design thickness.	<<6 Months>>	No tolerance permitted
Shoulder	Damaged (Scoured/ Rutted/ Depressed /Potholed/ High vegetation) unpaved shoulders	1) Repaired to avoid water penetration	<<28 days >>	1) Cross fall < the camber on the unpaved surface > 4 % of the subsection.
		2) without deformations and erosion so that the cross fall is not less than the camber on the paved surface 3) free of visible potholes, cracks wider >3mm, multiple cracks and rutting of > 2cm		2) The permitted maximum cracked area with cracks> 3 mm wide <10 % of the area in any sub-section.
	Shoulder/ Carriageway Step.	At all sections, difference in height at edge of pavement must be maintained to < 5cm.	<<2 weeks>>	The permitted maximum difference in height should be < 2 % for each subsection. see note 2
Footpath	Obstruction due to soil heaps, debris, trash rocks, fallen trees, abandoned vehicles, rubbish.	All footpath must be clean, in good condition and fully functional. Should be well drained, No Potholes and have access to people with Disability.	<< 3 hours >>	No tolerance permitted.
II) Visibility		·		
Sight Distance availability	Vegetation obstructs visibility or is within the vegetation free zone	Must be removed if >5.5m above the road surface and/or the minimum sight distance of 240m is not maintained	<<24 hours >>.	No tolerance permitted.
III) Traffic Inf	ormation			
Signage	Absence of relevant warning signs/Mandatory signs	All signage must be present, complete, clean, legible, reflective and firmly installed	<<1 week >>	Max.tolerance is 5 % of the signs are below the defined Service Level in any subsection.
	Absence of relevant Information Signs, Edge marker Post, Guide Post, Kilometre post	All signage must be present, complete, clean, legible, reflective and firmly installed	<< 2 weeks >>	Max.tolerance is 5 % of the signs are below the defined Service Level in any subsection.

Service criteria			RESPONSE TIME	
Element	Defect	Service Level	<< x hours>> means "within x hrs./ days/ wks."	TOLERANCE
III) Traffic Infor	mation			
Signage	Absence of relevant Traffic signals	All traffic signals must be clean, operational and well synchronized	<< 3 days >>	No tolerance permitted
	Absence of minimum Traffic Speed	Minimum traffic speed is 40 km/hr.	<< 5 days>>	Not Applicable
Road Works Advance warning signs	Absence of relevant warning signs/obscured by vegetation	Must be placed when clearing works are required to be undertaken.	<< 6 hours>>	No tolerance permitted

ROAD DURABILITY

Service criteria			RESPONSE TIME			
Element	Defect	Service Level	<< x hours>> means "within x hrs./ Days/wks."	TOLERANCE		
I) Drainage Cap) Drainage Capability					
1. Side Drains, Mitre Drains, Cut off drains	Obstruction due to sediments, soils, debris and washed materials	Must be clean and free of obstructions to ensure free flowing conditions at all times	<< 1 week >>	The permitted maximum tolerance is 5% of the length of drains below the defined Service Level.		
2. Culverts and Drifts	Obstructions due to debris	Must be clean and free of obstacles to ensure free flowing conditions at all times	Siltation/ Obstruction must be cleared << 7 days >> Damages must be repaired <<3 weeks >>	The permitted maximum tolerance is 5% of the length of drains below the defined Service Level.		
	Obstruction /Collapse due to Structural Damage		Broken culverts should be reported to the Engineer << 1 week>>	No tolerance permitted		
3. Scour Checks, gabions and other erosion protection structures and gabions	Erosion due to malfunction of the structures.	Must be fully functional with no serious defects that can endanger the structure, roadway or pose safety hazard to road users	<<1 week>>	The permitted maximum tolerance is 5 % of the length below the defined Service Level.		
II) Vegetation Control						
Vegetation free zone	Unwanted vegetation on the Vegetation free zone	Carriageway, shoulders and structures must be kept with no vegetation.	Height: 0mm at all times	No tolerance permitted		

Service criteria			RESPONSE TIME	
Element	Defect	Service Level	<< x hours>> means "within x hrs./ Days/wks."	TOLERANCE
II) Vegetation Con	itrol			
2. inner vegetation Zone	Overgrown vegetation	Inner vegetation must zone, edge of shoulders to back of side drain /ditch or 2m away from edge of shoulder on straight and outside of curves and 5m on the inside of curves. Also control of vegetation around street furniture and other features.	Height <<25 mm and 150 mm >>at all times Outer vegetation <<25mm and 300 mm>>	The permitted maximum tolerance is 5 %of the length below the defined Service Level in any subsection.
	Overhanging branches obstructing visibility.	Must be removed if > 5.5m above the road surface and/or the minimum sight distance of 240m is not maintained.	<<1 week>>	No tolerance permitted
3. Trees within ROW	Self-sown tree of nuisance >1 m high	Must be removed in case of outgrown roots which damage the road/structure	<< 1 month>>	The permitted maximum tolerance is 5 % of the number of trees are below the
	Dead tree that presents risk of falling onto the road.	Dead trees within outer vegetation zone must be removed.	<< 1 week>>	defined Service Level in any subsection.
III) Maintenance	of other Structures			
1. Concrete structures	Structural deterioration	Concrete structures must be in good condition and fully functional.	In case of structural damage, the contractor to notify the Engineer <<24 Hours>>	No tolerance permitted
	Blocked/Obstruction due to sediments, soils and washed materials	Must be free flowing at all times		
2. Steel structures	Structural deterioration, Leaking structures	The steel structures (e.g. Bridge and pedestrian bridge) must be clean, in good condition, free of corrosion and fully functional.	In case of structural damage, the contractor to notify the Engineer <<24 Hours>>	No tolerance permitted
3. Bridge expansion joints	Debris impeding joint movement/damaging the joint	All expansion joints must be clean and in good condition and fully functional	In case of any condition which threatens structural integrity of the expansion joint, the Contractor must notify the Engineer <<24 Hours>>.	No tolerance permitted

Service criteria			RESPONSE TIME		
Element	Defect	Service Level	<< x hours>> means "within x hrs./ Days/wks."	TOLERANCE	
III) Maintenance of other Structures					
4. Guardrail	Deformed/Missing	Guardrails must be in	<< 1 week>>	No tolerance permitted	

/Pedestrian Rail	guardrails	good condition and fully		
/reuesulali Kall	gudiuidiis	functional.		
5. Riverbeds	Obstructions due to debris or inappropriate vegetation	Riverbeds must be maintained to ensure free flow of water under the bridge and up to 50 meters upstream and downstream of the river at all times	Any accumulation of debris <400 mm must be removed.	No tolerance permitted
	Eroded river beds	Erosion around bridge abutments and piers must be controlled with all reasonable measures at all times.	Causes for non-compliance must be eliminated within 2 weeks after water has sufficiently receded to allow working conditions.	However, the damaged portion pending repairs maybe left on site with proper signs and safety arrangements.
IV) Slope Stabilit	y			
Embankment slopes	Collapse of embankment slopes	All embankment slopes must be without deformations/damages and erosions of more than 100 mm in depth	In case of any condition is observed, the Contractor must notify the Engineer <<24 Hours>>.	The permitted Max. tolerance is 5 %of the length of the road with embankment slopes is below the defined Service Level in each subsection.
2. Slopes in Cuts	Eroded/High vegetation//Collapse of slope.	All slopes in cut must either be stable or are stabilized with adequate retaining walls.	In case of any condition is observed, the Contractor must notify the Engineer <<24 Hours>.	No tolerance permitted

Response Time is the Time taken to repair a defect from the time of its detection.

Notes:

Note1: Say A sub-section is 200m long. The length below the defined service level must not exceed 10min the sub-section

Note 2: Say area of sub-section of 200m length=7mx200=1400sqm. Area of cracking not to exceed 70sqm in the sub-section.

Note 3: Say area of sub-section of 200m length=7mx200=1,400sqm. Area of cracking not to exceed 28sqm in the sub-section.

Note 4: Say sub-section of 200m length and the affected length of pavement edges not to exceed 4m in the sub-section.

Note 5: Say sub-section of 200m length and. The affected length of difference in height not toexceed4minthesub- section.

Note 6: For vegetation control such as vegetation free zone and inner vegetation, please refer to the vegetation control cross section indicated in the next page.

APPENDIX C: PERFORMANCE STANDARDS FOR UNPAVED STANDARD ROAD

ROAD USABILITY

Service criteria			RESPONSE TIME		
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/wks."	TOLERANCE	
I) Passability					
Pavement	Obstruction on passage	The road should always allow for passage of	<< 24 hrs,>>	No tolerance permitted	
	Obstruction on overhead clearance	traffic	<<24 hrs.>>	No tolerance permitted	

ROAD USER COMFORT

Service criteria	1		RESPONSE TIME	
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/weeks"	TOLERANCE
I) Smooth and	Safe Traffic		•	
1.Pavement	Unclean Pavement	The road must always be clean and free of soil, debris, trash and other objects.	<<24 hours >>	i) No tolerance permitted.
	Pavement too rough for road use	The pavement must at all times be kept to an acceptable level of roughness.	<<5 Days>>	The permitted level of tolerance of the IRI shall be a maximum of 11 mm/km.
	Potholes	Max.permitted area within 1 km depth of pothole should be <5 cm and dia.25 cm.	<<2 weeks>>	The permitted maximum area ≤5% in any subsection.
	Corrugations	Max.spacing 3.0 cm.	<<2 weeks>>	The permitted max. corrugated area ≤5% in any subsection. see note 1
	Rutting	All rutting of more than 7 cm deep must be repaired.	<<2 weeks>>	The permitted maximum rutted area >7 cm deep is ≤5 % in any subsection. see note 1
	Loss of Camber	The Camber must be kept at 5.0 %.	<<2 weeks>>	± 1.0 %
	Erosion Gullies	Proper transversal Drainage	<<28 days>>	The permitted maximum area under Erosion Gullies ≤5% in any subsection. see note 1.
	Soft Spots	The pavement must at all times be well	<<28 days>>	The permitted maximum Soft Spot

drained, Quality base	area ≤5% in any
materials must be used	subsection.
at all times.	see note 1

Service criteria	1		RESPONSE TIME	
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/weeks"	TOLERANCE
I) Smooth and	Safe Traffic			
1.Pavement	Loss of Gravel Depth	The gravel thickness along the road centre line must be equal to design thickness.	<<6 Months>>	No tolerance permitted
Shoulder	Damaged (Scoured/ Rutted/ Depressed/ Potholed/ High vegetation) unpaved shoulders	1) Repaired to avoid water penetration	<<28 days >>	1) Cross fall < the camber on the unpaved surface > 4 % of the subsection.
		2) without deformations and erosion so that the cross fall is not less than the camber on the paved surface 3) free of visible potholes, cracks wider >3mm, multiple cracks and rutting of > 2cm		2) The permitted maximum cracked area with cracks> 3 mm wide <10 % of the area in any sub-section.
	Shoulder/ Carriageway Step.	At all sections, difference in height at edge of pavement must be maintained to < 5cm.	<<2 weeks>>	The permitted maximum difference in height < 2 % for each subsection . see note 2
Footpath	Obstruction due to soil heaps, debris, trash rocks, fallen trees, abandoned vehicles, rubbish.	All footpath must be clean, in good condition and fully functional. Should be well drained, No Potholes and have access to people with Disability.	<< 3 hours >>	No tolerance permitted.
II) Visibility				
Sight Distance availability	Vegetation obstructs visibility or is within the vegetation free zone	Must be removed if >5.5m above the road surface and/or the minimum sight distance of 240m is not maintained	<<24 hours >>.	No tolerance permitted.
III) Traffic Inf	ormation			
2.Signage	Absence of relevant warning signs/Mandatory signs	All signage must be present, complete, clean, legible, reflective and firmly installed	<<2 weeks >>	Max.tolerance is 5 % of the signs are below the defined Service Level in any subsection.
	Absence of relevant Information Signs, Edge marker Post, Guide Post, Kilometer post	All signage must be present, complete, clean, legible, reflective and firmly installed	<< 4 weeks >>	Max.tolerance is 5 % of the signs are below the defined Service Level in any subsection.

Service criteria	Service Level	RESPONSE TIME	TOLERANCE

Check Element	Defect		<< x hours>> means "within x hrs./days/weeks"	
III) Traffic Info	ormation			
2.Signage	Absence of relevant Traffic regulatory signals Absence of minimum Traffic Speed	All traffic signals must be clean, operational and well synchronized Minimum traffic speed is 30 km/hr.	The Contractor to inform relevant Authorities.	Not Applicable Not Applicable
Road Works Advance warning signs	Absence of relevant warning signs/obscured by vegetation	Must be placed when clearing works are required to be undertaken.	<< 12 hours>>	No tolerance permitted

ROAD DURABILITY

Service criteria	l		RESPONSE TIME		
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/weeks"	TOLERANCE	
1) Drainage Ca	pability.				
1. Side Drains, Mitre Drains, Cut off drains.	Obstruction due to sediments, soils, debris and washed materials	Must be clean and free of obstructions to ensure free flowing conditions at all times	<< 2 weeks >>	The permitted maximum tolerance is 5% of the length of drains below the defined Service Level.	
and Drifts debris obstacles to ensure free flowing conditions at all times		Siltation/ Obstruction must be cleared << 1 week>> Damages must be repaired <<4weeks >>	The permitted maximum tolerance is 10 % of the length of drains below the defined Service Level.		
	Obstruction /Collapse due to Structural Damage		Broken culverts should be reported to the Engineer << 1 week>>	No tolerance permitted	
3. Scour Checks, gabions and other erosion protection structures and gabions	Erosion due to malfunction of the structures.	Must be fully functional with no serious defects that can endanger the structure, roadway or pose safety hazard to road users	<<4 weeks>>	The permitted maximum tolerance is 5 % of the length below the defined Service Level.	
II) Vegetation	Control				
1.Vegetation free zone	Unwanted vegetation on the Vegetation free zone	Carriageway, shoulders and structures must be kept with no vegetation.	Height: 0mm at all times	No tolerance permitted	

Service criteria			RESPONSE TIME		
Check Element Defect		Service Level << x hours>> means "within hrs./days/week		TOLERANCE	
II) Vegetation Cor	itrol				
2. inner vegetation Zone	Overgrown vegetation	Inner vegetation must zone, edge of shoulders to back of side drain /ditch or 2m	Height <<25mm and 300 mm>> at all times	The permitted maximum tolerance is 5 %of the length below	

		away from edge of shoulder on straight and outside of curves and 5m on the inside of curves. Also control of vegetation around street furniture and other features.	Outer vegetation<<25mm and 500 mm>>	the defined Service Level in any subsection.
3. Trees within ROW	Self-sown tree of nuisance >1 m high Dead tree that presents risk of falling onto the road.	Must be removed in case of overgrown roots which damage the road/structure Dead trees within outer vegetation zone must be removed.	<< 1 month>> << 1 week>>	The permitted maximum tolerance is 5 % of the number of trees are below the defined Service Level in any subsection.
III) Maintenance	of other Structures			
1. Concrete structures	Structural deterioration Blocked/ Obstruction due to sediments, soils and washed materials	Concrete structures must be in good condition and fully functional. Must be free flowing at all times	In case of structural damage, the contractor to notify the Engineer	No tolerance permitted
2. Steel structures	Structural deterioration, Leaking structures	The steel structures (e.g. Bridge and pedestrian bridge) must be clean, in good condition, free of corrosion and fully functional.	In case of structural damage, the contractor to notify the Engineer	No tolerance permitted
3. Bridge expansion joints	Debris impeding joint movement/ damaging the joint	All expansion joints must be clean and in good condition and fully functional	In case of any condition which threatens structural integrity of the expansion joint, the Contractor must notify the Engineer <<2weeks>>.	No tolerance permitted
4. Guardrail /Pedestrian Rail	Deformed/Missing guardrails	Guardrails must be in good condition and fully functional.	Damages and defects must be repaired << 2 weeks>>	No tolerance permitted

Service criteria			RESPONSE TIME				
Check Element	Defect	Service Level	<< x hours>> means "within x hrs./days/weeks"	TOLERANCE			
III) Maintenance of other Structures							
5. Riverbeds	Obstructions due to debris or inappropriate vegetation	Riverbeds must be maintained to ensure free flow of water under the bridge and up to 50 meters upstream and downstream of the river at all times	Any accumulation of debris >400 mm must be removed.	No tolerance permitted			

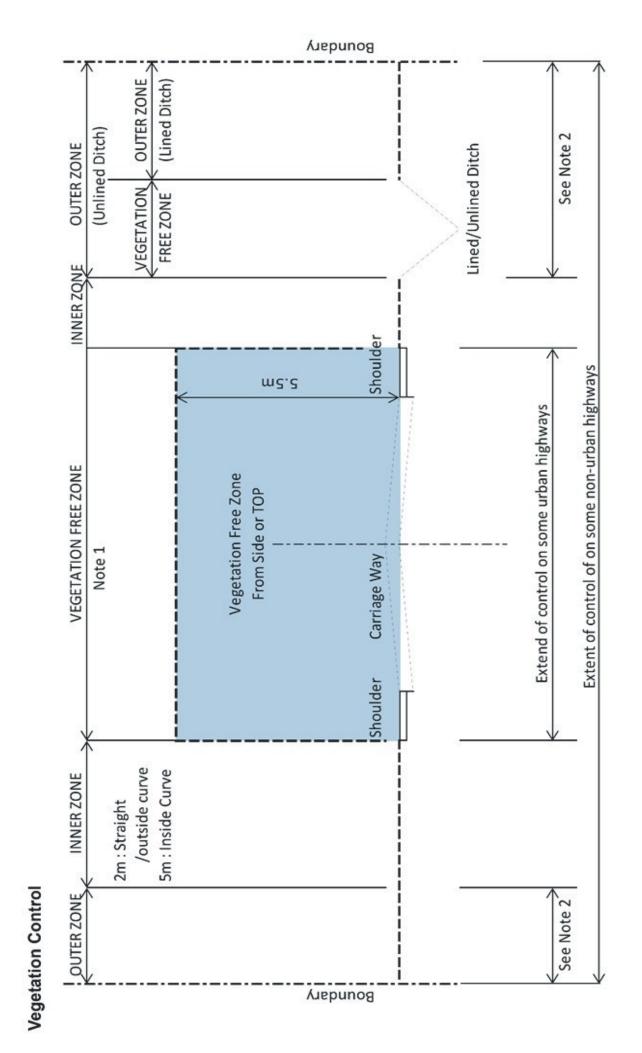
	Eroded river beds	Erosion around bridge abutments and piers must be controlled with all reasonable measures at all times.	Causes for non-compliance must be eliminated << 2 weeks>> after water has sufficiently receded to allow working conditions.	However, the damaged portion pending repairs maybe left on site with proper signs and safety arrangements.
IV) Slope Stabilit	y			
1. Embankment slopes	Collapse of embarkment slopes	All embankment slopes must be without deformations/damages and erosions of > 100mm in depth	<< 2 weeks >>	The permitted Max. tolerance is 5 %of the length of the road with embankment slopes is below the defined Service Level in each subsection.
2. Slopes in Cuts	Eroded/ High vegetation/ Collapse of slope protection	All slopes in cut must either be stable or are stabilized with adequate retaining walls.	In case of any condition is observed, the Contractor must notify the Engineer <<24 Hours>>.	No tolerance permitted

Response Time is the Time taken to repair a defect from the time of its detection.

Notes

Note 1: Say area of sub-section of 200 m length $=7m \times 200 = 1400$ sqm. Area of does not to exceed 70 sqm in the subsection. This applies for Rutting, Soft Spots.

Note 2: Say sub-section of 200 m length and the affected length of difference in height not to exceed 4 m in the sub-section.



