



NAIROBI CITY COUNTY GOVERNMENT

DEPARTMENT OF HOUSING AND URBAN RENEWAL

SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2)

RFB No: KE-NAIROBI COUNTY-377334-CW-RFB

**CONSTRUCTION OF ROADS/FOOTPATHS, STORM WATER
DRAINAGE SYSTEMS, PUBLIC STREET LIGHTING AND SEWER
INFRASTRUCTURE WORKS IN SELECTED INFORMAL
SETTLEMENTS OF HURUMA FIRE VICTIMS - 2, MATHARE FIRE
VICTIMS, MATOPENI, PUMWANI MAJENGO AND SPRING VALLEY
ALL WITHIN NAIROBI CITY COUNTY.**

(AUGUST, 2024)

VOLUME 1 OF 3: BIDDING DOCUMENT

VOLUME 1 OF 3

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Request for Bids Small Works

(One-Envelope Bidding Process)

Procurement of:

CONSTRUCTION OF ROADS/FOOTPATHS, STORM WATER DRAINAGE SYSTEMS, PUBLIC STREET LIGHTING AND SEWER INFRASTRUCTURE WORKS IN SELECTED INFORMAL SETTLEMENTS OF HURUMA FIRE VICTIMS - 2, MATHARE FIRE VICTIMS, MATOPENI, PUMWANI MAJENGO AND SPRING VALLEY ALL WITHIN NAIROBI CITY COUNTY.

Employer: DEPARTMENT OF HOUSING AND URBAN RENEWAL;
NAIROBI CITY COUNTY GOVERNMENT

Project: SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP 2)

Contract Title: CONSTRUCTION OF ROADS/FOOTPATHS, STORM WATER DRAINAGE SYSTEMS, PUBLIC STREET LIGHTING AND SEWER INFRASTRUCTURE WORKS IN SELECTED INFORMAL SETTLEMENTS OF HURUMA FIRE VICTIMS - 2, MATHARE FIRE VICTIMS, MATOPENI, PUMWANI MAJENGO AND SPRING VALLEY ALL WITHIN NAIROBI CITY COUNTY.

Country: REPUBLIC OF KENYA

Loan No. /Credit No. / Grant No.: 67590-KE

RFB No: KE-NAIROBI COUNTY-377334-CW-RFB

Issued on: *15th August, 2024*

Standard Procurement Document

Bidding Document: Request for Bids – Small Works (One-Envelope Bidding Process)

PART 1 – BIDDING PROCEDURES

Section I - Instructions to Bidders (ITB)

This Section provides information to help Bidders prepare their Bids. It is based on a one-envelope Bidding process. Information is also provided on the submission, opening, and evaluation of Bids and on the award of Contracts. **Section I contains provisions that are to be used without modification.**

Section II - Bid Data Sheet (BDS)

This Section includes provisions that are specific to each procurement and that supplement Section I, Instructions to Bidders.

Section III - Evaluation and Qualification Criteria

This Section specifies the criteria to determine the Most Advantageous Bid.

Section IV - Bidding Forms

This Section includes the forms for the Bid submission, Bill of Quantities or Activity Schedule to be completed by the Bidder and submitted as part of its Bid.

Section V - Eligible Countries

This Section contains information regarding eligible countries.

Section VI - Fraud and Corruption

This section includes the Fraud and Corruption provisions which apply to this Bidding process.

PART 2 – WORKS' REQUIREMENTS

Section VII - Works' Requirements

This Section contains the Specification, the Drawings, and supplementary information that describe the Works to be procured. The Works' Requirements also include the environmental and social (ES)

requirements (including requirements relating to Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH)) which are to be satisfied by the Contractor in executing the Works.

PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section VIII - General Conditions of Contract (GCC)

This Section contains the general clauses to be applied in all contracts.
The text of the clauses in this Section shall not be modified.

Section IX - Particular Conditions of Contract (PCC)

This Section consists of the Particular Conditions of Contract which contains provisions specific to each contract. The contents of this Section modify or supplement the General Conditions and shall be prepared by the Employer.

Section X - Contract Forms

This Section contains the Letter of Acceptance, Contract Agreement and other relevant forms.

Specific Procurement Notice

Request for Bids Small Works

(One-Envelope Bidding Process)

Country: REPUBLIC OF KENYA
Name of Project: SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP2)
Contract Title: CONSTRUCTION OF ROADS/FOOTPATHS, STORM WATER DRAINAGE SYSTEMS, PUBLIC STREET LIGHTING AND SEWER INFRASTRUCTURE WORKS IN SELECTED INFORMAL SETTLEMENTS OF HURUMA FIRE VICTIMS 2, MATHARE FIRE VICTIMS, MATOPENI, PUMWANI MAJENGO AND SPRING VALLEY ALL WITHIN NAIROBI CITY COUNTY.

Loan No./Credit No./ Grant No.: 6759-KE

RFB Reference No.: KE-NAIROBI COUNTY-377334-CW-RFB

The **Government of Kenya** has received financing from the World Bank and Agence Française de Développement toward the cost of the **Second Kenya Informal Settlements Improvement Project (KISIP 2)** and intends to apply part of the proceeds toward payments under the contract for **Construction of Roads/Footpaths, Storm Water Drainage Systems, Public Street Lighting And Sewer Infrastructure Works in Selected Informal Settlements of Huruma Fire Victims 2, Mathare Fire Victims, Matopeni, Pumwani/Majengo and Spring Valley all Within Nairobi City County.**

1. This contract will be jointly financed by **Agence Française de Développement (AFD)**: “For this contract, the Borrower shall process the payments using the Direct Payment disbursement method, as defined in the World Bank’s Disbursement Guidelines for Investment Project Financing.”
2. The **Nairobi City County Government** now invites sealed Bids from eligible Bidders for **Construction of Roads/Footpaths, Storm Water Drainage Systems, Public Street Lighting and Sewer Infrastructure Works in Selected Informal Settlements of Huruma Fire Victims 2, Mathare Fire Victims, Matopeni, Pumwani Majengo and Spring Valley, all Within Nairobi City County.** {12 Months Construction and 365 Days for Defects Liability Period}

The scope of works includes but not limited to the following activities to be executed within the periods as stated.

- **Construction of 0.973 km of Road & Drainage Works, 0.973 km of Footpath & Drainage Works, Streetlighting (55 poles along 0.973 km) in Huruma Fire Victims - 2 Settlement;**
 - **Construction of 0.410 km of Road & Drainage Works, 0.410 km of Footpath & Drainage Works, Streetlighting (24 poles along 0.410 km) in Mathare Fire Victims Settlement;**
 - **Construction of 1.970 km of Road & Drainage Works, 1.970 km of Footpath & Drainage Works, Streetlighting (110 poles along 1.970 km) in Matopeni Settlement;**
 - **Construction of 0.821 km of Road & Drainage Works, 0.821 km of Footpath & Drainage Works, Streetlighting (46 poles along 0.821 km) in Pumwani/Majengo Settlement;**
 - **Construction of 1.177 km of Road & Drainage Works, 1.177 km of Footpath & Drainage Works, Streetlighting (66 poles along 1.177 km) in Spring Valley Settlement;**
 - **Construction of 1005m long sewer line in Huruma Fire Victims-2 Settlement.**
3. Bidding will be conducted through **National competitive procurement** using Request for Bids (RFB) as specified in the World Bank's "Procurement Regulations for IPF Borrowers - Procurement in Investment Projects Financing" *July 2016 and revised in November 2017 and August 2018* ("Procurement Regulations"), and is open to all eligible Bidders as defined in the Procurement Regulations.
4. Interested eligible Bidders may obtain further information from office of:

**Director of Supply Chain,
Nairobi City County Government
Mama Ngina, Main City Hall, 4th Floor, Room 400.
Supply Chain Management.
P.O BOX 30075 - 00100,
Tel: 0725 624 489/ 0738 041 292,
Email: nairobiprocurement@gmail.com**

And inspect the Bidding document during office hours **8:00 AM to 5:00 PM** allowing for official lunch hour break between **1.00PM – 2.00 PM**.

5. The Bidding document in **English** shall be available electronically and may be **downloaded for free** at www.nairobi.go.ke or www.tenders.go.ke. No hard copies shall be available.

6. Bids must be delivered to the address:

**County Chief Officer
Housing & Urban Renewal
Department of Built Environment and Urban Planning.
Nairobi City County Government,
P.O Box 30075-00100,
Mama Ngina, Main City Hall, 4th Floor, Room 400
Supply Chain Management.**

On or before **[Thursday, 26th September, 2024 at 12:00 Noon E.A.T.]** Electronic Bidding will not be permitted. Late Bids will be rejected.

Bidders Bids will be opened in public in the presence of the Bidders or their designated representatives and anyone who chooses to attend at the address below:

**County Chief Officer Housing & Urban Renewal
Mama Ngina, Main City Hall, 4th Floor, Room 400
Supply Chain Management.**

Immediately after the submission deadline **[Thursday, 26th September, 2024 at 12:00 Noon E.A.T.]**

7. All Bids must be accompanied by a **Bid Security of Kenya Shillings** for: **Thirteen Million and Five Hundred Thousand and Zero Cents Only (KES. 13,500,000.00)**
8. All Bids must be accompanied by a Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Declaration.
9. Attention is drawn to the Procurement Regulations requiring the Borrower to disclose information on the successful bidder's beneficial ownership, as part of the Contract Award Notice, using the Beneficial Ownership Disclosure Form as included in the bidding document.

Standard Procurement Document

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PART 1 – Bidding Procedures

SECTION 1 – Instructions to Bidders

Section I - Instructions to Bidders

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Section I - Instructions to Bidders

A. General

1. Scope of Bid

1.1 In connection with the Specific Procurement Notice - Request for Bids (RFB), specified in the Bid Data Sheet (BDS), the Employer, as specified **in the BDS**, issues this bidding document for the provision of Works as specified in Section VII, Works' Requirements. The name, identification and number of lots (contracts) of this RFB are specified **in the BDS**.

1.2 Throughout this bidding document:

- (a) the term **"in writing"** means communicated in written form (e.g. by mail, e-mail, and fax, including if specified **in the BDS**, distributed or received through the electronic-procurement system used by the Employer) with proof of receipt;
- (b) if the context so requires, **"singular"** means **"plural"** and vice versa;
- (c) **"Day"** means calendar day, unless otherwise specified as **"Business Day"**. A Business Day is any day that is an official working day of the Borrower. It excludes the Borrower's official public holidays;
- (d) **"ES"** means environmental and social (including Sexual Exploitation, and Abuse (SEA) and Sexual Harassment (SH));
- (e) **"Sexual Exploitation and Abuse"** **"(SEA)"** means the following:
 - "Sexual Exploitation"** is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;
 - "Sexual Abuse"** is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
- (f) **"Sexual Harassment"** **"(SH)"** is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the

Contractor's Personnel with other Contractor's or Employer's Personnel;

- (g) **"Contractor's Personnel"** is as defined in Sub- Clause 1 (ii) of the General Conditions of Contract; and
- (h) **"Employer's personnel"** is as defined in GCC Sub-Clause 1 (nn) of the General Conditions of Contract.

A non-exhaustive list of (i) behaviors which constitute SEA and (ii) behaviors which constitute SH is attached to the Code of Conduct form in Section IV.

- 2. Source of Funds**
- 2.1 The Borrower or Recipient (hereinafter called "Borrower") specified **in the BDS** has received or has applied for financing (hereinafter called "funds") from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called "the Bank") in an amount specified **in the BDS**, toward the project named **in the BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this bidding document is issued.
 - 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank, and will be subject, in all respects, to the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, equipment, plant, or materials, if such payment or import is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).
- 3. Fraud and Corruption**
- 3.1 The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section VI.
 - 3.2 In further pursuance of this policy, bidders shall permit and shall cause their agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit the Bank to inspect all accounts, records and other documents relating to any initial selection process, prequalification process, bid submission, proposal

submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

4. Eligible Bidders

- 4.1 A Bidder may be a firm that is a private entity, or a state-owned enterprise or institution, subject to ITB 4.6, or any combination of them 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 Bidding process and, in the event the JV is awarded the Contract, during contract execution. Unless specified **in the BDS**, there is no limit on the number of members in a JV.
- 4.2 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this Bidding process, if the Bidder:
- (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
 - (b) receives or has received any direct or indirect subsidy from another Bidder; or
 - (c) has the same legal representative as another Bidder; or
 - (d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the Bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
 - (e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Bid; or
 - (f) or any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower as Project Manager for the Contract implementation;
 - (g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 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;

- (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding document or specifications of the contract, and/or the Bid evaluation process of such contract; or (ii) would 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 Bank throughout the procurement process and execution of the contract.

4.3 A firm that is a Bidder (either individually or as a JV member) shall not participate in more than one Bid, except for permitted alternative Bids. This includes participation as a Subcontractor in other Bids. Such participation shall result in the disqualification of all Bids in which the firm is involved. A firm that is not a Bidder or a JV member may participate as a subcontractor in more than one Bid.

4.4 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.8. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or subconsultants for any part of the Contract including related Services.

4.5 A Bidder that has been sanctioned by the Bank, pursuant to the Bank's Anti-Corruption Guidelines, in accordance with its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework as described in Section VI paragraph 2.2 d., shall be ineligible to be prequalified for, initially selected for, bid for, propose for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the BDS.

- 4.6 Bidders that are state-owned enterprises or institutions in the Employer's Country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Employer.
- 4.7 A Bidder shall not be under suspension from Bidding by the Employer as the result of the operation of a Bid-Securing or Proposal-Securing Declaration.
- 4.8 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; 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, the Borrower's country 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. When the Works are implemented across jurisdictional boundaries (and more than one country is a Borrower, and is involved in the procurement), then exclusion of a firm or individual on the basis of ITB 4.8 (a) above by any country may be applied to that procurement across other countries involved, if the Bank and the Borrowers involved in the procurement agree.
- 4.9 A Bidder shall provide such documentary evidence of eligibility satisfactory to the Employer, as the Employer shall reasonably request.
- 4.10 A firm that is under a sanction of debarment by the Borrower from being awarded a contract is eligible to participate in this procurement, unless the Bank, at the Borrower's request, is satisfied that the debarment;
- (a) relates to fraud or corruption, and
 - (b) followed a judicial or administrative proceeding that afforded the firm adequate due process.

**5. Eligible
Materials,**

- 5.1 The materials, equipment and services to be supplied under the Contract and financed by the Bank may have their origin in any country subject to the restrictions specified in Section V, Eligible Countries, and all expenditures under the Contract

Equipment and Services will not contravene such restrictions. At the Employer's request, Bidders may be required to provide evidence of the origin of materials, equipment and services.

B. Contents of Bidding Document

6. **Sections of Bidding Document** 6.1 The bidding document consists of Parts 1, 2, and 3, which include all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITB 8.

PART 1 Bidding Procedures

- Section I - Instructions to Bidders (ITB)
- Section II - Bid Data Sheet (BDS)
- Section III - Evaluation and Qualification Criteria
- Section IV - Bidding Forms
- Section V - Eligible Countries
- Section VI - Fraud and Corruption

PART 2 Works' Requirements

- Section VII - Works' Requirements

PART 3 Conditions of Contract and Contract Forms

- Section VIII - General Conditions of Contract (GCC)
- Section IX - Particular Conditions of Contract (PCC)
- Section X - Contract Forms

6.2 The Specific Procurement Notice - Request for Bids (RFB) issued by the Employer is not part of this bidding document.

6.3 Unless obtained directly from the Employer, the Employer is not responsible for the completeness of the bidding document, responses to requests for clarification, the minutes of the pre-Bid meeting (if any), or Addenda to the bidding document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Employer shall prevail.

6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding document and to

furnish with its Bid all information and documentation as is required by the bidding document.

7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting

- 7.1 A Bidder requiring any clarification of the bidding document shall contact the Employer in writing at the Employer's address specified **in the BDS** or raise its inquiries during the pre-Bid meeting if provided for in accordance with ITB 7.4. The Employer will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of Bids within a period specified **in the BDS**. The Employer shall forward copies of its response to all Bidders who have acquired the bidding document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so specified **in the BDS**, the Employer shall also promptly publish its response at the web page identified in the BDS. Should the clarification result in changes to the essential elements of the bidding document, the Employer shall amend the bidding document following the procedure under ITB 8 and ITB 22.2.
- 7.2 The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.
- 7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 7.4 If so specified **in the BDS**, the Bidder's designated representative is invited to attend a pre-Bid meeting and/or a Site of Works visit. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 7.5 The Bidder is requested, to submit any questions in writing, to reach the Employer not later than one week before the meeting.

7.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the bidding document in accordance with ITB 6.3 Any modification to the bidding document that may become necessary as a result of the pre-Bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-Bid meeting. Nonattendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

8. Amendment of Bidding Document

8.1 At any time prior to the deadline for submission of bids, the Employer may amend the bidding document by issuing addenda.

8.2 Any addendum issued shall be part of the bidding document and shall be communicated in writing to all who have obtained the bidding document from the Employer in accordance with ITB 6. The Employer shall also promptly publish the addendum on the Employer's web page in accordance with ITB 7.1.

8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2.

C. Preparation of Bids

9. Cost of Bidding

9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

10. Language of Bid

10.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Employer, shall be written in the language specified **in the BDS**. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified **in the BDS**, in which case, for purposes of interpretation of the Bid, such translation shall govern.

**11. Documents
Comprising the
Bid**

11.1 The Bid shall comprise the following:

- (a) **Letter of Bid** prepared in accordance with ITB 12;
- (b) **Bill of Quantities or Activity Schedule:** completed in accordance with ITB 12 and ITB 14, as specified **in the BDS**;
- (c) **Bid Security or Bid-Securing Declaration,** in accordance with ITB 19.1;
- (d) **Alternative Bid,** if permissible, in accordance with ITB 13;
- (e) **Authorization:** written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.3;
- (f) **Bidder's Eligibility:** documentary evidence in accordance with ITB 17 establishing the Bidder's eligibility to Bid;
- (g) **Qualifications:** documentary evidence in accordance with ITB 17 establishing the Bidder's qualifications to perform the contract if its Bid is accepted;
- (h) **Conformity:** a technical proposal in accordance with ITB 16;
- (i) any other document required **in the BDS**.

11.2 In addition to the requirements under ITB 11.1, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement.

11.3 The Bidder shall furnish in the Letter of Bid information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

**12. Letter of Bid and
Schedules**

12.1 The Letter of Bid and Schedules shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.3. All blank spaces shall be filled in with the information requested.

- 13. Alternative Bids**
- 13.1 Unless otherwise specified **in the BDS**, alternative Bids shall not be considered.
- 13.2 When alternative times for completion are explicitly invited, a statement to that effect will be included **in the BDS** and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.
- 13.3 Except as provided under ITB 13.4 below, Bidders wishing to offer technical alternatives to the requirements of the bidding document must first price the Employer's design as described in the bidding document and shall further provide all information necessary for a complete evaluation of the alternative by the Employer, 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 Bidder with the Most Advantageous Bid conforming to the basic technical requirements shall be considered by the Employer.
- 13.4 When specified **in the BDS**, Bidders are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be identified **in the BDS** and described in Section VII, Works' Requirements. The method for their evaluation will be stipulated in Section III, Evaluation and Qualification Criteria.
- 14. Bid Prices and Discounts**
- 14.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Activity Schedule or Bill of Quantities shall conform to the requirements specified below.
- 14.2 The Bidder shall submit a Bid for the whole of the Works described in ITB 1.1 by filling in prices for all items of the Works, as identified in Section IV, Bidding Forms. In case of admeasurement contracts, the Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.
- 14.3 The price to be quoted in the Letter of Bid, in accordance with ITB 12.1, shall be the total price of the Bid, excluding any discounts offered.

- 14.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid in accordance with ITB 12.1.
- 14.5 Unless otherwise specified **in the BDS** and the Conditions of Contract, the prices quoted by the Bidder shall be fixed. If the prices quoted by the Bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, the Bidder shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data in Section IV-Bidding Forms and the Employer may require the Bidder to justify its proposed indices and weightings.
- 14.6 If so specified in ITB 1.1, Bids are invited for individual lots (contracts) or for any combination of lots (packages). Bidders wishing to offer discounts for the award of more than one Contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITB 14.4, provided the Bids for all lots (contracts) are opened at the same time.
- 14.7 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 Bids, shall be included in the rates and prices¹ and the total Bid price submitted by the Bidder.
- 15. Currencies of Bid and Payment**
- 15.1 The currency(ies) of the Bid and the currency(ies) of payments shall be the same and shall be as specified **in the BDS**.
- 15.2 Bidders may be required by the Employer to justify, to the Employer's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the unit rates and prices and shown in the Schedule of Adjustment Data are reasonable², in which case a detailed breakdown of the foreign currency requirements shall be provided by Bidders.
- 16. Documents Comprising the**
- 16.1 The Bidder shall furnish a technical proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Bidding Forms, in sufficient detail to demonstrate the adequacy of

¹ In lump sum contracts, delete "rates and prices and the."

² For lump sum contracts, delete "unit rates and prices and shown in the Schedule of Adjustment Data are reasonable" and replace with "Lump Sum."

- Technical Proposal** the Bidders' proposal to meet the work's requirements and the completion time.
- 17. Documents Establishing the Eligibility and Qualifications of the Bidder**
- 17.1 To establish Bidder's eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid, included in Section IV, Bidding Forms.
- 17.2 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract, the Bidder shall provide the information requested in the corresponding information sheets included in Section IV, Bidding Forms.
- 17.3 If a margin of preference applies as specified in accordance with ITB 33.1, domestic Bidders, 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 ITB 33.1.
- 18. Period of Validity of Bids**
- 18.1 Bids shall remain valid until the date specified **in the BDS** or any extended date if amended by the Employer in accordance with ITB 8. A Bid that is not valid until the date specified **in the BDS**, or any extended date if amended by the Employer in accordance with ITB 8, shall be rejected by the Employer as nonresponsive.
- 18.2 In exceptional circumstances, prior to the date of expiry of the Bid validity, the Employer may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB 19, it shall also be extended for twenty-eight (28) days beyond the extended date for Bid validity. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid, except as provided in ITB 18.3.
- 18.3 If the award is delayed by a period exceeding fifty-six (56) days beyond the date of expiry of the Bid validity specified in accordance with ITB 18.1, the Contract price shall be determined as follows:

- (a) in the case of **fixed price** contracts, the Contract price shall be the Bid price adjusted by the factor specified **in the BDS**;
- (b) in the case of **adjustable** price contracts, no adjustment shall be made; or
- (c) in any case, Bid evaluation shall be based on the Bid price without taking into consideration the applicable correction from those indicated above.

19. Bid Security

19.1 The Bidder shall furnish as part of its Bid, either a Bid-Securing Declaration or a Bid Security as specified **in the BDS**, in original form and, in the case of a Bid Security, in the amount and currency specified **in the BDS**.

19.2 A Bid Securing Declaration shall use the form included in Section IV, Bidding Forms.

19.3 If a Bid Security is specified pursuant to ITB 19.1, the Bid Security shall be a demand guarantee in any of the following forms at the Bidder's option:

- (a) an unconditional guarantee issued by a bank or non-bank financial institution (such as an insurance, bonding or surety company);
- (b) an irrevocable letter of credit;
- (c) a cashier's or certified check; or
- (d) another security specified **in the BDS**,

from a reputable source from an eligible country. If an unconditional guarantee is issued by a non-bank financial institution located outside the Employer's Country, the issuing non-bank financial institution shall have a correspondent financial institution located in the Employer's Country to make it enforceable, unless the Employer has agreed in writing, prior to Bid submission, that a correspondent financial institution is not required. In the case of a bank guarantee, the Bid Security shall be submitted either using the Bid Security Form included in Section IV, Bidding Forms, or in another substantially similar format approved by the Employer prior to Bid submission. The Bid Security shall be valid for twenty-eight (28) days beyond the original date of expiry of the Bid validity, or beyond any extended date if requested under ITB 18.2.