These area must be maintained according to the local requirements Vegetation free zone must be maintained free of all vegetaiton Note 1 Note 2

Appendix 1: Defect Detection/ Rectification Record Form

Road						
Authority						
Contractor						
Project		Road				
-		Name				
Service	Category		•			
Level	Service Scope					
	Service					
	Criteria					

No	Detection (to be filled by SCU or PM)			Rectificati	Rectification (to be filled by EXU)		
	Date	Location	Description	Date	Compliance (Yes/No)		
1					(Yes/No)		
1							
3							
4							
5							
6 7							
8							
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34 35							
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Appendix 2: Daily Work Record Form

Basic Ir	nformatio	n						
Road A	uthority							
Contrac								
Project								
	ame/Chain	age						
Road Cl	lass				Standard S	Service Level		
Date								
Date				Weather		-		
PBC W	ork Opera	ations						
Chainag	ge		Activity Des	cription				Photo No,
From		То	Activity Des	СПРИОП				FIIOLO INO,
				_	_	_	_	
Machin	ery, Truc	k			Labour			
Descript	tion		Plate No,	Photo No,	Category		number	Photo No,
-								
Materia	als Deliver	ed to Site	!	1	Materials Removed from Site			
Descript	tion		Quantity	Photo No,	Description	n	Quantity	Photo No,
Admiss	ion		•	•	•			
Persona	l		Name			Sign	Date	
	ntrol Unit							
Road M								
1	-		1			1	1	

Appendix 3: Daily Patrol Record

Basic Inform	ation					
Road Authorit	y					
Contractor	-					
Droject						
Project						
Road Name/C	hainage					
Road Class				Standard Service Level		
				1 - 2 - 3 - 3		
Patrol			7.7	1		
Date			Weather			
Cleanliness/C	bstacles					
Chainage	Time		Remarks			Photo No.
	Detection	Removal	11011101110			111000 1100
Any other act	tivities undertak	en				
Chainage	Objects, Con	dition, other info	rmation			Photo No.
Admission						
Personal		Name		Sign	Date	
Self-Control U	Jnit					
Road Manage	r					
ppendix 4: M	Ionthly Photo 1	Record				
Basic Inform	ation					
Road Authorit						

Project		
Road Name/Chainage		
Road Class	Standard Service Level	

No,	DATE	DATE
Photo	Photo file size: less than 300kB	Photo file size: less than 300kB
Remarks Photo		
No,	DATE	DATE
Remarks Photo	Photo file size: less than 300kB	Photo file size: less than 300kB
No,	DATE	DATE
Photo	Photo file size: less than 300kB	Photo file size: less than 300kB
Remarks Photo		

Appendix 5: Incident Condition and Activity Report

		_							
Basic Information									
Road Authority									
Contractor									
Project									
Road Name/Chainage									
Road Class				Standard Service Level					
Incident Notification	Caller			Phone I	No,				
Date/Time /Chainage or Location									_
Information Resource	Road Autl	hority, Polic	ce, En	gineer, Road Users, Othe	ers ()		
Mature of Incident									
Location of Incident									
Condition of Accident Vehicles									
Number/Conditions of injured									
People									
Description									
							T		
Site Condition (Any road asset damaged by the a	accident)							Photo No,	
Assets	Damage c	ondition							_

Appendix 6: Detail Self Inspection Result Record Form (Paved Road)

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Appendix 7: Payment Reduction Calculation Table

Pæjee↑	ABC Road PBC Maintenance Project	roject						Continet Period	Period	
Road Authority	KeNHA or KURA or KeRRA or KWS	rKWS		Contractor	XYZ Contract	30				
Road Name!	Road Name! Class! Chainage! ()Langth	A BC Road		Road Class	lad I	A, B, C, D, E, U	Unclassified, Urban Road	ın Roud		
Statement Mont	Statement Month! Year and Elapse of Month	September	2014	3	82 17	tandard Service Level	a vei			High
Contract Due Amount of the Month	n of the Month (b)	#atam	000	KSH						
Serv	Service Level Crimeria		Compliance				Red	Reduction		
822 9 11 ८ १५ 10	Service Scope	(a) Contract Road Langth (km)	(b) Required Thaget	(0)=(a)*(b) Targe La ragth (km)	(d)=(a)-(a) Every tion Length (hm)	(e) Non- Compliant Length (km)	(f)=(e)-(d) (c)=(0) Adjusted Non- Complant Length Orm)	(Ø/(e) NON- Compilant Rate	(g) Reduction Weight	В
Documentation		100	100%	10,0					**	_
i.Road U∎ability	A)Parrab 道力y	100	100%	10,0	ďQ	2.0	2 D	20%	%O *	
	B) S mooth and Safe Traffic	100	100%	10,0	ďQ	2.0	2 D	20%	30%	
2.Road Uler Combri	○) ▽ 加 砂 出け	100	100%	10,0	ďď	2.0	2 D	20%	20%	_
	D) Traffic Information	100	7400I	10,0	ďů	2.0	2 D	2%	20%	_
	E) Drainage Capability	τορ	100%	10,0	ďů	0.0	αg	220	%CE	-
	F) Vegetation Control	10,0	100%	10,0	αo	6,0	6 D	\$0%	30%	_
3. Road Dusability	G) Maintenance of other Statenares	100	%aa1	10,0	αα	6.0	ď.D	%0 %	%0 Z	
	H) Slope Stability	10,0	100%	10,0	αa	6.0	6 D	\$0%	88	
									(l) Tota1=	
									200%	
Required Target						Caloul	Calculation of the Payment Amount of the Month	BET AMOUNT O	the Month	1 1
Eaps of Month	1. Road U∎ability	2. Road User Comfort	3. Road Dusability		Содене	tDus Amount of the Month	the Mort	KSH	400,000	
ь	50%	%%	50%			Reduction Rate	•	*	60%	\rightarrow
N	100%	75%	75%			Reduction Amount	Ē	KS H	238,400	
CO)	100%	100%	100%		Раулы	at Amount of the Month	Month	KSH	161,600	\vdash
4	100%	100%	100%							
Ça.	100%	100%	100%							
O.	100%	100%	100%							
;·•	%001	100%	100%							

Contract Name PERFORMANCE-BARED ROAD MAINTENANCE CONTRACT FOR CONTRACT SUM: A Mathematica Services Region A Mathematica Services Region A Mathematica Services Region A Mathematica Services Region Administrative Boundary: Month Fin. Year Mathematica Services Region Administrative Boundary: Month Fin. Year Mathematica Services Region Previous Centractor Fin. Year Mathematica Services Region Month Month Total (1985) Region Fin. Year Mathematica Services Region Fin. Year Mathematica Services Region Fin. Year Mathematica Services Fin. Year Month Total (1985) Region Fin. Year Mathematica Services Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Fin. Year Month Month Total (1985) Fin. Year Month Fin. Year Month Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Total (1985) Fin. Year Month Fin. Year Month Fin. Year Month Month Total (1985) Fin. Year Month Fin. Year Month Month Total (1985) Fin. Year Month Month Total (1985) Fin. Year Month Fin. Year Month Month Fin. Year Month Month Fin. Year Month Month Total (1985) Fin. Year Month Fin. Year Month Fin. Year Month Fin. Year Month Fin. Year Month Fin. Year Month Fin. Year Month Fin. Year Month Fin. Year Fin. Year Month Fin. Year Month Fin. Year Fin. Year Month Fin. Year Fin. Year Month Fin. Year Fin. Year Month Fin. Year Fin. Year Fin. Year Month Fin. Year	Contract No.			
Contracter Region Region Previous Certificate (Varies)	Contract Name: PERFORMANCE-BASED ROAD MAINTENANC	CONTRACT FOR		CERTIFICATE NO.
CONTRACT BUM: Contract Samilates Region Aminterative Boundary: Aminterative Boundary: Aminterative Boundary: Aminterative Boundary: The Certificate (Asins) B. Rahabilitation Moires	Contractor			VALUATION AS AT
A Mathematica Services A Retraction Works D Emergency Works D Emerg	CONTRACT BUM:	Region	Fin. Year	
A. Mahminande Services B. Rahabilation Works C. Improve arts withouts		Administrative Boundary:	Month	
A. Mathemator Services B. Ranabilitation Moiries O. Improvement/Moiries O. Embryanny Moiries E. Bub-inteal of (AP-B+O-D) F. REDICHTION FOR NON-COMPLIANCE G. Sub-inteal of (AP-B+O-D) H. ADD 165: VAT (165: o1G) IL 1653 5': METENTION (5'% o1G) IL 1653 5': MITHHOLING TAX (3'% o1G) IL 1653 5'		Previous Certificate (Kshs)	This Certificate (Kshs)	Total (Kehe)
E. Rehabilitation Works D. Improve entent/Works E. Bub-total of (APH-C+D) F. REDUCTION FOR NON-COMPLIANCE G. Sub-total of (E-F) L. LESS 35% WITHOLDING TAX (3% of G) L. LESS 5% RETENTION (5% of G) L. LESS 5% RETENTION (5% of G) L. LOUMMULATIVE DEDUCTIONS (1+J) L. TOTAL PAYMENT N. RECOVERY OF ADYMENTS PLESS LIQUIDATED DAMAGES Q. NET PAYMENT CONTRESS TON LATE PAYMENTS LESS PREVIOUS CERTIFICATES Submitted by Contractor Contractor The raby confirm the above rates & quantities are correct Checked by Cate Tax Advance of the contractor Checked by Cate Tax Advance of the contractor Cat	A. Maintenance Services			
O. Improvement/Vorice E. Bub-total of (A-BPC+D) E. Bub-total of (A-BPC+D) E. REDUCTION FOR NON-COMPLANCE G. Sub-total of (E-F) H. ADD 1695 VAT (16% of G) H. ADD 1695 VAT (16% of G) H. ADD 1695 VAT (16% of G) J. LESS 36% WITHHOLDING TAX (3% of G) L. TOTAL PAYMENT N. RECOVERY OF ADVANCE O. INTEREST ON LATTE PAYMENTS PLESS LIQUIDATED DAMAGES G. NET PAYMENT N. RECOVERY OF ADVANCE O. INTEREST ON LATE PAYMENTS PLESS LIQUIDATED DAMAGES LESS PREVIOUS CERTIFICATES Submitted by Contractor	B. Rehabiltation Morks			
D. Emergency Works E. Sub-total of (ABRO-D) F. REDUCTOR NON-COMPLIANCE G. Sub-total of (APR NON-COMPLIANCE) H. ADD 16% VAT (16% of G) LLESS 5% RETENTION (5% of G) LLESS 5% RETENTION (5% of G) LLESS 5% REPORTED FOR ANY MENT N. RECOVERY OF ADVANCE OINTERST ON LATE PAYMENT N. RECOVERY OF ADVANCE OINTERST ON LATE PAYMENT N. RECOVERY OF ADVANCES OINTERST ON LATE PAYMENT LESS PREVIOUS CERTIFICATES PLESS LIQUIDATED DAWAGES UNTERST ON LATE PAYMENT LESS PREVIOUS CERTIFICATES NOW DUE TO CONTRACTOR Thereby confirm the above rates & quantities are correct Ohedwad by Date	C. Improvement Works			
E. Bub-total of (A+B+C+D) F. REDUCTION FOR NON-COMPLIANCE G. Sub-total of (E-F) [TOTAL VALUE OF WORK (6)] H. ADD 16% VAT (16% of G) H. ADD 16% VAT (16% of G) H. ADD 16% VAT (16% of G) LESS 5% RETENTION (5% of G) H. ADD 16% VAT (16% of G) LESS 5% RETENTION (5% of G) H. ADD 16% VAT (16% of G) H. ADD 16% VAT				
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TOTAL VALUE OF WORK (g)	- :			
H. ADD 16% VAT (16% of G) IL LESS 5% RETENTION (5% of G) JL LESS 3% WITHFOLDING TAX (3% of G) K. COMMULATIED DEDUCTIONS (1+J) L. TOTAL PAYMENT (Q-IK) M. ADVANCE PAYMENT N. RECOVERY OF ADVANCE O. INTEREST ON LATE PAYMENTS PLESS LIQUIDATED DAMAGES Q. NET PAYMENT Data				
I. LESS 5 % RETENTION (5% of (5)) J. LESS 3% WITHHOLDING TAX (3% of 5) K. CUMMULATIVE DEDUCTIONS (1+J) L. TOTAL PAYMENT (G-K) M. ADVANCE PAYMENT N. RECOVERY OF ADVANCE O. INTEREST ON LATE PAYMENTS PLESS LIQUIDATED DAMAGES Q. NET PAYMENT Data	H. ADD 16% VAT (16% of G)			
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N. RECOVERY OF ADVANCE O. INTEREST ON LATE PAYMENTS PLESS LIQUIDATED DAMAGES LESS PREVIOUS CERTIFICATES NOW DUE TO CONTRACTOR Less previous certificates Contractor Contractor Data	M. ADVANCE PAYMENT			
O. INTEREST ON LATE PAYMENTS PLESS LIQUIDATED DAMAGES LESS PREVIOUS CERTIFICATES NOW DUE TO CONTRACTOR Boove rates & Date	N. RECOVERY OF ADVANCE			
PLESS LIQUIDATED DAMAGES Q. NET PAYMENT LESS PREVIOUS CERTIFICATES NOW DUE TO CONTRACTOR Books rates & Data	O. INTERESTION LATE PAYMENTS			
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above rates &				
Date				
Data	Contractor			
Data	Contractor			
	Contractor above rates &			

				Z	Number of elapsed month =
Project Title					
Road Authority			Date		Name
Contractor		Engineer			
Date of checking		Road Manager	4		
This form is used by Engineer to	A diga	This form is used by Engineer to verify monthly performance for contract evaluation.			
Soope		Requirement			
Service level compliance		Reduction rate for service level non-compliance is less than 5.0%			
,		Self-control unit is organized by proper contractor's member			
Self-control unit performance	ы	Self-control unit operates properly			
	中年期	Pass or fail in total*2			
		Workers and operators wear proper safety gear			
	2	Traffic control is conducted properly			
Work Safety Management	w	No accident of workers, operators attributable to the contractor			
	4	No accident of third-parties attributable to the contractor			
	Равв	Pass or fail in total*2			
		Environmental consideration is properly conducted			
Environment and social	2	Waste material generated from the site is properly disposed			
management	w	Transportation by vehicles is properly controlled			
	Равв	Pass or 跑山的 total*2			
	1	No corrective order is made by authority			
Corrective order		Contractor compiled with relevant statutory regulations			
Corrective order Statutory compliance					
Statutory compliance	d d				

ar .	Number of elapsed months in the end of last year	Number of elapsed mo
	, T	Expected date of Completion
		Date of Commencement
		Contractor
		Road Authority
		Project Title

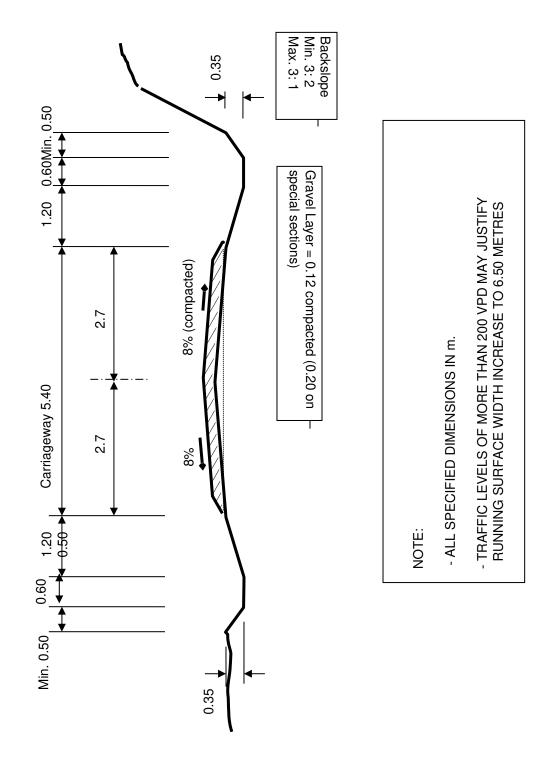
Road Manager	Engineer	
		Date
		Name
		Signature

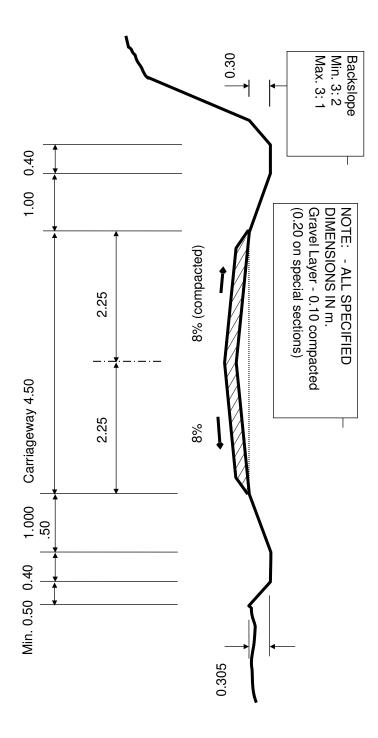
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							Total month (%)	(a)/	(4)
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0	0						Penalty*1		3

SECTION VII – DRAWINGS

FIGURE C.1 - CROSS SECTION A (MINOR STANDARD CROSS-SECTION)





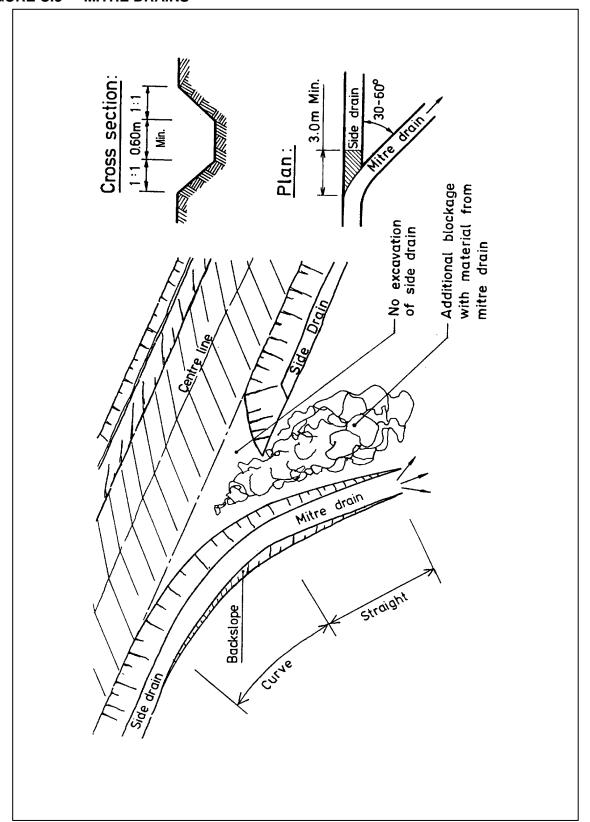


FIGURE C.4 - SCOUR CHECKS

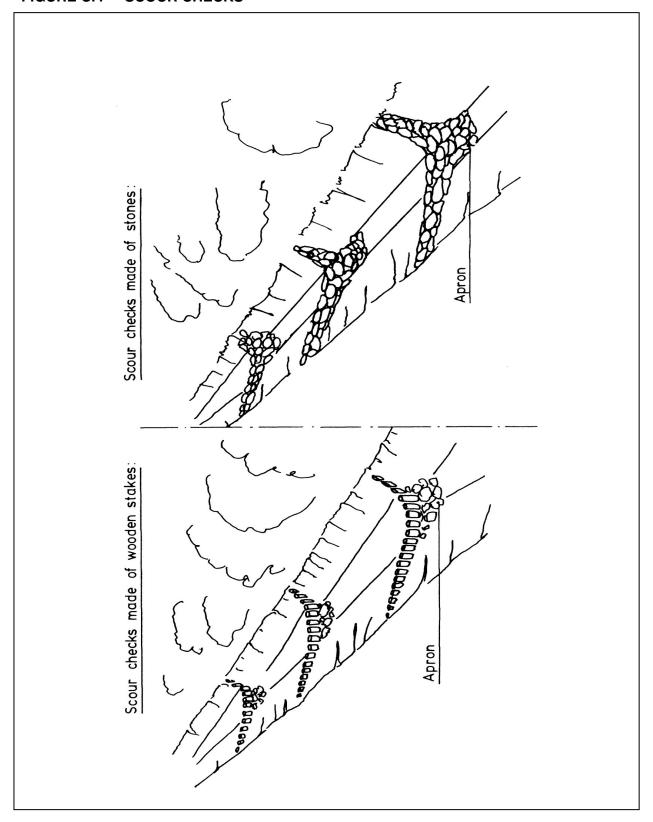


FIGURE C.5 - DIMENSIONS OF SCOUR CHECKS FOR STANDARD DRAIN

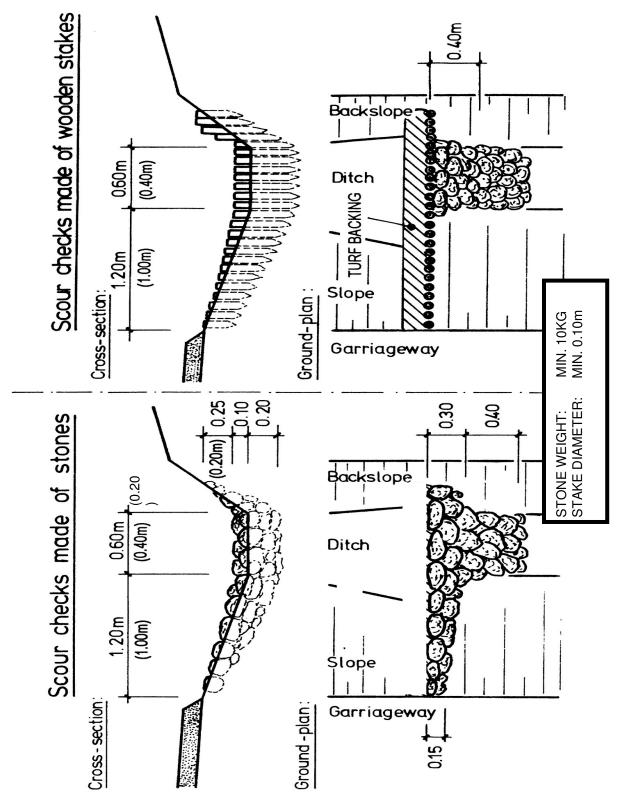
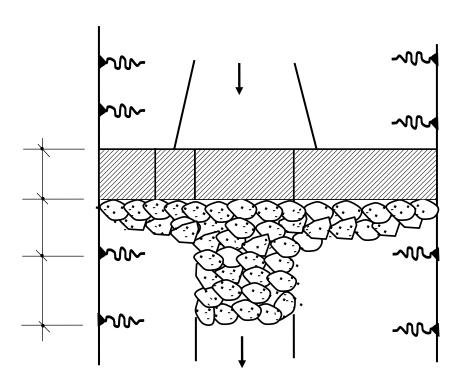
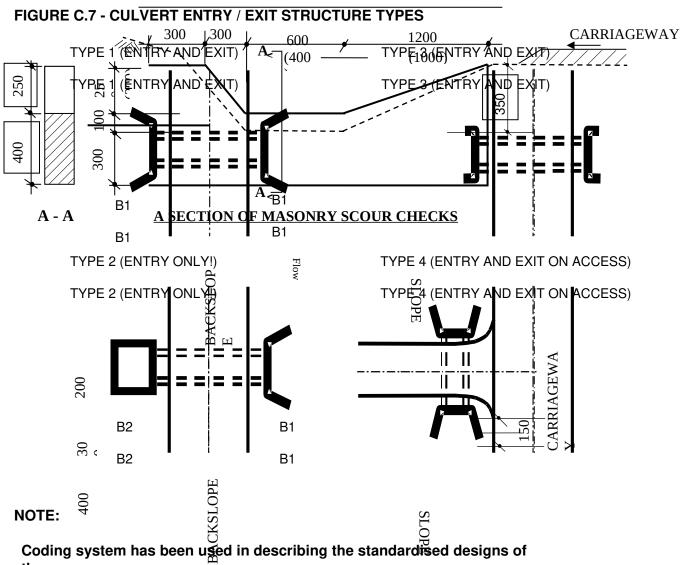


FIGURE C.6 - MASONRY SCOUR CHECKS

		V			2400	
Cross-	Sizes ir	1 n mm		Excav	(2000) Stone masonr	Apron stone
Section	Length	Width	Depth	. (m³)	y (m³)	stone pitching (m³)
Α	2400	200	550	0.22	0.25	0.18
В	2000	200	500	0.18	0.2	0.14





the

various culvert entry and exit structures. The code names consist of a PLAN OF DRAIN WITH EROSION CHECKS number

to specify shape and function as elaborated in above while the used construction materials are identified through an alphabetic symbol as follows:

Α Concrete block В Stone masonry C **Dressed stones** =

An example code of "B2" would therefore stand for a drop inlet type structure to be built in stone masonry.