- 19.4 If a Bid Security or Bid Securing Declaration is specified pursuant to ITB 19.1, any Bid not accompanied by a substantially responsive Bid Security or Bid-Securing Declaration shall be rejected by the Employer as non-responsive.
- 19.5 If a Bid Security is specified pursuant to ITB 19.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the Contract and furnishing the Performance Security and if required in the BDS, the Environmental and Social (ES) Performance Security pursuant to ITB 48.
- 19.6 The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required Performance Security. and if required in the BDS, the Environmental and Social (ES) Performance Security.
- 19.7 The Bid Security may be forfeited:
- (a) if a Bidder withdraws its Bid prior to the expiry date of the Bid validity specified by the Bidder on the Letter of Bid, or any extension thereto provided by the Bidder; or
 - (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB 47; or
 - (ii) furnish a Performance Security and if required in the BDS, the Environmental and Social (ES) Performance Security in accordance with ITB 48.
- 19.8 The Bid Security or the Bid-Securing Declaration of a JV shall be in the name of the JV that submits the Bid. If the JV has not been constituted into a legally enforceable JV, at the time of Bidding, the Bid Security or the Bid-Securing Declaration shall be in the names of all future members as named in the letter of intent mentioned in ITB 4.1 and ITB 11.2.
- 19.9 If a Bid Security is not required **in the BDS**, pursuant to ITB 19.1, and;
- (a) if a Bidder withdraws its Bid prior to the expiry date of the Bid validity specified by the Bidder on the Letter of Bid or any extended date provided by the Bidder; or
 - (b) if the successful Bidder fails to:

- (i) sign the Contract in accordance with ITB 47; or
- (ii) furnish a Performance Security and if required in the BDS, the Environmental and Social (ES) Performance Security in accordance with ITB 48;

the Borrower may, if provided for **in the BDS**, declare the Bidder ineligible to be awarded a contract by the Employer for a period of time stated **in the BDS**.

20. Format and Signing of Bid

- 20.1 The Bidder shall prepare one original of the documents comprising the Bid as described in ITB 11 and clearly mark it "ORIGINAL". Alternative Bids, if permitted in accordance with ITB 13, shall be clearly marked "ALTERNATIVE". In addition, the Bidder shall submit copies of the Bid in the number specified **in the BDS**, and clearly mark each of them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 20.2 Bidders shall mark as "CONFIDENTIAL" information in their Bids which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- 20.3 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified **in the BDS** and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.
- 20.4 In case the Bidder is a JV, the Bid 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.
- 20.5 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission and Opening of Bids

- 21. Sealing and Marking of Bids**
- 21.1 The Bidder shall deliver the Bid in a single, sealed envelope (one-envelope Bidding process). Within the single envelope the Bidder shall place the following separate, sealed envelopes:
- (a) in an envelope marked "ORIGINAL", all documents comprising the Bid, as described in ITB 11; and
 - (b) in an envelope marked "COPIES", all required copies of the Bid; and
 - (c) if alternative Bids are permitted in accordance with ITB 13, and if relevant:
 - (i) in an envelope marked " ORIGINAL - ALTERNATIVE BID", the alternative Bid; and
 - (ii) in the enveloped marked "COPIES – ALTERNATIVE BID" all required copies of the alternative Bid.
- 21.2 The inner and outer envelopes shall:
- (a) bear the name and address of the Bidder;
 - (b) be addressed to the Employer in accordance with ITB 22.1;
 - (c) bear the specific identification of this Bidding process specified in accordance with BDS 1.1; and
 - (d) bear a warning not to open before the time and date for Bid opening.
- 21.3 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.
- 22. Deadline for Submission of Bids**
- 22.1 Bids must be received by the Employer at the address and no later than the date and time specified **in the BDS**. When so specified **in the BDS**, Bidders shall have the option of submitting their Bids electronically. Bidders submitting Bids electronically shall follow the electronic bid submission procedures specified **in the BDS**.
- 22.2 The Employer may, at its discretion, extend the deadline for the submission of Bids by amending the bidding document in accordance with ITB 8, in which case all rights and

obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Bids

23.1 The Employer shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 22. Any Bid received by the Employer after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

24. Withdrawal, Substitution, and Modification of Bids

24.1 A Bidder may withdraw, substitute, or modify its Bid 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 ITB 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be:

(a) prepared and submitted in accordance with ITB 20 and ITB 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," "MODIFICATION"; and

(b) received by the Employer prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.

24.2 Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders.

24.3 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the date of expiry of the Bid validity specified by the Bidder on the Letter of Bid or any extended date thereof.

25. Bid Opening

25.1 Except in the cases specified in ITB 23 and ITB 24.2, the Employer shall publicly open and read out in accordance with this ITB, all Bids received by the deadline, at the date, time and place specified **in the BDS**, in the presence of Bidders' designated representatives and anyone who chooses to attend. All Bidders, or their representatives and any interested party may attend a public opening. Any specific electronic Bid opening procedures required if electronic bidding is permitted in accordance with ITB 22.1, shall be as specified **in the BDS**.

25.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Bid shall

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

- 25.3 Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Bid opening.
- 25.4 Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at bid opening.
- 25.5 Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the total Bid Price, per lot (contract) if applicable, including any discounts and alternative Bids; the presence or absence of a Bid Security, or Bid Securing Declaration, if required; and any other details as the Employer may consider appropriate.
- 25.6 Only Bids, alternative Bids and discounts that are opened and read out at Bid opening shall be considered further for evaluation. The Letter of Bid and the priced Schedules are to be initialed by representatives of the Employer attending Bid opening in the manner specified **in the BDS**.
- 25.7 The Employer shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 23.1).
- 25.8 The Employer shall prepare a record of the Bid opening that shall include, as a minimum:
 - (a) the name of the Bidder and whether there is a withdrawal, substitution, or modification;
 - (b) the Bid Price, per lot (contract) if applicable, including any discounts;
 - (c) the presence or absence of a Bid Security or Bid-Securing Declaration, if one was required; and

(d) any alternative Bids.

25.9 The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder'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 Bidders.

E. Evaluation and Comparison of Bids

- 26. Confidentiality**
- 26.1 Information relating to the evaluation of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until information on Intention to Award the Contract is transmitted to all Bidders in accordance with ITB 43.
- 26.2 Any effort by a Bidder to influence the Employer in the evaluation of the Bids or Contract award decisions may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB 26.2, from the time of Bid opening to the time of Contract award, if a Bidder wishes to contact the Employer on any matter related to the Bidding process, it shall do so in writing.
- 27. Clarification of Bids**
- 27.1 To assist in the examination, evaluation, and comparison of the Bids, and qualification of the Bidders, the Employer may, at its discretion, ask any Bidder for a clarification of its Bid given a reasonable time for a response. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The Employer's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids, in accordance with ITB 31.
- 27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its Bid may be rejected.
- 28. Deviations, Reservations, and Omissions**
- 28.1 During the evaluation of Bids, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the bidding document;

- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
- (c) "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.

29. Determination of Responsiveness

29.1 The Employer's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB 11.

29.2 A substantially responsive Bid is one that meets the requirements of the bidding 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, inconsistent with the bidding document, the Employer's rights or the Bidder's obligations under the proposed Contract; or
- (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.

29.3 The Employer shall examine the technical aspects of the Bid submitted in accordance with ITB 16, in particular, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.

29.4 If a Bid is not substantially responsive to the requirements of the bidding document, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

30. Nonmaterial Nonconformities

30.1 Provided that a Bid is substantially responsive, the Employer may waive any nonconformities in the Bid.

30.2 Provided that a Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of

time, to rectify nonmaterial nonconformities in the Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

30.3 Provided that a Bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only to reflect the price of a missing or non-conforming item or component, by adding the average price of the item or component quoted by substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Employer shall use its best estimate.

**31. Correction
of
Arithmetical
Errors**

31.1 Provided that the Bid is substantially responsive, the Employer shall correct arithmetical errors on the following basis:

- (a) only for admeasurement contracts, if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

31.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 31.1, shall result in the rejection of the Bid.

**32. Conversion to
Single Currency**

32.1 For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted into a single currency as specified **in the BDS**.

- 33. Margin of Preference** of 33.1 Unless otherwise specified **in the BDS**, a margin of preference for domestic Bidders³ shall not apply.
- 34. Subcontractors** 34.1 Unless otherwise stated **in the BDS**, the Employer does not intend to execute any specific elements of the Works by subcontractors selected in advance by the Employer, Financial Parts
- 34.2 The subcontractor's qualifications shall not be used by the Bidder to qualify for the Works unless their specialized parts of the Works were previously designated by the Employer **in the BDS** as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Bidder may be added to the qualifications.
- 34.3 Bidders may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified **in the BDS**. Subcontractors proposed by the Bidder shall be fully qualified for their parts of the Works.
- 35. Evaluation Bids** of 35.1 The Employer shall use the criteria and methodologies listed in this ITB and Section III, Evaluation and Qualification criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Employer shall determine the Most Advantageous Bid. This is the Bid of the Bidder that meets the Qualification Criteria and whose Bid has been determined to be:
- (a) substantially responsive to the bidding document; and
 - (b) the lowest evaluated cost.
- 35.2 To evaluate a Bid, the Employer shall consider the following:
- (a) the Bid price, excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill

³ An individual firm is considered a domestic Bidder for purposes of the margin of preference if it is registered in the country of the Employer, has more than 50 percent ownership by nationals of the country of the Employer, and if it does not subcontract more than 10 percent of the contract price, excluding provisional sums, to foreign contractors. JVs are considered as domestic Bidders and eligible for domestic preference only if the individual member firms are registered in the country of the Employer or have more than 50 percent ownership by nationals of the country of the Employer, and the JV shall be registered in the country of the Borrower. The JV shall not subcontract more than 10 percent of the contract price, excluding provisional sums, to foreign firms. JVs between foreign and national firms will not be eligible for domestic preference.

of Quantities⁴ for admeasurement contracts, but including Daywork⁵ items, where priced competitively;

- (b) price adjustment for correction of arithmetic errors in accordance with ITB 31.1;
- (c) price adjustment due to discounts offered in accordance with ITB 14.4;
- (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 32;
- (e) price adjustment for nonconformities in accordance with ITB 30.3; and
- (f) the additional evaluation factors are specified in Section III, Evaluation and Qualification Criteria.

35.3 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 taken into account in Bid evaluation.

35.4 If this bidding document allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated cost of the contract combinations, including any discounts offered in the Letter of Bid, is specified in Section III, Evaluation and Qualification Criteria.

36. Comparison of Bids 36.1 The Employer shall compare the evaluated costs of all substantially responsive Bids established in accordance with ITB 35.2 to determine the Bid that has the lowest evaluated cost.

37. Abnormally Low Bids 37.1 An Abnormally Low Bid is one where the Bid price, in combination with other constituent elements of the Bid, appears unreasonably low to the extent that the Bid price raises material concerns as to the capability of the Bidder to perform the Contract for the offered Bid price.

⁴ In lump sum contracts, delete “Bill of Quantities” and replace with “Activity Schedule.”

⁵ Daywork is work carried out following instructions of the Project Manager and paid for on the basis of time spent by workers, and the use of materials and the Contractor’s equipment, at the rates quoted in the Bid. For Daywork to be priced competitively for Bid evaluation purposes, the Employer must list tentative quantities for individual items to be costed against Daywork (e.g., a specific number of tractor driver staff-days, or a specific tonnage of Portland cement), to be multiplied by the Bidders’ quoted rates and included in the total Bid price.

37.2 In the event of identification of a potentially Abnormally Low Bid, the Employer shall seek written clarifications from the Bidder, including detailed price analyses of its Bid 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 bidding document.

37.3 After evaluation of the price analyses, in the event that the Employer determines that the Bidder has failed to demonstrate its capability to perform the Contract for the offered Bid Price, the Employer shall reject the Bid.

38. Unbalanced or Front Loaded Bids

38.1 If the Bid for an admeasurement contract, which results in the lowest evaluated cost is, in the Employer's opinion, seriously unbalanced or, front loaded, the Employer may require the Bidder to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Bid price as with the scope of works, proposed methodology, schedule and any other requirements of the bidding document.

38.2 After the evaluation of the information and detailed price analyses presented by the Bidder, the Employer may as appropriate:

(a) accept the Bid; or

(b) require that the amount of the Performance Security be increased at the expense of the Bidder to a level not exceeding 20% of the Contract Price; or

(c) reject the Bid.

39. Qualification of the Bidder

39.1 The Employer shall determine to its satisfaction whether the eligible Bidder that is selected as having submitted the lowest evaluated cost and substantially responsive Bid meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

39.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17. The determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the bidding document), or any other firm(s) different from the Bidder.

- 39.3 Prior to Contract award, the Employer will verify that the successful Bidder (including each member of a JV) is not disqualified by the Bank due to noncompliance with contractual SEA/SH prevention and response obligations. The Employer will conduct the same verification for each subcontractor proposed by the successful Bidder. If any proposed subcontractor does not meet the requirement, the Employer will require the Bidder to propose a replacement subcontractor.
- 39.4 An affirmative determination of qualification shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the Bid, in which event the Employer shall proceed to the substantially responsive Bid which offers the next lowest evaluated cost to make a similar determination of that Bidder's qualifications to perform satisfactorily.
- 40. Most Advantageous Bid**
- 40.1 Having compared the evaluated costs of Bids, the Employer shall determine the Most Advantageous Bid. The Most Advantageous Bid is the Bid of the Bidder that meets the Qualification Criteria and whose Bid has been determined to be:
- (a) substantially responsive to the bidding document; and
 - (b) the lowest evaluated cost.
- 41. Employer's Right to Accept Any Bid, and to Reject Any or All Bids**
- 41.1 The Employer reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to Contract Award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, Bid securities, shall be promptly returned to the Bidders.
- 42. Standstill Period**
- 42.1 The Contract shall not be awarded earlier than the expiry of the Standstill Period. The Standstill Period shall be ten (10) Business Days unless extended in accordance with ITB 46. The Standstill Period commences the day after the date the Employer has transmitted to each Bidder the Notification of Intention to Award the Contract. Where only one Bid is submitted, or if this contract is in response to an emergency situation recognized by the Bank, the Standstill Period shall not apply.

- 43. Notification of Intention to Award** **of to** 43.1 The Employer shall send to each Bidder the Notification of Intention to Award the Contract to the successful Bidder. The Notification of Intention to Award shall contain, at a minimum, the following information:
- (a) the name and address of the Bidder submitting the successful Bid;
 - (b) the Contract price of the successful Bid;
 - (c) the names of all Bidders who submitted Bids, and their Bid prices as readout, and as evaluated;
 - (d) a statement of the reason(s) the Bid (of the unsuccessful Bidder to whom the notification is addressed) was unsuccessful, unless the price information in c) above already reveals the reason;
 - (e) the expiry date of the Standstill Period;
 - (f) instructions on how to request a debriefing and/or submit a complaint during the standstill period.

F. Award of Contract

- 44. Award Criteria** 44.1 Subject to ITB 41, the Employer shall award the Contract to the successful Bidder. This is the Bidder whose Bid has been determined to be the Most Advantageous Bid as specified in ITB 40.
- 45. Notification of Award** **of** 45.1 Prior to the expiration of the Bid validity and upon expiry of the Standstill Period, specified in ITB 42.1 or any extension thereof, and, upon satisfactorily addressing any complaint that has been filed within the Standstill Period, the Employer shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification of award (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Employer will pay the Contractor in consideration of the execution of the contract (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price").
- 45.2 Within ten (10) Business Days after the date of transmission of the Letter of Acceptance, the Employer shall publish the Contract Award Notice which shall contain, at a minimum, the following information:
- (a) name and address of the Employer;

- (b) name and reference number of the contract being awarded, and the selection method used;
- (c) names of all Bidders that submitted Bids, and their Bid prices as read out at Bid opening, and as evaluated;
- (d) names of all Bidders whose Bids were rejected either as nonresponsive or as not meeting qualification criteria, or were not evaluated, with the reasons therefor;
- (e) the name of the successful Bidder, the final total contract price, the contract duration and a summary of its scope; and
- (f) successful Bidder's Beneficial Ownership Disclosure Form, if specified in BDS ITB 47.1.

45.3 The Contract Award Notice shall be published on the Employer's website with free access if available, or in at least one newspaper of national circulation in the Employer's Country, or in the official gazette. The Employer shall also publish the contract award notice in UNDB online.

45.4 Until a formal contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.

46. Debriefing by the Employer

46.1 On receipt of the Employer's Notification of Intention to Award referred to in ITB 43.1, an unsuccessful Bidder has three (3) Business Days to make a written request to the Employer for a debriefing. The Employer shall provide a debriefing to all unsuccessful Bidders whose request is received within this deadline.

46.2 Where a request for debriefing is received within the deadline, the Employer shall provide a debriefing within five (5) Business Days, unless the Employer decides, for justifiable reasons, to provide the debriefing outside this timeframe. In that case, the standstill period shall automatically be extended until five (5) Business Days after such debriefing is provided. If more than one debriefing is so delayed, the standstill period shall not end earlier than five (5) Business Days after the last debriefing takes place. The Employer shall promptly inform, by the quickest means available, all Bidders of the extended standstill period

46.3 Where a request for debriefing is received by the Employer later than the three (3)-Business Day deadline, the Employer should provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of Public Notice of Award of contract.

Requests for debriefing received outside the three (3)-day deadline shall not lead to extension of the standstill period.

46.4 Debriefings of unsuccessful Bidders may be done in writing or verbally. The Bidder shall bear their own costs of attending such a debriefing meeting.

**47. Signing
Contract**

of 47.1 The Employer shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement, and, if specified in the BDS, a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form, if so requested, shall be submitted within eight (8) Business Days of receiving this request.

47.2 The successful Bidder shall sign, date and return to the Employer, the Contract Agreement within twenty-eight (28) days of its receipt.

**48. Performance
Security**

48.1 Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the Employer, the successful Bidder shall furnish the Performance Security and, if required in the BDS, the Environmental and Social (ES) Performance Security in accordance with the General Conditions of Contract, subject to ITB 38.2 (b), using for that purpose the Performance Security and ES Performance Security Forms included in Section X, Contract Forms, or another form acceptable to the Employer. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to the Employer. A foreign institution providing a bond shall have a correspondent financial institution located in the Employer's Country, unless the Employer has agreed in writing that a correspondent financial institution is not required.

48.2 Failure of the successful Bidder to submit the above-mentioned Performance Security and, if required in the BDS, the Environmental and Social (ES) Performance Security, or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Employer may award the Contract to the Bidder offering the next Most Advantageous Bid.

49. Adjudicator

49.1 The Employer proposes the person named **in the BDS** to be appointed as Adjudicator under the Contract, at the hourly fee specified **in the BDS**, plus reimbursable expenses. If the

Bidder disagrees with this proposal, the Bidder should so state in his Bid. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator, the Employer will request the Appointing Authority designated in the Particular Conditions of Contract (PCC) pursuant to Clause 23.1 of the General Conditions of Contract (GCC), to appoint the Adjudicator.

**50. Procurement
Related
Complaint**

50.1 The procedures for making a Procurement-related Complaint are as specified in the BDS.

Section II - Bid Data Sheet (BDS)

Section II - Bid Data Sheet (BDS)

The following specific data for the Works to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Reference	A. General
ITB 1.1	<p>The reference number of the Request for Bids (RFB) is: [KE-NAIROBI COUNTY-377334-CW-RFB]:</p> <p>The Employer is: County Chief Officer Housing and Urban Renewal, Department of Built Environment and Urban Planning. Nairobi City County Government, Kenya</p> <p>The name of the RFB is: Procurement of Construction of Roads/Footpaths, Storm Water Drainage Systems, Public Street Lighting and Sewer Infrastructure Works in Selected Informal Settlements of Huruma Fire Victims - 2, Mathare Fire Victims, Matopeni, Pumwani Majengo and Spring Valley all Within Nairobi City County.</p>
ITB 1.2(a)	<p>Return of Bid Documents through Electronic – Procurement <i>[Not Applicable].</i></p> <p>Bidding Document in English shall be downloaded from www.nairobi.go.ke or www.tenders.go.ke.</p>
ITB 2.1	<p>The Borrower is: Government of Kenya</p> <p>Loan or Financing Agreement amount: WORLD BANK: USD 150,000,000 AFD: USD 45,000,000</p> <p>The name of the Project is: SECOND KENYA INFORMAL SETTLEMENTS IMPROVEMENT PROJECT (KISIP -2).</p>
ITB 4.1	<p>Maximum number of members in the Joint Venture (JV) shall be: Two (2) Members</p>
ITB 4.5	<p>A list of debarred firms and individuals is available on the Bank's external website: http://www.worldbank.org/debarr.</p>

B. Contents of Bidding Document	
ITB 7.1	For <u>Clarification of Bid purposes</u> only, the Employer’s address is: Attention: DIRECTOR OF SUPPLY CHAIN, Nairobi City County Government, Address: P.O. Box 30075-00100, City: NAIROBI ZIP Code: 00100 Country: Kenya Facsimile number: Not Applicable Electronic mail address: nairobiprocurement@gmail.com Web page: www.nairobi.go.ke
ITB 7.1	Requests for clarification should be received by the Employer no later than: 14 days prior to deadline for submission of bids
ITB 7.1	Web page: www.nairobi.go.ke
ITB 7.4	A Pre-Bid meeting shall take place at the following date, time and place: Date: Thursday, 29th August, 2024. Time: 10:00 AM Place: Nairobi City County Government City Hall Annexe, Service Floor. A site visit conducted by the Employer shall be organized: Matopeni and Spring Valley : Thursday, 29th August 2024. Huruma Fire Victims , Mathare Fire Victims and Pumwani Majengo : Friday 30th August 2024.Meeting point shall be Christ Gospel Chapel A pre-bid meeting is optional See ITB 7.6 last paragraph <i>“...Nonattendance at the preBid meeting will not be a cause for disqualification of a Bidder.”</i>
C. Preparation of Bids	
ITB 10.1	The language of the Bid is: English All correspondence exchange shall be in English language. Language for translation of supporting documents and printed literature is English.
ITB 11.1 (b)	The Bidder shall submit the following documents in its Bid:

	<ul style="list-style-type: none"> • <i>Priced Bill of Quantities,</i> • <i>Drawings and Specifications,</i> • <i>Code of Conduct for Contractor’s Proposed Personnel,</i> • <i>Management Strategies and Implementation Plans (MSIP) to Manage the Environmental and Social risks</i>
ITB 11.1 (i)	<p>The Bidder shall submit the following additional documents in its Bid:</p> <ul style="list-style-type: none"> • Certificate of Incorporation • CR12 form • KRA PIN Certificate • Valid Tax Compliance Certificate • National Construction Authority Registration Certificate in the category NCA 2 and above for or Equivalent in the following Classes, <ul style="list-style-type: none"> - Road Works • Current NCA Practicing License for Road Works • National Construction Authority Registration Certificate in the category NCA 3 for Electrical Works. The bidder can identify a specialized contractor on Electrical Works as specified in Bid Data Sheet (ITB 34.3) • The specialised Sub contractor should possess Current License from the Energy and Petroleum Regulatory Authority (EPRA) for Electrical Engineering works or equivalent <p><i>The Employer reserves the right to verify the veracity of the NCA and Other Registration certificates and Licences through the official portals or other means.</i></p> <p>Code of Conduct for Contractor’s Personnel (ES)</p> <p>The Bidder shall submit its Code of Conduct that will apply to Contractor’s Personnel (as defined in Sub- Clause 1 (ii) of the General Conditions of Contract), to ensure compliance with the Contractor’s Environmental and Social (ES) obligations under the Contract. The Bidder shall use for this purpose the Code of Conduct form provided in Section IV. No substantial modifications shall be made to this form, except that the Bidder may introduce additional requirements, including as necessary to take into account specific Contract issues/risks.</p>