FIGURE C.8 - HEADWALL TYPE 1

DIMEN	DIMENSIONS AND MATERIAL REQUIREMENTS	MA	TERIAI	REQUI	REMEN	LS		
			TYPE A			TYPE B	3	
PIPE 1	DIAMETER	Z	(CONC	IN (CONCRETE BLOCKS	LOCKS	(STON	(STONE MASONRY)	ONRY)
			450	009	006	450	009	900
DIMENSION	SION UNIT	IT						
a FOU	FOUNDATION	Ш	0.30	0.30	0.30	0.40	0.40	09.0
b FOU	FOUNDATION	ш	0.30	0.30	0.40	0.30	0.30	0.40
c FOU	FOUNDATION		2.20	2.35	2.89	2.20	2.35	2.89
d APF	APRON	Ш	1.00	1.00	1.20	1.00	1.00	1.20
e APF	APRON	ш	0.20	0.20	0.20	0.20	0.20	0.20
f WALL	TT	Ш	0.20	0.20	0.20	0.40	0.40	0.40
g WALL	TT	ш	0.30	0.30	0.30	0.30	0.30	0:30
h WALL	TT	ш	1.15	1.15	1.39	1.15	1.15	1.39
I WALL	TT	ш	0.20	0.20	0.20	0.40	0.40	0.40
k API	APRON	ш	1.05	1.20	1.50	1.05	1.20	1.50
MATEF	MATERIAL REQUIREMENT	REM	ENT					
FOUNDA' (Concrete)	FOUNDATION (Concrete)	m ³	0.3	0.32	0.51	0.4	0.42	1.03
HEAD/ WINGWALL	VALL							
(Concre	(Concrete/Masonry)	m^{3}	0.4	0.47	29.0	8.0	0.93	1.35
APRON								
(Concrete)	te)	m ³	0.33	0.36	0.53	0.33	0.36	0.53

(HEAD AND WINGWALLS)

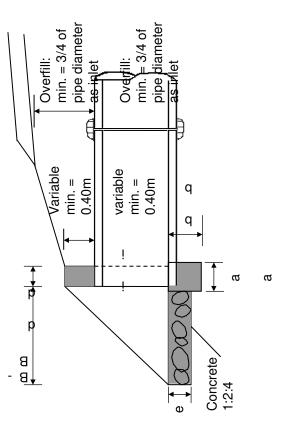
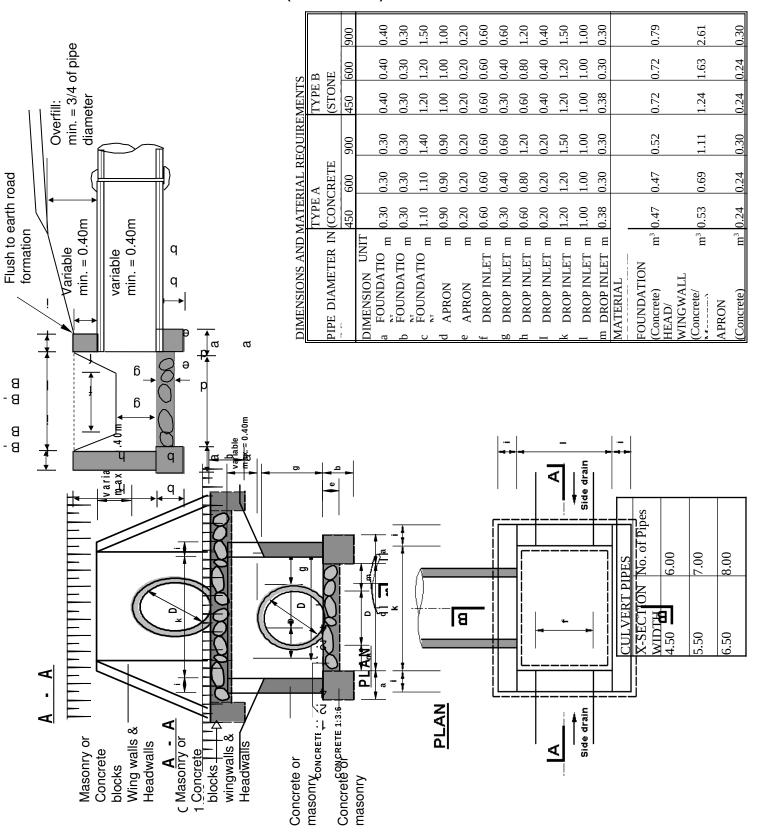
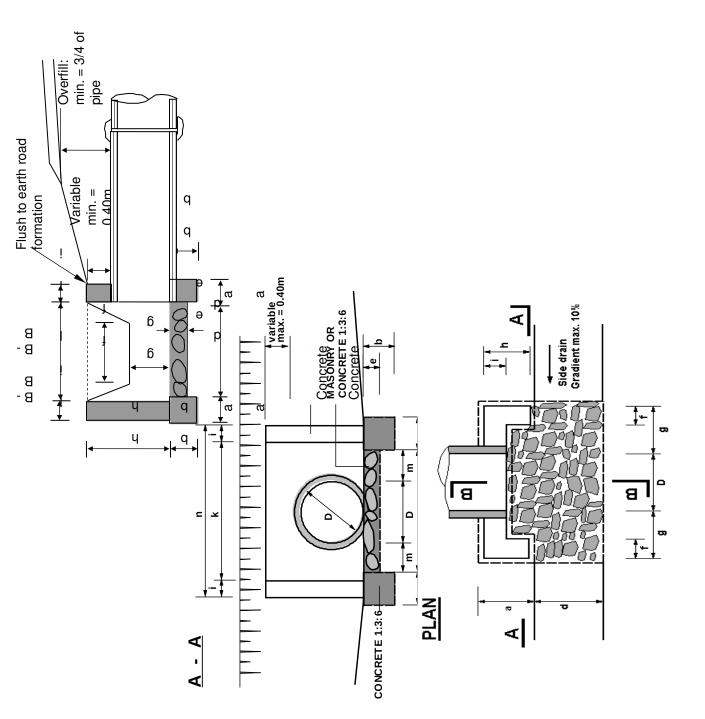


FIGURE C.9 - HEADWALL TYPE 2 (DROP INLET)



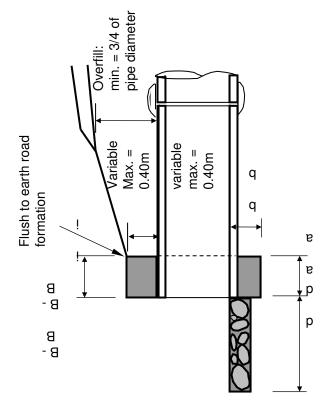
DIMENSIONS	AND	D	MATERIAL
TYPE A PIPE DIAMETER IN CONCRETE	TYPE A	A CRETE	
	450	009	
DIMENSION UNIT			
a FOUNDATIO m	0.50	0.50	
b FOUNDATIO m	0.30	0:30	
c FOUNDATIO	1.55	1.70	
d APRON m	09.0	09.0	
e APRON m	0.20	0.20	
f HEADWALL m	0.20	0.20	
g HEADWALL m	0.50	0.50	
h HEADWALL m	0.40	0.40	
I HEADWALL m	0.20	0.20	
k HEADWALL m	1.05	1.20	
FOUNDATIO m	0.95	1.10	
m FOUNDATIO m	0.25	0.25	
n HEADWALL m	1.45	1.60	
o FOUNDATIO _m	0.30	0.30	
MATERIAL	_		
FOUNDATION			
(Concrete) rr HEAD/	$m^3 0.23$	0.19	
	2	780	
	m ادی	0.0 4	
APRON			
(Concrete) m	$m^3 0.95$	66.0	
			1

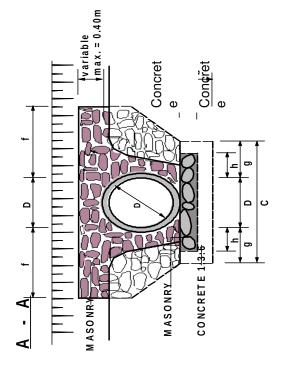
FIGURE C.10 - HEADWALL TYPE 3A (CONCRETE BLOCK HEADWALLS)

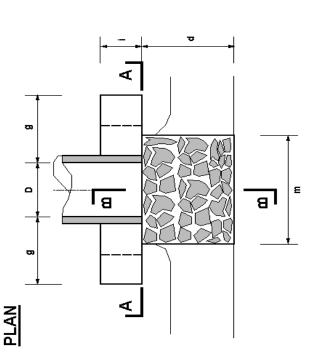


	TYPE	В
PIPE DIAMETER IN	INCONC	
	450	600
DIMENSION UNIT		
a FOUNDATIO m	0.40	0.40
b FOUNDATIO m	0.30	0:30
c FOUNDATIO	1.55	1.70
d APRON m	06.0	06.0
e APRON m	0.20	0.20
f HEADWALL m	0.75	0.75
g HEADWALL m	0.50	0.50
h HEADWALL m	0.30	0.30
l HEADWALL m	0.40	0.40
m FOUNDATIO m	1.05	1.20
MATERIAL REQUIREMENT	MENT	
FOUNDATION		
(Concrete 1:3:6) m ³	0.19	0.2
HEAD/		
(Concrete/ m³	0.62	69.0
APRON		
(Concrete 1:2:4) m ³	m³ 0.19	0.22

FIGURE C.11 - HEADWALL TYPE 3B (STONE MASONRY HEADWALLS)

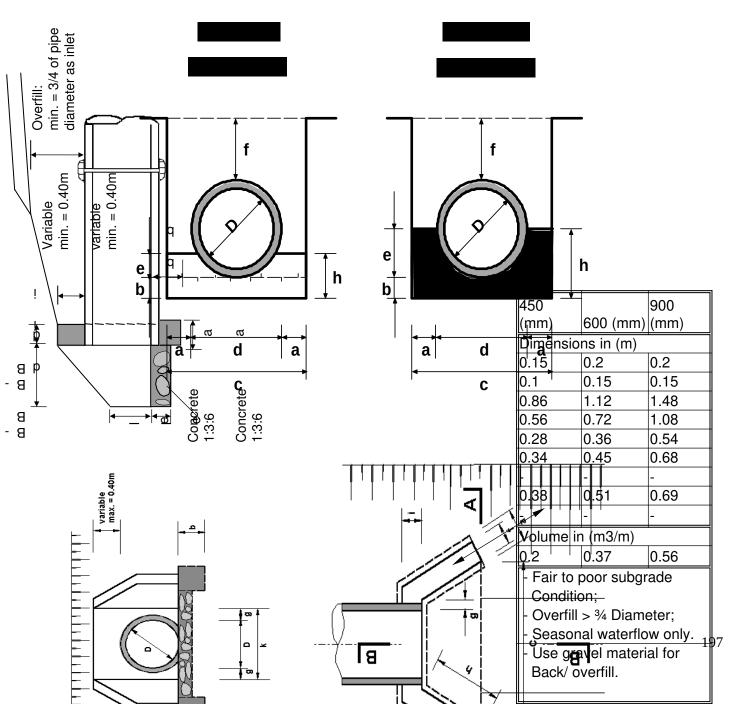


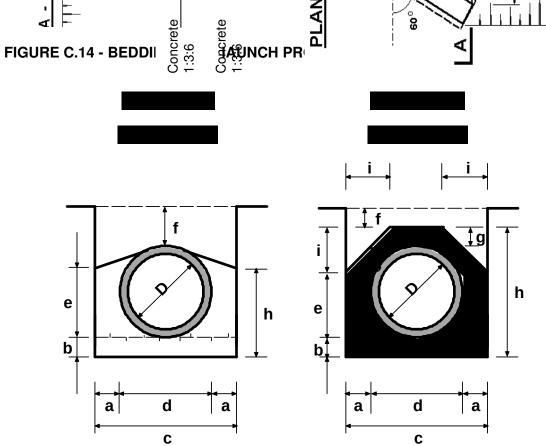




TYPE A TYPE B PIPE DIAMETER (CONCRETE (STONE 450 600 900 450 60	۲ ا		TVDC D	ſ	
.	¥ U			മ	
	NCRETE		(STONE	삦	
	009	006	450	009	900
DIMENSION UNIT					
a FOUNDATIO m 0.30	0.30		0.40	0.40	
b FOUNDATIO m 0.30	0.30		0.30	0:30	
c APRON 1.34	1.49		1.34	1.49	
d APRON m 0.60	09.0		09.0	09.0	
e APRON m 0.20	0.20		0.20	0.20	
f WINGWALL m 0.20	0.20		0.40	0.40	
g WINGWALL m 0.10	0.10		0.10	0.10	
h HEADWALL m 0.69	69.0		69.0	69.0	
I HEADWALL m 0.20	0.20		0.40	0.40	
k HEADWALL m 0.65	08.0		0.65	0.80	
l HEADWALL m 0.40	0.40		0.40	0.40	
MATERIAL					
FOUNDATION					
(Concrete 1:2:4, 3 0.18	0.2		0.24	0.26	
1.3.6) HEAD/					
(Concrete/ Masonry m³ 0.25	0.29		0.50	0.58	
APRON					
(Concrete) m ³ 0.12	0.14		0.12	0.14	

FIGURE C.12 - HEADWALL TYPE 4 (FOR ACCESS CULVERTS) FIGURE C.13- BEDDING AND HAUNCH PROFILES TYPES I & II





-						
450		900				
(mm)	600 (mm)	(mm)				
Dimensions in (m)						
0.15	0.2	0.2				
0.1	0.15	0.15				
0.86	1.12	1.48				
0.56	0.72	1.08				
0.46	0.52	0.78				
0.15	0.15	0.15				
0.15	0.15	0.15				
0.81	1.02	1.38				
0.28	0.35	0.45				
Volume in (m3/m)						
0.37	0.61	0.92				
- Fair to poor subgrado						

- Fair to poor subgrade Condition;
- Overfill > 3/4 Diameter;
- Seasonal waterflow only.
- Use gravel material for back/ overfill.

Cross	DIME	DIMENSIONS					Stone masonry	150mm Grouted stone
section A	Α	В	С	D	E	Excavation (m3)	(m ³)	pitching (m3)
Δ -	4000	1800	600	1800	4200	7.50	1.30	21.75
	6000	1800	600	1800	4200	10.00	1.60	30.15
В	4000	1400	400	1800	3600	7.00	1.20	18.30
	6000	1400	400	1800	3600	9.00	1.50	25.50
FIGURE C.	.15 AC	CESS	DR	IFT	•		•	

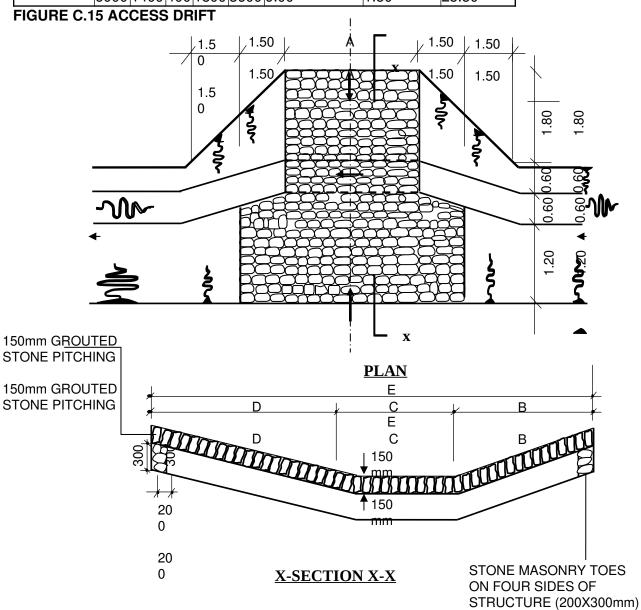
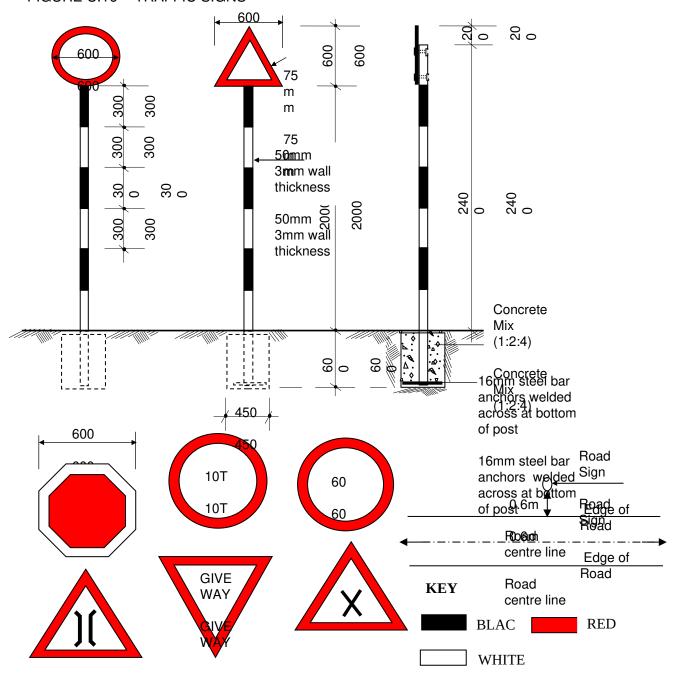
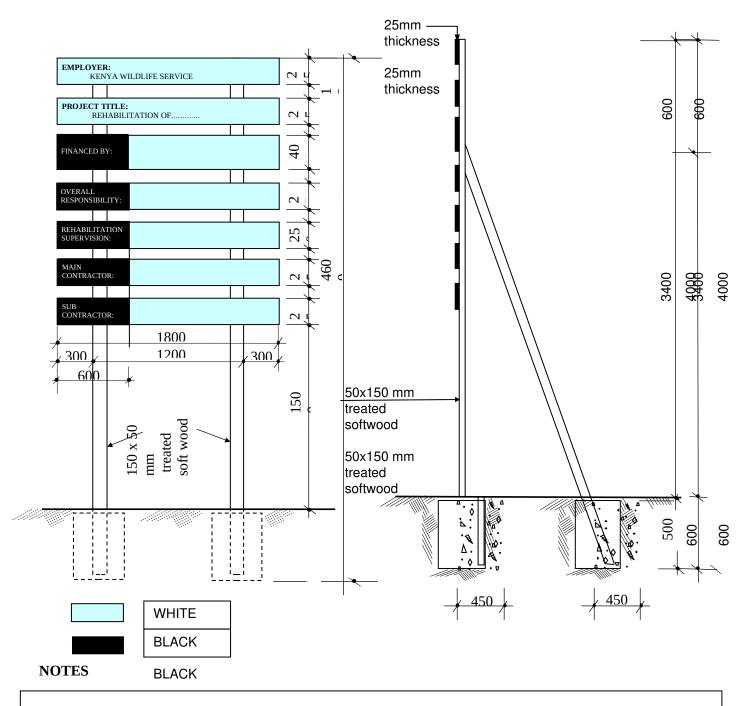


FIGURE C.16 - TRAFFIC SIGNS



- 1. The type of sign required and their location shall be as shown on the improvement plan and as directed by the Engineer
- 2. Sign plate to be 2 mm thick mild steel plate
- 3. Sign post to be 50 mm internal diameter steel pipe with wall thickness of 3 mm.
- 4. Sign plate to fixed to steel tube by 4 Nos M10 bolts and 2 Nos 50 mm f fixing clamps/brackets.
- 5. Sign paints shall be reflective.
- 6. The sign plate and post shall be treated by applying two coats of lead red oxide paint before applying priming and two finish coats of approved paints . Paints used shall have a hard,



- 1. The wording of the project signboard and the location to be installed to be as directed by the Engineer
- 2. Materials to be used for fabrication of signboard shall be pressure impregnated treated softwood timber sizes as indicated in the drawing
- 3. Wording boards to be nailed to the posts using nails.
- 4. Project board posts and struts to be embedded in concrete ratio 1:2:4

SUPPLEMENTARY INFORMATION

SCHEDULE 1: FORM OF INTENT TO PARTICIPATE IN PRE-BID MEETING

[Name/s]
Being the authorized representative/Agent of [Name of Tenderer]
Wish to participate in the pre-tender meeting scheduled for the purposes of familiarizing myself on the tender document and site conditions in accordance with the instruction to tenderers.
The official email address for sharing the login credentials for the meeting will be
(Please print clearly)
Signed and Stamped
(Tenderer's Representative)

NOTE:

PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

SECTION VIII. GENERAL CONDITIONS_OF CONTRACT

The General Condition of Contract of this Contract are FIDIC Red Book Form of Contact for Construction of Building and Engineering works Designed by the Employer, First Edition 1999-ISBN 2-88432 – 022 - 9.

Copies of FIDIC Conditions of Contract can be obtained from:

International Federation of Consulting Engieers (FIDIC)

World Trade Centre II

P.O. BOX 311,

125 Geneva 15

Switzerland

Phone +41 22 799 49 00
Fax +41 22 799 49 01
E-mail <u>fidic@fidic.org</u>
www http://www.fidic.org

1. General Provisions

1.1 Definitions

1.1 Bold face type is used to identify defined terms.

Bill of Quantities means the priced and completed Bill of Quantities forming part of the Contractor's Tender.

The Certificate of Completion is a document issued by the Engineer upon completion of Rehabilitation Works, Improvement Works and Emergency Works, or parts thereof, as applicable, in accordance with GC 54.1

The Completion Date is the date of completion of the Services and Works as certified by the Engineer, in accordance with Sub-Clause 10.2.