	<p>Management Strategies and Implementation Plans (MSIP) to manage the (ES) risks</p> <p><i>The Bidder shall submit Management Strategies and Implementation Plans (MSIPs) to manage the following key Environmental and Social (ES) risks:</i></p> <ul style="list-style-type: none"> • Sexual Exploitation, and Abuse (SEA) prevention and response action plan • Waste Management Plan (WMP) • Child Protection Strategy (CPS) • Traffic Management Plan to ensure safety of local communities from construction traffic
ITB 13.1	Alternative Bids shall not be considered.
ITB 13.2	Alternative times for completion shall not be permitted.
ITB 13.4	Alternative technical solutions shall be permitted for the following parts of the Works: [Not Applicable]
ITB 14.5	The prices quoted by the Bidder shall be: Fixed (Shall Not be Subject to Adjustment during the Performance of the Contract)
ITB 15.1	The price shall be quoted by the Bidder in: Kenya Shillings (KES)
ITB 18.1	<i>The Bid shall be valid 120 days from the Date of Submission</i> [Thursday, 26th September, 2024 at 12:00 Noon E.A.T.]
ITB 18.3 (a)	The Bid price shall be adjusted by the following factor(s): Not Applicable
ITB 19.1	A Bid Security shall be required. The Bid Security shall be in the form of on-Demand Bank Guarantee in the form and content provided in Section IV-Bidding Forms valid for a period of at least 28 days beyond the Bid Validity Period. The Bid Security shall be in the amount and currency of KES 13,500,000.00 [Thirteen Million and Five Hundred Thousand Kenyan Shillings and Zero cents Only]
ITB 19.3 (d)	Other types of acceptable securities: None
ITB 20.1	In addition to the original of the Bid, the number of copies is: [two (2) hard copies of the Original]
ITB 20.3	The written confirmation of authorization to sign on behalf of the Bidder shall consist of:

	A Power of Attorney and shall be witnessed by a commissioner of oaths. The Power of Attorney shall be special/specific to the current bid and not general.
D. Submission and Opening of Bids	
ITB 22.1	<p>For <u>Bid submission purposes</u> only, the Employer's address is: Attention:</p> <p style="text-align: center;">County Chief Officer, Housing and Urban Renewal, Department of Built Environment and Urban Planning. Nairobi City County Government, Kenya.</p> <p>Tender Reference No: KE-NAIROBI COUNTY-377334-CW-RFB</p> <p>The deadline for Bid submission is: Date: [Thursday, 26th September, 2024] Time: [12:00 Noon E.A.T]</p> <p>Bidders shall not have the option of submitting their Bids electronically.</p> <p>The electronic Bidding submission procedures shall be: [Not Applicable.]</p>
ITB 25.1	<p>The Bid opening shall take place at:</p> <p style="text-align: center;">Nairobi City County Government Mama Ngina, Main City Hall, 4th Floor, Room 400 Supply Chain Management. P.O Box 30075-00100, City: Nairobi Country: Kenya Date: [Thursday, 26th September, 2024] Time: [12:00 Noon E.A.T]</p>
ITB 25.1	The electronic Bid opening procedures shall be: [Not Applicable]
ITB 25.6	The Letter of Bid and Schedules shall be initialed by All representatives of the Employer conducting Bid opening.
E. Evaluation and Comparison of Bids	
ITB 32.1	<p>The currency that shall be used for Bid evaluation and comparison purposes to convert at the selling exchange rate all Bid prices expressed in various currencies into a single currency is:</p> <p style="text-align: center;">Kenya Shillings (KES)</p>

	<p>The source of exchange rate shall be: The Central Bank of Kenya</p> <p>The date for the exchange rate shall be: Date: Bid Submission Date, [Thursday, 26th September, 2024 12:00 Noon E.A.T.]</p>
ITB 33.1	A margin of domestic preference shall not apply.
ITB 34.1	At this time the Employer does not intend to execute certain specific parts of the Works by subcontractors selected in advance.
ITB 34.2	<p>The parts of the Works for which the Employer permits Bidders to propose Specialized Subcontractors are designated as follows:</p> <ul style="list-style-type: none"> a) Solar Street Lighting Installation Works in Informal Settlements of Huruma Fire Victims 2, Mathare Fire Victims, Matopeni, Pumwani Majengo and Spring Valley all Within Nairobi City County. b) Sanitation Works in informal settlement of Huruma Fire Victims - 2 Within Nairobi County. <p>For the above-designated parts of the Works that may require Specialized Subcontractors, the relevant qualifications of the proposed Specialized Subcontractors will be added to the qualifications of the Bidder for the purpose of evaluation.</p>
ITB 34.3	<p>a) In the case of Post qualification:</p> <p>Contractor's proposed subcontracting: Maximum percentage of subcontracting permitted is: <u>25</u>% of the total contract amount or <u>25</u>% of the volume of work.</p> <p>b) Bidders planning to subcontract more than 10% of total volume of work shall specify, in the Letter of Bid, the activity (ies) or parts of the Works to be subcontracted along with complete details of the subcontractors and their qualification and experience.</p> <p>The qualification and experience of the sub-contractors must meet the minimum criteria for the relevant work to be sub-contracted failing which such sub-contractors will not be permitted to participate.</p> <p>c) Sub-contractors' qualification and experience will not be considered for evaluation of the Bidder. The Bidder on its own (without taking into account the qualification and experience of the sub-contractor) should meet the qualification criteria.</p>
F. Award of Contract	
ITB 47.1	The successful Bidder shall submit the Beneficial Ownership Disclosure Form.

ITB 48.1 and 48.2	The successful Bidder shall not be required to submit an Environmental and Social (ES) Performance Security.
ITB 49	The Adjudicator proposed by the Employer is: <i>[Chartered Institute of Arbitrators (Kenya Branch)]</i>
ITB 50.1	<p>The procedures for making a Procurement-related Complaint are detailed in the “Procurement Regulations for IPF Borrowers (Annex III).” If a Bidder wishes to make a Procurement-related Complaint, the Bidder shall submit its complaint following these procedures, In Writing (by the quickest means available, such as by email or fax), to:</p> <p>For the attention:</p> <p style="text-align: center;">Director of Supply Chain, Nairobi City County Government, P. O. Box 30075-00100, Nairobi, Kenya</p> <p>Email address: nairobiprocurement@gmail.com</p> <p>Fax number: Not Applicable</p> <p>In summary, a Procurement-related Complaint may challenge any of the following:</p> <ol style="list-style-type: none"> 1. the terms of the Bidding Documents; and 2. the Employer’s decision to award the contract.

Section III - Evaluation and Qualification Criteria

Section III - Evaluation and Qualification Criteria

This section contains all the criteria that the Employer shall use to evaluate Bids and qualify Bidders through post-qualification. No other factors, methods or criteria shall be used other than specified in this bidding document. The Bidder shall provide all the information requested in the forms included in Section IV, Bidding Forms.

Wherever a Bidder is required to state a monetary amount, Bidders should indicate the USD equivalent using the rate of exchange determined as follows:

- 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; or
- value of single contract - Exchange rate prevailing on the date of the contract.

Exchange rates shall be taken from the publicly available source identified in the ITB 32.1. Any error in determining the exchange rates in the Bid may be corrected by the Employer

[The Employer shall select the criteria deemed appropriate for the procurement process, insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]

Table of Criteria

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1. Margin of Preference

NOT APPLICABLE

2. Evaluation

In addition to the criteria listed in ITB 35.2 (a) – (e) the following criteria shall apply:

2.1 Adequacy of Technical Proposal

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section VII, Works' Requirements.

2.2 Multiple Contracts

Pursuant to ITB 35.4 of the Instructions to Bidders, if Works are grouped in multiple contracts, evaluation will be as follows:

(a) Award Criteria for Multiple Contracts [ITB 35.4]:

Lots

Bidders have the option to Bid for any one or more lots. Bids will be evaluated lot-wise, taking into account discounts offered, if any, after considering all possible combination of lots. The contract(s) will be awarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer for combined lots, subject to the selected Bidder(s) meeting the required qualification criteria for lot or combination of lots as the case may be.

Packages

Bidders have the option to Bid for any one or more packages and for any one or more lots within a package. Bids will be evaluated package-wise, taking into account discounts offered, if any, for combined packages and/or lots within a package. The contract(s) will be awarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer for combined packages, subject to the selected Bidder(s) meeting the required qualification criteria for combination of packages and or lots as the case may be.

(b) Qualification Criteria for Multiple Contracts:

Section III describes criteria for qualification for each lot (contract) for multiple lots (contracts). The criteria for qualification is aggregate minimum requirement for respective lots as specified under items 3.1, 3.2, 4.2(a) and 4.2(b). However, with respect to the specific experience under item 4.2 (a) of Section III, the Employer will select any one or more of the options as identified below:

N is the minimum number of contracts

V is the minimum value of a single contract

(a) For one Contract:**Option 1:**

(i) N contracts, each of minimum value V;

Or

Option 2:

(i) N contracts, each of minimum value V; or

(ii) Less than or equal to N contracts, each of minimum value V, but with total value of all contracts equal or more than $N \times V$.

(b) For multiple Contracts**Option 1:**

(i) Minimum requirements for combined contract(s) shall be the aggregate requirements for each contract for which the Bidder has submitted Bids as follows, and N1, N2, N3, etc. shall be different contracts:

Lot 1: N1 contracts, each of minimum value V1;

Lot 2: N2 contracts, each of minimum value V2;

Lot 3: N3 contracts, each of minimum value V3;

----etc.

or

Option 2:

(i) Minimum requirements for combined contract(s) shall be the aggregate requirements for each contract for which the Bidder has submitted Bids as follows, and N1, N2, N3, etc. shall be different contracts:

Lot 1: N1 contracts, each of minimum value V1;

Lot 2: N2 contracts, each of minimum value V2;

Lot 3: N3 contracts, each of minimum value V3;

----etc., **or**

(ii) Lot 1: N1 contracts, each of minimum value V1; or number of contracts less than or equal to N1, each of minimum value V1, but with total value of all contracts equal or more than $N1 \times V1$.

Lot 2: N2 contracts, each of minimum value V2; or number of contracts less than or equal to N2, each of minimum value V2, but with total value of all contracts equal or more than $N2 \times V2$.

Lot 3: N3 contracts, each of minimum value V3; or number of contracts less than or equal to N3, each of minimum value V3, but with total value of all contracts equal or more than $N3 \times V3$.

---etc.

Or

Option 3:

(i) Minimum requirements for combined contract(s) shall be the aggregate requirements for each contract for which the Bidder has bid for as follows, and N1, N2, N3, etc. shall be different contracts:

Lot 1: N1 contracts, each of minimum value V1;

Lot 2: N2 contracts, each of minimum value V2;

Lot 3: N3 contracts, each of minimum value V3;

---etc., **or**

(ii) Lot 1: N1 contracts, each of minimum value V1; or number of contracts less than or equal to N1, each of minimum value V1, but with total value of all contracts equal or more than $N1 \times V1$.

Lot 2: N2 contracts, each of minimum value V2; or number of contracts less than or equal to N2, each of minimum value V2, but with total value of all contracts equal or more than $N2 \times V2$.

Lot 3: N3 contracts, each of minimum value V3; or number of contracts less than or equal to N3, each of minimum value V3, but with total value of all contracts equal or more than $N3 \times V3$.

---etc., or

(iii) Subject to compliance as per (ii) above with respect to minimum value of single contract for each lot, total number of contracts is equal or less than $N1 + N2 + N3$ ---but the total value of all such contracts is equal or more than $N1 \times V1 + N2 \times V2 + N3 \times V3$ ----.

2.3 Alternative Completion Times

An alternative Completion Time, if permitted under ITB 13.2, will be evaluated as follows:

.....
.....
.....

2.4 Sustainable procurement

*[If specific **sustainable procurement technical requirements** have been specified in Section VII- Specification, **either** state that (i) those requirements will be evaluated on a pass/fail (compliance basis) **or** otherwise (ii) in addition to evaluating those requirements on a pass/fail (compliance basis), if applicable, specify the monetary adjustments to be applied to Bid prices for comparison purposes on account of Bids that exceed the specified minimum sustainable procurement technical requirements.]*

.....
.....
.....

2.5 Alternative Technical Solutions for specified parts of Works

The acceptability of alternative technical solutions of parts of the Works, if permitted under ITB 13.4, will be determined as follows:

.....
.....
.....

2.6 Specialized Subcontractors

If permitted under ITB 34, only the specific experience of Subcontractors for specialized works permitted by the Employer will be considered. The general experience and financial resources of the Specialized Subcontractors shall not be added to those of the Bidder for purposes of qualification of the Bidder.

a) Streetlighting Works

The qualification criteria for a specialized subcontractor for sanitation works are as follows:

- Meets the specific construction and contract management for electrical works as listed in the qualification table below.

b) Sanitation Works

The qualification criteria for a specialized subcontractor for sanitation works are as follows:

- Meets the specific construction and contract management for sanitation works as listed in the qualification table below.

.....
.....

3. Qualification

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
1. Eligibility							
1.1	Nationality	Nationality in accordance with ITB 4.4	Must meet requirement	N/A	N/A	N/A	Forms ELI – 1.1 and 1.2, with attachments
1.2	Conflict of Interest	No conflicts of interest in accordance with ITB 4.2	Must meet requirement	N/A	N/A	N/A	Letter of Bid
1.3	Bank Eligibility	Not having been declared ineligible by the Bank, as described in ITB 4.5.	Must meet requirement	N/A	N/A	N/A	Letter of Bid
1.4	State-owned enterprise or institution of the Borrower country	Meets conditions of ITB 4.6	Must meet requirement	N/A	N/A	N/A	Forms ELI – 1.1 and 1.2, with attachments
1.5	United Nations resolution or Borrower's country law	Not having been excluded as a result of prohibition in the Borrower's country laws or official regulations against commercial relations with the Bidder's country, or by an act of compliance with UN Security	Must meet requirement	N/A	N/A	N/A	Forms ELI – 1.1 and 1.2, with attachments

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		Council resolution, both in accordance with ITB 4.8 and Section V.					
2. Historical Contract Non-Performance							
2.1	History of Non-Performing Contracts	Non-performance of a contract ¹ did not occur as a result of contractor default since 1st January 2013.	Must meet requirement ^{1 & 2}	N/A	N/A	N/A	Form CON-2
2.2	Suspension Based on Execution of Bid /Proposal Securing Declaration by the Employer	Not under suspension based on execution of a Bid/Proposal Securing Declaration pursuant to ITB 4.7 and ITB 19.9	Must meet requirement	N/A	N/A	N/A	Letter of Bid
2.3	Pending Litigation	Bidder's financial position and prospective long-term profitability sound according to criteria established in 3.1	Must meet requirement	N/A	N/A	N/A	Form CON – 2

¹ Nonperformance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Nonperformance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Nonperformance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		below and assuming that all pending litigation will be resolved against the Bidder					
2.4	Litigation History	No consistent history of court/arbitral award decisions against the Bidder ² since 1st January 2013	Must meet requirement	N/A	N/A	N/A	Form CON – 2
2.5	Declaration: Environmental and Social (ES) past performance	Declare any civil work contracts that have been suspended or terminated and/or performance security called by an employer for breach of environmental or social (including Sexual Exploitation and Abuse)) contractual obligations in the past five years. ³	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	N/A	N/A	Form CON-3 ES Performance Declaration

² The Bidder shall provide accurate information on the Letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture may result in disqualifying the Bidder.

³ The Employer may use this information to seek further information or clarifications in carrying out its due diligence.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
2.6	Bank's SEA and/or SH Disqualification	At the time of Contract Award, not subject to disqualification by the Bank for non-compliance with SEA/ SH obligations	Must meet requirement (including each subcontractor proposed by the Bidder)	N/A	Must meet requirement (including each subcontractor proposed by the Bidder)	N/A	Letter of Bid, Form CON-4
		If the Bidder had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, the Bidder shall either (i) provide evidence of an arbitral award on the disqualification made in its favour; or (ii) demonstrate that it has adequate capacity and commitment to comply with SEA/SH prevention and response obligations; or (iii) provide evidence that it has already	Must meet requirement (including each subcontractor proposed by the Bidder)	N/A	Must meet requirement (including each subcontractor proposed by the Bidder)	N/A	Letter of Bid, Form CON-4

Eligibility and Qualification Criteria		Compliance Requirements					Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		demonstrated such capacity and commitment on another Bank financed works contract.					
3. Financial Situation and Performance							
3.1	Financial Capabilities	(i) The Bidder 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 KShs. 750 Million for the subject contract(s) net of the Bidder's	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN – 3.1, with attachments

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		other commitments					
		(ii) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.	Must meet requirement	N/A	N/A	N/A	
		(iii) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial statements acceptable to the Employer, for the last 5 years shall be submitted and must demonstrate the current soundness of the Bidder's financial position and indicate its prospective long-term profitability.	Must meet requirement	N/A	N/A	N/A	

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
3.2	Average Annual Construction Turnover	Minimum average annual construction turnover of KShs 800 Million , calculated as total certified payments received for contracts in progress and/or completed within the last 4 years, divided by 4 years	Must meet requirement	Must meet requirement	Must meet 50% requirement	Must meet 90% requirement	Form FIN – 3.2
4. Experience							
4.1 (a)	General Construction Experience	Experience under construction contracts in the role of prime contractor, JV member, subcontractor, or management contractor for at least the last 10 years , starting 1st January 2013	Must meet requirement	N/A	Must meet requirement	N/A	Form EXP – 4.1
4.2 (a)	Specific Construction & Contract Management Experience	(i) A minimum number of two (2) years similar contracts specified below that have been	Must meet requirement	N/A	N/A	N/A	Form EXP 4.2(a)

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		satisfactorily and substantially ⁴ completed as a prime contractor, joint venture member ⁵ , management contractor or sub-contractor ⁵ between 1st January 2013 and bid submission deadline: (i) 2 contracts, each of minimum value KShs 500 Million; Or ii) 1 contract of minimum value Ksh. 750 million					

⁴ Substantial completion shall be based on 80% or more works completed under the contract.

⁵ For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder’s share, by value, shall be considered to meet this requirement.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		<p>The similarity of the contracts shall be based on the following:</p> <ul style="list-style-type: none"> • At least 6km of roads (minimum width of carriageway 5.5m) to bitumen standards • At least 6km of drainage system • At least 6km of footpaths • At least 400 Nr. Integrated Solar Street lighting installations • Reticulation sewers with Concrete / uPVC / DWC ranging from 100 mm dia. To 400 mm 					

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		dia. With manholes, at a rate of at least 1.5 km per month.					
4.2 (b)		For the above and any other contracts [substantially completed and under implementation] as prime contractor, joint venture member, or sub-contractor between 1st January 2013 and Application submission deadline, a minimum construction experience in the following key activities successfully completed ⁶ :	Must meet requirements <i>[Specify activities that may be met through a specialized subcontractor, if permitted in accordance with ITB 34.3]</i>	Must meet requirements	N/A	N/A	Form EXP – 4.2 (b)

⁶ Volume, number or rate of production of any key activity can be demonstrated in one or more contracts combined if executed during same time period.

Eligibility and Qualification Criteria		Compliance Requirements				Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		1.Site clearance & Top soil stripping of 45,000m ² per year 2.Bulk earthworks of 36,000m ³ per year; 3.Concrete works of 4,000m ³ per year; 4.Asphalt Concrete works of 2,000 m ³ /year 5.Cement Stabilization works of 5,000 m ³ per year 6.Reticulation sewers with Concrete / uPVC / DWC ranging from					

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		100 mm dia. To 400 mm dia. With manholes, at a rate of at least 1.5 km per month. 7. Supply, installation of integrated solar streetlights works of 350Nr of Street lights per year ⁷					
4.2 (c)	Specific Experience in managing aspects	For contracts [substantially completed and under implementation] as prime contractor, joint venture member, or Subcontractor	Must meet requirements	N/A	N/A	N/A	Form EXP – 4.2 (c)

⁷ The minimum experience requirement for multiple contracts will be the sum of the minimum requirements for respective individual contracts, unless specified otherwise.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each Member	At least one Member	
		between 1 st January 2013 and Application submission deadline, experience in managing ES risks and impacts in the following aspects: Sexual Exploitation, and Abuse (SEA) prevention and response Traffic Management Plan to ensure safety of local communities from construction traffic					

Note: [For Multiple lots (contracts) specify financial and experience criteria for each lot under 3.1, 3.2, 4.2(a), 4.2(b) and 4.2 (c)]

4. Key Personnel

The Bidder must demonstrate that it will have suitably qualified (and in adequate numbers) Key Personnel, as described in the Specification.

The Bidder shall provide details of the Key Personnel and such other Key Personnel that the Bidder considers appropriate to perform the Contract, together with their academic qualifications and work experience. The Bidder shall complete the relevant Forms in Section IV, Bidding Forms.

Item No.	Position/ Specialization	Minimum Relevant academic qualifications	Minimum years of relevant work experience
1	Contractor's Representative/ Site Agent - (1No.)	<ul style="list-style-type: none"> - BSc./BEng./BTech. or Equivalent Degree in Civil Engineering - Registered Professional Engineer with EBK or Equivalent Body - Valid Practicing License 	<ul style="list-style-type: none"> i. 15 years' general experience ii. 10 years' specific experience in construction of bituminous paved roads iii. At least 5 years as a Site Agent in a project as in ii above but within urban setup or informal settlement of minimum value KES 1Billion.
2	Assistant Site Agent/Site Engineer – (5No.)	<ul style="list-style-type: none"> - HND Civil or Equivalent - Registered Technician Engineer with EBK or equivalent 	<ul style="list-style-type: none"> i. 10 years' general experience ii. 8 years' specific experience in construction of bituminous paved roads iii. At least 5 years as a Site Engineer or Assistant Site Agent in a project as in ii above but within urban setup or informal settlement

Section III - Evaluation and Qualification Criteria

3	Surveyors – (5No.)	<ul style="list-style-type: none"> - BSc.(Survey/Geomatics/Geospatial Engineering) or equivalent. - Registered with ISK or any other equivalent body - Conversant in AUTOCAD/CIVIL 3D 	<ul style="list-style-type: none"> i. 8 years' general experience ii. 5 years' specific experience in construction projects iii. At least 3 years as a Surveyor in a project as in ii above but within urban setup or informal settlement
4	Environmentalist – (1No.)	<ul style="list-style-type: none"> - BSc. In Environmental science/Natural science or its equivalent - Registered by NEMA as a Lead expert - Valid NEMA License 	<ul style="list-style-type: none"> i. 8 years' general experience ii. 5 years' specific experience in construction projects iii. At least 3 years as an Environmentalist in a project as in ii above but within urban setup or informal settlement
5	Sociologist – (1No.)	<ul style="list-style-type: none"> - B.A(Sociology/Community Development/Social Work/Political Science) or its equivalent 	<ul style="list-style-type: none"> i. 8 years' general experience ii. 5 years' specific experience in construction projects iii. At least 3 years as a Sociologist in a project as in ii above but within urban setup or informal settlement
6	Health & Safety Officer – (1No.)	<ul style="list-style-type: none"> - Dip.(Occupational Health and Safety) or its equivalent - Be a Certified Health and Safety Officer by relevant body 	<ul style="list-style-type: none"> i. 8 years' general experience ii. 5 years' specific experience in construction projects iii. At least 3 years as an HSO in a project as in ii above but within urban setup or informal settlement
7	Earthworks Foreman – (5No.)	<ul style="list-style-type: none"> - Diploma (Civil Engineering) or Building Construction 	<ul style="list-style-type: none"> i. 8 years' general experience ii. 5 years' specific experience in construction of bituminous paved roads

8	Pavement Works Foreman – (5No.)	- Diploma (Civil Engineering) or Building Construction	i. 8 years' general experience ii. 5 years' specific experience in construction of bituminous paved roads
9	Concrete Works Foreman (5No.)	- Diploma (Civil Engineering) or Building Construction	i. 8 years' general experience ii. 5 years' specific experience in construction of bituminous paved roads
10	Material Technologist – (5No.)	- Diploma (Civil Engineering) or Building Construction	i. 8 years' general experience ii. 5 years' specific experience in construction of bituminous paved roads
11	Water/Sewer Works Foreman – (3 No.)	- Diploma (Civil Engineering) or Building Construction	i. 8 years' general experience ii. 5 years' specific experience in construction of Water supply Distribution network and Individual Consumer connections
12	Electrical Foreman – (5 No.)	- Diploma (Electrical Engineering)	i. 8 years' general experience ii 5 years' specific experience in installation of integrated solar street lights and/or public lighting
13	Graduate Engineers on Training (5 No.)	- BSc (Civil Engineering)	Fresh Graduate to a maximum of 3 years general experience in civil engineering works. Note: At least one trainee must be a female.

5. Equipment

The Bidder must demonstrate that it will have access to the key Contractor's equipment listed hereafter:

No.	Equipment Type and Characteristics	Minimum Number required
1.	Excavator - hydraulic crawler or wheel mounted, 14.0 - 17.0t nominal wt. of machine	5
2.	Backhoe Loader	3
3.	Shovel Loader	3
4.	10 Ton Lorries/Tippers	20
5.	5m ³ concrete mixers	6
6.	0.75m ³ concrete dumpers	12
7.	40mm concrete vibrators	15
8.	Air compressor - Rated by Normal Delivery of Free Air per min at 7 kg per cm ²	5
9.	Crawler Dozer, 100 - 135 kW rated flywheel power	1
10.	(50mm inlet) Dewatering pumps	5
11.	40 Ton Mobile lift crane	1
12.	Reinforcement bending tools	3
13.	Motor Grader 111-120kW rated flywheel power	5
14.	Poulover mixer	1
15.	Asphalt concrete mixer/batching plant	1
16.	Asphalt concrete paver	1
17.	Water bowser 20,000l	4
18.	Bitumen sprayer up to 10,000l	2
19.	Steel drum (80T) and sheep foot vibrating rollers	4
20.	Survey Equipment <ul style="list-style-type: none"> • Total station with tripod and prism • Automatic level • 5m Ranging Rods • 100m Steel Tapes • 30m Steel Tapes • 5m Steel Tapes 	3 6 20 10 15 20
21.	10 Ton Pneumatic roller	5

No.	Equipment Type and Characteristics	Minimum Number required
22.	Butt Fusion Machine for HDPE pipe of 50mm Dia up to 200mm Dia.	2

The Bidder shall provide further details of proposed items of equipment using the relevant Form in Section IV.

Section IV - Bidding Forms

Section IV - Bidding Forms

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Letter of Bid

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

The Bidder must prepare this Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text is to help Bidders in preparing this form.

Date of this Bid submission: *[insert date (as day, month and year) of Bid submission]*

RFB No.: KE-NAIROBI COUNTY-377334-CW-RFB

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

To: *[insert complete name of Employer]*

- (a) **No reservations:** We have examined and have no reservations to the bidding document, including Addenda issued in accordance with ITB 8;
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
- (c) **Bid-Securing Declaration:** We have not been suspended nor declared ineligible by the Employer based on execution of a Bid-Securing Declaration or Proposal-Securing Declaration in the Employer's Country in accordance with ITB 4.7;
- (d) **Exploitation and Abuse (SEA) and/or Sexual Harassment (SH):** *[select the appropriate option from (i) to (v) below and delete the others].*

We *[where JV, insert: "including any of our JV members"]*, and any of our subcontractors:

- i. *[have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]*
- ii. *[are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]*
- iii. *[had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations. An arbitral award on the disqualification case has been made in our favor.]*
- iv. *[had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations for a period of two years. We have subsequently provided and demonstrated that we have adequate capacity and*

commitment to comply with SEA and SH prevention and response obligations.]

- v. [had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations for a period of two years. We have attached documents demonstrating that we have adequate capacity and commitment to comply with SEA and SH prevention and response obligations.]
- (e) **Conformity:** We offer to execute in conformity with the bidding document the following Works: [insert a brief description of the Works]
- (f) **Bid Price:** The total price of our Bid, excluding any discounts offered in item (f) below is: *[Insert one of the options below as appropriate]*
- [Option 1, in case of one lot:] Total price is: [insert the total price of the Bid in words and figures, indicating the various amounts and the respective currencies];*
- Or
- [Option 2, in case of multiple lots:] (a) Total price of each lot *[insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]*; and (b) Total price of all lots (sum of all lots) *[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies]*;*
- (g) **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) **Bid Validity:** Our Bid shall be valid until *[insert day, month and year in accordance with ITB 18.1]*, and it shall remain binding upon us and may be accepted at any time on or before this date;
- (i) **Performance Security:** If our Bid is accepted, we commit to obtain a performance security *[and an Environmental and Social (ES) Performance Security, **Delete if not applicable**]* in accordance with the bidding document;
- (j) **One Bid Per Bidder:** We are not submitting any other Bid(s) as an individual Bidder or as a subcontractor, and we are not participating in any other Bid(s) as a Joint Venture member, and meet the requirements of ITB 4.3, other than alternative Bids submitted in accordance with ITB 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 World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Employer's Country 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 ITB 4.6];*
- (m) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Bidding 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 Bid, together with your written acceptance thereof included in your Letter 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 Bid, the Most Advantageous Bid or any other Bid 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; and
- (q) **Adjudicator:** We accept the appointment of *[insert name proposed in Bid Data Sheet]* as the Adjudicator.

[or]

We do not accept the appointment of *[insert name proposed in Bid Data Sheet]* as the Adjudicator, and propose instead that *[insert name]* be appointed as Adjudicator, whose daily fees and biographical data are attached.

Name of the Bidder: **[insert complete name of person signing the Bid]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: ***[insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

** : Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid

Bills Of Quantities

A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Particular Conditions of Contract, Technical Specifications and Drawings.
2. The brief description of the items in the Bill of Quantities is purely for the purpose of identification, and in no way modifies or supersedes the detailed descriptions given in the conditions of Contract and Specifications for the full direction and description of work and materials.
3. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. 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 bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
4. There is no guarantee to the Contractor that he will be required to carry out all the quantities of work indicated under any one particular item or group of items in the Bill of Quantities.
5. The price and rates entered in the Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include cost of performance bond, all constructional plant to be used, contractors staff and labour, all insurances, supervision, compliance testing, Environment Health and Safety Compliances, materials, erection, maintenance of works, overheads and profits, taxes and duties together with all general risks, liabilities and obligations set out or implied in the Contract, transport, electricity and telephones, water, use and replenishment of all consumables, including those required under the Contract by the Engineer and his staff.
6. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
7. Any entry of "nil" or any other price or rate that shall render the Bid unresponsive in accordance with Clause 29 of the instructions to Bidders, unless deemed justifiably covered elsewhere in the Bills of Quantities, may lead to the entire Bid being rejected
8. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill 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.
9. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices

against each item in the priced Bill of Quantities and all works shall be done in accordance with the specifications and as directed by the Engineer.

10. Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Clause 13.5 of the Conditions of Contract.
11. The method of measurement of completed work for payment shall be in accordance with *Standard Specification for Road and Bridge Construction* of the Ministry of Transport and Communications, 1986.

The Other work items and Bills not incorporated in the *Standard Specification for Road and Bridge Construction* of the Ministry of Transport and Communications, 1986, to be measured under CESMM - 4.

- 12 "Authorized" "Directed" or "Approved" shall mean the authority, direction or approval of the Engineer.
13. Unless otherwise stated, all measurements shall be net taken on the finished work carried out in accordance with the details shown on the drawings or instructed, with no allowance for extra cuts or fills, waste or additional thickness necessary to obtain the minimum finished thickness or dimensions required in this contract. Any work performed in excess of the requirements of the plans and Specifications will not be paid for, unless ordered in writing by the Engineer.
- 14 Approved Pipeline Construction
 - The rates for pipes, pipe work and specials shall include for supply of all materials, setting of concrete blocks and hardwood wedges where specified, providing any temporary support that may be necessary, preparing ends of pipes for jointing and all labour in jointing, protection to detachable joints, cleaning pipelines and rectifying as specified, damage to surface coating. The rates shall also include for all cutting of pipes consequent upon structures, specials and fittings being constructed in the designated positions.
 - The rates for concrete surround, bed and haunching to pipes, concrete in anchor blocks to pipes, and to gully pots shall include for all formwork, required and for any additional concrete the Contractor may place for his own convenience or by reason of the method of carrying out the work.
 - Items for chambers and manholes shall be deemed to include the box out pipe work and associated fittings comprising the chamber and manhole body itself and not the fitting it houses for chambers.
 - Items for manholes with backdrops shall be deemed to include the pipe work and associated fittings comprising the backdrop.
 - Nominal trench width shall be taken as 500mm greater than the nominal distance between the inside faces of the water pipe walls where this distance does not exceed 1.0m and as 750mm greater than this distance where it exceeds 1.0m.

- Length of pipes entering manholes and other the chambers shall be measured to the inside surface of the chambers except that pipes and fittings comprising backdrops to manholes shall be included in items for manholes.
- Payment in respect of pipeline or sewer line construction will be made in increments corresponding to the stages of work completed to the satisfaction of the Project Manager as follows:
 - i. Stage 1 Completion of excavation, laying and jointing including partial backfilling of the trench in preparation for testing = 50%
 - ii. Stage 2 On satisfactory completion of the testing = 25%
 - iii. Stage 3 On completion of the backfilling of the trench and reinstatement = 25%

15. Units of Measurement and Abbreviations used herein shall have the following meanings:

Unit	Abbreviation	Unit	Abbreviation
cubic meter	m ³ or cu m	litre	L
hectare	ha	millimetre	mm
hour	hr	month	mth
kilogram	kg	number	No.
kilometre	Km	provisional sum	Prov Sum
lump sum	LSum.	square meter	m ² or sq m
prime cost	PC Sum	square millimetre	mm ² or sq mm
meter	m	vehicle	Veh
metric ton (1,000kg)	t	week	wk

The Bills of Quantities are presented as volume 3 of 3 as follows

Construction Of Roads/Footpaths, Storm Water Drainage Systems, Public Street Lighting And Sewer Infrastructure Works In Selected Informal Settlements Of Huruma Fire Victims 2, Mathare Fire Victims, Matopeni, Pumwani Majengo And Spring Valley All Within Nairobi City County.

Forms of Bid Security

Form of Bid Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary:

[Insert name and address of the Employer]

Request for Bids No: *_[Insert reference number for the Request for Bids]*

Date: *[Insert date of issue]*

BID 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 *[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of *[insert description of contract]* under Request for Bids No. *[insert number]* ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, Bids must be supported by a Bid 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 *[insert amount in letters] (insert amount in numbers)* upon receipt by us of the Beneficiary's complying supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- (a) has withdrawn its Bid prior to the Bid validity expiry date specified by the Applicant in the Letter of Bid, or any extended date provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary prior to the expiry date of the Bid validity or any extension thereto provided by the Applicant,
 - (i) fails to execute the contract agreement or
 - (ii) fails to furnish the performance security and, if required, the Environmental and Social (ES) Performance

Security, in accordance with the Instructions to Bidders (“ITB”) of the Beneficiary’s bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the contract agreement signed by the Applicant and the performance security and, if required, the Environmental and Social (ES) Performance Security, issued to the Beneficiary in relation to such contract agreement; and (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary’s notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days after the expiry date of the Bid validity.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.

[signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

Technical Proposal

Technical Proposal Forms - MANDATORY

- **Key Personnel Schedule**
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- **Construction Schedule**
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- **Code of Conduct (ES)**
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FORM PER -1

Key Personnel Schedule

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

Key Personnel

1.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart]</i>
2.	Title of position: <i>[Environmental Specialist]</i>	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart]</i>
3.	Title of position: <i>[Health and Safety Specialist]</i>	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart]</i>
4.	Title of position: <i>[Social Specialist]</i>	

	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart]</i>
5.	Title of position: Sexual Exploitation, Abuse and Harassment Expert <i>[Where a Project SEA risks are assessed to be substantial or high, Key Personnel shall include an expert with relevant experience in addressing sexual exploitation, sexual abuse and sexual harassment cases]</i>	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart]</i>
6.	Title of position: <i>[insert title]</i>	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart]</i>

Form PER-2:

Resume and Declaration

Key Personnel

Name of Bidder

Position [# 1]: [title of position from Form PER-1]		
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: <i>[language and levels of speaking, reading and writing skills]</i>	
details		
	Address of employer:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present employer:

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

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

Declaration

I, the undersigned Key Personnel, certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

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

Commitment	Details
Commitment to duration of contract:	<i>[insert period (start and end dates) for which this Key Personnel is available to work on this contract]</i>
Time commitment:	<i>[insert the number of days/week/months/ that this Key Personnel will be engaged]</i>

I understand that any misrepresentation or omission in this Form may:

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

Name of Key Personnel: *[insert name]*

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day month year): _____

Equipment

The Bidder 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 Bidder. The Bidder shall provide all the information requested below, to the extent possible. Fields with asterisk (*) shall be used for evaluation.

Type of Equipment*		
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 <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

The following information shall be provided only for equipment not owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

Site Organization

[insert Site Organization information]

Method Statement

[insert Method Statement]

Mobilization Schedule

[insert Mobilization Schedule]

Construction Schedule

[insert Construction Schedule]

ES Management Strategies and Implementation Plans

(ES-MSIP)

The Bidder shall submit comprehensive and concise Environmental and Social Management Strategies and Implementation Plans (ES-MSIP) as required by ITB 11.1 (i) of the Bid Data Sheet. These strategies and plans shall describe in detail the actions, materials, equipment, management processes etc. that will be implemented by the Contractor, and its subcontractors.

In developing these strategies and plans, the Bidder shall have regard to the ES provisions of the contract including those as may be more fully described in the Works Requirements in Section VII.

Code of Conduct for Contractor’s Personnel (ES) Form

Note to the Employer:

The following minimum requirements shall not be modified. The Employer may add additional requirements to address identified issues, informed by relevant environmental and social assessment.

The types of issues identified could include risks associated with: labor influx, spread of communicable diseases, and Sexual Exploitation and Abuse (SEA), Sexual Harassment (SH)etc.

Delete this Box prior to issuance of the bidding documents.

Note to the Bidder:

The minimum content of the Code of Conduct form as set out by the Employer shall not be substantially modified. However, the Bidder may add requirements as appropriate, including to take into account Contract-specific issues/risks.

The Bidder shall initial and submit the Code of Conduct form as part of its bid.

CODE OF CONDUCT FOR CONTRACTOR’S PERSONNEL

We are the Contractor, [enter name of Contractor]. We have signed a contract with [enter name of Employer] for [enter description of the Works]. These Works will be carried out at [enter the Site and other locations where the Works will be carried out]. Our contract requires us to implement measures to address environmental and social risks related to the Works, including the risks of sexual exploitation, sexual abuse and sexual harassment.

This Code of Conduct is part of our measures to deal with environmental and social risks related to the Works. It applies to all our staff, laborers and other employees at the Works Site or other places where the Works are being carried out. It also applies to the personnel of each subcontractor and any other personnel assisting us in the execution of the Works. All such persons are referred to as “**Contractor’s Personnel**” and are subject to this Code of Conduct.

This Code of Conduct identifies the behavior that we require from all Contractor’s Personnel.

Our workplace is an environment where unsafe, offensive, abusive or violent behavior will not be tolerated and where all persons should feel comfortable raising issues or concerns without fear of retaliation.

REQUIRED CONDUCT

Contractor's Personnel shall:

1. carry out his/her duties competently and diligently;
2. comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Contractor's Personnel and any other person;
3. maintain a safe working environment including by:
 - a. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
 - b. wearing required personal protective equipment;
 - c. using appropriate measures relating to chemical, physical and biological substances and agents; and
 - d. following applicable emergency operating procedures.
4. report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to his/her life or health;
5. treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
6. not engage in Sexual Harassment, which means unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature with other Contractor's or Employer's Personnel;
7. not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;
8. not engage in Sexual Abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
9. not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
10. complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, and Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH);
11. report violations of this Code of Conduct; and
12. not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Employer, or who makes use of the grievance mechanism for Contractor's Personnel or the project's Grievance Redress Mechanism.

RAISING CONCERNS

If any person observes behavior that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

1. Contact [*enter name of the Contractor's Social Expert with relevant experience in handling gender-based violence, or if such person is not required under the Contract, another individual designated by the Contractor to handle these matters*] in writing at this address [] or by telephone at [] or in person at []; or
2. Call [] to reach the Contractor's hotline (*if any*) and leave a message.

The person's identity will be kept confidential, unless reporting of allegations is mandated by the country law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take seriously all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behavior prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

CONSEQUENCES OF VIOLATING THE CODE OF CONDUCT

Any violation of this Code of Conduct by Contractor's Personnel may result in serious consequences, up to and including termination and possible referral to legal authorities.

FOR CONTRACTOR'S PERSONNEL:

I have received a copy of this Code of Conduct written in a language that I comprehend. I understand that if I have any questions about this Code of Conduct, I can contact [*enter name of Contractor's contact person with relevant experience*] requesting an explanation.

Name of Contractor's Personnel: [insert name]

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Contractor:

Signature: _____

Date: (day month year): _____

ATTACHMENT 1: Behaviors constituting Sexual Exploitation and Abuse (SEA) and behaviors constituting Sexual Harassment (SH)

ATTACHMENT 1 TO THE CODE OF CONDUCT FORM**BEHAVIORS CONSTITUTING SEXUAL EXPLOITATION AND ABUSE (SEA) AND BEHAVIORS CONSTITUTING SEXUAL HARASSMENT (SH)**

The following non-exhaustive list is intended to illustrate types of prohibited behaviors:

(1) **Examples of sexual exploitation and abuse** include, but are not limited to:

- A Contractor's Personnel tells a member of the community that he/she can get them jobs related to the work site (e.g. cooking and cleaning) in exchange for sex.
- A Contractor's Personnel that is connecting electricity input to households says that he can connect women headed households to the grid in exchange for sex.
- A Contractor's Personnel rapes, or otherwise sexually assaults a member of the community.
- A Contractor's Personnel denies a person access to the Site unless he/she performs a sexual favor.
- A Contractor's Personnel tells a person applying for employment under the Contract that he/she will only hire him/her if he/she has sex with him/her.

(2) **Examples of sexual harassment in a work context**

- Contractor's Personnel comment on the appearance of another Contractor's Personnel (either positive or negative) and sexual desirability.
- When a Contractor's Personnel complains about comments made by another Contractor's Personnel on his/her appearance, the other Contractor's Personnel comment that he/she is "asking for it" because of how he/she dresses.
- Unwelcome touching of a Contractor's or Employer's Personnel by another Contractor's Personnel.
- A Contractor's Personnel tells another Contractor's Personnel that he/she will get him/her a salary raise, or promotion if he/she sends him/her naked photographs of himself/herself.

Others

Bidder's Qualification

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

Form ELI -1.1: Bidder Information Form

Date: _____
 RFB No. _____ and title: _____
 Page _____ of _____ pages

Bidder's name
Bidder's actual or intended country of registration: <i>[indicate country of Constitution]</i>
Bidder's actual or intended year of incorporation:
Bidder's legal address [in country of registration]:
Bidder's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____
<p>1. Attached are copies of original documents of</p> <ul style="list-style-type: none"> ➤ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.4. ➤ In case of state-owned enterprise or institution, in accordance with ITB 4.6 documents establishing: <ul style="list-style-type: none"> • Legal and financial autonomy • Operation under commercial law • Establishing that the Bidder is not under the supervision of the Employer <p>2. Included are the organizational chart, a list of Board of Directors.</p>

Form ELI -1.2: Information Form for JV Bidders

(to be completed for each member of Joint Venture)

Date: _____
 RFB No. and title: _____
 Page _____ of _____

Bidder's Joint Venture 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: _____

1. Attached are copies of original documents of

- Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4.
- In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and is not under the supervision of the Employer, in accordance with ITB 4.6.

2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. *[If required under BDS ITB 47.1, the successful Bidder shall provide additional information on beneficial ownership for each JV member using the Beneficial Ownership Disclosure Form.]*

Form CON – 2:

Historical Contract Non-Performance, Pending Litigation and Litigation History

Bidder's Name: _____

Date: _____

RFB No. and title: _____

Page _____ of _____ pages

Non-Performed Contracts in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> Contract non-performance did not occur since 1 st January <i>[insert year]</i> <input type="checkbox"/> Contract(s) not performed since 1 st January <i>[insert year]</i>			
Year	Non-performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and US\$ equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
Pending Litigation, in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> No pending litigation <input type="checkbox"/> Pending litigation.			

Year of dispute	Amount of dispute in (currency)	Contract Identification	Total Contract Amount (currency), USD Equivalent (exchange rate)
		Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
		Contract Identification: Name of Employer: Address of Employer: Matter in dispute: Party who initiated the dispute: Status of dispute:	
Litigation History in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> No Litigation History <input type="checkbox"/> Litigation History			
Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), USD Equivalent (exchange rate)

<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Employer" or "Contractor"]</i> Reason(s) for Litigation and award decision <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
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Form CON – 3:

Environmental and Social Performance Declaration

[The following table shall be filled in for the Bidder, each member of a Joint Venture and each Specialized Subcontractor]

Bidder's Name: *[insert full name]*
 Date: *[insert day, month, year]*
 RFB No. and title: *[insert RFB number and title]*
 Page *[insert page number]* of *[insert total number]* pages

Environmental and Social Performance Declaration in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> No suspension or termination of contract: An employer has not suspended or terminated a contract and/or called the performance security for a contract for reasons related to Environmental, or Social (ES) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 2.5.			
<input type="checkbox"/> Declaration of suspension or termination of contract: The following contract(s) has/have been suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental, or Social (ES) performance since the date specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 2.5. Details are described below:			
Year	Suspended or terminated portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and US\$ equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) f or suspension or termination: <i>[indicate main reason(s) e.g. for gender-based violence; sexual exploitation or sexual abuse breaches]</i>	<i>[insert amount]</i>
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i>	<i>[insert amount]</i>

		Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for suspension or termination: <i>[indicate main reason(s)]</i>	
...	...	<i>[list all applicable contracts]</i>	...
Performance Security called by an employer(s) for reasons related to ES performance			
Year	Contract Identification		Total Contract Amount (current value, currency, exchange rate and US\$ equivalent)
<i>[insert year]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for calling of performance security: <i>[indicate main reason(s) e.g. for gender-based violence; sexual exploitation, or sexual abuse breaches]</i>		<i>[insert amount]</i>

Form CON – 4 Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment Performance Declaration

[The following table shall be filled in by the Bidder, each member of a Joint Venture and each subcontractor proposed by the Bidder]

Bidder's Name: *[insert full name]*
 Date: *[insert day, month, year]*
 RFB No. and title: *[insert RFB number and title]*
 Page *[insert page number]* of *[insert total number]* pages

SEA and/or SH Declaration

in accordance with Section III, Evaluation and Qualification Criteria

We:

- (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations
- (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations
- (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations. An arbitral award on the disqualification case has been made in our favor.
- (d) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations for a period of two years. We have subsequently demonstrated that we have adequate capacity and commitment to comply with SEA/ SH obligations.
- (e) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations for a period of two years. We have attached evidence demonstrating that we have adequate capacity and commitment to comply with SEA/ SH obligations.