The Contract is the Contract between the Procuring Entity and the Contractor to perform the services to be provided by the Contractor, and to execute, complete, and maintain the Works. It consists of the documents listed in Clause 3 below.

The Contractor is a person or corporate body whose Tender to carry out the Works and Services has been accepted by the Procuring Entity.

The Contractor's Tender is the completed tendering document submitted by the Contractor to the Procuring Entity.

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

Days are calendar days; months are calendar months.

A Defect is any part of the Works and Services not completed in accordance with the Contract.

The Defects Liability Certificate is the certificate issued by Engineer upon correction of defects by the Contractor.

The Defects Liability Period is the period specified in the Contract and is applicable for Rehabilitation Works and Improvement Works, with exclusions identified in the **PC**, if any.

Drawings include calculations and other information provided by the Contractor for the execution of the Contract.

Emergency Works is a set of necessary and sufficient activities to reinstate the Road and reconstruct its structure or right of way strip damaged as a result of natural phenomena with imponderable consequences, such as strong storms, flooding and earthquakes. The need for execution of Emergency Works is jointly identified by the Procuring Entity and the Contractor and for starting of execution of Emergency Works the Procuring Entity shall issue a Work Order.

The Procuring Entity is the party who employs the Contractor to carry out the Works and Services.

Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works and to carry out the Services.

Improvement Works consists of a set of interventions that add new characteristics to the Road in response to existing or new traffic, safety or other conditions, as defined in the Specifications.

Rehabilitation Works are specific and clearly defined civil works the Contractor is required to the conditions of the Contract, as defined in the Specifications. Rehabilitation Works quantities were estimated by the Contractor to achieve the performance standards defined by the Service Levels and offered at a Lump-Sum price.

The Intended Completion Date is the date on which it is intended that the Contractor shall complete the Works and Services. The Intended Completion Date is specified in the Special Conditions (SCC). The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works and for provision of Services.

The Engineer is the person named in the contract who is responsible for the overall administration of the Contract on behalf of the Procuring Entity, and the supervision of works and services to be performed thereunder. The Engineer may delegate through a written instrument some of his functions to any other competent person, retaining however the overall responsibility for the actions of that person. The Engineer may not delegate the overall administrative control of the Contract.

Road means the road or network of roads for which the Works and Services are contracted under the Contract.

The Road Management Office is the location indicated by the Contractor from which the Road Manager operates, and where the Contractor shall receive notifications.

The Road Manager is a person appointed by the Contractor who is in charge of managing all activities of the Contractor under the Contract. He is also the Contractor's Representative for the purposes of this contract.

Services means all interventions on the Road under the Contract and all activities related to the management and evaluation of the Road which shall be carried out by the Contractor in order to achieve and keep the Road Performance Standard's as defined by the Service Levels, and to receive full payment of the monthly fee under the contract.

Service Levels are the minimum performance standards for the level of quality of conditions of the Road defined in the Specifications which the Contractor shall comply with.

The Site is the area defined as such in the **PC**.

Site Investigation Reports are those that were included in the tendering document and are factual and interpretative reports about the surface and subsurface conditions at the Site.

The Start Date is the date when the Contractor has started the physical execution of the Works and Services on the site. It does not necessarily coincide with any of the Site Possession Dates.

A Subcontractor is a person or corporate body who has a contractual agreement with the Contractor to carry out certain activities related to the services to be provided under the contract, which may include work on the Site.

Specifications means the Specifications of the Works and Services included in the Contract and any modification or addition made or approved by the Engineer.

A Variation is an instruction given by the Engineer which varies the Works or Services.

The Works are what the Contract requires the Contractor to construct, install, and turn over to the Procuring Entity, as covered under Rehabilitation Works, Improvement Works and Emergency Works.

Work Order is an order issued by the Engineer to the Contractor authorizing the execution of Improvement Works and Emergency Works, as provided for in Clause 27 hereunder.

Public Procurement Regulatory Authority is a Statutory Government Agency responsible for oversight of public procurement.

1. Interpretation

2.1.1 In interpreting these General Conditions (GC), singular also means plural, male also means female or neuter, and vice versa. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these

General Conditions (GC).

2. Documents Forming the Contract

- 3.1 The documents forming the Contract shall be interpreted in the following order of priority:
 - 1) Agreement,
 - 2) Form of Acceptance,
 - 3) Contractor's Tender,
 - 4) Special Conditions of Contract (SCC),
 - 5) General Conditions of Contract (GCC),
 - **6)** Specifications,
 - 7) Drawings,
 - 8) Bill of Quantities, and
 - 9) Any other document listed in the **PC** as forming part of the Contract.

3. Language and Law

4.1 The governing language shall be English and the law governing the Contract shall be the laws of Kenya.

4. Notices

- Unless otherwise stated in the Contract, all notices to be given under the Contract shall be in writing, and shall be sent by personal delivery, air mail post, special courier, or E-mail to the address of the relevant party set out in the **PC**, with the following provisions:
- **5.1.1** Any notice sent by E-mail shall be confirmed within two (2) days after dispatch by notice sent by air mail post or special courier, except as otherwise specified in the Contract.
- **5.1.2** Any notice sent by air mail post or special courier shall be deemed (in the absence of evidence of earlier receipt) to have been delivered ten (10) days after dispatch. In proving the fact of dispatch, it shall be sufficient to show that the envelope containing such notice was properly addressed, stamped and conveyed to the postal authoritiesorcourierservicefortransmissionbyairmailorspecialcourier.
- **5.1.3** Any notice delivered personally or sent by E-mail shall be deemed to have been delivered on date of its dispatch.
- **5.1.4** Either party may change its postal, E-mail address or addressee for receipt of such notices by ten (10) days' notice to the other party in writing.
- **5.2** Notices shall be deemed to include any approvals, consents, instructions, orders and certificates to be given under the Contract.
- 5.3 The Contractor shall provide at its own cost, and maintain in operation permanently during the duration of the Contract, such communications equipment which ensures that both written (E-mail) and oral(voice) communications can be established at all times:
 - a) Between the Road Manager and his senior field staff;
 - **b)** Between the Engineer and the Road Manager;
 - c) Between the public telephone system and the Road Manager;
 - **d)** The equipment to be provided and maintained includes the equipment located at the Engineer's office.
- **5.4** At the Start Date of the Contract, the Contractor must communicate to the Procuring Entity the address of his office, including the postal, fax and E-mail address, which for the purposes of this contract is called the Road Management Office, where Notices will be addressed to. The Procuring Entity may require that the physical location of the Road Management Office is within the close geographical area of the Road. If the Contractor fails

to communicate the address of his Road Management Office, and the Procuring Entity is otherwise unable to locate the Road Manager, all notifications to the Contractor shall be valid if they are deposited at a designated location within the office of the Engineer, and if a copy is sent to the Contractor's legal address.

5. Settlement of Claims and Disputes

6.1 Filing Claims or dispute or difference of any kind

6.1.1 A Party to the Contract may file a claim or dispute or difference of any kind to the other party by giving a notice and requesting that the parties get together and resolve or act on the claims or dispute or difference amicably.

6.2 Amicable Settlement

- **6.2.1** If any claims or dispute or difference of any kind whatsoever shall arise between the Procuring Entity and the Contractor in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity or termination, or the execution of the Works and Services—whether during the progress of the execution or after completion and whether before or after the termination, abandonment or breach of the Contract- the parties shall seek to resolve any such claims, dispute or difference by mutual consultation.
- **6.2.2** If the parties fail to resolve such a claim or dispute or difference amicably by mutual consultation, then the matter in dispute shall, in the first place, be referred in writing by either party to Arbitration. Either the Procuring Entity or the Contractor may, give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. The arbitral tribunal shall have full power to open up, review, and revise any decision, opinion, instruction, determination, and certificate.
- 6.2.3 The Party giving a Notice in accordance with Sub-Clause 6.2.2 above should move to commence arbitration after 28 days from the day on which a claim or dispute or difference was given, even if no attempt at an amicable settlement has been made.
- **6.2.4** Within 28 days after receiving a claim or dispute or difference or any further particulars supporting a previous claim, or within such other period as may be proposed by the Engineer and approved by the Contractor, the Engineer 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 or dispute or difference within the above defined time period.
- **6.2.5** Within the above defined period of 28days, the Engineer shall proceed to agree or determine the Contractors claim or dispute or difference and any additional payment (if any) to which the Contractor is entitled under the Contract.
- 6.1.8 If the Engineer does not respond within the timeframe defined in sub clause 6.2.3, either Party may consider that the claim is rejected by the Engineer and any of the Parties may refer to Arbitration in accordance with Sub-Clause 6.3.

6.3 Arbitration

- 6.2.1 Any claim or dispute or difference in respect of which a notice of intention to commence arbitration has been given, in accordance with Sub-Clause 6.2.4, shall be finally settled by arbitration. Neither party shall be limited in the proceedings before such arbitration tribunal on any matter whatsoever relevant to the dispute Arbitration may be commenced prior to or after completion of the Works and Services.
- **6.3.1** Notwithstanding any reference to the Arbitration herein,
 - **a** The parties shall continue to perform the irrespective obligations under the Contract unless they otherwise agree; and
 - **b** The Procuring Entity shall pay the Contractor any monies due to the Contractor.

6.4 Matters that may be referred to arbitration

- **6.4.1** 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.** The appointment of a replacement Engineer upon the said person ceasing to act.
 - **b.** Whether or not the issue of an instruction by the Engineer is empowered by these Conditions.

- **C.** Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
- **b** Any dispute arising in respect of war risks or war damage.
- **C** 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 the Contractor agree otherwise in writing.

6.5 Arbitration Proceedings

- **6.5.1** Arbitration proceedings shall be conducted in accordance with the following rules of procedure.
- **6.5.2** International arbitration with proceedings
- **6.5.3** If the contract is with a foreign contractor, arbitration proceedings shall be administered by the arbitration institution designated in the Special Conditions of Contract, and conducted under the rules of arbitration of such institution; or, if so specified in the Special Conditions of Contract, international arbitration in accordance with the arbitration rules of the United Nations Commission on International Trade Law (UNCITRAL); or if neither an arbitration institution nor UNCITRAL arbitration rules are specified in the Special Conditions of Contract, 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.
- **6.5.5** The place of arbitration shall be the neutral location specified in the Special Conditions of Contract; and the arbitration shall be conducted in the English language for communications as defined in Sub-Clause 1.4 [Law and Language].
- **6.5.6** 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 Engineer from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.
- **6.5.7** Neither Party shall be limited in the proceedings before the arbitrators to the evidence, or to the reasons for a notice of intention to commence arbitration has been given.
- **6.5.8** Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, and the Engineer shall not be altered by reason of any arbitration being conducted during the progress of the Works.
- **6.5.9** 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.
- **6.5.10** The decision of the Arbitration shall be final.
- **6.5.11** National arbitration with proceedings
- **6.5.12** If the Contract is with a national contractor, arbitration proceedings shall have conducted in accordance with the Arbitration Laws of Kenya.
- **6.5.13** In case of any claim or dispute, such claim or dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an Arbitrator within thirty days of the notice. The dispute shall be referred to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be

appointed, on the request of the applying party, by the Chairman or Vice Chairman of any of the following professional institutions;

- **a** Institution of Engineers of Kenya
- **b** Chartered Institute of Arbitrators (Kenya Branch)
- **6.5.13** The institution written to first by the aggrieved party shall take precedence over all other institutions.
- **6.5.14** Failure to Comply with Arbitrator's Decision-in the event that a Party fails to comply with a final and binding Arbitrator's decision, then the other Party may, without prejudice to any other rights it may have, refer the matter to the Court of Law.

B. ASSIGNMENT OF RESPONSIBILITIES

- 6. Scope of Works and Services
- 7.1 Unless otherwise expressly limited in the Specifications, the Contractor's obligations cover the Design, the carrying out of all Works and the performance of all Services required for keeping the Road in accordance with the Service Levels defined in the Specifications, while at the same time respecting the plans, procedures, specifications, drawings, codes and any other documents as identified in the Specifications. Such specifications include, but are not limited to, the provision of supervision and engineering services; the supply of labor, materials, equipment; Contractor's Equipment; construction utilities and supplies; temporary materials, structures and facilities; transportation (including, without limitation, unloading and hauling to, from and at the Site); and storage, except for those supplies, works and services that will be provided or performed by the Procuring Entity, if any, as set forth in the corresponding Specifications.
- 7.2 The Contractor shall, unless specifically excluded in the Contract, perform all such work, services and/or supply all such items and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining the Performance Standard's (as specified in Clause 24 of GC) as if such work, services and/or items and materials were expressly mentioned in the Contract.

7. Design Responsibility

8.1 The Contractor shall be responsible for the design and programming of the Works and Services, and for the accuracy and completeness of the information used for that design and programming in accordance with the requirements established in the Specifications.

8.2 Specifications and Drawings

- **8.2.1** The Contractor shall execute the basic and detailed design and the engineering work in compliance with the provisions of the Contract and the Specifications, or where not so specified, in accordance with good engineering practice. The Contractor shall be responsible for any discrepancies, errors or omissions in the specifications, drawings and other technical documents that it has prepared, whether such specifications, drawings and other documents have been approved by the Engineer or not, provided that such discrepancies, errors or omissions are not because of inaccurate information furnished in writing to the Contract or by or on behalf of the Procuring Entity.
- **8.2.2** The Contractor shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof, provided or designated by, or on behalf of, the Procuring Entity, by giving a notice of such disclaimer to the Engineer.

8.3 Codes and Standards

Wherever references are made in the Contract to codes and standard's in accordance with which the Contract

shall be executed, the edition or the revised version of such codes and standard's current at the date twenty-eight (28) days prior to date of Tender submission shall apply unless otherwise specified. During Contract execution, any changes in such codes and standards shall be applied after approval by the Procuring Entity and shall be treated in accordance with Clause 63.

8.4 Approval/Review of Technical Documents by Engineer

8.4.1 For those Works specified in the **PC**, the Contractor shall prepare (or cause its Subcontractors to prepare) and furnish to the Engineer the documents listed in the Specifications (List of Documents for Approval or Review) for its approval or review.

Unless otherwise specified in the **PC**, the Contractor shall not be required to submit for the Procuring Entity's approval the Design or other technical documents concerning the Maintenance Services remunerated through monthly lump-sum payments. Any part of the Works covered by or related to the documents to be approved by the Engineer shall be executed only after the Engineer's approval thereof. Sub-Clauses 8.4.2 through 8.4.7 shall

Apply only to those documents requiring the Engineer's approval, but not to those furnished to the Engineer for his information or review only.

- **8.4.2** Within fourteen (14) days after receipt by the Engineer of any document requiring the Engineer's approval in accordance with Sub-Clause 8.4.1, the Engineer shall either return one copy thereof to the Contractor with its approval endorsed thereon or shall notify the Contractor in writing of its disapproval thereof and the reasons therefore and the modifications that the Engineer proposes. If the Engineer fails to take such action within the said fourteen (14) days, then the said document shall be deemed to have been approved by the Engineer.
- **8.4.3** The Engineer shall not disapprove any document, except on the grounds that the document does not comply with some specified provision of the Contractor that it is contrary to good engineering practice.
- **8.4.4** If the Engineer disapproves the document, the Contractor shall modify the document and resubmit it for the Engineer's approval in accordance with Sub-Clause 8.4.2. If the Engineer approves the document subject to modification(s), the Contractor shall make the required modification(s), whereupon the document shall be deemed to have been approved.
- **8.4.5** If any dispute or difference occurs between the Procuring Entity and the Contractor in connection with or arising out of the disapproval by the Engineer of any document and/or any modification(s) thereto that cannot be settled between the parties within a reasonable period, then such dispute or difference may be referred to Arbitration for determination in accordance with Sub-Clause 6.3 hereof. If such dispute or difference is referred to Arbitration, the Engineer shall give instructions as to whether and if so, how, performance of the Contract is to proceed. The Contractor shall proceed with the Contract in accordance with the Engineer's instructions, provided that if the Arbitration upholds the Contractor's view on the dispute, then the Contractor shall be reimbursed by the Procuring Entity for any additional costs incurred by reason of such instructions and shall be relieved of such responsibility or liability in connection with the dispute and the execution of the instructions as the Arbitration shall decide, and the Time for Completion shall be extended accordingly.
- **8.4.6** The Engineer's approval, with or without modification of the document furnished by the Contractor, shall not relieve the Contractor of any responsibility or liability imposed upon it by any provisions of the Contract except to the extent that any subsequent failure results from modifications required by the Engineer.
- **8.4.7** The Contractor shall not depart from any approved document unless the Contractor has first submitted to the Engineer an amended document and obtained the Engineer's approval thereof, pursuant to the provisions of Sub-Clause 8.4.4. If the Engineer requests any change in any already approved document and/or in any document based thereon, the provisions of Clause 63.2 shall apply to such request.

9 Copyright

9.1 The copyright in all drawings, documents and other materials containing data and information prepared by Contractor and furnished to the Procuring Entity herein shall remain vested in the Contractor. Similarly, the copyright in all drawings, documents and other materials containing data and information prepared by the Procuring Entity and furnished to the contractor shall remain vested in the Procuring Entity and if they are furnished to the Procuring Entity directly or through the Contractor by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

10 Start Date and Completion

- **10.1.1** The Contractor shall start the Works and Services within the period specified in the **PC**. Upon request from the Contractor, the Procuring Entity shall confirm in writing the Start Date, after verifying that works and services have started on the Site.
- **10.1.2** The Contractor shall attain the required Service Levels and the Completion of the Rehabilitation and

Improvement Works (or of a part where a separate time for Completion of such part is specified in the Contract) within the time schedules included in the **PC** and the Specifications, or within such extended time to which the Contractor shall be entitled under Clause 64 hereof.

11 Contractor's Responsibilities

- 11.1 The Contractor shall design and carry out the Works and Services (including associated purchases and/or subcontracting) necessary to comply with the requirements established in the Specifications with due care and diligence in accordance with the Contract.
- 11.2 The Contractor confirms that it has entered into this Contract on the basis of a proper examination of the data relating to the Works and Services required, including any data and tests provided by the Procuring Entity, and on the basis of information that the Contractor could have obtained from a visual inspection of the Site and of other data readily available to it relating to the Road as of the date twenty-eight (28) days prior to Tender submission. The Contractor acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the Works and Services.
- 11.3 The Contractor shall acquire in its name all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country of the Procuring Entity that are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Procuring Entity under Sub-Clause14.3 hereof and that are necessary for the performance of the Contract.
- **11.4** The Contractor shall comply with all laws inforce in the country of the Procuring Entity and where the Works and Services are carried out. The laws will include all local, state, national or other laws that affect the performance of the Contract and bind upon the Contractor. The Contractor shall indemnify and hold harmless the Procuring Entity from and against any and all liabilities, damages, claims, fines, penalties and expenses of whatever nature arising or resulting from the violation of such laws by the Contractor or its personnel, including the Subcontractors and their personnel, but without prejudice to Sub-Clause 14.1 hereof.
- **11.5** Any Plant, Material and Services that will be incorporated in or be required for the Works and Services and other supplies shall have their origin in an eligible Country as defined under ITT.
- **11.6** The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and sub- consultants to keep, accurate and systematic accounts and records in respect of the Goods in such form and details as will clearly identify relevant time changes and costs.
- 11.7 Pursuant to paragraph 2.2 e. of Appendix A to the General Conditions, the Contractor shall permit and shall cause its subcontractors and sub-consultants to permit, the PPRA or persons appointed by the PPRA 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 PPRA. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 66.1 which provides, interalia, that acts intended to materially impede the exercise of the PPRA's inspection and audit rights constitute a prohibited practice subject to contract termination.

12 Subcontracting

12.1 The Contractor may subcontract activities listed in the **PC**. Any other activity under the Contract may be subcontracted only when approved by the Engineer. The Contractor may not assign the entire Contract without the approval of the Procuring Entity in writing. Subcontracting shall not alter the Contractor's obligations nor relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any Subcontractor, his agents, servants or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents, servants or workmen.

12.2 Notwithstanding Sub-Clause 12.1, the Contractor may subcontract under his own responsibility and without prior approval of the Procuring Entity the small Works and Services also listed in the **PC**.

13 Assignment of Contract

13.1 Neither the Procuring Entity nor the Contractor shall, without the express prior written consent of the other party (which consent shall not be unreasonably withheld), assign to any third party the Contract or any part thereof, or any right, benefit, obligation or interest therein or thereunder, except that the Contractor shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract.

14 Procuring Entity's Responsibilities

- **14.1** The Procuring Entity shall apply due diligence to ensure the accuracy of all information and/or data to be supplied to the Contractor as described in the Specifications, except when otherwise expressly stated in the Contract.
- 14.2 The Procuring Entity shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the corresponding Specifications. The Procuring Entity shall give full possession of an accord all rights of access thereto on or before the date(s) specified in the **PC**.
- **14.3** The Procuring Entity shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located, when such authorities or undertakings require the Procuring Entity to obtain them in the Procuring Entity's name, are necessary for the execution of the Contract, and are specified in the corresponding Specifications.
- **14.4** If requested by the Contractor, the Procuring Entity shall use its best endeavors to assist the Contractor in obtaining in a timely and expeditious manner all permits, approvals and/or licenses necessary for the execution of the Contract from all local, state or national government authorities or public service undertakings that such authorities or undertakings require the Contractor or Subcontractors or the personnel of the Contractor or Subcontractors, as the case may be, to obtain.
- **14.5** The Procuring Entity shall be responsible for the continued operation of the Road after Completion, in accordance with Clause 28, and shall be responsible for facilitating the Guarantee Test(s) for the Road, in accordance with Clause 20.
- **14.5.1** All costs and expenses involved in the performance of the obligations under this Clause 14 shall be the responsibility of the Procuring Entity, save those to be incurred by the Contractor with respect to the performance of Guarantee Tests, in accordance with Clause 20.

15 Confidential Information

15.1 The Procuring Entity and the Contractor shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following termination of the Contract. Notwithstanding the above, the Contractor may furnish to its Subcontractor(s) such documents, data and other information it receives from the Procuring Entity to the extent required for the Subcontractor(s) to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Contractor under this Clause 15.

- 15.2 The Procuring Entity shall not use such documents, data and other information received from the Contractor for any purpose other than the operation and maintenance of the Road. Similarly, the Contractor shall not use such documents, data and other information received from the Procuring Entity for any purpose other than the design, procurement of Plant and Equipment, construction or such Works and Services as are required for the performance of the Contract.
- 15.3 The obligation of a party under Sub-Clauses 15.1 and 15.2 above, however, shall not apply to that information which
 - a) Now or hereafter enters the public domain through no fault of that party;
 - b) Can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party hereto;
 - c) Otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- **15.4** The above provisions of this Clause 15 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Works and Services or any part thereof.
- 15.5 The provisions of this Clause 15 shall survive termination, for whatever reason, of the Contract.

C. EXECUTION OF WORKS AND SERVICES

16 Representatives

16.1 Engineer

- 16.2 If the Engineer is not named in the Contract, then within fourteen (14) days of the issuance of the Form of Acceptance by the Procuring Entity, the Procuring Entity shall appoint and notify the Contractor in writing of the name of the Engineer. The Procuring Entity may from time to time appoint some other person as the Engineer in place of the person previously so appointed, and shall give a notice of the name of such other person to the Contractor without delay. No such appointment shall be made at such a time or in such a manner as to impede the progress of the Works and Services. Such appointment shall only take effect upon receipt of such notice by the Contractor. The Engineer shall represent and act for the Procuring Entity at all times during the period of the Contract. All notices, instructions, orders, certificates, approvals and all other communications under the Contract shall be given by the Engineer, except as herein otherwise provided.
- All notices, instructions, information and other communications given by the Contractor to the Procuring Entity under the Contract shall be given to the Engineer, except as herein otherwise provided.
- 16.4 The Engineer may delegate any of his duties and responsibilities to other people, except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

16.2 Road Manager

- **16.2.1** If the Road Manager is not named in the Contract, then the Contractor shall appoint the Road Manager before the Start Date and shall request the Procuring Entity in writing to approve the person so appointed. If the Procuring Entity makes no objection to the appointment within fourteen (14) days, the Road Manager shall be deemed to have been approved. If the Procuring Entity objects to the appointment within fourteen (14) days giving the reason therefore, then the Contractor shall appoint a replacement within fourteen (14) days of such objection, and the foregoing provisions of Sub-Clause 16.2.1 shall apply thereto.
- 16.2.2 The Road Manager shall represent and act for the Contractor at all times during the period of the Contract and shall give to the Engineer all the Contractor's notices, instructions, information and all other communications under the Contract. The Road Manager shall be in charge of the day-to-day management of the works and services to be provided under the contract on behalf of the Contractor, and shall have legal and all other faculties to take all necessary decisions related to the execution of the contract.
- 16.2.3 All notices, instructions, information and all other communications given by the Procuring Entity or the Engineer to the Contractor under the Contract shall be given to the Road Manager or, in its absence, its deputy, except as herein otherwise provided.
- 16.2.4 The Contractor shall not revoke the appointment of the Road Manager without the Procuring Entity's prior written consent, which shall not be unreasonably withheld. If the Procuring Entity consents thereto, the Contractor shall appoint some other person as the Road Manager, pursuant to the procedure set out in Sub-Clause 16.2.1.
- **16.2.4** The Road Manager may, subject to the approval of the Procuring Entity (which shall not be unreasonably withheld), at any time delegate to any person any of the powers, functions and authorities vested in him or her. Any such delegation may be revoked at any time. Any such delegation or revocation shall be subject to a prior notice to the Engineer signed by the Road Manager, and shall specify the powers, functions and authorities thereby delegated or revoked. No such delegation or revocation shall take effect unless and until a copy thereof has been delivered to the Engineer.
- 16.2.5 Any act or exercise by any person of powers, functions and authorities so delegated to him or her in accordance with this Sub-Clause 16.2.3 shall be deemed to be an act or exercise by the Road Manager.
- **16.2.5** From the Start Date until Completion, the Road Manager shall supervise all work and services done at the

Site by the Contractor and shall be present at the Site throughout normal working hours except when on leave, sick or absent for reasons connected with the proper performance of the Contract. Whenever the Road Manager is absent from the Site, a suitable person shall be appointed to act as his or her deputy.

- **16.2.6** The Procuring Entity may by notice to the Contractor object to any representative or person employed by the Contractor in the execution of the Contract who, in the reasonable opinion of the Procuring Entity, may behave inappropriately, may be incompetent or negligent, or may commit a serious breach of the Site regulations provided under the Specifications. The Procuring Entity shall provide evidence of the same, whereupon the Contractor shall remove such person from the Site.
- **16.2.7** If any representative or person employed by the Contractor is removed in accordance with Sub-Clause 16.2.5, the Contractor shall, where required, promptly appoint a replacement.

17 Work Program

17.1 Contractor's Organization

The Contractor shall supply to the Engineer a chart showing the proposed organization to be established by the Contractor for carrying out the Works and Services. The chart shall include the identities of the key personnel together with the curricula vitae of such key personnel to be employed as included in the Contractor's Tender. The Contractor shall promptly inform the Engineer in writing of any revision or alteration of such an organization chart.

17.2 Program of Performance

Not later than the Start Date, the Contractor shall prepare and supply to the Engineer a program of performance of the Contract, made in the form specified in the Specifications and showing the sequence in which it proposes to design and carry out the Works and Services, as well as the date by which the Contractor reasonably requires that the Procuring Entity shall have fulfilled its obligations under the Contract so as to enable the Contractor to execute the Contract in accordance with the program and to achieve Completion in accordance with the Contract. The Contractor shall update and revise the program as and when appropriate, but without modification in the Times for Completion given in the **PC** and any extension granted in accordance with Clause 64, and shall supply all such revisions to the Engineer.

17.3 Progress Report

The Contractor shall monitor progress of all the activities specified in the program referred to in Sub-Clause 17.2 above, and supply a progress report to the Engineer every month together with his Monthly Statement. The progress report shall be in a form acceptable to the Engineer in accordance with the Specifications.

17.4 Progress of Execution

If at any time the Contractor's actual progress falls behind the program referred to in Sub-Clause 17.2, or it becomes apparent that it will so fall behind, the Contractor shall prepare and supply to the Engineer a revised program, taking into account the prevailing circumstances, and shall notify the Engineer of the steps being taken to expedite progress so as to attain Completion of the Works and Execution of Services activities within the Time for Completion under Sub-Clause 10.2, any extension thereof entitled under Sub-Clause 64, or any extended period as may otherwise be agreed upon between the Procuring Entity and the Contractor.

17.5 Work Procedures

The Contract shall be executed in accordance with the Contract Documents and the procedures given in the Specifications.

18 Execution of Works

18.1 Setting Out/Supervision/Labor

18.1.1 Bench Mark. The Contractor shall be responsible for the true and proper setting-out of the Works in

relation to benchmarks, reference marks and lines provided to it in writing by or on behalf of the Procuring Entity.

If, at any time during the progress of execution of the Works, any error shall appear in the position, level or alignment of the Works, the Contractor shall forthwith notify the Engineer of such error and, at its own expense, immediately rectify such error to the reasonable satisfaction of the Engineer. If such error is based on incorrect data provided in writing by or on behalf of the Procuring Entity, the expense of rectifying the same shall be borne by the Procuring Entity.

18.1.2 Contractor's Supervision. The Contractor shall give or provide all necessary supervision during the execution of the Works, and the Road Manager or its deputy shall be on the Site to provide full-time supervision of the execution. The Contractor shall provide and employ only technical personnel who are skilled and experienced in the irrespective callings and supervisory staff who are competent to adequately supervise the work at hand.

18.2 Contractor's Equipment

- **18.2.1** All Contractor's Equipment brought by the Contractor on to the Site shall be deemed to be intended to be used exclusively for the execution of the Contract. The Contractor shall not remove the same from the Site without informing the Engineer.
- **18.2.2** Unless otherwise specified in the Contract, upon completion of the Works and Services, the Contractor shall remove from the Site all Equipment brought by the Contractor onto the Site and any surplus materials remaining thereon.
- **18.2.3** The Procuring Entity will, if requested, use its best endeavors to assist the Contractor in obtaining any local, state or national government permission required by the Contractor for the export of the Contractor's Equipment imported by the Contractor for use in the execution of the Contract that is no longer required for the execution of the Contract.

18.3 Site Regulations and Safety

The Procuring Entity and the Contractor shall establish Site regulations setting out the rules to be observed in the execution of the Contract at the Site and shall comply therewith. The Contractor shall prepare and submit to the Procuring Entity, with a copy to the Engineer, proposed Site regulations for the Procuring Entity's approval, which approval shall not be unreasonably withheld. Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety, traffic control, accident response, gate control, sanitation, medical care, and fire prevention.

18.4 Access to site for Other Contractors

18.4.1 The Contractor shall, upon written request from the Procuring Entity or the Engineer, give site access to other contractors employed by the Procuring Entity on or near the site.

18.5 Site Clearance

- **18.5.1** Site Clearance in Course of Execution: In the course of carrying out the Contract, the Contractor shall keep the Site reasonably free from all unnecessary obstruction, store or remove any surplus materials, clear away any wreckage, rubbish or temporary works from the Site, and remove any Contractor's Equipment no longer required for execution of the Contract.
- **18.5.2** Clearance of Site after Completion: After Completion of all parts of the Works and Services, the Contractor shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site and the Road clean and safe.

18.6 Watching and Lighting

8.20.1 The Contractor shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the Works and Services, for the protection of his own installations and his equipment, for the safety of the owners and occupiers of adjacent property and for the safety of the public.

18.7 Access to the Site

The Contractor shall allow the Engineer and any person authorized by the Engineer access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

18.8 Management Meetings

- **18.8.1** Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised by either the Contractor or the Procuring Entity.
- 18.8.2 The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Procuring Entity. The responsibility of the parties for actions to be taken shall be decided by the Engineer either during or after the management meeting and stated in writing to all who attended the meeting.

19 Staff and Labor

19.1 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 labor with appropriate qualifications and experience from sources within the Country.

19.2 Rates of Wages and Conditions of Labor

- 19.2.1 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.
- 19.2.2 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 thereof as may be imposed on him by such Laws.

19.3 Persons in the Service of Procuring Entity

The Contractor shall not recruit, or attempt to recruit, staff and labor from amongst the Procuring Entity's Personnel.

19.4 Labor Laws

- **19.4.1** The Contractor shall comply with all the relevant labor Laws applicable to the Contractor's Personnel, including Laws relating to their employment, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights.
- 19.4.2 The Contractor shall require his employees to obey all applicable Laws, including those concerning safety

at work.

19.5 Working Hours

No work shall be carried out on the Site on locally recognized days of rest, or outside the normal working hours stated in the SCC, unless:

- **a)** Otherwise stated in the Contract,
- **b)** The Engineer 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.

19.6 Facilities for Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Procuring Entity's Personnel as stated in the Specification.

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.

19.7 Health and Safety

- 19.7.1 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 at any 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.
- **19.7.2** 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.
- **19.7.3** 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 Engineer may reasonably require.
- **19.7.4** HIV-AIDS Prevention. The Contractor shall conduct an HIV-AIDS awareness programme via an approved service provider and shall undertake such other measures as are specified in this Contract to reduce the risk of the transfer of the HIV virus between and among the Contractor's Personnel and the local community, to promote early diagnosis and to assist affected individuals.

19.8 Contractor's Superintendence

- **19.8.1** Throughout the execution of the Works, and as long thereafter as is necessary to fulfil the Contractor's obligations, the Contractor shall provide all necessary superintendence to plan, arrange, direct, manage, inspect and test the work.
- **19.8.2** 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.

19.9 Contractor's Personnel

- **19.9.1** The Contractor's Personnel specified in the SCC shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Engineer 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 incompetently or negligently,
 - **C** Fails to conform with any provisions of the Contract,
 - \mathbf{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.
- **19.9.2** If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.

19.10 Records of Contractor's Personnel and Equipment

19.10.1 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 calendar month, in a form approved by the Engineer, 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.

19.11 Disorderly Conduct

19.11.1 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.

19.12 Foreign Personnel

- **19.12.1** The Contractor may bring into the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required residence visas and work permits. The Procuring Entity will, if requested by the Contractor, use his lowest endeavors in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national or government permission required for bringing in the Contractor's personnel.
- **19.12.2** The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country 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.

19.13 Supply of Foodstuffs

The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

19.14 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.

19.15 Measures against Insect and Pest Nuisance

19.15.1 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.

19.16 Alcoholic Liquor or Drugs

19.16.1 The Contractor shall not, otherwise than in accordance with the Laws of the Country, 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.

19.17 Arms and Ammunition

The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

19.18 Festivals and Religious Customs

The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.

19.19 Funeral Arrangements

8.43.1 The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of his local employees who may die while engaged upon the Works.

19.20 Prohibition of Forced or Compulsory Labor

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.

19.21 Prohibition of Harmful Child Labor

The Contractor shall not employ children in a manner that is economically exploitative, or is likely to be hazardous, 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 labor laws of the Country 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.

19.22 Employment Records of Workers

The Contractor shall keep complete and accurate records of the employment of labor 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 19.10 [Records of Contractor's Personnel and Equipment].

19.23 Workers' Organizations

The Contractor shall comply with laws on workers' rights to form and to join workers' organizations without interference and to bargain collectively.

19.24 Non-Discrimination and Equal Opportunity

The Contractor shall not make employment decisions on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment relationship on the principle of equal opportunity and fair treatment and 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 employment or retirement, and discipline.

20 Test and Inspection

- **20.1** The Contractor shall at its own expense carry out on the Site all such tests and/or inspections as are specified in the Specifications, and in accordance with the procedures described in the Specifications.
- **20.2** The Procuring Entity and the Engineer or their designated representatives shall be entitled to attend the aforesaid test and/or inspection.
- **20.3** For tests to be carried out on the initiative of the Contractor, whenever the Contractor is ready to carry out any such test and/or inspection, he shall give a reasonable advance notice of such test and/or inspection and of the place and time thereof to the Engineer. The Contractor shall provide the Engineer with a signed report of the results of any such test and/or inspection.
- **20.4** If the Procuring Entity or Engineer (or their designated representatives) fails to attend a scheduled test and/or inspection, or if it is agreed between the parties that such persons shall not attend, then the Contractor may proceed with the test and/or inspection in the absence of such persons, and may provide the Engineer with a signed report of the results thereof.
- **20.5** The Engineer may require the Contractor to carry out any test and/or inspection not required by the Contract, provided that the Contractor's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of the works and/or the Contractor's performance of its other obligations under the Contract, due allowance will be made in respect of the Time for Completion and the other obligations so affected.
- **20.6** If Rehabilitation Works, Improvement Works or Emergency Works fail to pass any test and/or inspection, the Contractor shall either rectify or replace such works and shall repeat the test and/or inspection upon giving a notice under Sub-Clause 20.3.
- **20.7** If any dispute or difference of opinion shall arise between the parties in connection with or arising out of the test and/or inspection of the Works and Services, or part of them, that cannot be settled between the parties within a reasonable period of time, it may be referred to the Arbitration for determination in accordance with Sub-Clause6.1.

20.8 The Contractor agrees that neither the execution of a test and/or inspection of the Works and Services or any part of them, nor the attendance by the Procuring Entity or the Engineer, nor the issue of any test certificate pursuant to Sub-Clause 20.4, shall release the Contractor from any other responsibilities under the Contract.

- **20.9** No part or foundations shall be covered up on the Site without the Contractor carrying out any test and/or inspection required under the Contract. The Contractor shall give a reasonable notice to the Engineer whenever any such part or foundations are ready or about to be ready for test and/or inspection; such test and/or inspection and notice thereof shall be subject to the requirements of the Contract.
- **20.10** The Contractor shall uncover any part of the Works or foundations, or shall make openings in or through the same as the Engineer may from time to time require at the Site, and shall reinstate and make good such part or parts.
- **20.11** If any parts of the Works or foundations have been covered up at the Site after compliance with the requirement of Sub-Clause 20.9 and are found to be executed in accordance with the Contract, the expenses of uncovering, making openings in or through, reinstating, and making good the same shall be borne by the Procuring Entity, and the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been delayed or impeded in the performance of any of its obligations under the Contract.

21 Rehabilitation Works

If so indicated in the **PC**, specific Rehabilitation Works shall be carried out explicitly in accordance with the Specifications and as specified in the tendering document and in the Contractor's Tender. Input quantities for Rehabilitation Works were estimated by the Contractor to achieve the performance criteria for Rehabilitation Works given in the Specifications. The specific Rehabilitation Works were offered by the Contractor at a Lump-Sum price.

22 Improvement Works

- **22.1** If so indicated in the **PC**, Improvement Works are required and will consist of a set of interventions that add new characteristics to the roads in response to new traffic and safety or other conditions. Improvement Works quantities were offered at unit prices included in the Bill of Quantities.
- The execution of Improvement Works shall be requested by the Engineer, who will issue a Work Order defining the requested works to be carried out by the Contractor, based on the activities priced in the Bill of Quantities. The Work order shall specify the activities to be carried out and the corresponding price. The Road Manager shall confirm his acceptance by signing the Work Order.

23 Maintenance Services

Maintenance Services are those activities necessary for keeping the Road in compliance with the Performance Standard's pursuant to Clause 24. Maintenance Services shall include all activities required to achieve and keep the Road Performance Standard's and Service Levels. These Services will be remunerated by Lump-Sum amount for the period of the contract paid in fixed monthly payments during the entire Contract period.

24 Performance Standards

The Contractor shall carry out the Maintenance Services to achieve and keep the Road complying with the Service Levels defined in the Specifications. He will carry out all Works in accordance with the performance standards indicated in the Specifications.

25 Contractor's Self-Control of Quality and Safety

25.1 The Contractor shall, throughout the execution and completion of the Works and Services, maintain a System which shall ensure that the work methods and procedures are adequate and safe at all times and do not pose any avoidable risks and dangers to the health, safety and property of the workers and agents employed by him or any of his subcontractors, of road users, of persons living in the vicinity of the roads under contract, and any other person who happens to be on or along the roads under contract.

- 25.2 Unless specified otherwise in the **PC**, the Contractor shall establish, within his own organizational structure, a specific Unit staffed with qualified personnel, whose task is to verify continuously the degree of compliance by the Contractor with the required Service Levels. That Unit will also be responsible for the generation and presentation of the information needed by the contractor for the documentation required as defined in the Specifications. The Unit will be responsible for maintaining a detailed and complete knowledge of the condition of the Road and to provide to the Road Manager all the information needed in order to efficiently manage and maintain the Road. The Unit shall also carry out, in close collaboration with the Engineer, the verifications on the Service Levels.
- **25.3** The Contractor's Self-Control Unit mentioned in Sub-Clause 25.2 shall report the level of compliance with the required Service Levels in the standard format presented in the Specifications.

26 Environmental and Safety Requirements

- **26.1** The Contractor shall, throughout the design, execution and completion of the Works and Services, and the remedying of any defects therein:
 - a) Have full regard for the safety of all persons employed by him and his subcontractors and keep the Site (so far as the same is under his control) in an orderly state appropriate to the avoidance of danger to such persons;
 - b) Provide and maintain at his own cost all guardrails, fencing, warning signs and watching, when and where necessary or required by Sub-Clause 18.3 of the Contractor by any duly constituted authority, for the protection of the Works and Services or for the safety and convenience of his workers and road users, the public or others; and
 - c) Take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise and other results of his operations.

27 Work Orders for Improvement Works and Emergency Works

Improvement Works and Emergency Works shall be executed by the Contractor on the basis of Work Orders issued by the Engineer.

- **27.1** Work Orders shall be issued in writing and shall include the date on which the Work Order was issued and the signature of the Engineer. Two copies of the Work Order shall be transmitted by the Engineer to the Contractor, who shall immediately countersign one copy, including the date of acceptance, and return it to the Engineer.
- **27.2** If the Contractor has any objection to a Work Order, the Road Manager shall notify the Engineer of his reasons for such objection within ten (10) days) of the date of issuing the Work Order. Within five (5) days of the Road Manager's objection, the Engineer shall cancel, modify or confirm the Work Order in writing.

28 Taking Over Procedures

- **28.1** When the whole of the Works and Services have been substantially completed and have satisfactorily passed any Tests on Completion prescribed by the Contract, the Contractor may give a notice to that effect to the Engineer, accompanied by a written undertaking to finish with due expedition any outstanding work during the Defects Liability Period. Such notice and undertaking shall be deemed to be a request by the Contractor for the Engineer to issue a Taking-Over Certificate in respect of the Works and Services. The Engineer shall, within twenty-one (21) days of the date of delivery of such notice, either issue to the Contractor a Taking-Over Certificate, stating the date on which the Works and Services were substantially completed in accordance with the Contract, or give instructions in writing to the Contractor specifying all the conditions to be complied with and all the work which is required to be done by the Contractor before the issue of such Certificate. The Engineer shall also notify the Contractor of any defects in the Works and Services affecting substantial completion that may appear after such instructions and before completion of Taking-Over Certificate within twenty-one (21) days of completion, to the satisfaction of the Engineer, of the Works and Services so specified and remedying any defects so notified.
- 28.2 Similarly, in accordance with the procedure set out in Sub-Clause 28.1, the Contractor may request and the

Engineer shall issue a Taking-Over Certificate in respect of:

- a) Any Section in respect of which a separate Time for Completion is provided in the contract,
- **b)** Any substantial part of the Works and Services which has been both completed to the satisfaction of the Engineer and, otherwise than as provided for in the Contract, occupied or used by the Procuring Entity, or
- c) Any part of the Works and Services which the Procuring Entity has elected to occupy or use prior to completion (where such prior occupation or use is not provided for in the Contractor has not been agreed by the Contractor as a temporary measure).