[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]

[If (d) or (e) above are applicable, provide the following information:]

Period of disqualification: From: _____ To: _____

If previously provided on another Bank financed works contract, details of evidence that demonstrated adequate capacity and commitment to comply with SEA/ SH obligations (as per (d) above)

Name of Employer: _____

Name of Project: _____

Contract description: _____

Brief summary of evidence provided: _____

Contact Information: (Tel, email, name of contact person): _____

As an alternative to the evidence under (d), other evidence demonstrating adequate capacity and commitment to comply with SEA/ SH obligations (as per (e) above) [attach details as appropriate].

Form CCC: Current Contract Commitments / Works in Progress

Bidders 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.

Name of contract	Employer, contact address/tel/fax	Value of outstanding work (current US\$ equivalent)	Estimated completion date	Average monthly invoicing over last six months (US\$/month)
1.				
2.				
3.				
4.				
5.				
etc.				

Form FIN – 3.1: Financial Situation and Performance

Bidder's Name: _____
 Date: _____
 RFB No. and title: _____
 Page _____ of _____ pages

1. Financial data

Type of Financial information in (currency)	Historic information for previous _____ years, (amount in currency, currency, exchange rate, USD equivalent)				
	Year 1	Year 2	Year 3	Year 4	Year 5
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					

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.	Source of finance	Amount (US\$ equivalent)
1		
2		
3		

3. Financial documents

The Bidder and its parties shall provide copies of financial statements for _____ years pursuant Section III, Evaluation and Qualifications Criteria, Sub-factor 3.2. The financial statements shall:

- (a) reflect the financial situation of the Bidder
- (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 statements¹ for the _____ years required above; and complying with the requirements

¹ If the most recent set of financial statements is for a period earlier than 12 months from the date of bid, the reason for this should be justified.

Form FIN - 3.2: Average Annual Construction Turnover

Bidder's Name: _____
 Date: _____
 RFB No. _____ and title: _____
 Page _____ of _____ pages

		Annual turnover data (construction only)	
Year	Amount Currency	Exchange rate	USD equivalent
<i>[indicate year]</i>	<i>[insert amount and indicate currency]</i>		
Average Annual Construction Turnover *			

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

Form FIN - 3.3: Financial Resources

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

Source of financing	Amount (US\$ equivalent)
1.	
2.	
3.	
4.	

Form EXP - 4.1: General Construction Experience

Bidder's Name: _____
 Date: _____
 RFB No. _____ and title: _____
 Page _____ of _____ pages

Starting Year	Ending Year	Contract Identification	Role of Bidder
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	

Form EXP - 4.2(a): Specific Construction and Contract Management Experience

Bidder's Name: _____
 Date: _____
 RFB No. _____ and title: _____
 Page _____ of _____ pages

Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor <input type="checkbox"/>	Member in JV <input type="checkbox"/>	Management Contractor <input type="checkbox"/>	Sub-contractor <input type="checkbox"/>
Total Contract Amount			US\$ *	
If member in a JV or subcontractor, specify participation in total Contract amount			*	
Employer's Name:				
Address:				
Telephone/fax number				
E-mail:				

**Form EXP - 4.2(a) (cont.)
Specific Construction and Contract Management
Experience (cont.)**

Similar Contract No.	Information
Description 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

Bidder's Name: _____

Date: _____

Subcontractor's Name² (as per ITB 34.2 and 34.3): _____

RFB No. _____ and title: _____

Page _____ of _____ pages

Subcontractor's Name (as per ITB 34.2 and 34.3): _____

All subcontractors for key activities must complete the information in this form as per ITB 34.2 and 34.3 and Section III, Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: _____

Information				
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor <input type="checkbox"/>	Member in JV <input type="checkbox"/>	Management Contractor <input type="checkbox"/>	Sub-contractor <input type="checkbox"/>
Total Contract Amount			US\$	
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage participation (ii)		Actual Quantity Performed (i) x (ii)
Year 1				
Year 2				
Year 3				
Year 4				

² If applicable.

Employer's Name:	
Address:	
Telephone/fax number	
E-mail:	

	Information
Employer's Name:	
Address:	
Telephone/fax number	
E-mail:	

	Information
Description of the key activities in accordance with Sub-Factor 4.2(b) of Section III:	

2. Activity No. Two

3.

Form EXP - 4.2(c): Specific Experience in Managing ES aspects

[The following table shall be filled in for contracts performed by the Bidder, and each member of a Joint Venture]

Bidder's Name: _____
 Date: _____
 RFB No. and title: _____
 Page _____ of _____ pages

1. Key Requirement no 1 in accordance with 4.2 (c): _____

Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor <input type="checkbox"/>	Member in JV <input type="checkbox"/>	Management Contractor <input type="checkbox"/>	Subcontractor <input type="checkbox"/>
Total Contract Amount			US\$	
Details of relevant experience				

2. Key Requirement no 2 in accordance with 4.2 (c): _____

3. Key Requirement no 3 in accordance with 4.2 (c): _____

Section V - Eligible Countries

Section V - Eligible Countries

Eligibility for the Provision of Goods, Works and Services in Bank-Financed Procurement

In reference to ITB 4.8, and 5.1, for the information of the Bidders, at the present time firms, goods and services from the following countries are excluded from this Bidding process:

Under ITB 4.8 (a) and 5.1 *[insert a list of the countries following approval by the Bank to apply the restriction or state “none”]*

Under ITB 4.8 (b) and 5.1 *[insert a list of the countries following approval by the Bank to apply the restriction or state “none”]*

Section VI - Fraud and Corruption

Section VI - Fraud and Corruption

(Section VI shall not be modified)

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (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, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, 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:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation 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

- (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.
- b. Rejects a proposal for award if the Bank 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;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹ (ii) to be a nominated² sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents personnel, permit the Bank to inspect all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

¹ For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

² A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

PART 2 – Works' Requirements

Section VII - Works' Requirements

Section VII - Works' Requirements

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Scope of Works

CONTRACT:

CONSTRUCTION OF ROADS/FOOTPATHS, STORM WATER DRAINAGE SYSTEMS, PUBLIC STREET LIGHTING AND SEWER INFRASTRUCTURE WORKS IN SELECTED INFORMAL SETTLEMENTS OF HURUMA FIRE VICTIMS 2, MATHARE FIRE VICTIMS, MATOPENI, PUMWANI MAJENGO AND SPRING VALLEY ALL WITHIN NAIROBI CITY COUNTY.

Scope of Works for Huruma Fire Victims 2, Mathare Fire Victims, Matopeni, Pumwani Majengo and Spring Valley Settlements

(a) Roads, Footpath and Drainage System – Nairobi City County

	Name of Settlement	Road Name	Drawing Reference No.	Road Length (m)	Carriageway Width (m)
1	Huruma Fire Victims	HRM RD01	WMCL/CR214/HRM/PP/01	207	5.5
		HRM RD02	WMCL/CR214/HRM/PP/02	202	5.5
		HRM RD03	WMCL/CR214/HRM/PP/03	147	5.5
		HRM RD04	WMCL/CR214/HRM/PP/04	52	6
		HRM RD06	WMCL/CR214/HRM/PP/06	181	6
		HRM RD07	WMCL/CR214/HRM/PP/07	129	4.5
2	Mathare Fire Victims	MFV RD01	WMCL/CR214/MFV/PP/01	149	5.5
		MFV RD02	WMCL/CR214/MFV/PP/02	57	4.5
		MFV RD03	WMCL/CR214/MFV/PP/02	42	5.5
		MFV FT01	WMCL/CR214/MFV/PP/03	39	1.5
		MFV FT02	WMCL/CR214/MFV/PP/03	39	1.5
		MFV FT03	WMCL/CR214/MFV/PP/03	41	1.5
		MFV FT04	WMCL/CR214/MFV/PP/03	43	1.5
		MFV DRAIN	WMCL/CR214/MFV/PP/04	166	N/A
3	Pumwani Majengo	PMMJ RD01	WMCL/CR214/PMMJ/PP/01	262	5.5
		PMMJ RD02	WMCL/CR214/PMMJ/PP/02	173	6.0
		PMMJ RD03	WMCL/CR214/PMMJ/PP/03	156	6.0
		PMMJ RD05	WMCL/CR214/PMMJ/PP/05	230	4.5
4	Spring Valley	SPRV RD001	WMCL/CR214/SPRV/PP/014	273	5.5
		SPRV RD001A	WMCL/CR214/SPRV/PP/015	320	5.5

	Name of Settlement	Road Name	Drawing Reference No.	Road Length (m)	Carriageway Width (m)
		SPRV RD002	WMCL/CR214/SPRV/PP/016	334	5.5
		SPRV RD003	WMCL/CR214/SPRV/PP/017	250	5.5
		SPRV DRAIN	WMCL/CR214/SPRV/PP/017	345	N/A
5	Matopeni	A1-Sanford Rd01	WMCL/CR214/MAT/PP/02	561	5.5
		Sanford-Boston Rd01a	WMCL/CR214/MAT/PP/02	139	5.5
		Portfolio-Main Rd02	WMCL/CR214/MAT/PP/03	297	5.5
		Portfolio-Kasyoka Rd02a	WMCL/CR214/MAT/PP/04	350	5.5
		Portfolio-Sokoni Rd03	WMCL/CR214/MAT/PP/05	470	5.5
		Drain 1&2	WMCL/CR214/MAT/PP/07	805	

The **Road works** entail.

- Carriage way of varied widths between 3m to 5.5m specific to each Alignment
- Pavement structure **Matopeni and Spring Valley** comprising of;
 - **Surfacing:** The surfacing will consist of: -
 - (i) **50mm** Asphalt Concrete Type II.
 - **The Base: 150mm** Hand Packed Stone and an overlay of 50mm quarry dust compacted with a vibratory roller to fill in the voids
 - **Subbase: 125mm**, Neat Gravel.
 - **Sub Grade: 300mm** improved subgrade of S3 quality minimum CBR of 10%, compacted to 100% MDD (T99) in layers of not more than 150mm thickness

The **Road works** entail.

- Carriage way of varied widths between 3m to 6.0m specific to each Alignment
- Pavement structure **Huruma Fire Victims 2 and part of Pumwani Majengo** comprising of;
 - **Surfacing:** The surfacing will consist of: -
 - (ii) **50mm** Asphalt Concrete Type II.
 - **The Base: 150mm** Hand Packed Stone and an overlay of 50mm quarry dust compacted with a vibratory roller to fill in the voids
 - **Subbase: 150mm**, Neat Gravel.
 - **Sub Grade: 300mm** improved subgrade of S3 quality minimum CBR of 10%, compacted to 100% MDD (T99) in layers of not more than 150mm thickness

The **Road works** entail.

- Carriage way of varied widths between 3m to 6.0m specific to each Alignment

- Pavement structure **Mathare Fire Victims and Part of Pumwani Majengo** comprising of;
 - **Surfacing:** The surfacing will consist of: -
 - (i) **80mm** Thick Heavy Duty Paving Blocks.
 - (ii) **60mm** Thick Medium Duty Concrete Paving Bocks
 - **The Base: 150mm** Hand Packed Stone and an overlay of 50mm quarry dust compacted with a vibratory roller to fill in the voids
 - **Subbase: 150mm**, Neat Gravel.
 - **Sub Grade: 300mm** improved subgrade of S3 quality minimum CBR of 10%, compacted to 100% MDD (T99) in layers of not more than 150mm thickness

The **Footpaths/Walkway works** in all the settlements shall comprise of:-

- **Surfacing:** The surfacing will consist of: -
 - (i) **60mm Medium Duty Coloured Concrete Paving Blocks of minimum 35N/mm²**
- Similar pavement structure as the carriage way and
- Concrete slotted rectangular closed drain with covers.

The **Drainage system construction works** shall include;

- Cross pipe culverts and access culverts
- Lined rectangular closed drains

(b) Street Lighting Works

The **Street Lighting works** shall comprise of installation of **338** Nr. Street lights with the following works being carried out;

- Pad foundation concrete works for mounting of street light column
- Installation of 10m high round section tapering concrete column with single – arm street lighting from Class-C galvanized steel pipe as per the detailed drawings
- Supply and Installation of integrated solar street light fittings as per the detailed drawings and specifications

(c) Sewer Line Works

The Sewer works shall comprise of installation of 300mm dia. Precast Concrete Pipe with the following works being carried out;

- Total Length of **1005m** of Precast Concrete Pipes
- **5** total Number of Concrete Manholes less than 1.5m deep with covers.
- **28** total Number of Concrete Manholes of 1.5m – 2.5m deep with covers.

- **5** total Number of Concrete Manholes of 2.5m – 3.5m deep with covers.
- **4** total Number of Concrete Manholes greater than 3.5m deep with covers.

Specification

A: Standard Specification

The Standard Specification referred to in this document is the ***Standard Specifications for Road and Bridge Construction, 1986 Edition*** published by the Ministry of Transport and Communications.

This document shall form part of the Contract. Work shall be carried out in accordance with the Standard Specification except as supplemented or revised in the Special Specification.

B: Special Specifications

B-1: Special Specifications for Roads

B-I: SPECIAL SPECIFICATION FOR ROADS/FOOTPATHS AND DRAINAGE WORKS

SECTION 1 – GENERAL

Add following new Clause 100:

100 PREAMBLES TO THE SPECIFICATIONS

Special specification is supplementary to the Standard Specifications for Road and Bridge Construction, 1986 Edition and the two must be read in conjunction. In any case where there appears to be conflict between the two then the Special Specifications will take precedence.

101 LOCATIONS AND EXTENT OF WORKS

101.1 Description of the Project

This project is a construction of approximately 5.4 Km of Roads/Footpath & Drainage system and 338 Nr of integrated solar street lights in informal Settlements of Huruma Fire Victims 2, Mathare Fire Victims, Matopeni, Pumwani Majengo and Spring Valley, All Within Nairobi City County.

101.2 The Site

(a) Location of the project sites

Project is located in Settlements of Huruma Fire Victims 2, Mathare Fire Victims, Matopeni, Pumwani Majengo and Spring Valley, All Within Nairobi City County. The sites of the Works shall be the area demarcated as the Road reserve and any other place as may be designated in the Contract.

(b) Access Facilities

Without limiting any of his obligations or responsibilities under the Contract, the Contractor will be deemed to have obtained all necessary information pertaining to and to have complied with all laws, regulations and procedures governing the use of national and international facilities. These facilities are such as access, transport, handling and storage facilities, including roads, railroads, harbours airports, airways, border crossings and the like for the due fulfilment of the Contract.

The Contractor shall use every reasonable means to ensure that all loading limits and other limitations on roads are observed, and in the event of moving any load of equipment or pre-construction unit or part of the Works, the Contractor shall before move the load obtain all necessary permits and approvals from relevant authorities and comply with all lawful requirements.

The Contractor shall fully acquaint himself with the conditions of inland transportation to the Site, including clearances, restrictions, bridge-load limits, and other limitations that affect or may affect transportation and ingress and egress at the Site.

The Contractor shall construct and maintain at his own expense any additional temporary roads and structures required by him for the purpose of the Works. Furthermore, he shall make any necessary repairs or replacements as the case may be to any structure on route which has been damaged by the Contractor as the result of his own negligence. Such repair or replacements shall be satisfactory to the Engineer or the appropriate government authorities.

(c) Basic Data

The natural conditions such as climatological and hydrological data, water levels, topography, and geological conditions related to the Site and the structures to be built are not presented in the Bid Documents. However, Topographical survey data and Geological conditions data can be availed by the Engineer upon request during Construction. Nevertheless, provision and subsequent use of such data shall not exempt the Contractor from his obligations under contract.

101.3 Use of the Site

(a) Designated Areas

Specific areas forming the Site, as shown on the Drawings, have been designated to be used for working areas.

Use of additional site areas for such other facilities such as quarrying operations, borrow pits, spoil areas, offices, workshops, storage, batch plants, etc. as may be required by the Contractor but not already designated by the Engineer shall be subject to the prior consent of the Engineer regarding extent, access, program and layout.

All roads external to the fenced off areas of the Site shall be deemed public roads whether or not built or maintained by the Contractor. The Contractor shall therefore have due regard to the laws and regulations, traffic rules including loading limits governing public roads as well as the provisions of the Contract. The Employer shall have rights to allow any local authorities to enter the fenced areas with a prior notice to the Contractor where necessary for undertaking their duties.

The Contractor shall not use the Site for any purpose other than that of executing the Works or for that purpose for which it has been designated and shall confine his operations to within these areas unless otherwise approved in writing by the Engineer.

(b) Ownership of Natural Materials and Structures

Earth, stone, gravel and sand, and all other materials excavated or existing on the Site or the access roads, shall not become the property of the Contractor, but will be at his disposal only so far as they are approved for use in the Works. Existing structures on

the Site or the access roads shall remain the property of the Employer and, except as and to the extent required elsewhere in the Contract, shall not be interfered with by the Contractor in any way.

102 EXTENT OF CONTRACT

(a) Construction Works Packages

This works shall be executed in **ONE** Lot.

(b) Scope of Works for This Contract:

The works to be executed under the contract consist of, but are not limited to the following:

1. Provision of Quality control laboratory for the Engineer.
2. Setting out and construction control
3. Maintenance of the temporary road, passage of traffic through the works and rendering all possible assistance to the public and other Contractors when passing through the deviations or main works.
4. General Construction Works of Roads/Footpath, Drainage, Water Supply and Street lighting as detailed in the Drawings
 - i. Site Clearance of working area within the road reserve
 - ii. Topsoil stripping
 - iii. Scarification and compaction of subgrade
 - iv. Earthworks comprising excavations/cuts and fills
 - v. Protection works and provision of longitudinal drainage ditches (lined and unlined)
 - vi. Provision of vertical drains and pipe culverts, with appropriate inlet and outlet features and scour protection works
 - vii. Construction of single carriageway comprising:
 - 3.0m to 6.0m varied widths
 - viii. Road pavement Layers comprising:
 - **Surfacing:** The surfacing will consist of: -
 - (i) 50mm Asphalt Concrete Type II.
 - (ii) 60mm medium duty Interlocking Concrete Paving Blocks
 - (iii) 80mm Heavy duty Interlocking Concrete Paving Blocks
 - **The Base:** 150mm Hand Packed Stone and an overlay of 50mm quarry dust compacted with a vibratory roller to fill in the voids
 - **Subbase:** 150mm and 125mm, Neat Gravel.
 - **Sub Grade:** 300mm improved subgrade of S3 quality minimum CBR of 10%, compacted to 100% MDD (T99) in layers of not more than 150mm thickness

The **Footpaths/Walkway works** shall comprise of 60 mm Medium Duty Coloured Concrete paving blocks surfacing with similar

- pavement structure as the carriage way and slotted closed drain covers.
- ix. Provision and erection of road furniture and road markings, and other miscellaneous works.
 - x. Installation of Nos. 338 Integrated solar street lighting scheme.
 - xi. Provision of sewer works (1005m length) in Huruma Fire Victims 2
 - xii. Rectification of defects affecting the completed works for a period of 12 months.

The Works detailed above are only indicative of the Scope of Works associated with this contract and the Engineer may, where necessary, substitute some of the Works with others within the project areas without substantially altering the overall Scope of the Works. Work shall be measured and paid using the relevant rates and prices in the Bill of Quantities.

103 PROGRAMME OF EXECUTION OF THE WORKS

The contractor shall provide the works programme, required under clause 8.3 of the Conditions of Contract, within 28 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 programme shall be drawn using the Critical Path Method (CPM) or Programme Evaluation and Review Technique (PERT). No other form of programme shall be allowed or approved.

In addition, and as a compliment to the Programme, the Contractor shall submit at the same time, schedules of Contractor's Equipment and labour indicating the projected numbers and types of Contractor's Equipment and labour to be utilized on the works to enable compliance with the Programme. The Schedules shall be itemized under the same heads of items of work as are used in the programme.

The Programme shall include as a minimum the following activities:

- Mobilization including provision of services to the Engineer
- Confirmation of quantities and placing of orders
- Erection of materials storage sites and facilities
- Procurement of major materials for the works
- Execution of various sections of works

The information to be supplied to the Engineer shall include but not be limited to drawings showing the general arrangements of the temporary offices and any other temporary building or structures which he proposes to use together with details of the constructional plant and temporary works and all other devices which he proposes to adopt for the construction and completion of the labour strength, skilled and unskilled labour and supervision arrangements.

The whole of the temporary works, plant, equipment and appliances used on the works will be the liability of the Contractor in regard to construction sufficiency, safety and maintenance. The Engineer's approval shall in no way relieve the Contractor of this liability.

The order in which it is proposed to execute the permanent works is subject to adjustment and approval by the Engineer and the Contractor's price shall be held to include for any reasonable and necessary adjustments required by the Engineer during the course of the work.

The main Contractor will be responsible for arranging the above programme with all sub-contractors including the nominated suppliers. When preparing this programme the Contractor shall take due account of the time required for the delivery of any imported material.

The Contractor shall carry out the works 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 fulfil his obligations.

104 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.

105 SUBMISSIONS TO THE ENGINEER

Drawings

It shall be the Contractor's responsibility to prepare and submit to the Engineer for his approval the following drawings.

- Drawings, which in the opinion of the Engineer are needed to explain methods and details of work to be carried out by the Contractor, which are altered, compared to or not sufficiently illustrated by the Contract Drawings or any further drawings supplied by the Engineer.
- As-built drawings showing the actual construction of the permanent works under the Contract based on survey carried out by the Contractor.
- The cost for the above drawings including two copies shall be borne by the Contractor and be included in his price.

Contractor's Site Diary

The Contractor shall provide and keep permanently on the site a diary in which he shall record full details of all work carried out each day. Such details shall include the following.

- a. Location of various works undertaken
- b. Type and quality of work achieved with specific record of construction of formwork, pouring concrete, striking of formwork, pipes lay, back filling etc.
- c. Inspections carried out by the Engineer.
- d. Tests carried out with results.
- e. Numbers of employees and plant working, noting any absence of persons at foreman Level and above.
- f. Weather conditions.

Contractor shall record details of formwork, construction, placing of reinforcement, concreting and curing operations, striking of formwork, making good and daily temperature and weather conditions. This diary shall always be available for inspection by the Engineer.

SITE BOOKS AND STANDARDS

Instructions to be recorded

The Contractor shall provide and keep permanently on the Site a numbered triplicate book wherein the Contractor shall record all instructions relating to work issued by the Engineer. One copy of every entry therein shall be sent to the Engineer on the same day as the entry is made.

107 TAKING OVER CERTIFICATE

Taking over certificate will be issued for the whole length of continuous road substantially completed.

108 METHOD OF CONSTRUCTION

The Engineer's normal working hours shall be 8 hours from Monday to Friday and 5 hours on Saturday with Sunday set aside for rest.

If the Contractor wishes to execute permanent works outside these hours, he shall meet any extra costs arising thereof in addition to giving a day's notice in writing.

109 NOTICES 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.

Explosive 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 explosives, ancillary materials and all other items of related kind whatsoever required for blasting.

110 UNITS OF MEASUREMENTS, ABBREVIATIONS AND TERMINOLOGY

Units

Metric units shall be used on all drawings and for all calculations, flow capacities, instruments, etc. Some of the existing Plant may have been supplied to Imperial dimensions.