29 Emergency Works

- **29.1** The need for execution of Emergency Works is jointly identified by the Procuring Entity and the Contractor and the starting of the execution of Emergency Works shall always require a Work Order issued by the Engineer.
- **29.2** The execution of Emergency Works shall be requested by the Contractor based on losses or damages occurred as a result of natural phenomena (such as strong storms, flooding or earthquakes) with imponderable consequences, or on the possibility of damages or losses occurring, or the safety of individuals, works, services or equipment being at risk as result of the natural phenomena. In order to characterize the Emergency Works, the Contractor shall forward a Technical Report to the Engineer requesting the execution of Emergency Works and characterizing the situation. On the basis of the said report, and of his own judgment of the situation, the Engineer may issue a Work Order to the Contractor.
- **29.3** The Procuring Entity or even Government authorities may declare an Emergency Situation on the basis of local legislation. In those cases, the Engineer may issue a Work Order for Emergency Works to the Contractor even without a request by the Contractor.
- **29.4** If the Contractor is unable or unwilling to do such work immediately, the Procuring Entity may do or cause such work to be done as the Procuring Entity may determine necessary in order to prevent damage to the Road. In such event the Procuring Entity shall, as soon as practicable after the occurrence of any such emergency, notify the Contractor in writing of such emergency, the work done and the reasons therefore. If the work done or caused to be done by the Procuring Entity is work that the Contractor was liable to do at its own expense under the Contract, the reasonable costs incurred by the Procuring Entity in connection therewith shall be paid by the Contractor to the Procuring Entity. Otherwise, the cost of such remedial work shall be borne by the Procuring Entity.

30 Quality of materials used by Contractor

- **30.1** The quality of materials used by the Contractor for the execution of the Contract shall be in compliance with the requirements of the Specifications. If the Contractor is of the opinion that materials of higher quality than those stated in the Specifications need to be used in order to ensure compliance with the Contract, he shall use such better materials, without being entitled to higher prices or remunerations.
- **30.2** Under no circumstances may the Contractor make any claim based on the insufficient quality of materials used by him, even if the material used was authorized by the Engineer.
- **20.3** The Contractor shall carry out at his own cost the laboratory and other tests that he needs to verify if materials to be used comply with the Specifications, and shall keep records of such tests. If requested by the Engineer, the Contractor shall handover the results of the tests.

31 Signaling and demarcation of work zones and by passes

- **31.1** To ensure the safety of road users, including non-motorized road users and pedestrians, the Contractor is responsible to install and maintain at his cost the adequate signaling and demarcation of worksites, which in addition must comply with the applicable legislation.
- **31.2** If the execution of services and works under the contract is likely to interfere with traffic, the Contractor shall take at his cost the measures necessary to limit such interference to the strict minimum, or any danger to the workers or others. For that purpose, he is entitled to install, within the right-of-way of the road, temporary by passes, structures or other modifications to be used by traffic during the execution of works and services. The Contractor shall notify the Engineer of any such temporary installations.

- **31.3** If the execution of Works and Services by the Contractor makes it necessary to temporarily close a road section, and a traffic detour has to be implemented over other public roads or streets, the Contractor shall be responsible for the adequate signaling of the detour, under the same conditions as stated in Sub-Clause 31.1.
- **31.4** The Contractor shall inform the local authorities and the local police about such activities to be carried out by him which may cause any significant interruptions or changes to the normal traffic patterns. Such information shall be made in writing and at least seven (7) days before the beginning of such activities. Upon request from the Contractor, the Procuring Entity shall assist the Contractor in the coordination with the local authorities and the local police.

D. ALLOCATION OF RISKS

32 Procuring Entity's Risks

- **32.1** From the Start Date until the Defects Correction Certificate has been issued, the following are Procuring Entity's risks in so far as they directly affect the execution of the Works and Services included in this Contract:
 - a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies;
 - b) rebellion, revolution, insurrection, military or usurped power, or civil war;
 - c) ionizing radiations, contamination by radio activity from any nuclear fuel, or any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof;
 - d) riot, commotion or disorder, unless solely restricted to employees of the Contractor or of his Subcontractors and arising from the conduct of the Works and Services;
 - e) loss or damage due to the use or occupation by the Procuring Entity of any unfinished Section or part of the Works, except as may be provided for in the Contract;
 - **f)** Any operation of the forces of nature against which an experienced contractor could not reasonably have been expected to take precautions.

33 Contractor's Risks

33.1 The Procuring Entity carries the risks which this Contract states are Procuring Entity's risks, and the remaining risks are the Contractor's risks. The Risks are indicated in the **PC**.

34 Loss of or Damage to Property; Accident or Injury to Workers; Indemnification

- **34.1** Subject to Sub-Clause 34.3, the Contractor shall indemnify and hold harmless the Procuring Entity and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any person or loss of or damage to any property arising in connection with the execution and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Procuring Entity, its contractors, employees, officers or agents.
- **34.2** If any proceedings are brought or any claim is made against the Procuring Entity that might subject the Contractor to liability under Sub-Clause 34.1, the Procuring Entity shall promptly give the Contractor a notice thereof and the Contractor may at its own expense and in the Procuring Entity's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
- 34.3 If the Contractor fails to notify the Procuring Entity within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Procuring Entity shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Procuring Entity within the twenty- eight (28) day period, the Procuring Entity shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Procuring Entity shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.
- **34.4** The Procuring Entity shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from any liability for loss of or damage to property of the Procuring Entity, other than the Works not yet taken over, that is caused by fire, explosion or any other perils, in excess of the amount recoverable from insurances procured under Clause 35, provided that such fire, explosion or other perils were not caused by any actor failure of the Contractor.

34.5 The party entitled to the benefit of an indemnity under this Clause 34 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the party fails to take such measures, the other party's liabilities shall be correspondingly reduced.

35 Insurance

- **35.1** To the extent specified in the **PC**, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said **PC**. The identity of the insurers and the form of the policies shall be subject to the approval of the Procuring Entity, who should not unreasonably withhold such approval.
 - a) Loss of or damage to the Plant and Materials-Covering loss or damage occurring prior to Completion.
 - **b)** Third Party Liability Insurance-Covering bodily injury or death suffered by third parties (including the Procuring Entity's personnel) and loss of or damage to property occurring in connection with Works and Services.
 - c) Automobile Liability Insurance Covering use of all vehicles used by the Contractor or its Subcontractors (whether or not owned by them) in connection with the execution of the Contract.
 - **d)** Workers' Compensation-In accordance with the statutory requirements applicable in any country where the Contractor any part thereof is executed.
 - **e)** Procuring Entity's Liability In accordance with the statutory requirements applicable in any country where the Contractor any part thereof is executed.
 - **f)** Other Insurances Such other insurances as may be specifically agreed upon by the parties.
- The Procuring Entity shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to Sub-Clause 35.1, except for the Third Party Liability, Workers' Compensation and Procuring Entity's Liability Insurances, and the Contractor's Subcontractors shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to Sub-Clause 35.1 except for the Cargo Insurance During Transport, Workers' Compensation and Procuring Entity's Liability Insurances. All insurer's rights of subrogation against such co-insured for losses or claims arising out of the performance of the Contract shall be waived under such policies.
- 35.3 The Contractor shall deliver to the Procuring Entity certificates of insurance (or copies of the insurance policies) as evidence that the required policies are in full force and effect. The certificates shall provide that no less than twenty-one (21) days' notice shall be given to the Procuring Entity by insurers prior to cancellation or material modification of a policy.
- 35.4 The Contractor shall ensure that, where applicable, its Subcontractor(s) shall take out and maintain in effect adequate insurance policies for their personnel and vehicles and for work executed by them under the Contract, unless such Subcontractors are covered by the policies taken out by the Contractor.
- 35.5 If the Contractor fails to take out and/or maintain in effect the insurances referred to in Sub-Clause 35.1, the Procuring Entity may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Contract or under the Contract any premium that the Procuring Entity shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Contractor.
- 35.6 Unless otherwise provided in the Contract, the Contractor shall prepare and conduct all and any claims made under the policies effected by it pursuant to this Clause 35, and all monies payable by any insurers shall be paid to the Contractor. The Procuring Entity shall give to the Contractor all such reasonable assistance as maybe required by the Contractor. With respect to insurance claims in which the Procuring Entity's interest is involved, the Contractor shall not give any release or make any compromise with the insurer without the prior written consent of the Procuring Entity. With respect to insurance claims in which the Contractor's interest is involved, the Procuring Entity shall not give any release or make any compromise with the insurer without the prior written consent of the Contractor.

36 Unforeseen Conditions

- **36.1** If, during the execution of the Contract, the Contractor shall encounter on the Site any physical conditions (other than climatic conditions) or artificial obstructions that could not have been reasonably foreseen prior to the date of the Contract Agreement by an experienced contract or on the basis of reasonable examination of the data relating to the Road (including any data and tests provided by the Procuring Entity), and on the basis of information that it could have obtained from a visual inspection of the Site or other data readily available to it relating to the Road, and if the Contractor determines that it will in consequence of such conditions or obstructions incur additional cost and expense or require additional time to perform its obligations under the Contract that would not have been required if such physical conditions or artificial obstructions had not been encountered, the Contractor shall promptly, and before performing additional work or using additional Plant and Equipment or Contractor's Equipment, notify the Engineer in writing of:
 - **a)** The physical conditions or artificial obstructions on the Site that could not have been reasonably foreseen;
 - **b)** The additional work and/or Plant and Equipment and/or Contractor's Equipment required, including the steps which the Contractor will or proposes to take to overcome such conditions or obstructions;
 - c) The extent of the anticinated delay-

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- **30.** On receiving any notice from the Contractor under this Sub-Clause 36.1, the Engineer decide upon the actions to be taken to overcome the physical conditions or artificial obstructions encountered. Following such consultations, the Engineer shall instruct the Contractor, with a copy to the Procuring Entity, of the actions to be taken.
- **36.3** Any reasonable additional cost and expense incurred by the Contractor in following the instructions from the Engineer to overcome such physical conditions or artificial obstructions referred to in Sub-Clause 36.1 shall be paid by the Procuring Entity to the Contractor as an addition to the Contract Price.
- **36.4** If the Contractor is delayed or impeded in the performance of the Contract because of any such physical conditions or artificial obstructions referred to in Sub-Clause 36.1, the Time for Completion shall be extended in accordance with Clause 64.

37 Change in Laws and Regulations

If, after the date twenty-eight (28) days prior to the date of Tender submission, where the Site is located, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced costs shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with the **PC**.

38 Force Majeure

- **38.1** "Force Majeure" shall mean any event beyond the reasonable control of the Procuring Entity or of the Contractor, as the case may be, in so far as they directly affect the execution of the Services and Works included in this Contract and which is unavoidable notwithstanding the reasonable care of the party affected, and shall include, without limitation, the following:
 - **a)** war, hostilities or war like operations (whether a state of war be declared or not), invasion, act of foreign enemy and civil war;
 - **b)** rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts;
 - c) confiscation, nationalization, mobilization, commandeering, requisition by or under the order of any government or dejure or defacto authority or ruler or any other actor failure to act of any local state or

- national government authority;
- **d)** strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine and plague;
- e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster;
- f) shortage of labor, materials or utilities where caused by circumstances that are themselves Force Majeure.
- **38.2** If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within fourteen (14) days after the occurrence of such event.
- **38.3** The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended in accordance with Clause 64.
- **38.4** The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect thereof upon its or their performance of the Contract and to fulfill its or their obligations under the Contract, but without prejudice to either party's right to terminate the Contract under Sub-Clause 38.6.
- **38.5** No delay or nonperformance by either party hereto caused by the occurrence of any event of Force Majeure shall:
 - a) Constitute a default or breach of the Contract; and
 - **b)** Give rise to any claim for damages or additional cost or expense occasioned thereby;
 - If and to the extent that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.
- **38.6** If the performance of the Contract is substantially prevented, hindered or delayed for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of one or more events of Force Majeure during the currency of the Contract, the parties will attempt to develop a mutually satisfactory solution, failing which either party may terminate the Contract by giving a notice to the other, but without prejudice to either party's right to terminate the Contract under Clause 59.
- **38.7** In the event of termination pursuant to Sub-Clause 38.6, the rights and obligations of the Procuring Entity and the Contractor shall be as specified in Sub-Clauses 59.1.2 and 59.1.3.
- **38.8** Notwithstanding Sub-Clause 38.5, Force Majeure shall not apply to any obligation of the Procuring Entity to make payments to the Contractor herein.

E. GUARANTEES AND LIABILITIES

- 39 Completion Time Guarantee and Liability
- **39.1** The Contractor guarantees that it shall attain specified Service Levels and the Completion of Rehabilitation and Improvement Works (or a part for which a separate time for completion is specified in the **PC**) within the time schedules specified in the **PC** and the Specifications, pursuant to Sub-Clause 10.2, or within such extended time to which the Contractor shall be entitled under Clause 64 hereof.
- 39.2 If the Contractor fails to attain specified Service Levels within the contractually agreed time schedules as

given in the Specifications, the contractor shall receive reduced payments for Maintenance Services, for such default and not as a penalty, in accordance with the Specifications.

- **39.3** If the Contractor fails to attain the Completion of Rehabilitation and Improvement Works (or apart for which a separate time for completion is specified in the **PC** clause 39.1) within the contractually required time schedules, the contractor shall pay to the Procuring Entity liquidated damages for such default and not as a penalty, in accordance with the **PC** and the Specifications.
- **39.4** The payment reductions and liquidated damages indicated in Clause <u>51</u>and 39.3 shall be the only monies due from the Contractor for such defaults, and they will be applied for every day of delay, in accordance with the **PC** and the Specifications. The aggregate amount of such liquidated damages and payment reductions shall in no event exceed the "aggregate liability" in accordance with Clause
- **39.5** The payment or deduction of such sums shall not relieve the Contractor from his obligation to complete the Works and Services, or from any other of his obligations and liabilities under the Contract.

40 Performance Guarantee and Liability

- **40.1** The Contractor guarantees that during the Performance Tests or Inspections for Rehabilitation and Improvement Works, and for Emergency Works, the Road and all parts thereof shall attain the Performance Standard's specified in the corresponding Specifications.
- **40.2** If, for reasons attributable to the Contractor, the minimum level of the Performance Standard's specified in the corresponding Specifications are not met either in whole or in part, the Contractor shall at its cost and expense make such changes, modifications and/or additions to the Road or any part thereof as may be necessary to meet at least the minimum level of such Standard's. The Contractor shall notify the Procuring Entity upon completion of the necessary changes, modifications and/or additions, and shall request the Procuring Entity to repeat the Test or Inspection until the minimum level of the Standard's has been met. If the Contractor eventually fails to meet the minimum level of Performance Standard, the Procuring Entity may consider termination of the Contract, pursuant to Sub-Clause 59.2.2.
- **40.3** If, for reasons attributable to the Contractor, the Performance Standard's relating to Rehabilitation and Improvement Works specified in the corresponding Specifications are not attained either in whole or in part, the Contractor shall, at the Contractor's choice, either
 - a) Make such changes, modifications and/or additions to the Works and Services or any part thereof that are necessary to attain the Performance Standard's at its cost and expense, and shall request the Procuring Entity to repeat the Test, or
 - b) Pay liquidated damages to the Procuring Entity in respect of the Works and Services which fail to meet the Performance Standard's in accordance with the provisions in the corresponding Specifications.
- **40.4** The payment of liquidated damages under Sub-Clause 40.3, up to the limitation of liability specified in the **PC**, shall completely satisfy the Contractor's guarantees under Sub-Clause 40.1, and the Contractor shall have no further liability whatsoever to the Procuring Entity in respect thereof. Upon the payment of such liquidated damages by the Contractor, the Engineer shall issue the Certificate of Completion for the Works or any part thereof in respect of which the liquidated damages have been so paid.

41 Defect Liability

- **41.1** The Contractor warrants that the Works and Services or any part thereof shall be free from defects in the design, engineering, materials and workmanship of the Works and Services executed.
- **41.2** The Defect Liability Period shall be twelve (12) months from the date of Completion of the Contract, or eighteen (18) months from the date of Certificate of Completion of the Works (or any part thereof),

whichever occurs first, unless specified otherwise in the **PC**. If during the Defect Liability Period any defect should be found in the design, engineering, materials and workmanship of the Works and Services executed by the Contractor, the Contractor shall promptly, in consultation and agreement with the Procuring Entity regarding appropriate remedying of the defects, and at its cost, repair, replace or otherwise make good (as the Contractor shall, at its discretion, determine) such defect as well as any damage to the Road caused by such defect. The Contractor shall not be responsible for the repair, replacement or making good of any defector of any damage to the Road arising out of or resulting from improper operation or maintenance of the Road by the Procuring Entity after taking over.

- 41.3 The Contractor's obligations under this Clause 41shall not apply to:
 - a) Any works or materials that have a normal life shorter than the Defect Liability Period stated herein;
 - Any designs, specifications or other data designed, supplied or specified by or on behalf of the Procuring Entity or any matters for which the Contractor has disclaimed responsibility herein;
 - c) Any other materials supplied or any other work executed by or on behalf of the Procuring Entity, except for the work executed by the Procuring Entity under Sub-Clause 41.6.
- **41.4** The Procuring Entity shall give the Contractor a notice stating the nature of any such defect together with all available evidence thereof, promptly following the discovery thereof. The Procuring Entity shall afford all reasonable opportunity for the Contractor to inspect any such defect.
- **41.5** The Procuring Entity shall afford the Contractor all necessary access to the Site to enable the Contractor to perform its obligations under this Clause 41. The Contractor may remove from the Site any Plant and Equipment that are defective if the nature of the defect is such that repairs cannot be expeditiously carried out at the Site.
- **41.6** If the Contractor fails to commence the work necessary to remedy such defect or any damage to the Road caused by such defect within a reasonable time (which shall in no event be considered to be less than fifteen (15) days), the Procuring Entity may, following notice to the Contractor, proceed to do such work, and the reasonable costs incurred by the Procuring Entity in connection there with shall be paid to the Procuring Entity by the Contractor or may be deducted by the Procuring Entity from any monies due the Contractor or claimed under the Performance Security.
- **41.7** If the Road or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Road or such part, as the case may be, shall be extended by a period equal to the periodduringwhichtheRoadorsuchpartcannotbeusedbecauseofanyoftheaforesaidreasons.
- **41.8** Except as provided in Clauses 40 and 41, the Contractor shall be under no liability whatsoever and howsoever arising, and whether under the Contractor at law, in respect of defects in the Road or any part thereof, the Plant and Equipment, design or engineering or work executed that appear after Completion of the Works and Services, except where such defects are the result of the gross negligence, fraud, criminal or willful action of the Contractor.

42 Limitation of Liability

- **42.1** Except in cases of criminal negligence or willful misconduct,
 - a) The Contractor shall not be liable to the Procuring Entity, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Procuring Entity and
 - **b)** the aggregate liability of the Contractor to the Procuring Entity, whether under the Contract, in tort or otherwise, shall not exceed the limit specified in the **PC**.

43 Liability for Damages through Traffic Accidents and Traffic Interruptions

- **43.1** The Contractor cannot be held liable for losses or damages of any kind arising out of traffic accidents on the roads included in the Contract, unless those traffic accidents have been caused directly by potholes or other major defects of the Road covered by the Contract he failed to repair in a timely manner, criminal acts, willful misconduct or gross negligence of the Contractor.
- **43.2** Under no circumstances can the Contractor be held liable for losses or damages of any kind and to anyone arising out of interruptions of traffic or traffic delays on the road included in the Contract, including any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs.

F. PAYMENT

44 Contract Price

- **44.1** The Contract Price shall be as specified in the Form of Contract Agreement to be paid in the currencies indicated in the **PC**.
- **44.2** Unless indicated otherwise in the **PC**, and except in the event of a Change as provided for in the Contract, the Contract Price shall be: -
 - a) For Rehabilitation Works, a firm lump sum not subject to any alteration, to be paid according to work progress;
 - **b)** For Maintenance Services, a firm lump sum to be paid in monthly installments;
 - c) For Improvement Works, the total price stated in the Bill of Quantities for this item;
 - **d)** For Emergency Works, the Provisional Sum reserved for this purpose.
- **44.3** The Contractor shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract.

45 Advance Payment

- **45.1** The Procuring Entity shall make advance payment to the Contractor of the amounts and by the date stated in the **PC**, against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Procuring Entity in amounts and currencies equal to the advance payment. The Guarantee shall remain effective until the advance payment has been repaid, but the amount of the Guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest will not be charged on the advance payment.
- **45.2** The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for the execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Engineer.
- **45.3** The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works and Services on a payment basis as indicated in the **PC**.

46 Bills of Quantities

46.1 The Bills of Quantities shall contain items for Groups of Activities which include the provision of Services (measured by performance standards) and Works (measured by unit of outputs or of products). The Bill of Quantities for Works shall include, where applicable, the lump-sum and unit price for Rehabilitation Works, and unit rates for Improvement Works and for Emergency Works.

- **46.2** Maintenance Services shall be measured and billed separately and will be remunerated by lump-sum amount for the period of the contract, and paid in fixed monthly payments during the entire Contract period. The values for remuneration of the Maintenance Services are those stated in the Bills of Quantities.
- **46.3** Rehabilitation Works will be remunerated by Lump-Sum amount for the period of the contract, however, indicating the quantities of measurable outputs to be executed in order that the Road achieves the performance standards specified in the tendering document. Payments will be made in accordance with the execution of those measured outputs paid by executed works output. The prices shall be those stated in the Bill of Quantities.
- **46.4** Improvement Works will be remunerated after acceptance by the Procuring Entity and shall be paid according to the product unit price using the prices included in the Bill of Quantities.
- **46.5** Each Emergency Work Order issued by the Engineer will include a lump-sum price for the works to be performed. The Lump-Sum price for the Emergency Works will be submitted by the Contractor to the Engineer in each emergency pursuant to Clauses 29 and 61 and will be prepared based on the Specifications and on the unit prices included in the Bill of Quantities for Emergency Works, and will remunerate all Emergency Activities. The prices include compliance with all Performance Indices described in the Specifications. Once approved, Emergency Works will be paid as lump sum in accordance with the schedule of payment proposed by the Contractor for the specific Emergency and approved by the Procuring Entity.
- **46.6** The Bills of Quantities is used to calculate the Contract Price. The amounts for Maintenance Services and Rehabilitation Works are the Lump-Sum prices offered in the Contractor's Tender. The Improvement Works amount included in the Contract is an estimate on the basis of unit prices included in the Contractor's Tender. The Provisional Sum included in the Contract Price is an estimate for use when authorized by the Procuring Entity for Emergency Works and contingencies.

47 Measurement

- **47.1** Maintenance Services will not be measured in volume; however, its payment will be affected by compliance withthePerformanceStandard'spursuanttoClause24. Maintenance Services shall be billed in fixed monthly amounts as per the Bill of Quantities Lump-Sum amount for Maintenance Services, beginning from the Start Date. Payments will be made with Reductions if the Performance Standards are not achieved, as defined in the Specifications. The Reductions for non-compliance with the Performance Standard's will be applied on a daily basis for the period under which the Road does not achieve the Performance Standard's, in accordance with the methodology specified in the Specifications.
- **47.2** Rehabilitation Works will be measured on the basis indicated in the **PC**, based on the quantity of actual work outputs as defined in the Specifications, concluded by the Contractor and approved by the Engineer. The prices shall be those stated in the Bill of Quantities.
- **47.3** Improvement Works will be measured on the basis indicated in the **PC** and in accordance with the unit of measurement used for product unit price included in the Bill of Quantities. The prices shall be those stated in the Bill of Quantities.
- **47.4** Emergency Works will not be measured and shall be billed in accordance with the Schedule of Payments agreed for each specific Emergency Work as approved by the Procuring Entity.

48 Price Adjustments

48.1 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the **PC**. If so provided, the amounts certified in each payment certificate, after 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 indicated below applies to each Contract currency:

Pc=Ac+BcImc/Ioc

where:

Pc is the adjustment factor for the portion of the Contract Price payable in a specific currency "c" Ac and Bc are coefficients specified in the **PC**, representing the non-adjustable and adjustable portions, respectively, of the Contract Price payable in that specific currency "c", and Imc is the index prevailing at the end of the month being invoiced and Ioc is the index prevailing twenty-eight (28) days before Tender opening for inputs payable; both in the specific currency "c".

48.2	If the value of the index is changed after it has been used in a calculation, the calculation shall be corrected and an adjustment made in the next payment certificate. The index value shall be deemed to take account of all changes in cost due to fluctuations in costs.

¹The sum of the two coefficients Ac and Bc should be 1 (one) in the formula for each currency. Normally, both coefficients will 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 non-adjustable components. The sum of the adjustments for each currency is added to the Contract Price.

49 Monthly Statements and Payments

- **49.1** The Contractor shall submit to the Engineer monthly statements in the format indicated in the Specifications, of the estimated value of Maintenance Services, Rehabilitation Works, Improvement Works, and Emergency Works in separated items covering the Works and Services for the corresponding month.
- **49.2** The Engineer shall check the Contractor's monthly statement and certify within fourteen (14) days the amount to be paid to the Contractor.
- **49.3** The value of Services executed shall be certified by the Engineer considering the monthly amount included in the Bill of Quantities for Maintenance Services and the achievement of the Performance Standard's for the Maintenance Services adjusted for any payment reductions in accordance with Sub-Clause 51.1.
- **49.4** The value of Works executed shall be certified by the Engineer considering the value of the quantities of products executed and the prices in the Bill of Quantities.
- **49.5** The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

50 Payments

- **50.1** Payments shall be adjusted for deductions for advance payments, retention, and reductions for not achieving Performance Standard's for Maintenance Services. The Procuring Entity shall pay the Contractor the amounts certified by the Engineer in accordance with Clause 49, within twenty-eight (28) days of the date of each certificate. If the Procuring Entity makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the prevailing rate of interest for commercial borrowing for each of the currencies in which payments are made.
- **50.2** If an amount certified is increased in a later certificate or because of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute. The interest rate shall be determined as per Sub-Clause 50.1.
- **50.3** Unless otherwise stated, all payments and deductions will be paid or charged in the proportions of currencies comprising the Contract Price.
- **50.4** Items of the Works for which no rate or price has been entered in the Bill of Quantities will not be paid for by the Procuring Entity and shall be deemed covered by other rates and prices in the Contract.
- **50.5** Where the contract price is different from the corrected tender price, in order to ensure the contractor is not paid 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 Quantities or schedule of rates in the Tender, will be adjusted by a plus or minus percentage. The percentage already worked out during tender evaluation is worked out as follows: (corrected tender price tender price)/tender price X 100.

51 Retention and Reductions

- **51.1** The Procuring Entity shall retain the percentage indicated in the **PC** from each payment due to the Contractor for Rehabilitation Works and Improvement Works, except for the types of works specified in the **PC**. The regular monthly lump-sum payments for performance-based Maintenance Services will not be subject to retentions, unless indicated in the **PC**.
- **51.2** 52.2 On completion of the Rehabilitation and Improvement Works, half the total amount retained shall be repaid to the Contractor and the other half after twelve (12) months have passed and the Engineer has certified that all Defects notified by the Engineer to the Contractor have been corrected before the end of this period.
- **51.3** On completion of the whole Works and Services, the Contractor may substitute retention money with an "on demand" Bank guarantee.
- **51.4** Reduction of monthly payments for Maintenance Services due to noncompliance with the Service Levels will be made as indicated in Sub-Clause 47.1. The amount of Reduction for the days in which the Road was not complying with the Performance Standard's will not be paid or repaid, even after the Contractor reestablishes the quality levels to the standard's required by the contract.

52 Taxes and Duties

- **52.1** Issuance of Securities
- 52.2 The Contractor shall provide the securities specified below in favour of the Procuring Entity at the times, and in the amount, manner and form specified below.

53 Advance Payment Security

- **53.1** The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a security in an amount equal to the advance payment calculated in accordance with the corresponding **PC** to the Contract Agreement, and in the same currency or currencies.
- **53.2** The security shall be in the form provided in the tendering document or in another form acceptable to the Procuring Entity. The amount of the security shall be reduced in proportion to the value of the Works and Services executed by and paid to the Contractor from time to time, and shall automatically become null and void when the full amount of the advance payment has been recovered by the Procuring Entity. The security shall be returned to the Contractor immediately after its expiration.

54 **Performance Security**

- **54.1** The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a security for the due performance of the Contract in the amount specified in the **PC**.
- **54.2** The security shall be denominated in the currency or currencies of the Contract, or in a freely convertible currency acceptable to the Procuring Entity, and shall be in one of the forms of guarantees provided in the tendering document, as stipulated by the Procuring Entity in the **PC**, or in another form acceptable to the Procuring Entity.
- **54.3** The security shall automatically become null and void, twelve (12) months after Completion of all Works and Services under the Contract, provided however, that if the Defects Liability Period has been extended on any part of the Works pursuant to Sub-Clause 41.8 hereof, the Contractor shall issue an additional security in

an amount proportionate to the Contract Price of that part. The security shall be returned to the Contractor immediately after its expiration.

55 Certificate of Completion

The Contractor shall request the Engineer to issue a Certificate of Completion of the Rehabilitation Works, Improvement Works and Emergency Works, or parts thereof, as applicable, and the Engineer will do so upon deciding that the work is completed.

56 Final Statement

56.1 The Contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within fifty-six (56) days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within fifty-six (56) days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate.

Discharge

56.2 Upon submission of the Final Statement, the Contractor shall give to the Engineer, a written discharge confirming that the total of the Final Statement represents full and final settlement of all monies due to the Contractor arising out of or in respect of the Contract. Provided that such discharge shall become effective only after payment due under the Final Payment Certificate issued pursuant to Sub-Clause 55 has been made and the performance security referred to in Sub-Clause 53.3, if any, has been returned to the Contractor.

57 As Built Drawings and Manuals

- **57.1** If "as built" Drawings and/or manuals are required; the Contractor shall supply them by the dates stated in the **PC**.
- **57.2** If the Contractor does not supply the Drawings and/or manuals by the dates stated in the **PC**, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the **PC** from payments due to the Contractor.

G. REMEDIES

58 Suspension

- **58.1** The Procuring Entity may request the Engineer, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons therefore. The Contractor shall thereupon suspend performance of such obligation (except those obligations necessary for the care or preservation of the Site and Works) until ordered in writing to resume such performance by the Engineer.
- **58.2** If, by virtue of a suspension order given by the Engineer, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than ninety (90) days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to the Engineer requiring that the Procuring Entity shall, within twenty-eight (28) days of receipt of the notice, order the resumption of such performance or request and subsequently order a change in accordance with Sub-Clause 63.1, excluding the performance of the suspended obligations from the Contract.

58.3 If the Procuring Entity fails to do so within such period, the Contractor may, by a further notice to the Engineer, elect to treat the suspension as termination of the Contract under Sub-Clause 59.1.

If

- a) The Procuring Entity has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to the Contract, or commits a substantial breach of the Contract, the Contractor may give a notice to the Procuring Entity that requires payment of such sum, with interest thereon as stipulated in Sub-Clause 50.1, requires approval of such invoice or supporting documents, or specifies the breach and requires the Procuring Entity to remedy the same, as the case may be. If the Procuring Entity fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, or fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Contractor's notice; or
- b) The Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Procuring Entity, including but not limited to the Procuring Entity's failure to provide possession for access to the Site, or failure to obtain any governmental permit under the Procuring Entity's responsibility and necessary for the execution and/or completion of the Works and Services, then the Contractor may by fourteen (14) days' notice to the Procuring Entity suspend performance of all or any of its obligations under the Contract, or reduce the rate of progress.
- **58.4** If the Contractor's performance of its obligations is suspended or the rate of progress is reduced pursuant to this Clause 58, then the Time for Completion shall be extended in accordance with Sub-Clause 64, and any and all additional costs or expenses incurred by the Contractor as a result of such suspension or reduction shall be paid by the Procuring Entity to the Contractor in addition to the Contract Price, except in the case of suspension order or reduction in the rate of progress by reason of the Contractor's default or breach of the Contract.
- **58.5** During the period of suspension, the Contractor shall not remove from the Site any Plant and Equipment or any Contractor's Equipment, without the prior written consent of the Procuring Entity.

59 Termination

 $\mathbf{59.1}$ Termination for Procuring Entity's Convenience

The Procuring Entity may at any time terminate the Contract for any reason by giving the Contractor a notice of termination that refers to this Sub-Clause 58.1.

- **59.2** Upon receipt of the notice of termination under Sub-Clause 58.1. the Contractor shall either immediately or upon the date specified in the notice of termination.
 - **a** cease all further work, except for such work as the Procuring Entity may specify in the notice of termination for the sole purpose of protecting that part of the Works and Services already executed, or any work required to leave the Site in a clean and safe condition,
 - **b** terminate all subcontracts, except those to be assigned to the Procuring Entity pursuant to paragraph (d) below,
 - c remove all Contractor's Equipment from the Site, repatriate the Contractor's and its Subcontractors' personnel from the Site, remove from the Site any wreckage, rubbish and debris of any kind, and leave the whole of the Site in a clean and safe condition
 - d In addition, the Contractor, subject to the payment specified in Sub-Clause 58.3, shall
 - i) deliver to the Procuring Entity the parts of the Works executed by the Contractor up to the date of termination,
 - to the extent legally possible, assign to the Procuring Entity all right, title and benefit of the Contractor to the Works and Services and to the Plant and Equipment as of the date of termination, and, as may be required by the Procuring Entity, in any subcontracts concluded between the

- Contractor and its Subcontractors
- **iii)** deliver to the Procuring Entity all non-proprietary drawings, specifications and other documents prepared by the Contractor or its Subcontractors as at the date of termination in connection with the Works.
- **59.3** In the event of termination of the Contract under Sub-Clause 59.1, the Procuring Entity shall pay to the Contractor the following amounts:
 - **a.** The Contract Price, properly attributable to the parts of the works and services executed by the Contractor as of the date of termination,
 - **b.** the costs reasonably incurred by the Contractor in the removal of the Contractor's Equipment from the Site and in the repatriation of the Contractor's and its Subcontractors' personnel,
 - **C.** any amounts to be paid by the Contractor to its Subcontractors in connection with the termination of any subcontracts, including any cancellation charges,
 - **d.** the costs incurred by the Contractor in protecting and leaving the Site in a clean and safe condition pursuant to paragraph (a) of Sub-Clause 59. 2,
 - **e.** the cost of satisfying all other obligations, commitments and claims that the Contractor may in good faith have undertaken with third parties in connection with the Contract and that are not covered by paragraphs through (d) above.

60 Termination for Contractor's Default

- **60.1** The Procuring Entity, without prejudice to any other rights or remedies it may possess, may terminate the Contract forth within the following circumstances by giving a notice of termination and its reasons there for to the Contractor, referring to this Sub-Clause 59.2:
 - **a** If the Contractor becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, if the Contractor is a corporation, are solution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Contractor takes or suffers any other analogous action in consequence of debt;
 - **b** if the Contractor assigns or transfers the Contract or any right or interest therein in violation of the provision of Clause13;
 - **C** if the Contractor, in the judgment of the Procuring Entity has engaged in Fraud and Corruption, as defined in paragraph 2.2a of the Appendix A to the GC, in competing for or in executing the Contract

If the Contractor

- **a** Has abandoned or repudiated the Contract
- b has without valid reason failed to commence work on the Road promptly or has suspended (other than pursuant to Sub-Clause 58.2) the progress of Contract performance for more than twenty-eight (28) days after receiving a written instruction from the Procuring Entity to proceed,
- **C** persistently fails to execute the Contract in accordance with the Contract, such failure being defined in the **PC**, or persistently neglects otherwise to carry out its obligations under the Contract without just cause,
- d refuses or is unable to provide sufficient materials, services or labor to execute and complete the Works and Services in the manner specified in the program furnished under Clause 17atratesofprogressthat give reasonable assurance to the Procuring Entity that the Contractor can attain completion of the works and services by the Time for Completion as extended, then the Procuring Entity may, without prejudice to any other rights it may possess under the Contract, give a notice to the Contractor stating the nature of the default and requiring the Contractor to remedy the same. If the Contractor fails to remedy or to take steps

to remedy the same within fourteen (14) days of its receipt of such notice, then the Procuring Entity may terminate the Contract forth with by giving a notice of termination to the Contractor that refers to this Sub-Clause 59.2.

- **60.2** Upon receipt of the notice of termination under Sub-Clauses 59.2.1 or 59.2.2, the Contractor shall, either immediately or upon such date as is specified in the notice of termination,
 - **a** cease all further work, except for such work as the Procuring Entity may specify in the notice of termination for the sole purpose of protecting that part of the Works and Services already executed, or any work required to leave the Site in a clean and safe condition
 - **b** terminate all subcontracts, except those to be assigned to the Procuring Entity based on the Procuring Entity's written request
 - **C** deliver to the Procuring Entity all drawings, specifications and other documents prepared by the Contractor or its Subcontractors as of the date of termination in connection with the Works and Services.
- **60.3** The Contractor shall be entitled to be paid the Contract Price attributable to the Works and Services executed as of the date of termination, and the costs, if any, incurred in protecting and in leaving the Site in a clean and safe condition pursuant to paragraph (a) of Sub-Clause 59.2.3. Any sums due the Procuring Entity from the Contractor accruing prior to the date of termination shall be deducted from the amount to be paid to the Contractor under this Contract.

61 Termination by Contractor

61.1 If

- The Procuring Entity has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to Clause 50, or commits a substantial breach of the Contract, the Contractor may give a notice to the Procuring Entity that requires payment of such sum, with interest there on as stipulated in Sub-Clause50.2, requires approval of such invoice or supporting documents, or specifies the breach and requires the Procuring Entity to remedy the same, as the case may be. If the Procuring Entity fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Contractor's notice, or
- The Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Procuring Entity, including but not limited to the Procuring Entity's failure to provide possession of or access to the Site or other areas or failure to obtain any governmental permit under the Procuring Entity's responsibility and necessary for the execution and/or completion of the Works and Services, then the Contractor may give a notice to the Procuring Entity thereof, and if the Procuring Entity has failed to pay the outstanding sum, to approve the invoice or supporting documents, to give its reasons for withholding such approval, or to remedy the breach within twenty-eight (28) days of such notice, or if the Contractor is still unable to carry out any of its obligations under the Contract for any reason attributable to the Procuring Entity within twenty-eight (28) days of the said notice, the Contractor may by a further notice to the Procuring Entity referring to this Sub-Clause 59.3.1, forth with terminate the Contract.
- **61.2** The Contractor may terminate the Contract forth with by giving a notice to the Procuring Entity to that effect, referring to this Sub-Clause 59.3.2, if the Procuring Entity becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, being a corporation, if are solution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Procuring Entity takes or suffers any other analogous action in consequence of debt.
- 61.3 If the Contract is terminated under Sub-Clauses 59.3.1or 59.3.2, then the Contractor shall immediately

- **a** Cease all further work, except for such work as may be necessary for the purpose of protecting that part of the Road already executed, or any work required to leave the Site in a clean and safe condition,
- **b** Terminate all subcontracts, except those to be assigned to the Procuring Entity pursuant to paragraph (d) (ii),
- **C** Remove all Contractor's Equipment from the Site and repatriate the Contractor's and its Subcontractors' personnel from the Site.
- $\mathbf{61.4}$ In addition, the Contractor, subject to the payment specified in Sub-Clause 59.3.4, shall
 - i) deliver to the Procuring Entity the parts of the Road executed by the Contractor up to the date of termination,
 - **ii)** to the extent legally possible, assign to the Procuring Entity all right, title and benefit of the Contractor to the Road and to the Plant and Equipment as of the date of termination, and, as maybe required by the Procuring Entity, in any subcontracts concluded between the Contractor and its Subcontractors,
 - **iii)** deliver to the Procuring Entity all drawings, specifications and other documents prepared by the Contractor or its Subcontractors as of the date of termination in connection with the Works and Services.
- **61.5** If the Contract is terminated under Sub-Clauses 59.3.1 or 59.3.2, the Procuring Entity shall pay to the Contractor all payments specified in Sub-Clause 59.1.3, and reasonable compensation for all loss, except for loss of profit, or damage sustained by the Contractor arising out of, in connection with or in consequence of such termination.
- **61.6** Termination by the Contractor pursuant to Sub-Clause 59.3 is without prejudice to any other rights or remedies of the Contractor that may be exercised in lieu of or in addition to rights conferred by Sub-Clause 59.3.
- **61.7** In Clause 59, in calculating any monies due from the Procuring Entity to the Contractor, account shall be taken of any sum previously paid by the Procuring Entity to the Contractor under the Contract, including any advance payment paid pursuant to the Contract.

H. PROVISIONAL SUM

62 Provisional Sum

"Provisional Sum" means a sum included in the Contract for use when authorized by the Procuring Entity for Emergency Works and for contingencies, which sum may be used, in whole or in part, or not at all, on the instructions of the Procuring Entity. The Contractor shall be entitled to only such amounts in respect of the work, supply or contingencies to which such Provisional Sums relate as the Engineer shall determine in accordance with this Clause.

63 Use of Provisional Sum for Emergency Works

- **63.1** After detecting a situation which in the opinion of the Contractor justifies the execution of Emergency Works or otherwise as defined in Clause 29, the Contractor shall submit a Technical Report to the Engineer characterizing the situation, and state estimated works quantities to correct the emergency situation, and a Lump Sum price quotation for the Emergency Works to be carried out. The price quotation should be based on the Specifications stated in Section VII using the unit prices included in the Bill of Quantities.
- **63.2** If the execution of the Emergency Works requires any activity not priced in the Bill of Quantities, the Contractor will use the price breakdowns included in the Contractor's Tender in order to form the unit prices of the unpriced items to be included in the Price Quotation of the Emergency Works, all in accordance with agreed methodology for approving new prices.

63.3 Upon receiving the request for Emergency Works including a Price Quotation, the Engineer may issue a Work Order in accordance with Sub-Clause 29.2 for execution of the Emergency Works for a Lump-Sum amount with a payment Schedule agreed with the Contractor. The cost of these Works will be covered by the amounts included in the Provisional Sum.

64 Use of Provisional Sum for Contingencies

The use of the Provisional Sum to cover for Contingencies will be done under the control and initiative of the Engineer in accordance with the conditions of the Contract.

I. CHANGE IN CONTRACT ELEMENTS

- 65 Change in Assignments to Contractor
- 65.1 Introducing a Change
- **65.1** If so indicated in the **PC**, the Procuring Entity shall have the right to propose, and subsequently require, that the Engineer order the Contractor from time to time during the performance of the Contract to make any change, modification, addition or deletion to, in or from the Assignments to the Contractor (herein after called "Change"), provided that such Change falls within the general scope of the Assignment and does not constitute, taking into account both the state of advancement of the Works and Services and the technical compatibility of the Change envisaged with the nature of the Works and Services as specified in the Contract.
- **65.2** If so indicated in the **PC**, the Contractor may from time to time during its performance of the Contract propose to the Procuring Entity (with a copy to the Engineer) any Change that the Contractor considers necessary or desirable to improve the quality, efficiency or safety of the Works and Services. The Procuring Entity may at its discretion approve or reject any Change proposed by the Contractor.
- **65.3** Notwithstanding Sub-Clauses 63.1.1 and 63.1.2, no change made necessary because of any default of the Contractor in the performance of its obligations under the Contract shall be deemed to be a Change, and such change shall not result in any adjustment of the Contract Price or the Time for Completion.
- **65.4** The procedure on how to proceed with and execute Changes is specified in Sub-Clauses 63.2 and 63.3, further details and sample forms are provided in the Sample Forms and Procedures section in the tendering documents.

67 Changes Originating from Procuring Entity

- 67.1 If the Procuring Entity proposes a Change pursuant to Sub-Clause 63.1.1, it shall send to the Contractor a "Request for Change Proposal," requiring the Contractor to prepare and furnish to the Engineer, as soon as reasonably practicable, a "Change Proposal," which shall include the following:
 - a) Brief description of the Change
 - **b)** Effect on the Time for Completion
 - c) Estimated cost of the Change
 - **d)** Effect on Functional Guarantees (if any)
 - e) Effect on any other provisions of the Contract
- **67.1** Prior to preparing and submitting the "Change Proposal," the Contractor shall submit to the Engineer an "Estimate for Change Proposal," which shall be an estimate of the cost of preparing and submitting the Change Proposal.