Where these are quoted in the Specification or shown on the Drawings they are given for reference and identification, and the equivalent metric units shall be used for all new Plant and on drawings.

111 NATIONAL SPECIFICATIONS

Each and every part of the Works shall be designed, constructed, manufactured, tested and installed in accordance with national or internationally recognized Standard, Code of Practice, or Regulation applicable to that part of the Works.

Such standards, etc. shall include:

- a. Kenya Standards (KS)
- b. International Organisation for Standardisation (ISO).
- c. European Standards (EN)
- d. British Standard (BS).
- e. Deutches Institute for Normung (DIN)
- f. South African Bureau of Standards (SABS)
- g. International Electro-technical Commission, where available (IEC).
- h. Other national or international or other authoritative standards equivalent or superior to those designated in the Specifications.

The Contractor shall demonstrate to the Engineer's satisfaction the equivalence or superiority of any item of Plant supplied to such alternative standards.

All standards shall be the latest published and shall include amendments, which are current at the date of manufacture or construction (as applicable). In the case of category (e) approval must be given in writing by the Engineer, and the Contractor shall familiarize himself with the requirements of these standards. The Contractor shall supply to the Engineer four copies in the English language of all such standards prior to approval by the Engineer.

Electrical diagrams and symbols on drawings shall comply with IEC 617.

Electrical systems shall comply with requirements and regulations of the public electricity supply authority. Electrical installations in buildings shall comply with the local regulations pertaining to such installations. The Contractor shall be deemed to have acquainted himself with such requirements and ensured that all electrical systems comply therewith.

Plant for the electrical installation shall additionally comply with the Regulations of the Institution of Electrical Engineers (Great Britain) for the Electrical Equipment of Buildings (Fifteenth Edition) with amendments. In the case of conflict between the various regulations, the regulations recommended by the Kenya Bureau of Standards (KBS) shall take

Copies of Standards

Within 60 days of acceptance of the Tender, the Contractor shall provide to the Engineer copies of all National and International Standards which are to apply to the Plant, Materials and Workmanship under the Contract, together with an index cross-referencing these standards with the applicable aspects of the works.

The Contractor shall in addition provide and keep permanently on the Site copies of such other Standards, Codes, Notes and Specifications as may be required by the Engineer.

115 CONSTRUCTION GENERALLY

General

The Contractor shall make his own arrangements for the supply of adequate safe drinking water, electricity and other services to the Permanent Works, Temporary Works and plant and shall provide and maintain all pipes, cables and fittings, which may be necessary to carry such services to his operations.

Water

The Contractor shall make all necessary arrangements for and shall provide at each Site an adequate supply of water both for the execution of the Works and for the health and safety of his workmen and other persons legitimately on the Works.

The water for the execution of the Works shall be of a chemical and purity standard such that it will not pollute injure or cause any deterioration of the Works, and it shall generally comply with the requirements specified in that section of the Specification dealing with concrete.

Electricity

The Contractor shall make all necessary arrangements for and shall provide any electricity supply required for the execution of the Works. Should the Contractor use a generator, he shall minimize nuisance from noise or exhaust fumes and shall

effectively guard against contamination or danger due to spillage of fuel or exposure to vapor.

Contractor's Monthly Returns

The Contractor shall report monthly progress in the English language to the Engineer on charts submitted in triplicate showing actual work done superimposed on his agreed programme of works. The reports shall be delivered to the Engineer within one week after the end of each month.

The Contractor shall include in his monthly report details of all plant (including their values) and labor force employed on site together with description of their deployment. The names and trade of hired laborers being residents in the project area are to be shown separately. The Contractor shall also provide a list of all materials intended for use in the permanent work delivered to site during the month.

Weather Records

The Contractor shall erect a rain gauge ("Nylex 600" or similar approved) and a double bulb, minimum/maximum thermometer (0.1°C accuracy) at a site agreed with the Engineer.

The Contractor shall be responsible for the daily measurement of rainfall and minimum and maximum temperature to be taken at 8:00am each day.

Sign Boards and Advertisements

The Contractor shall provide, sign, write, erect and maintain sign boards of sound construction to the satisfaction of the Engineer and at a location indicated by him in each settlement. As directed by the Engineer the signboard shall give a brief description of the Works and bear the names of the Employer, the Financier, the Project, the Consultant and the Contractor. The expenses for the signboard shall be priced separately in the Bill of Quantities.

On completion of the works the Contractor shall remove the signboard when instructed by the Engineer's Representative. No advertisements shall be placed on any boarding, fencing or scaffolding erected for any purpose connected with the contract without the written permission of the Engineer.

Record Drawings

Within 4 weeks of the commencement of the Defects Correction Period, the Contractor shall deliver to the Engineer one complete set of record drawings of all works constructed under the Contract. The minimum scales for road alignment plans and longitudinal sections shall be 1:2'000 horizontally and 1:200 vertically. All other works shall be at scales used in the Tender Drawings for comparable works or as agreed with the Engineer. The Engineer shall comment on the draft Record Drawings and within a further 8 weeks the Contractor shall then produce a definitive set-in transparency of CALC material of good quality (min 100g/m²) that shall be delivered to the Engineer complete with two sets of prints.

In addition, the Contractor shall provide one copy of all as-built drawings in digital format agreed with the Engineer and certified virus free compact disc (CD).

Operation and Maintenance Manuals

Within 4 weeks of the commencement of the defect's correction period, the Contractor shall deliver to the Engineer a complete set of Operation and Maintenance (O&M)

manuals of works constructed under the contract. The Engineer shall comment, where applicable, on the draft O&M manuals and within 8 weeks the Contractor shall deliver the final O&M manuals to the Engineer.

In addition, the Contractor shall provide, where applicable, one soft copy in a format agreed with the Engineer and certified virus free compact disc (CD).

117 HEALTH, SAFETY AND ACCIDENTS

Safety and Health

The Contractor shall be responsible for the safety and health of all workmen and other persons in or around the works, to the satisfaction of the Engineer and in accordance with safety and health regulations.

The attention of the Contractor is drawn to regulations and laws in force. The Contractor is fully and, in all respects, responsible for the safety on the Works.

First Aid Outfits/Ambulances/Emergency Services

The Contractor shall provide and maintain for the duration of the Contract adequate and easily accessible first aid outfits on every site at which work is in progress or his personnel are posted.

The Contractor shall have available at all times a vehicle or vehicles for the conveyance of sick or injured people to hospital.

The Contractor shall notify the Public Emergency Service (Fire, Police, Ambulance) of the location and intended duration of all works at each site prior to commencing work at each site.

Protective Clothing

The Contractor shall provide for the Engineer and his assistants the protective clothing necessary for the proper discharge of their duties on Site. This shall also include equipment, protection and instruments as described below for use in hazardous situations and confined spaces.

Noise Control

All work must be carried out without unreasonable noise. Compressors used on the site shall be silenced either by use of silencer and property lined and sealed acoustic covers or by effective acoustic screens to enclose the noise source.

Ancillary pneumatic tools used on the Site shall be fitted with effective silencers as recommended by the manufacturer.

Hazards

There are hazards associated with the Sites and the Employer's occupation or use of them. Some will be present at all times: others may be intermittent or may not exist until work has been carried out by the Contractor or others, or operational Plant has been commissioned. Hazards comprise of confined spaces, explosive and flammable gases, toxic fumes, Asphyxiating gases, Dangerous fumes and gases, Dangerous chemicals, Electricity cables, Sewage, Reptiles, rodents and insects etc. The Contractor shall take every precaution when working in areas with or susceptible to hazards.

Confined Spaces

Where any part of the Works is to be carried out in a confined space the Contractor shall:

1. Establish a system of written permits for each person to enter a confined space.
2. Display at the entrance to each confined space a sign warning of the need for oxygen and gas levels to be monitored before access and while work is proceeding.
3. Monitor the atmosphere in the confined space for oxygen depletion and dangerous gases before any person enters it.
4. Provide suitable and sufficient Working or Escape breathing apparatus appropriate to the risks identified or expected.
5. If sufficient means of natural ventilation cannot be guaranteed to provide at all times an adequate circulation of uncontaminated air, provide forced air ventilation even if oxygen or other gas levels are shown to be safe.
6. Provide suitable and sufficient gas monitoring equipment in appropriate locations, and ensure that it is used at all times when the confined space is occupied.
7. Ensure that all persons within the confined space vacate it as soon as any alarm sounds, without waiting to record the gas level.
8. Maintain a register of all alarms sounded every day, including Nil returns when appropriate, and provide a copy of the register to the Engineer each week.
9. Unless he can demonstrate to the Engineer his own ability to do so, employ a specialist firm to inspect and recalibrate gas detection equipment at proper regular intervals; and clearly label all such equipment with the date by which the next recalibration is to be conducted.
10. Provide appropriate harness, safety ropes and rescue facilities, and if practicable two means of access from top to bottom.
11. Provide when work is in progress radio or telephone communication, or safe visual and oral communication where this is appropriate and background noise levels permit.
12. Ensure that all electrical tools and equipment are of the appropriate type.
13. Provide appropriate protective clothing.
14. Provide hygiene facilities if appropriate.
15. Where a confined space is such that the number of persons within the space cannot be established by external observations, the Contractor shall maintain a written record of everyone entering and leaving the confined space and shall be accessible at all times to the Engineer's staff and the emergency services.

The contractor shall not, even in an emergency, enter or allow his workmen to enter any confined space until the requirements of this clause have been implemented.

Add to subclause 19.1 the following:

In addition to providing, equipping and maintaining adequate first aid stations throughout the works in accordance with the laws of Kenya, the contractor shall provide and maintain on site during the duration of the Contract, a fully equipped dispensary. This 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.

119 USE OF EXPLOSIVES

Explosives and Blasting

The removal of hard materials by use of explosives will not be permitted unless specifically allowed for in the contract and then only subject to compliance by the Contractor in all respects with the Explosive Laws of Kenya. Blasting shall only be carried out at such parts of the works for which permission in writing has been given by the Engineer's Representative and shall be restricted to such hours and conditions as he may prescribe.

The purchase, transport and use of explosives shall be carried out in accordance with the most recent explosive ordinance and rules issued by the Government.

The Contractor shall provide a special proper store for explosives in accordance with local regulations and he shall be responsible for the prevention of any unauthorized issue or improper use of any explosives brought on the works. Storage arrangement and quantities of explosives stored shall be approved by the Engineer and other Authorities concerned.

The Contractor shall employ men experienced in blasting and these men must be in possession of a current blasting certificate.

The charges shall be properly placed, sized and tamped and where necessary the Contractor shall use heavy mesh blasting nets.

Blasting shall in no way weaken existing structures or foundations or ground adjacent to existing and proposed works. Blasting operations shall be carried out with as little interference as possible to traffic or persons and the Contractor shall take all necessary precautions to prevent loss, injury or accident to persons and property. The Contractor shall be entirely liable for any accident or damage that may result from the use of explosives.

If in the opinion of the Engineer, blasting would be dangerous to persons or property or to any finished work or is being carried out in a reckless manner, the Engineer may prohibit any further use of explosives.

Contamination of the Works and the Environment

The Contractor shall at all times take every possible precaution against contamination of the Works. The Contractor shall give strict instructions to all persons employed by him to use the sanitary facilities provided. Throughout the Contract the Site and all permanent and Temporary Works shall be kept in a clean, tidy and sanitary condition. The Contractor shall at all times take measures to avoid contamination of water courses, drains and the environment by petrol, oil or other harmful materials. The Contractor shall be responsible for making all arrangements for the disposal of water from the testing and sterilizing of pipelines, water retaining structures and treatment works.

Compliance with the National Environmental and Management Act, 1999 (NEMA)

The Contractor shall at all times comply with the requirements of the NEMA Act 1999.

121 DIVERSIONS 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 to the standard set by the operator/agency, or repairing of any damage caused all to the satisfaction of the Engineer shall be included in the tender 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 of any kind.

In addition, the Contractor shall take the full and entire responsibility for the sufficiency of plant, scaffolding, timbering, machinery, tools or implements and generally for all means used for the fulfilment of the Contract. In the event of any of these means proving insufficient, the Contractor is still fully and entirely responsible for the sufficiency of these means notwithstanding any previous approval or recommendation that may have been given by the Engineer.

Safety of Adjacent Structures or Works

The Contractor shall at his own expense provide and erect to the approval of the Engineer such supports as may be required to protect efficiently all structures or works which may be endangered by the execution of the Works and he shall remove such supports on completion of the Works or otherwise take such permanent measures as may be required by the Engineer to protect the structures or works.

Existing Services and Installations

The Contractor shall take every precaution to ensure that all existing services, pipes, culverts, cables, boundary walls and fences, retaining walls, drainage ditches and the like, within and near the line of excavation, are located, supported and safeguarded from damage. Any damage caused to any such services, pipes, culverts, cables, boundary walls and fences, retaining walls, drainage ditches and the like attributable to the Contractor's operations, his constructional traffic or his negligence shall be made good by or for the Contractor at his own expense to the satisfaction of the Engineer, owner or responsible authority.

In the event of the owner or responsible authority electing to repair such damage the Contractor shall pay the cost of so doing the work. Should the Contractor fail to pay the cost of the said work within one month of the account being presented, the Employer reserves the right to settle the account and deduct the sum paid by him from monies due or which may become due to the Contractor.

Temporary Removal of Existing Services

If it should become necessary for the proper execution of the work temporarily to remove or divert any existing pipe, sewer, field drain, cable, drainage ditch or other service, the Contractor shall obtain permission from the responsible authority or owner and shall carry out the work at his own expense in a manner and at times to be approved by such authority or owner and shall subsequently reinstate the work to the satisfaction of such authority or owner.

In the event of the owner or responsible authority electing to arrange for the temporary removal of an existing service, the Contractor shall pay the cost of his or their doing the work. Should the Contractor fail to pay the cost of the said work within one month of the account being presented, the Employer reserves the right to settle the account and deduct the sum paid by him from monies due or which may become due to the Contractor.

The Contractor's attention is particularly drawn to the requirement to maintain drainage ditches in order to avoid any interruption of flow of water therein to the satisfaction of the Engineer, owner or responsible authority and the Contractor shall be deemed to have included in his rates and prices for all temporary works so required.

Permanent Diversion of Existing Services

If in the opinion of the Engineer and/or of the responsible authority or owner it should become necessary permanently to remove or realign any existing pipe, sewer, field-drain, cable, ditch, or other service, other than allowed for in the Bills of Quantities, the Contractor shall obtain permission, where necessary, from the authority or owner and shall carry out and complete the work to the satisfaction of the Engineer and such authority or owner. Payment for such additional work will be made in accordance with the Contract, provided always that the necessity for such permanent diversion has not arisen due to the fault of the Contractor. In the event of the owner or responsible authority electing to arrange for the permanent diversion of an existing service, the permanent diversion of which has become necessary due to the fault of the Contractor, the Contractor shall pay the cost of his or their doing the work.

Should the Contractor fail to pay the cost of the said work within one month of the account being presented, the Employer reserves the right to settle the account and deduct the sum paid by him from monies due or which may become due to the Contractor.

Permanent Support for Existing Services

If in the opinion of the Engineer and/or the responsible authority or owner it should become necessary to provide permanent support for any existing pipe, sewer, cable, structure or other thing disturbed, exposed or injured during or after the execution of the Works, the Contractor shall carry out promptly such additional works as the Engineer may require to provide such permanent support. Payment for such additional work will be made in accordance with the Conditions of Contract, provided always that the necessity for such permanent support has not arisen due to the fault of the Contractor.

Authority or Owners May Carry Out Work

Any of the work involving repair, replacement or re-alignment of existing pipes, sewers or other services may be carried out by the responsible authority or owners if they so desire. In such case, the Contractor shall allow them the facilities and assistance they may require and shall bear the full expense of the work except in the case of permanent removal or re-alignment which will be paid for by the Employer, provided that the necessity for such removal or re-alignment has not arisen due to the fault of the Contractor.

Care of Boundary Walls and Fences

The Contractor shall not cut through or remove any section of any boundary wall or fence without the prior approval of the Engineer who will determine the limits of such cutting or removal.

Approval for the cutting through or removal of boundary walls and fences will normally be limited to those crossing the route of drains and pipelines and the Contractor shall so conduct his operations as to minimize the extent of such cutting through or removal. The Contractor shall repair and reinstate in a manner similar to the original or by other approved means any wall or fence which he may have cut through or removed with or without the approval of the Engineer or damaged during his operations and all such repairs and reinstatement shall be the Contractor's sole liability and shall be carried out to the satisfaction of the Engineer and the responsible authority. The Contractor shall at his own expense provide temporary fencing and security measures at

Work through Private and Public Property

Where Works are to be executed in private or public property, the Employer will be responsible for negotiating and obtaining rights of way and the serving of all notices as may be required upon the owners and/or occupiers of the land and it shall be the obligation of the Contractor to keep the Employer and the Engineer fully informed concerning the rate of progress and of his intention to enter and begin work. The Contractor shall give the Employer 28 days' notice of his intention to execute Works in each section of private or public property.

Access to Works

All necessary facilities will be given for the access of the Contractor's employees to the Works and the Contractor shall be responsible for seeing that such employees obey all regulations in regard to the conditions of access to the Works.

122 CLOSURE OF ROADS

The Contractor shall be responsible for providing; maintaining and removing, at his own cost, adequate diversions to existing roads, and access tracks interfered with during the execution of the Works, together with any additional policing and signposting, and the erection of barriers as Engineer's approved Traffic Management Plan. The Contractor shall be responsible for advising the appropriate authorities and where necessary obtaining approval prior to interfering with any road. The production of Traffic Management Plan shall be a participatory activity involving the affected community, County Government, Traffic Police Department and RE's office. Such plans shall have full content of all relevant traffic safety warnings and controls and the Contractor indemnifies the Employer from any claim arising from any road traffic related accident on the affected roads within works.

Traffic Restrictions

The Contractor shall not run tracked vehicles or tracked Equipment on any public or private road without the written approval of the Engineer and of the responsible authority or owner, and subject to such conditions as each may reasonably require.

The Contractor shall observe all weight and dimensions restrictions that apply to roads and tracks in Kenya and he shall comply with all reasonable restrictions, which may from time to time be imposed by the Engineer, Employer, Police, responsible authority or owner. Where damage to roads and tracks is caused by the Contractor this shall

be repaired at the Contractor's expense. In particular the Contractor shall fill potholes in roads with road stone when these are deepened by his Equipment.

The Engineer shall have the power to restrict the Contractor's use of any roads, or tracks in terms of direction of traffic, speed of traffic, numbers of vehicles or their axle loading in order to preserve such roads or to make them safe for use by the general public.

Where other contractors require the use of these roads or tracks, the Engineer may prescribe times of usage, or impose some other form of control, which shall be established and operated by the Contractor, including the supply of traffic lights, flagmen, traffic cones or drums, and other controls.

Flagging, Lighting, Watching and Traffic Control

The Contractor shall be responsible for watching and lighting the Works and for the flagging and control of traffic and he shall comply with the requirements of the Employer and Police and the relevant authority in these matters.

Access Roads

All surface roads and tracks and other surfaced areas used by the Contractor for access shall be continually maintained by him in good condition. Immediately after ceasing to use any road, track or other surfaced area the Contractor shall restore it to the satisfaction of the Engineer and the responsible authority or owner. The provision of this Clause shall apply also to the shoulders and verges of any existing sealed road used by the Contractor and affected by his operations.

123 LIAISON WITH GOVERNMENT AND POLICE OFFICIALS

The Contractor shall keep in close touch with the Police and the other National and County 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 whose budget shall be included in the tender rates.

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 therefrom. 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 is 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.

131 MATERIALS AND MANUFACTURED ARTICLES

All workmanship shall be of the best quality appropriate to each category of work. Except where otherwise stated or approved by the Engineer, all materials used in the Works shall be of the best quality of their respective kinds as specified or described in the Specification, Drawings and Bills of Quantities and shall comply wherever possible with the current issue of the appropriate standard published by the British Standards Institution, or other equivalent national standard proposed by the Contractor and approved by the Engineer.

The Contractor shall use locally produced materials in preference to imported materials provided that they comply with the Specification and are available in sufficient and timely quantities.

Level Datum and Dimensions

All levels shall be referred to the National Datum and the Contractor shall obtain in writing from the Engineer the location and value of the permanent benchmarks to be used to control the works. Before the commencement of construction work the Contractor shall establish at each site in a position to the approval of the Engineer, a steel datum peg that shall be securely concreted in. The level of this peg shall be established and agreed with the Engineer and all levels used in the construction of the Works shall be referred to this established datum. The correctness of this established datum shall be checked at regular intervals during the construction period and agreed with the Engineer.

The levels of the ground and the levels and dimensions of existing features shown on the Drawings are believed, but are not guaranteed, to be correct. Wherever dimensions or levels are marked on the Drawings such dimensions or levels shall take precedence over dimensions scaled from the Drawings. Where no dimensions or levels are shown on the Drawings, instructions shall be obtained from the Engineer. In the event of discrepancies between the Drawings and the Specification, the Drawings shall take precedence over the Specification.

Bench Marks

The Contractor shall locate and where necessary re-establish the permanent Bench Marks shown on the Drawings and install additional permanent Bench Marks where directed by the Engineer to facilitate the setting out and checking of the Works. Prior to commencing the Works, the Contractor shall undertake a survey, based on the same local datum as used in the original topographic survey, to confirm the elevation and horizontal position of all permanent Bench Marks and shall submit a schedule of the said co-ordinates to the Engineer.

The Contractor shall be responsible for maintaining and regularly checking the elevation and position of all permanent Bench Marks for the duration of the Contract. Where it is found that an existing benchmark is interfering with the progress of the works, the Contractor may seek the Engineer's approval to re-locate the Bench Mark. The Contractor shall submit to the Engineer in writing the co-ordinates of the new benchmark.

Levels

The Contractor shall establish, construct and protect benchmarks as necessary during the period of construction and such benchmarks shall be checked periodically and whenever required. Benchmarks will be marked on the wall of a permanent structure by chiselling a line into the wall or by concrete iron pin. Painting around it as detailed by the Engineer will then identify this mark or the pin. The Engineer will approve the position of any such benchmark before it is established.

The levels of the benchmarks will be determined on site and approved as necessary by the Engineer. The above levels will all be based on the Datum. The Contractor shall seek approval from the owners prior to the establishment of any benchmarks on private properties.

Materials on and Under the Site

All soil, gravel, stone, timber, or other materials obtained in the excavations, clearing of the Site of the Works and soil stripping, must not be removed from the Site without the consent of the Engineer. The Contractor however, may use for the construction of the Works any of the materials excavated under the Contract, which the Engineer may determine to be fit for such use and shall use such materials if directed by the Engineer.

Restoration of Drains, Streams, Canals, etc.

Subject to any requirement of the Works whereby a permanent change is to be effected, all drains, canals, pipes, channels, water-courses or streams temporarily cut through or disturbed by the excavation of the Works are to be restored so that the water flowing in them may continue to flow in as full and free manner as it did before the disturbance.

132 OFFICE AND LABORATORY FOR THE ENGINEER WITH LABORATORY AND SURVEY EQUIPMENT AND FURNITURE

General

The Contractor shall meet all the requirements for the Resident Engineer and his staff as specified.

The Contractor is required to rent and furnish the Resident Engineer's offices, throughout the duration of the Contract. Within 4 weeks of the commencement of work on Site by the Contractor, and throughout the execution of the Works, including the Defects Correction Period. The office location shall be to approval by the Engineer.

132.1 Resident Engineer's Office

The Contractor shall submit to the Engineer for approval details of his proposals regarding the office furniture etc. Such approval request shall be provided before purchase.

The contractor shall provide or rent and maintain for the duration of the Contract, a furnished and equipped main office of plan area not smaller than 155 metre squares but not more than 200metre square which is equivalent of the standard Resident Engineer's office. This office shall be of weather proof construction, provided with mosquito proof and burglar proof windows and lockable doors and suitably insulated against heat and cold, all to the satisfaction of the Engineer.

A telephone shall also be provided for the Resident Engineer's office for his exclusive use. The Contractor shall be responsible for paying all charges and fees related to the use of the telephone.

The offices shall be provided with day and night watchmen and security lights, the cost of which shall be deemed to have been included in the rates for the offices.

The office for the Resident Engineer shall be separate from that of the Contractor.

Latrines and washrooms graded to staff seniority, together with a drinkable water supply and waterborne sewage disposal shall be provided for the office. The Contractor shall also provide 24 hours a day security and electricity supply to the offices and shall allow for any water and electricity consumed and for any statutory charges associated.

LIST OF FURNITURE FOR ENGINEER'S OFFICE

ITEM	DESCRIPTION	No.
1	Executive office desk	4
2	Executive office chair	12
3	Conference table 10-seater	1
4	Standard office desk 3x2 lockable drawers	2
5	Standard office chairs	3
6	Office desks 3x1 lockable drawers	3
7	Office chairs	10
8	Office desks 3x1 drawers	4
10	Filing cabinets 6 drawers	8
11	Filing cabinets 4 drawers	4
12	Curtains	As applicable

All furniture and equipment bought under the Contract shall revert to the Employer. Payment for provision of the office including the furniture shall be paid against relevant item on Bill No. 1; whereby, the office will be paid by the contractor monthly by remitting an equivalent amount of rent including office consumables. Office furniture and equipment will be paid by the contractor immediately the office is secured. In addition, the contractor is required to provide the following.

Description	Unit	Quantity
1. Kitchen Facilities; 4 burner gas cooker, cutlery & other kitchen utensils	No.	2.0
2. Desk top computer as specified by the RE including all installations. Specifications: in 16 GB RAM, min 1TB ROM (HDD), minimum 2.7GHz processor speed. (All-In-One desktop)	No.	3.0
3. Laptop computer as specified. Specifications: RAM DDR4 - 16 GB, 1TB Solid State Drive (SSD) ROM, Minimum Processor speed 2.7 GHz, Core i7CPU, windows 11 operating system - 64 bit.	No.	3.0
4. Electronic scientific calculator, as will be specified by the R E specifications: Two-way power, Full Dot Display, equation calculation, fraction calculation, complex number calculation, Base-n calculation, Vector calculations, metric conversions, scientific constants, logarithm log	No.	10.0
5. Colour LaserJet Printer type for A3. Functions: print, scan, copy, fax Printing technology: LASER. Printing speed: 56-60 ppm. Maximum paper size: A3. Output colour: colour Photocopier. Number of trays:2 Paper input capacity: minimum 1200 sheets	No.	1.0
6. Stapling machine size 66 or similar with 5000 staples with the following specifications:250 sheets stapling capacity, 23/6,23/24 staple use, adjustable paper guide, rubber base, rear loading and rotating anvil for different staple sizes	No.	5.0
7. Stapling machine size 50 or similar with 5000 staples with the following specifications: 140 sheets stapling capacity, rotating anvil for different staple sizes, rubber base, adjustable paper guide, loading capacity of 100 staples.	No.	1.0
8. Aluminium die casted Heavy-duty paper punch with handle lock for storage, metal guide bar & removable chip tray. Punching diameter 6.0mm.63 sheets Stapling capacity	No.	5.0
9. Ordinary metal paper punch with high strength drill with guide bar, removable tray locking handle for safety storage. Hole diameter 5.5mm	No.	1.0
10. single filing trays made of heavy ABS plastic material	No.	5.0

Description	Unit	Quantity
11. First aid kit with the following description: medium kit covering up to 15 staff, mountable, portable and with the following contents; CPR mouthpiece, thermometer piece, metal scissors, safety pins, metal forceps piece, alcohol swabs, Band-Aid piece, Sterile Cotton Balls, Sterile Eye Pads, Hypoallergenic First Aid Tape, Sterile First Aid Dressing piece, Disposal Bag piece, Pack of Tissues, Note pad piece, Pencil piece, Basic First Aid Instruction Sheet	No.	5.0
12. Fire extinguisher with the following description: Hose drum made of MS, fitted with 25mm x 30-meter braided hose pipe with shut of nozzle and clamp. Test pressure 10kg/cm ² of hose pipe. Control nozzle at the end attached to control flow and direction	No.	5.0
13. Refrigerator min. capacity 0.285m ³ high quality and energy efficient refrigerator with wire tray shelf, Can holder, Direct cool.	No.	1.0
14. Rectangular Table - 0.8m ² surface area, made of solid hardwood and veneer construction with four wooden legs	No.	5.0
15. Wooden Cupboard, 0.15m ³ , with 2 cabinets on the lower level and 3 shelves on the upper level, lockable and with swinging wooden doors	No.	5.0

134 RESIDENT ENGINEER'S LABORATORY AND SURVEY EQUIPMENT

The contractor may be instructed by the Resident Engineer under the said Clause to make payments of receipted accounts for carrying out tests in the independent and recognized laboratories and for purchase of survey equipment. The Contractor will be paid under the relevant item as listed in the Bills of Quantities. Survey equipment will be purchased based on the schedule provided below and will be quoted by the contractor as an item. Payment for the laboratory testing will be a Provisional Sum and indicated in Bill 1.

Survey equipment would include:

Item	Description	Unit	Quantity
1	Engineer's automatic level Wild NAK 2 or similar	no.	2
2	Suitable RTK survey equipment with a Base Station and Rover, specifications to be approved by the Resident Engineer	no.	1
3	Total station reading 1" with tripod and setting on pole with Datalogger and survey software to match Total Station Datalogger. Include data transfer program, and plotting modes, setting out calculations and Cogo facilities	no.	1
4	Levelling staff 4m. with levelling bubble Wild GNLE or similar	no.	4

Item	Description	Unit	Quantity
5	50m. steel band measuring tape	no.	2
6	30m. linen measuring tape	no.	2
7	3m. aluminium straight edge	no.	2
8	1m. stainless steel straight edge	1no	1
9	100m. steel band tape	no.	2
10	Draughtsman's stool	no.	3
11	Complete set of highway curves	set	1
12	Programmable scientific calculators FX 880P or equivalent	no.	4
13	Survey umbrella	no.	2
14	2m ranging rod	no.	10
15	Protractor 360	no.	2
16	Graph paper A3 size	no.	100
17	Drawing table	no.	2
18	Erasing shield	no.	4
19	3m. ranging rods	no.	9
20	Marker pens	no.	30

N/B –The contractor shall provide laboratory services through an approved service provider for the same. At no time will the works experience delay on account of laboratory activities. The survey equipment must be made available on site.

The contractor shall be directed to pay for stationery, equipment or reagents that are foresaid and also pay for servicing and repair of the laboratory equipment being used on the project. The estimate of these accounts is considered to be spread in the rates inserted by the contractor.

The Contractor shall provide, install and maintain in a good state of repair, such laboratory, survey and other equipment as listed for the duration of the contract.

Such equipment shall be of approved manufacture, and shall be made available to the Engineer for the Engineer's exclusive use throughout the Contract, not later than three (3) weeks after the Engineer's order to supply. All equipment shall be ready to use and complete to perform the tests. The equipment shall revert to the Employer on completion of the Contract.

Any delays to the Contractor or the Contractor's activities caused by the Engineer being unable to perform survey work, field or laboratory tests due to the contractor's failure to supply and/or maintain the said equipment shall be deemed to have been caused entirely by the Contractors own actions, and any consequences of such delays shall be interpreted as such.

The payment to comply with this requirement is considered to be spread in the rates and ownership of all equipment shall revert to the Employer after the completion of the Works

Failure by the Contractor to provide or maintain the equipment shall make him responsible to bear all costs that may be incurred as a result of the Engineer's staff

using alternative means of communication, including delays in supervision and approval of Works by the Engineer.

138 VEHICLES AND DRIVERS FOR THE ENGINEER AND HIS STAFF AND METHOD OF PAYMENT

Not Applicable

139 MISCELLANEOUS ACCOUNTS

The Contractor maybe instructed by the Engineer to make payments of general miscellaneous accounts for such items as stationary, stores and equipment and miscellaneous supervision personnel and claims or the Engineer may direct the Contractor to purchase or pay for the above. The Contractor will, on provision of receipts, be paid under Bill No. 1; Preliminaries and General. This bill item is a PC Sum.

140 PAYMENT OF OVERTIME FOR ENGINEER'S JUNIOR STAFF

Not Applicable

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

144. SKILLS TRANSFER (ON THE JOB TRAINING)

As part of the Capacity building efforts to transfer skills and knowledge in the construction of infrastructure services within Nairobi City County; local expertise within the project area will be engaged in part of training during the construction period to enhance their hands-on experience in various components e.g., water supply, streetlighting, storm water drainage and roads. This will add value to the project beyond it's immediate results in the terms of knowledge transfer through learning by doing. The following will form part of the expertise to be engaged:

- (i) 2No. Engineers
- (ii) 1No. Administrator
- (iii) 1No. Health and Safety Expert
- (iv) 1No. Environmentalist
- (v) 1No. Technician-Ordinary Diploma Holder
- (vi) 2No. Community Liaison
- (vii) 1No. Surveyor

SECTION 2 – MATERIALS AND TESTING OF MATERIALS

All materials testing shall be in accordance with Section 2 of the Standard Specifications

202 TESTING BY THE CONTRACTOR

The Contractor shall together with his Programme for Execution of Works submitted within 28 days after the order to commence works, a Quality Management System conforming to international standards, including the Work Method Statement and Quality Audit for major items of work.

The provision of the Engineer's laboratory and testing equipment or provided alternatives, as outlined in section 1 of this Special Specification, does not relieve the Contractor of his obligation to provide laboratory and testing equipment and execute his own testing, in conformity with the specified requirements in the Standard Specification and Special Specifications.

The onus rests with the Contractor to produce work which confirms in quality and accuracy of detail to the requirements of the Specifications and drawings, and the Contractor must, at his own expense institute a quality control system to always ensure adequate supervision and positive control of the Works, and the Contractor must provide chainmen and labourers for the Engineer to carry out checks on the Works.

The Contractor shall make his laboratory, or approve alternate thereof, accessible to the Engineer's Representative for cross checking the test results and inspection during material testing in the laboratory.

205 SIEVES

A standard set of sieves for general use shall consist of the following sieve sizes mm: 100-63-50-37.5-28-20-14-10-6.3-5-4-2-1-0.6-0.5-0.425-0.300-0.150-0.075 mm. The sieves from 0.425 to 0.075 mm shall be suited for wet sieving.

224 TRIALS TO CONFIRM COMPLIANCE WITH SPECIFICATIONS SIEVES

(b) Site Trials

The Contractor shall allow in his programme of works described in Clause 104 of these specifications, for constructing trial sections and carrying out tests upon them as directed by the Engineer. Trials would normally be required at the start of each pavement layer and if changes of materials, method, or equipment deem it necessary, as directed by the Engineer. The time for completion of the Contract shall not be extended because of the time needed to construct trial sections and evaluate the tests on them. At least fourteen days before the work of laying any pavement layer is commenced, the contractor shall construct trial sections of at least 100 m in length and to the full construction width and the specified pavement layer thickness. For each trial section, the Contractor shall use the materials, mix proportions, mixing, laying, compaction equipment and construction procedure that he proposes to use for the

main work. The main work of laying the pavement layer shall not be commenced until this trial has been tested and approved by the Engineer. No variation in the construction procedure, mix proportions, size, grading or source of any of the constituents shall be made without the agreement of the Engineer who may first require new trial sections to be carried out. Trial sections, if found satisfactory, will be paid for under the rates in the Bill of Quantities for the appropriate items, as if the trial sections were part of the normal work. No separate payment will be made for trial sections and testing. The Contractor shall make good at his own expense; any trial sections that fail to meet the specified standards. The standards shall include, but not be limited to, material quality, layer thickness, levels and compaction. A standard

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 co-ordinates 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.

Commencement of the works shall not be permitted until this basic survey data has been provided and approved by the Engineer for at least 200m of the road.

b) Detailed Setting Out

Reference pegs shall be 50mm by 50mm in section 600mm long driven 400mm firmly into ground and painted white above the ground. The offset from centreline shall be indicated by small nail 20mm to 25mm long with its head driven 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.

Prior to commencement of earthworks or subgrade works, the Contractor shall take a topographical survey which shall identify all the break lines i.e., centre line, edges, drains (top and bottom) etc using a total station to enable establishment a digital terrain and submit the same to Engineer for agreement. This digital terrain model shall then be used as basis of generating cross sections and 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 following a joint condition survey.

402 REMOVAL OF TOPSOIL

Topsoil shall include up to 200mm depth of any unsuitable material encountered in existing or newly constructed roads, drains, drainage channels, and accesses.

403 REMOVAL OF STRUCTURES, FENCES AND OBSTRUCTIONS

Notwithstanding the provisions of clause 405(c) of the standard specifications, the payment for demolition shall be made under bill No. 4. However, when instructed by the Engineer, the Contractor shall demolish or remove any structure not covered above and payment for this shall be made on day works basis.

The Contractor may be instructed to make payment for relocation of water and/or sewer lines, internet cables, electricity poles and lines or any other services to be relocated from the road corridor or waterline wayleaves. The payment shall be paid on a prime cost basis from the provision amount provided.

SECTION 5 – EARTHWORKS

504 PREPARATIONS PRIOR TO FORMING EMBANKMENTS

Where benching is required, 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 CONSTRUCTIONS 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 "improved subgrade". 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), a swell of less than 1% and dry density less than 1400Kg/m³.

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 specific instructions to the contrary are issued by the Engineer. 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 provided by the Contractor but to the approval of the Engineer and the Contractor

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).

No separate payment shall be made for overhaul of earthwork volumes, and the contractor shall be deemed to have allowed elsewhere in his rates for the cost of complying with the requirements of this specification.

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

601 GENERALS

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 subjects 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.

602 THE MATERIALS REPORT

The information given on material is for general guidance to the bidders and the Contractor fully responsible for material sourcing and handling until final finish. Bidders are advised to conduct their own investigation as the information contained therein is neither guaranteed nor warranted.

SECTION 7 – EXCAVATION AND FILLING FOR STRUCTURES

703 EXCAVATIONS 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 EXCAVATIONS 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 un-weathered rock approved by the Engineer.

The stone as dressed shall be roughly cubical in shape with minimum dimensions of 150 x 150mm 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 will 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 County Government Road works yard.

712 RIP-RAP PROTECTION WORK

Quarry waste or similar approved material shall be used to backfill scoured and eroded side, outfall and cut-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.

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 crammed 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 STRUCTURES

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.

804 EXCAVATION FOR CULVERTS AND DRAINAGE WORKS

In the Standard Specifications, make the following amendments: -

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

(b) Removal of Existing Pipe Culverts

Where instructed by the Engineer, the Contractor shall excavate and remove all existing blocked or collapsed culvert pipes of any diameter including concrete surround, bedding, inlet and outlet structure.

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

The payment of this work shall be per linear metre of pipes removed, and the number of inlet/outlet structure removed

(c) Removal of other Existing Drainage Structures

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

(d) 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 EXCAVATIONS 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 that 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 0.2m³ 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 15/20 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.

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

810 JOINTING CONCRETE PIPES

The concrete pipes for the culverts shall have ogee joints and will be joined by 1:2 (cement: sand mortar) and provided with fillets on the outside as described in clause 810 of the Standard Specification.

812 BACKFILLING OVER PIPE CULVERTS

In the Standard Specifications, clause 812

- a) Wherever the expression "dry density of 95% MDD (AASHTO T. 99)" occurs 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 not be measured and paid for separately.

814 SUBSOIL DRAINS

In the event of excavation for repairs exposing local seepage, 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 stabilised gravel and surfaced with hot asphalt or a surface dressing as instructed by the Engineer.

815 INVERT BLOCK DRAINS AND HALF ROUND CHANNELS

Invert Block Drains and Half Round Channels are to be constructed as shown in the drawings provided in accordance with the Standard Specifications where, directed by the Engineer.

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 equipped with two-way radios 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.

The contractor will be deemed to have inspected the site and satisfied himself as to the adequacy of his bid for these works and no additional payments will be made to the contractor for any expenditure on traffic control or the provision of deviations. The employer shall not be liable for inadequate prior investigations of this nature by the contractor.

903 MAINTENANCE OF EXISTING ROADS

The Contractor shall maintain the existing roads covered in the project using compacted natural gravel of sub-base quality in accordance with the provisions in Clause 903 of the Standard Specifications.

904 CONSTRUCTION OF DEVIATIONS

(a) General

In addition to requirement of this clause, the maximum length of deviation road shall be restricted to 1 Kms at any given time unless otherwise instructed. The Contractor shall construct and complete deviations to the satisfaction of the Engineer before commencing any permanent work on the existing road. Also, during these works the contractor is supposed to provide a detour of adequate pipe culverts for pedestrian and traffic crossing where there is bridge works.

Contractor will be allowed to open further 1 Km of the deviation road only when 80% of the permanent work has been completed on first one. The sequencing of deviation road has been shown on the drawing.

Where the old road exists near the main road, Contractor shall use this road as deviation road.

(b) Geometry

The carriageway width of the deviations shall not be less than 6m wide and suitable for 2-way lorry traffic unless otherwise specified.

(c) Construction

Unless otherwise instructed gravel wearing course for the deviation shall be 150 mm compacted thicknesses complying with section 10 of the Standard Specification. The

class of material shall be class 2 with a maximum plasticity index of 15%. The Contractor shall allow in his rate for removal of any unsuitable material before placing of gravel wearing course, as this will not be paid for separately.

In addition to provision of this clause, Contractor is required to sprinkle water at least 4 times a day at the rate of 1 to 1.4 litres/day in regular interval to minimise the effects of dust. Latest sprinkling time shall be one hour before the sunset. Payment for construction of gravel roads will be per cubic metre of the gravel measured.

906 PASSAGE OF TRAFFIC THROUGH THE WORKS

The Contractor shall arrange for passage of traffic through the works during construction whenever it is not practicable to make deviations. The cost of doing so shall be deemed to have been included elsewhere in his rates and no separate payment shall be made for this. To this end, the contractor shall be deemed to have inspected the site for himself and noted any locations where this may apply.

Any damage caused by passing traffic through the works shall be made good at the contractor's own cost.

907 SIGNS, BARRIERS AND LIGHTS

Contractor shall provide signs, barriers and lights as shown in the drawing in Book of Drawings at the locations where the traffic is being carried off the existing road to the deviation and back again to existing road. The Contractor shall provide ramps and carry out any other measures as instructed by the Engineer to safely carry traffic from the road to deviation.

Contrary to what has been specified in this clause the road signs provided shall be fully reflectorised and in conformity with clause 9.1 of the "Manual for Traffic Signs in Kenya Part II

909 ASSISTANCE TO PUBLIC

In addition to provision of clause 909, the Contractor shall maintain close liaison with the relevant authorities to clear any broken down or accident vehicles from the deviations and the main road, in order to maintain smooth and safe flow of the traffic.

912 MEASUREMENT AND PAYMENT

Delete Clause 912 of the Standard Specification and replace with the following: -

The unit of measurement shall be the kilometre, measured along the centre lines of the project road centre line and shall include for the provision, operation, maintenance and removal of all approved temporary diversions, existing roads used as diversions, and road constructed in half-width.

The tendered rate shall include full compensation for accommodating traffic and maintaining diversions, including roads constructed in half-widths and existing road used as diversions during construction and maintenance. The tendered rate shall also include full compensation for the provision of communications equipment, temporary traffic barriers and fencing required for regulating the traffic, arranging for the moving of services solving traffic problems complying with the legal requirements of all authorities concerned, for providing temporary access to private property, and for the

provision and maintenance of temporary drainage. The tendered rate shall also include full compensation for the specified general requirements and all incidental items of cost which are required under the provisions of section.

Item : Accommodating traffic, construction and maintaining diversions
Unit : Kilometre

Payment will be made in two equal instalments in respect of each section. The first instalment will be made when suitable diversions have been approved for use or when traffic is accommodated adjacent to half-width construction. The second instalment will become due when the traffic can be accommodated on the new road, all diversions or single lane workings have been obliterated or removed and all general conditions of the Contract have been complied with, all to the satisfaction of the Engineer.

SECTION 12 – NATURAL MATERIAL SUBBASE AND BASE

1201 GENERAL

This section includes provision of sub-base layer for the following: -

- a) Sub-base layer for carriageway, shoulder, junctions and bus bays using gravel material or other suitable material of sub-base quality;
- b) Thickness of the layer will be as shown on the Drawings and as provide in these Specifications

1202 HAND PACKED STONE BASE

The hardstone shall be hand-packed with sharp edge upward and wider (natural face) laid on the ground. The interstices of hard-core bed shall be filled with approved fines, wetted sufficiently and well compacted (minimum 8 runs). The thickness of the hard-core bed shall be as shown on the Drawings and the hard stone shall of Class A or B.

SECTION 13A – INTERLOCKING CONCRETE PAVING BLOCKS

1301A TYPE

Reflective type, wet cast, wear resistant aggregates colour coordinated aggregates in face mix. Colour composed of UV resistant colour pigments (two coats of acrylic lacquer coating).

1301B SPECIFICATIONS

S/No	Parameters	Minimum Requirements
1	Percentage water absorption	Average not over 6%
2	Compressive strength	Average not less than 350 -450 kg/cm ²
3	Average wear in thickness - abrasion	Average wear not more than 2 mm
4	Tolerance in size (length + breadth)	±2 mm
5	Thickness of wearing layer	Not less than 5 mm
6	Tolerance in thickness of block	±5 mm
7	Colours	UV light resistant fast colours (choice of colour as directed by the RE)
8	Standards	BS 6717 and IS 15658:2006
9	Top surface	Anti-skid type

1301C COMPRESSIVE STRENGTH TESTS

Test shall be carried out on Interlock Block Pavers according to BS 6717 to ascertain the strength. Before laying -Interlock Block Pavers, 16 samples collected, each 2 sample shall represent 5000 blocks. All samples stored for (24 + 4) hrs in water maintained at temperature of (20 + 5) C°. The average compressive strength of 16 samples shall be not less than 35 kN/mm².

1302D CONSTRUCTION

Interlock Block Pavers shall be set on to locations and grades shown on the Drawings and shall be laid directly on a granular material. Granular material (quarry dust) shall be placed on the top of a crushed aggregate base course layer to adjust the final level of the Interlock Block Pavers and to fill the joints between the Blocks with the river sand.

All Interlock Block Pavers shall be thoroughly cleaned of all extraneous material prior to approval. All Interlock Block Pavers shall be laid within a tolerance of plus or minus three (3) mm, at, each end of an element, to the lines and grades given on the Drawings.

All Interlock Block Pavers shall be compacted by a compactor plate to the satisfaction of the Engineer or his representative.

45 degree herringbone pattern for laying shall be adopted.

1302E MEASUREMENTS AND PAYMENTS

The method of measurement and payment will be in accordance with relevant clauses relating to the type of material shown on the Drawings or instructed by the Engineer in Volume 2 of 3 of bid documents.

SECTION 14 – CEMENT TREATED MATERIALS

1403 MATERIAL REQUIREMENTS

Cement and lime

(i) Cement

Cement shall be, Portland Cement **CEM 1 42.5N** complying with KS EAS 18-1: 2001 - Part 1, KS 1725: 2001 manufacturing standards.