Upon receipt of the Contractor's Estimate for Change Proposal, the Procuring Entity shall do one of the following:

f) Accept the Contractor's estimate with instructions to the Contractor to proceed with the preparation of

- the Change Proposal,
- **g)** Advise the Contractor of any part of its Estimate for Change Proposal that is unacceptable and request the Contractor to review its estimate,
- **h)** advise the Contractor that the Procuring Entity does not intend to proceed with the Change.
- 67.3 Upon receipt of the Procuring Entity's instruction to proceed under Sub-Clause 63.2.2 (a), the Contractor shall, with proper expedition, proceed with the preparation of the Change Proposal, in accordance with Sub-Clause 63.2.1.
- **67.2** The pricing of any Change shall, as far as practicable, be calculated in accordance with the rates and prices included in the Contract. If such rates and prices are inequitable, the parties thereto shall agree on specific rates for the valuation of the Change.
- 67.3 If before or during the preparation of the Change Proposal it becomes apparent that the aggregate effect of compliance there with, and with all other Change Orders that have already become binding upon the Contractor under this Clause 63, would be to increase or decrease the Contract Price as originally set forth in the Contract Agreement by more than fifteen percent (15%), the Contractor may give a written notice of objection thereto prior to furnishing the Change Proposal as aforesaid. If the Procuring Entity accepts the Contractor's objection, the Procuring Entity shall withdraw the proposed Change and shall notify the Contractor in writing thereof. The Contractor's failure to so object shall neither affect its right to object to any subsequent requested Changes or Change Orders herein, nor affect its right to consider, when making such subsequent objection, the percentage increase or decrease in the Contract Price that any Change not objected to by the Contractor represents.
- **67.4** Upon receipt of the Change Proposal, the Procuring Entity and the Contractor shall mutually agree upon all matters therein contained. Within fourteen (14) days after such agreement, the Procuring Entity shall, if it intends to proceed with the Change, issue the Contractor with a Change Order. If the Procuring Entity is unable to reach a decision within fourteen (14) days, it shall notify the Contractor with details of when the Contractor can expect a decision. If the Procuring Entity decides not to proceed with the Change for whatever reason, it shall, within the said period of fourteen (14) days, notify the Contractor accordingly. Under such circumstances, the Contractor shall be entitled to reimbursement of all costs reasonably incurred by it in the preparation of the Change Proposal, provided that these do not exceed the amount given by the Contractor in its Estimate for Change Proposal submitted in accordance with Sub-Clause 63.2.2.
- **67.5** If the Procuring Entity and the Contractor cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Completion, or any other matters identified in the Change Proposal, the Procuring Entity may nevertheless instruct the Contractor to proceed with the Change by issue of a "Pending Agreement Change Order."

Upon receipt of a Pending Agreement Change Order, the Contractor shall immediately proceed with effecting the Changes covered by such Order. The parties shall thereafter attempt to reach agreement on the outstanding issues under the Change Proposal.

If the parties cannot reach agreement within sixty (60) days from the date of issue of the Pending Agreement Change Order, then the matter may be referred to the Adjudicator in accordance with the provisions of Sub-Clause 6.1.

Changes Originating from Contractor

- **68.1** If the Contractor proposes a Change pursuant to Sub-Clause 63.1.2, the Contractor shall submit to the Engineer a written "Application for Change Proposal," giving reasons for the proposed Change and including the information specified in Sub-Clause 63.2.1.
- **68.2** Upon receipt of the Application for Change Proposal, the parties shall follow the procedures outlined in Sub-Clauses 63.2.6 and 63.2.7. However, should the Procuring Entity choose not to proceed, the Contractor shall not be entitled to recover the costs of preparing the Application for Change Proposal.

69 Value Engineering

- **69.1** The Contractor may prepare, at its own cost, a value engineering proposal at any time during the performance of the contract. The value engineering proposal shall, at a minimum, include the following;
 - **a** The proposed change(s), and a description of the difference to the existing contract requirements;
 - **b** a full cost/benefit analysis of the proposed change(s) including a description and estimate of costs (including life cycle costs) the Procuring Entity may incur in implementing the value engineering proposal; and
 - **C** a description of any effect(s) of the change on performance/functionality.
- **69.2** The Procuring Entity may accept the value engineering proposal if the proposal demonstrates benefits that:
 - **a** Accelerates the delivery period; or
 - **b** Reduces the Contract Price or the lifecycle costs to the Procuring Entity; or
 - C Improves the quality, efficiency, safety or sustainability of the Road; or
 - **d** yields any other benefits to the Procuring Entity, without compromising the necessary functions of the Road and Services.
- **69.3** If the value engineering proposal is approved by the Procuring Entity and results in:
 - **a** A reduction of the Contract Price; the amount to be paid to the Contractor shall be the percentage specified in the **PC** of the reduction in the Contract Price; or
 - An increase in the Contract Price; but results in a reduction in lifecycle costs due to any benefit described in (a) to (d) above, the amount to be paid to the Contractor shall be the full increase in the Contract Price.

70 Extension Time for Completion

- **70.1** The Time(s) for Completion specified in the **PC** shall be extended if the Contract or is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:
 - a) Any Change in the Works and Services as providedinClause63,
 - **b)** any occurrence of Force Majeure as provided in Clause 38 and unforeseen conditions as provided in Clause 36,
 - c) any suspension order given by the Procuring Entity under Clause 58,
 - d) any changes in laws and regulations as provided in Clause 37, or
 - e) any default or breach of the Contract by the Procuring Entity, or any activity, act or omission of any other contractors employed by the Procuring Entity, or
 - f) any other matter specifically mentioned in the Contract by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Contractor.
- **70.2** Except where otherwise specifically provided in the Contract, the Contractor shall submit to the Engineer a notice of a claim for an extension of the Time for Completion, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Procuring Entity and the Contractor shall agree upon the period of such extension. In the event that the Contractor does not accept the Procuring Entity's estimate of a fair and reasonable time extension, the Contractor shall be entitled to refer the matter to an Adjudicator, pursuant to Sub-Clause 6.1.

70.3 The Contractor shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract.

72 Release from Performance

72.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Procuring Entity or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterward to which a commitment was made.

73 Fraud and Corruption

- **73.1** The Procuring Entity requires compliance with the national Anti-Corruption Laws and Regulations and its prevailing sanctions policies and procedures.
- **73.2** The Procuring Entity requires the Contract or to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Tendering process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

SECTION IX - SPECIAL CONDITIONS OF CONTRACT

The following Particular Conditions shall supplement the GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

shall prevail over those in the GC Conditions	GCC Clause	Data
Procuring Entity's name and	1.1.2.2	KENYA WILDLIFE SERVICE,
address		P.O.BOX 40241 – 00100,
		NAIROBI.
		www.kws.go.ke
Time for Completion	8.2	Improvement Works -3 Months
		PBC works - 12months
Engineer's name and address	1	Head of Roads & Fleet Management -,
		Kenya Wildlife Service, P.O. Box 40241 - 00100
		NAIROBI
Electronic transmission	1.3	If so allowed the systems of electronic transmission shall
		be _Not Allowed
Time for the Parties entering	1.6	35 days after receipt of Letter of Acceptance
into a Contract Agreement		
Right of access to the Site	2.1	14 days after the order to Commence
Engineer's Authority to make variations	3.1.	At the end of paragraph 5 (c) of sub clause 3.1 insert paragraph 5(d) and sub clauses 3.1.2 and 3.1.3
variauons		paragraph 5(u) and sub clauses 5.1.2 and 5.1.5
	3.1.2 (b) (ii)	Variation would increase the Accepted Contract Amount
		by not exceeding 25% of the contract Price. Not
		applicable
		Variations resulting in an increase of the Accepted
		Contract Amount in excess of <u>25</u> % shall require approval
	4.2.2	of the Procuring Entity. Not Applicable
Performance Security	4.2.2	The Performance Security shall be in the amount of 10 % per cent of Contract Price and denominated in Kenya
		Shillings
		The performance security will be in the form of a
		"Demand Bank Guarantee"
Contractor's Representative's	4.3	
name		
		[insert the name of the Contractor's Representative
		agreed by Kenya Wildlife Service prior to Contract signature]
Working Hours	6.5	Normal working hours shall be 8:00 a.m. to 5:00p.m. on
TOTALLE LIVELS	0.0	weekdays, including lunch break from 1.00 p.m. to 2.00
		p.m. and 8:00 a.m. to 1:00 pm on Saturdays, with Sundays
		and National Holidays being set aside as days of rest.
Key Personnel names	6.9	
		[insert the name of each Key Personnel agreed by Kenya
Commoncoment of Missils	0.1	Wildlife Service prior to Contract signature]
Commencement of Works	8.1	At the end of paragraph 1of subclause 8.1 insert sub clause 8.1.1 and 8.1.2
		The commencement of works shall be within 14days after
		order to commence.
		8.1.1 (c)
		Modifications shall be NONE
Delay Damages	8.7.1	0.05 % of the contract price per day
zeraj zamageo	J./ .1	0.00 /0 of the contract price per day

Conditions	GCC Clause	Data
Maximum amount of delay damages	8.7.1	To a limit of 10% of contract sum.
Defects Notification Period	11.1	Within 30 days calculated from the date stated in the
		notice under sub clause 8.2.
Adjustments for Changes in	13.8.3	Not Applicable
Cost		
Delay damages for the Works	8.7 & 14.15(b)	Payments for Delay Damages in the currency other than local currency is not applicable.
Provisional Sums	13.5. (b)(iii)	"NONE"
Total advance payment	14.2.1	Not Applicable
Repayment amortization rate	14.2.4(b)	Not Applicable
of advance payment		
Limit of Retention	14.3.2(c)	5%
Percentage of Retention	14.3.2(c)	5%
Plant and Materials		If Sub-Clause 14.5 applies:
	14.5.2(b)(i)	Plant and Materials for payment Free on Board]. Not Applicable
	14.5.2(c)(i)	Plant and Materials for payment when delivered to the Site ,10% of contract price Not Applicable
Minimum Amount of Interim	14.6.1	10% of the Accepted Contract Amount.
Payment Certificates		
Publishing source of	14.8	Three percentage points above the discount rate given by
commercial interest rates for		the Central bank of Kenya. Not Applicable
financial charges in case of		
delayed payment		
Maximum total liability of the	17.6.2	The product of 0.1 times the Accepted Contract Amount
Contractor to Kenya Wildlife		
Service Periods for submission of	10 1 6	Submitted by the 14th day from the date of a read later
	18.1.6	Submitted by the 14 th day from the date of award letter
insurance: a. evidence of insurance.		14 days
b. relevant policies		14 days 14 days
Maximum number of	18.2.4(d)	Not Applicable
deductibles for insurance of the	10.2.4(u)	Not rapplicable
Procuring Entity's risks		
Minimum amount of third-	18.3.2	1% of the Contract Sum
party insurance	13.3.2	170 of the Contract out
The place of arbitration	20.7.2	The place of arbitration shall be Kenya Wildlife Service Headquarters, along Lang'ata Rd

SECTION X - CONTRACT FORMS

Table of Forms

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FORM NO. 9 BENEFICIAL OWNERSHIP DISCLOSURE FORM

FORM No. 1 - NOTICATION OF INTENTION TO AWARD

FORMAT

For the attention of Tenderer's Authorized Representative						
Name:						
Address: [insert Authorized Representative's Address						
Telephones: [insert Authorized Representative's telephones]	•					
Email Address: [insert Authorized Representative's en	nail address]					
Date of Transmission : This Notification is sent by: [6]	mail] on [date] (local time)					
Kenya Wildlife Service						
Contracttitle: [insert the name of the contract]						
Kenya						
This Notification of Intention to Award (Notification transmission of this Notification begins the Standstill						
a) Request a debriefing in relation the evaluation of your Tender, and/or						
b) Submit a Procurement-related Complaint in relation to the decision to award the contract.						
1. The successful Tenderer						
Name: [insert name of successful Tenderer]. Address: [insert address of the successful Tenderer] Contract						
price: [insert contract price of the successful Tender]						
2 Other Tenderers: insert names of all Tenderers include the evaluated price as well as the Tender p		ler's price was evaluated				
Name of Tenderer Tender pri	ce Evaluated Tender price	Comments (if any)				
1						
2						

	Name of Tenderer	Tender price	Evaluated Tender price	Comments (if any)
1				
2				
3				
4				
5				
6				
7				
Etc				

1. How to request a debriefing

DEADLINE: The deadline to request a debriefing expires at midnight on [insert date] (local time).

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 (3) Business Days of receipt of this Notification of Intention to Award. Provide the contract name, reference number, name of the Tenderer, contact details; and address the request for debriefing as follows:

Attention: [insert full name of person, if applicable] **Title/position**: [insert title/position] **Procuring Entity**:

[insert name of Procuring Entity] **Email address**: [insert email address]

If your request for a debriefing is received within the 3 Business Days deadline, we will provide the debriefing within five (5) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (5) Business 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 will end. The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of the Contract Award Notice.

How to make a complaint

Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [*insert date*] (local time).

Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement-related Complaint as follows:

Attention: [insert full name of person, if applicable]
Title/position: [insert title/position] Procuring
Entity: [insert name of Procuring Entity] Email

address: [insert email address]

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.

In summary, there are four essential requirements:

- a) 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.
- b) The complaint can only challenge the decision to award the contract.
- c) You must submit the complaint within the period stated above.
- d) You must include, in your complaint, all of the information necessary to support your case.
- e) The application must be accompanied by the fees set out in the Procurement Regulations, which shall not be refundable (information available from the Public Procurement Authority at www.ppoa.go.ke.

Standstill Period

- **DEADLINE:** The Standstill Period is due to end at midnight on [*insert date*] (local time).

 i) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.
- The Standstill Period may be extended as stated in Section 4 above. (i)

If you have any questions regarding this Notification please do not hesitate to co
us. On behalf of the Procuring Entity:
Name
Title and Position
Signature
Date

FORM NO. 2 - REQUEST FOR REVIEW

FORM FOR REVIEW (r.203 (1))

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD
APPLICATION NOOF20
BETWEEN
APPLICANT
AND
Request for review of the decision of the
REQUEST FOR REVIEW
I/Wep. O. Box No
1.
2.
By this memorandum, the Applicant requests the Board for an order/orders that:
1.
2.
SIGNED(Applicant) Dated onday of/20
FOR OFFICIAL USE ONLY Lodged with the Secretary Public Procurement Administrative Review Board onday o
SIGNED

Board Secretary

FORM NO. 3 - LETTER OF AWARD

[Form head paper of the Procuring Entity]
[Date]
To:[Name and address of the Contractor]
This is to notify you that your Tender dated
You are requested to furnish the Performance Security within 28 days in accordance with the Conditions of Contract, using for that purpose one of the Performance Security included in Section VIII, Annex to the Special Conditions of Contract-Contract Forms, of the tendering document.
Authorized Signature:
Name and Title of Signatory:
Name of Agency:
Attachment: Contract Agreement

FORM NO. 4 – CONTRACT AGREEMENT

TH	IS A	GREEMENT made the		day of			, between	
		GREEMENT made the, of the one part, and	of		(he	ereinafter '	"the Procur	ing
Co	ntract	, of the one part, and tor"), of the other part:		01	(1	ierein	arter	"the
exe	ecuted	EAS the Procuring Entity desired by the Contractor, and has acound the remedying of any defec	ccepted a Te	ender by the Cont	tractor for the execu	tion and c	ompletion	ould be of these
1.		this Agreement words and exp Contract documents referred t		ll have the same	meanings as are resp	pectively a	ssigned to	them in
2		e following documents shall be reement shall prevail over all c			ad and construed as	part of thi	s Agreeme	nt. This
	a)	The Letter of Acceptance						
	b)	The Letter of Tender						
	c)	The addenda Nos		(if any)				
	d)	The Particular Conditions		(
	e)	The General Conditions;						
	f)	The Specification						
	g)	The Drawings; and						
	h)	The completed Schedules ar	nd any other	documents form	ing part of the contr	act.		
3.	Ag	consideration of the payments reement, the Contractor hereb ects therein in conformity in al	y covenants	s with the Procur	ring Entity to execu			
4.	of	e Procuring Entity hereby cove the Works and the remedying vable under the provisions of th	g of defects	therein, the Co	ntract Price or such	other sur	n as may	
		WITNESS whereof the partie ys of Kenya on the day, month			greement to be exec	cuted in ac	ccordance v	with the
	Sig	nedby						
				(1	For the Procuring Er	ntity)		
	Sig	nedby						
					_(For the Contractor	r)		

FORM NO. 5 - PERFORMANCE SECURITY - OPTION 1: DEMAND GUARANTEE

- (Unconditional Demand Bank Guarantee)

[G]	uarantor letterhead or SWIFT identifier code]
Ben	eficiary:
KEN	IYA WILDLIFE SERVICE,
P.O.	BOX 40241 – 00100
NAI	ROBI
hps@	©kws.go.ke [insert name and Address of Procuring Entity]
Da	te:[Insert date of issue]
	RFORMANCE GUARANTEE No.:
Gu	arantor: [Insert name and address of place of issue, unless indicated in the letterhead]
1.	We have been informed that(herein after called "the Applicant") has entered into Contract Nodated with the Beneficiary, for the execution of
	(herein after called "the Contract").
3.	Further more, we understand that, according to the conditions of the Contract, a performance guarantee is required. At the request of the Applicant, we as Guarantor, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of(),¹ 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 itself 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
5.	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]

is

FORM No. 6 - PERFORMANCE SECURITY OPTION 2- (Performance Bond)

[Note: Procuring Entities are advised to use Performance Security—Unconditional Demand Bank Guarantee instead of Performance Bond due to difficulties involved in calling Bond holder to action]

[Guarantor letterhead or SWIFT identifier code]	
Beneficiary:	_[insert name and Address of Procuring
Entity] Date:	_[Insert date of issue] PERFORMANCE
BOND No.:	
Guarantor: [Insert name and address of place o	f issue, unless indicated in the letter head]
1. By this Bond	as Principal (herein after called "the Contractor")
and	
Surety"), are held and firmly bound unto	
Entity") in the amount of,f	for the payment of which sum well and truly to be made in the types
and proportions of currencies in which the Contr	act Price is payable, the Contractor and the Surety bind themselves,
their heirs, executors, administrators, successors	and assigns, jointly and severally, firmly by these presents.
WHEREAS the Contractor has entered into a wri	tten Agreement with the Procuring Entity dated the
day of .20 .f	orin accordance with the documents, plans,
specifications, and amendments there to, which t	to the extent here in provided for, are by reference made part hereof
and are hereinafter referred to as the Contract.	r

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 thereunder, the Surety may promptly remedy the default, or shall promptly:

- 1) Complete the Contract in accordance with its terms and conditions; or
- 2) 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 Tenderer, arrange for a Contract between such Tenderer and Procuring Entity and make available as work progresses (even though there should be a default or a succession of defaults under the Contractor 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 pay the Procuring Entity the amount required by Procuring Entity to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond. 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 herein or the heirs, executors, administrators, successors, and assigns of the Procuring Entity.

In testimony whereof, the Contractor has hereunto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this day of 20.

SIGNED ON	on behalf of
by	in the capacity of In
the presence of	
SIGNED ON	on behalf of
Ву	in the capacity of
In the presence of	

FORM NO. 7 - ADVANCE PAYMENT SECURITY- DEMAND GUARANTEE

[Demand Bank Guarantee] [Guarantor letterhead or SWIFT identifier
code] [Guarantor letterhead o rSWIFT identifier code]
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]
We have been informed that(herein after called "the Applicant") has entered into Contract Ndated with the Beneficiary, for the execution of(herein after called" the Contract").
Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum () is to be made against an advance payment guarantee.
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 in a separate signed document accompanying or identifying the demand, stating either that the Applicant:
Has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or Has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.
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 Applicant on its account number_at
The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant 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, or on the
Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.
The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed <i>[six months] [one year]</i> in

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. 8 - RETENTION MONEY SECURITY

[Demand Bank Guarantee]

FORM NO. 9 BENEFICIAL OWNERSHIP DISCLOSURE FORM

Name of the Assignme	ent: ROUTINE MA		[insert identification no] PERFORMANCE BASED CONTI WILDLIFE SERVICE	RACT
In response to your notificational information of options that are not app	n beneficial ownershi		sert date of notification of award] to a elect one option as applicable and dele	
I) We here by provide	the following benefic	cial ownership informatio	on.	
Details of beneficial ow	nership			
Identity of Beneficial Owner	Directly or indirectly holding 25% or more of the shares (Yes / No)	Directly or indirectly holding 25 % or more of the Voting Rights (Yes / No)	Directly or indirectly having the right to appoint a majority of the board of the directors or an equivalent governing body of the Tenderer (Yes / No)	
[include full name (last, middle, first), nationality, country of residence]				
OR				
indirectly holding	25% or more of the indirectly having the	e shares. Directly or	more of the following conditions: directing indirectly holding 25% or more of the iority of the board of directors or equi	voting
OR				
			ting one or more of the following cond it is unable to identify any Beneficial O	
Directly or indirectly hold rights.	ding 25% or more of	the shares. Directly or i	indirectly holding25% or more of the vo	oting
Directly or indirectly hav of the Tenderer]"	ing the right to appoi	nt a majority of the boar	d of directors or equivalent governing t	oody
Name of the Tenderer:	*[insert c	complete name of the Ter	nderer]	
Name of the person duly duly authorized to sign th		e Tender on behalf of th	ne Tenderer: ** [insert complete name	of persor
Title of the person signing	g the Tender:	[insert complete t	title of the person signing the Tender]	
Signature of the person rabove]	named above:	[insert signature	e of person whose name and capacity a	ıre showr
Date signed	[insert date of signi	ing] day of	. [Insert month], [insert year]	