(ii) Lime

Replace “Lime shall be hydrated calcium lime or quicklime...” with “Lime shall be hydrated calcium lime and “

1409 PROTECTION AND CURING

This shall be 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.

1412 MEASUREMENT AND PAYMENT

a) Stabilizer

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

b) 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 AND SURFACE DRESSING

1501A GENERAL

The surfacing is an asphaltic concrete as a wearing course. Details of the mix and application will be as approved/directed by the Engineer.

PART B - PRIME COAT

1501B MATERIALS FOR PRIME COAT AND TACK COAT.

The surface of base layer shall be primed with a prime coat binder shall be a medium-curing cutback MC 30 unless otherwise directed by the Engineer.

The tack coat to be applied prior to laying bituminous mixes shall consist of bitumen emulsion KI-60 unless otherwise directed by the Engineer.

1504B SPRAYING OF PRIME COAT AND TACK COAT

The rate of spray of bituminous prime coat refers to the gross volume of the cut-back bitumen, that is to say the volume of the bitumen sprayed per m². It will generally be between 0.8-1.2 litres/square metre.

The rate of spray of the tack coat binder shall be as instructed by the Engineer and shall generally be within the range 0.3-0.8 litres/square metre.

1502C MATERIALS FOR SURFACE DRESSING

a) Binder

The bituminous binder shall be 80/100 penetration grade bitumen and conforming to clause 211 of the Standard Specification.

b) Chippings

Chippings shall be of Class 3 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 1501C of the Standard Specification with regard to cleanliness and the dust content of chippings for surface dressing. Should it prove necessary in the Resident Engineer' 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 Resident Engineer or his representatives, lay trial sections of seal at various rates of spray and spread as directed by the Resident 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 advise the Resident 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 Resident 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 Resident 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 cut-back 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 cut-back bitumen.

The amount of bituminous binder used to pre-coat chippings will be as instructed by the Resident 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 Resident Engineer. After completion of trial mixes, the Resident 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 Resident Engineer will issue revised instruction.

SECTION 16 – BITUMINOUS MIX BASES, BINDER COURSES AND WEARING COURSES

This section covers different types of bituminous mixes for base and surfacing (wearing and binder courses) and is divided into the following parts: -

Part A General

Part B Asphaltic Concrete for carriageway

PART A – GENERAL

1603A CONSTRUCTION PLANT

(a) General

The Contractor shall submit to the Resident Engineer in accordance with Section 1 of its Specification, full details of the construction plant he proposes to use and the procedures he proposes to adopt for carrying out the permanent Works.

The Resident Engineer shall have access at all times to construction plant for the purposes of inspection. The Contractor shall carry out regular calibration checks in the presence of the Resident Engineer and shall correct forthwith any faults which are found.

All construction plant used in the mixing, laying and compacting of bituminous mixes shall be of adequate rated capacity, in good working condition, and shall be acceptable to the Resident Engineer. Obsolete or worn-out plant will not be allowed on the work.

(d) Compaction Plant

The Contractor shall provide sufficient rollers of adequate size and weight to achieve the specified compaction. Prior to commencing the laying of bituminous mixes in the permanent Works the Contractor shall carry out site trials in accordance with Section 2 of this Specification to demonstrate the adequacy of his plant and to determine the optimum method of use and sequence of operation of the rollers.

It is important to achieve as high a density as possible at the time of construction and it is expected that vibrating rollers will be required to produce the best results. However, it is essential that thorough pre-construction trials are carried out to ensure that: -

- (a) The roller is set up to have the optimum amplitude and frequency of vibration for the particular material being laid
- (b) That the roller does not cause breakdown of the aggregate particles.
- (c) That the optimum compaction temperatures are established which allow compaction without causing ripple effects or other distortions of the surfacing.

1604A PREPARATION OF SURFACE

A tack coat shall be applied prior to laying the bituminous mix or between layers of the bituminous mix, in accordance with Section 15 of the Specifications.

PART B - ASPHALT CONCRETE FOR SURFACING

1601B DEFINITION

The Asphalt Concrete shall be 0/14mm binder course Type II.

1606B COMPACTION

Rolling shall be continued until compaction of the completed layer attains a minimum mean value of 95% of refusal density (no value less than 93%) and until the voids measured in the compacted layer are within the specified range as appropriate.

SECTION 17 - CONCRETE WORKS

1703 (B) MATERIALS FOR CONCRETE

Cement shall comply with the following Kenyan Standards:

- **KS1725:2001 CEM 1 42.5 N** for Ordinary Portland cement

1703 (C) FORMWORK FOR CULVERT WALLS AND SLABS

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.

Unless otherwise described in the Contract, all form joints for exposed surfaces of concrete shall form a regular pattern with horizontal and vertical lines continuous throughout each structure and all construction joints shall coincide with these horizontal and vertical lines. PVC pipes of 50mm diameter for weep holes shall be arranged as shown on the Drawings.

Unless otherwise specified, formwork shall be designed to form chamfers at all external corners whether or not such chamfers are shown on the Drawings to prevent cracks and other damage from arising.

The inside surface of forms shall be cleaned and coated with a releasing agent to prevent adhesion of the concrete. Release agents shall be applied strictly in accordance with the manufacturer's detailed instructions. The release agent shall be applied to the formwork prior to erection. Release agent must not come into contact with reinforcement. Immediately before concrete is placed, the forms shall thoroughly be thoroughly cleaned and freed from sawdust, shavings, dust, mud or other debris by hosing with water. Temporary openings shall be provided in the forms to drain away the water and rubbish.

(ii) **Scaffolding**

All scaffolding required to support the forms shall be designed and constructed to provide necessary rigidity and support the loads without appreciable deflection or deformation.

Details, plans and structural and flexural calculations for scaffolding shall be submitted to the Engineer for approval, but in no case shall the contractor be relieved of his responsibility for the results obtained by use of these plans, etc.

(iii) **Removal of formwork**

The time at which the formwork is truck shall be the Contractor's responsibility and the forms shall not be removed until the concrete strength has reached 20 N/mm².

(c) **Measurement and Payment**

Payment shall be made according to Section 8 of the Standard Specification of Roads and Bridges Construction.

1703(D) CONCRETE WORKS (CASS 20/20) OF CULVERT WALLS

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 25/20 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 (4) months. The Contractor shall submit to the Engineer for his approval the result of quality certificate done 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.

(b) **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. The aggregates shall conform to the requirements of sections 1703 (c) and (d) while the grading of the same shall be as follows:

(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	40	30	25	20	15	10	5	2.5
%	100	-	-	90-100	-	30-69	0-10	-

Other requirements for aggregates are as follows:

(i) Fine Aggregates

Fitness Modulus, AASHTO M-6:	2.3 – 3.1
Sodium Sulphate Soundness, AASHTO T104:	Max. 10% loss
Content of Friable Particles AASHTO 112:	Max 1% by weight
Sand Equivalent, AASHTO T176:	Min. 75

(ii) 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%

(iii) 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.

(vi) 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.

(a) Concrete class 25/20

Concrete class 25/20 shall be used for culvert walls and slabs. The requirements of Concrete class 25/20 are provided as follows unless otherwise the Engineer will designate any alteration

Design compressive strength (28 days)	:	20N/mm ²
Maximum size of coarse aggregates	:	20mm
Maximum water/cement ratio of 45% with slump of 80mm		

(d) 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.

(e) Concrete Work**(i) Batching**

Batching shall be done by weight with accuracy of:

Cement	:	½ percent
Aggregate	:	½ percent
Water and Admixture:		1 percent.

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.

(ii) Mixing and delivery

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

(iii) Concrete in hot weather

No concrete shall be placed when the ambient air temperature is expected to exceed thirty three degrees Celsius (330c) during placement operations).

(iv) Concreting at night

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

(v) 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.

1703(E) CONCRETE WORKS (CLASS 25/20) OF RECTANGULAR DRAIN 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 25/20 shall be used for Culvert walls and slabs.

(a) Concrete Materials**(ii) 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 (4) months. The Contractor shall submit to the Engineer for his approval the result of quality certificate done 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.

(b) 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. The aggregates shall conform to the requirements of sections 1703 (c) and (d) while the grading of the same shall be as follows:

(iii) **Grading of Fine Aggregates**

Sieve Size	Percentage by Weight Passing
10 mm	100
6 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

(iv) **Grading of Coarse Aggregates**

	Amounts finer than each standard sieve percentage by weight							
Size	40	30	25	20	15	10	5	2.5
%	100	-	-	90-100	-	30-69	0-10	-

Other requirements for aggregates are as follows:

(i) Fine Aggregates

Fitness Modulus, AASHTO M-6:	2.3 – 3.1
Sodium Sulphate Soundness, AASHTO T104:	Max. 10% loss
Content of Friable Particles AASHTO 112:	Max 1% by weight
Sand Equivalent, AASHTO T176:	Min. 75

(ii) 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%

(iii) 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.

(vi) 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 25/20

Concrete class 25/20 shall be used for culvert walls and slabs. The requirements of Concrete class 25/20 are provided as follows unless otherwise the Engineer will designate any alteration

Design compressive strength (28 days)	:	25N/mm ²
Maximum size of coarse aggregates	:	20mm
Maximum water/cement ratio of 45% with slump of 80mm		

(d) 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.

(e) Concrete Work**(i) Batching**

Batching shall be done by weight with accuracy of:

Cement	:	½ percent
Aggregate	:	½ percent
Water and Admixture:		1 percent.

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.

(ii) Mixing and delivery

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

(iii) Concrete in hot weather

No concrete shall be placed when the ambient air temperature is expected to exceed thirty three degrees Celsius (330c) during placement operations).

(iv) Concreting at night

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

(v) 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.

(f) Measurement and Payment

Measurements for the Concrete Works Class 25/20 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 25/20) 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.

SECTION 20 – ROAD FURNITURE

2004 PERMANENT ROAD SIGNS

All 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 Clause 2004 of the Standard Specification.

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 as directed by the Engineer. 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.

2005 ROAD MARKING

Paint for road marking shall be internally reflectorised hot applied thermoplastic material in accordance with Clause 219 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 Flexbeam" 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) Transition between flush and raised kerbs

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.

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 TREES

Where shown on the drawings or directed by the Engineer, the Contractor shall plant trees in accordance with clause 2010 of the Standard Specifications

2011 MEASUREMENT AND PAYMENT

Road reserve boundary posts

Road reserve boundary posts shall be measured by the number erected

Permanent road signs

Permanent road signs shall be measured by the number of each particular size erected.

Road marking

Road markings in yellow or white material shall be measured in square metres calculated as the plan area painted.

Guardrail

Guardrail shall be measured by the metre as the length of the guardrail constructed.

Kerbs

Kerbs shall be measured by the metre as the length of kerb constructed.

2012 SERVICE DUCTS

Service ducts shall be provided in locations as directed by the Engineer. Ducts shall be heavy duty PVC spigot and socket pipe of 3mm minimum wall thickness. Minimum cover to the top of the pipe from formation level shall be 0.6m. Pipes shall be bedded and surrounded by a 100mm minimum thickness of compacted fine granular material of 10mm maximum size. The remainder of the trench shall be backfilled with selected backfill material of subbase quality up to the top of formation level.

Measurement and payment shall be by the metre of pipe installed, and shall include all excavation, spoil, bedding and surround, backfill, transport, supply, bed, lay of PVC pipe complete with 2mm galvanised draw wire, and end sealing caps and end markers.

SECTION 22 – DAYWORKS

2202 MEASUREMENTS AND PAYMENT

(a) Plant

Where items of major plant listed in the schedule of Dayworks are specified by type (e.g., Concrete mixer etc.) the power rating if such items of plant are provided by the Contractor shall not be lower than the power ratings of such plant manufactured within the last two years prior to the date of Tender. Any item of major plant employed upon Dayworks that has a power rating lower than specified above shall be paid for at rates lower than those in the schedule of Dayworks. The reduction in the rate payable shall be in proportion to the reduction in power rating below that specified above.

SECTION 25 – HIV/AIDS, GENDER ISSUES, SOCIAL ISSUES AND LOCAL PARTICIPATION

2501 SCOPE

This specification sets out the Contractor's obligations with regard to on-site HIV/AIDS awareness campaign and preventive measures which are to be instituted.

2502 INTERPRETATION AND DOCUMENTATION

The following documents shall inter-alia be read in conjunction with this specification:

- The Instructions to Bidders;
- The Conditions of Contract;
- The Drawings;

2503 GENERAL REQUIREMENTS

(a) HIV/AIDS Awareness Campaign

The Contractor shall institute an HIV/AIDS awareness campaign amongst his workers for the duration of the contract. As part of the campaign the Contractor will be required to display AIDS awareness posters in all buildings frequented by workers employed on the contract, where such buildings fall under the control of the Contractor. In addition, at least ten (10) of the Contractor's vehicles, regularly used on site shall display HIV/AIDS awareness posters. The posters shall be printed on gross paper and shall be at least A1 size on buildings and A3 size, or other approved size on vehicles. The message on the posters shall be supplied by the Employer through the Engineer before the posters are printed. Aids awareness shall also be included in the orientation process of all workers employed on the contract.

(b) AIDS Prevention Campaign

The Contractor shall institute an HIV/AIDS prevention campaign amongst his workers for the duration of the contract. As part of the campaign the Contractor will be required to make condoms available to workers. The condoms shall be from an approved manufacturer. The Contractor shall make available at least 4,000 condoms every month, through dispensing machines or other approved method of distribution. The Contractor shall at all times keep the site adequately supplied with the condoms.

(c) HIV/AIDS Training

• Introduction

HIV/AIDS is having a significant and increasing impact in Kenya. Interventions that stimulate the movement of people increase both the exposure to the HIV virus and the spread of the virus. Road construction has been identified as one such intervention. KISIP policy is to integrate HIV/AIDS awareness and prevention into all road construction and rehabilitation programmes. This is in accordance with the Third National Strategic Plan (2000-5) for HIV/AIDS prevention and control as approved by the Government of Kenya, International Bank for Reconstruction and Development (IBRD) and many other organisations. The rehabilitation of the road will involve local labour and other contractor's labour. It is a contractual requirement to carry out

HIV/AIDS awareness and prevention activities during the construction period as provided in this specification.

- **Objective**

The objective is to reduce the risk of exposure to and spread of the HIV virus in the area of the construction. The target group will be local labourers and their supervisors employed by the works contractors. The wider community will benefit indirectly through their normal day-to-day interaction with the target group.

- **Scope of activities**

Activities for HIV/AIDS awareness and prevention will be broad-based targeting both individuals and groups. They may consist of:

- (i) Information posters in public places both on and offsite (eating houses, bars, guest houses, etc.) and on contractor's vehicles.
- (ii) Availability of socially marketed condoms.
- (iii) Peer educators (reference people) drawn from the local labour and educated in HIV/AIDS issues for discussions with colleagues (estimate 1 per 100 employees).
- (iv) Small focus group discussions and information covering key issues
- (v) Theatre groups and video presentations.
- (vi) Promotional events (such as football matches) to encourage openness and discussion of HIV/AIDS issues
- (vii) Promotional bill boards to raise awareness of the integration of construction and HIV/AIDS activities.
- (viii) Inclusion of HIV/AIDS activities at site meetings with the District Aids Committee and other approved representatives.
- (ix) Availability of promotional materials such as T-shirts, caps, bumper stickers, key rings, etc.

The scope of activities may be tailored as required to meet the perceived needs and priorities of the labourers, determined by participatory approaches to ensure they are appropriate desired and have a public health impact. The scale and frequency of activities may also be adjusted to suit requirements of the target group. Education will cover:

- preventive behaviours including partner reduction, condom use, awareness and importance of treatment of sexually transmitted incidences (STIs);
- skills including negotiating safer sex, correct condom use, purchase without embarrassment; and
- referral to local health centres and services available.

Tasks to support the above activities will be to:

1. Establish the status and focus of all current and planned HIV/AIDS activities in the area to ensure complementarity and determine potential involvement in project activities.
2. Carry out a brief review of regional activities combining road construction with HIV/AIDS campaigns to determine options, best practice key issues, constraints, etc.

3. Review of Information, Education and Communication (IEC) materials available and their relevance to road construction, making recommendations for future development of IEC materials.
4. Provide education and training for site personnel, supervisors and peer educators for the scope of activities as above.
5. Provide supervision for peer educators to ensure sustained quality of education. Incentives for their continual work may be small promotional items such as T -shirts, caps, etc.
6. Provide mechanisms for the social marketing of condoms and distribution of materials.
7. Monitor activities regularly to assess effectiveness and impact. This should include an initial, interim and final assessment of basic knowledge, attitude and practices (KAP) taking account of existing data sources and recognising the limitations due to the short time frame to show behaviour change. The KAP will be supported by qualitative information from focus group discussions.

- **Collaboration**

HIV/AIDS activities are co-ordinated nationally by the National Aids Control Council (NACC). KISIP in consultation with NACC and the Ministry of Health (MOH) will co-ordinate with the provincial, district and local representatives. Representatives of local health authorities will be invited to attend training and communication activities. Activities on the construction site will be linked as far as possible with on-going HIV/AIDS awareness and prevention in the area. This will ensure complementarity of approaches, reinforcing education and minimising duplication. In addition, these links will ensure that the target group will have access to continued information after the end of the construction period.

- **Contractor Responsibilities**

The Contractor employ and designate a qualified HIV/AIDS expert, to be approved by the Engineer, who will work closely with the Client, MOH and other implementing agencies to support the HIV/AIDS awareness and prevention activities. This will ensure maximum effectiveness and integration with construction activities. Specific but not exclusive issues to be addressed by the Contractor are:

- Scheduling of appropriate timing and duration for the implementation of HIV/AIDS activities as part of workplan for labourers and supervisors. Designated rest times such as lunch breaks and pay days should be excluded.
- Identification of suitable individuals for education from recruitment records with the implementing organisation.
- Provision of suitable sites for communication activities and for condom distribution.
- Monitoring of the implementation of peer educator activities.
- Provision of support as necessary to the implementing organisation.

- **Inputs**

An organisation experienced in the provision of HIV/AIDS awareness and prevention activities will be selected as a subcontractor to provide the above scope of activities on behalf of the main Contractor.

- **Reporting**

The implementing organisation will produce the following reports to be submitted to the Contractor, Consultants, KISIP and NACC.

2504 MEASUREMENTS AND PAYMENTS

Section Number 28 of the Bill of Quantities contains a Provisional Sum for the provision of a HIV&AIDS Prevention and awareness campaign, plus a percentage of the Contractor's Liasion and Coordination, Overheads and Profits associated with the Provision and Implementation of this campaign.

SECTION 28: ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MONITORING PLAN (ESMMP)

2801 MANAGEMENT PLAN PRINCIPLES

This project is geared towards enhancing social and economic benefits to the people living in the project area however; the project should also observe environmental protection requirements in accordance to the established laws and regulations to ensure sustainability. To realize this goal, acceptability by a majority of the beneficiaries and minimal effects to the physical environment will require to be integrated in the project through constant consultations, evaluations and review of the design aspects throughout the project coverage. Among the factors that need to be considered in this particular project implementation will include:

- The Contractor shall hire qualified Community Liaison Officers who will be act as an inter-phase between the contractor and community. The Community Liaison Officers will be responsible for continuous engagement of the community.
- Ensure prevention of pollutants discharge into the drainage systems and pollution of public water bodies,
- Enhance integration of environmental, social and economic functions in the project implementation.
- Consider preventive measures towards possible social and economic disruptions that may arise from the project implementation in accordance with the laid down guidelines.
- The contractors and other players in the project activities be prevailed upon to implement the EMP through a sustained supervision and continuous consultations.

2801 SPECIFIC MANAGEMENT ISSUES

Management Responsibilities

In order to implement the management plan, it is recommended that a supervisor is identified to oversee environment and management aspects during construction of the project. The supervisor would also be expected to co-ordinate and monitor environmental management during construction and provide monitoring schedules during operations.

The contractor shall be required to submit, under due consideration of the ESMMP as part of the ESIA the below listed management plans.

- Occupational health and safety plan
- Traffic management plan
- Public health and safety management plan
- The provisions for the workers grievance mechanism
- Environmental and social monitoring plan (with further detail to the outline of monitoring indicators as presented in the ESMMP) below.

Environmental Management Guidelines

Upon completion and commissioning the priority projects, it will be necessary to establish appropriate operational guidelines on environmental conservation and social linkages to enable the operations' management identify critical environmental and social issues and institute appropriate actions towards minimizing associated conflicts.

Basically, the guidelines should cover among other areas environmental management programmes, standard operation procedures, compliance monitoring schedule and environmental audit schedules as required by law. Social harmony of the facilities and associated component will be achieved through collaborations with the stakeholders and settlement executive committees at the project level.

Environmental Education and Awareness Rising

The county government field staff and the other beneficiaries will need to understand the basic environmental principles associated with the projects. In this regard, therefore, the following steps will need to be considered:

- Creation of liaisons on all matters related to environment management of the facilities once commissioned
- Encourage contribution of improvement ideas from the beneficiaries on specific issues related to the management of the facilities
- Establish initiatives that would instil a sense of ownership of the facilities and related components to all beneficiaries,

Decommissioning Process

Due to the long-term life of the intervention facilities and related components, a decommissioning audit will be undertaken at least 1 year before the process for any of the components commences, following a notice to decommission. The decommissioning process will be guided by a comprehensive decommissioning plan developed through the decommissioning audit process. However, the following features will need to be decommissioned upon completion of the works:

- Contractor's camp and installations that will need to be removed without compromising on the safety and general welfare of the immediate residents. Special care to be given to associated wastes and dust emitted in the process,
- Materials stores that will comprise fresh materials and used items. Each category will be moved safely out of site ensuring minimal or no impacts to the related environment and social setting,
- Wastes and debris holding sites will be cleared with maximum re-use of the debris either on surfacing the passageways or other grounds such as schools and church compounds.

2802 MEASUREMENTS AND PAYMENTS

Section Number 28.00 of the Bill of Quantities contains Itemized bills for the provision and Implementation of the Environmental and Social Management and Monitoring Plans Implementation.

B-2: Special Specifications for Street Lighting

B-2: SPECIAL SPECIFICATIONS FOR INTEGRATED SOLAR LED STREETLIGHTING WORKS

PREAMBLE TO SPECIFICATION

1. This section gives the specifications for lighting columns and brackets made from Class C galvanized steel, including lighting columns mounted on other structures, solar panels, LED lighting, batteries, controllers and other accessories.
2. The specification stipulates the minimum requirements for street lighting accessories, for use in the project and it shall be the responsibility of the supplier to ensure adequacy of the design, good engineering practice, adherence to the specification and applicable standards and regulations as well as ensuring good workmanship in the manufacture of the items.
3. The Engineer could give additional instructions to supplement the specification.
4. The specification is to be read in conjunction with the drawings which are issued with it.
5. Bills of quantities shall be the basis of all additions and omissions during the progress of works.
6. These specifications describe the basic requirements for equipment. Tenderers are requested to submit with their offers the detailed specifications **from ISO Certified solar equipment manufacturers**, drawings, catalogues, etc. for the products they intend to supply. Tenderers who submit superior facilities will be considered. **Downloads from the internet will not be accepted.**
7. Tenderers **MUST** only offer **one set** of detailed specifications per equipment. Failure to comply will render the bid non-responsive.
8. Tenderers must indicate on the specifications sheets whether the equipment offered comply with each specified requirement.
9. All the dimensions and capacities of the equipment to be supplied shall not be less than those required in these specifications. Deviations from the basic requirements, if any, shall be explained in detail in writing with the offer, with supporting data such as calculation sheets, etc. The procuring entity reserves the right to reject the products, if such deviations shall be found critical to the use and operation of the products.
10. The tenderers are requested to present information along with their offers as follows:
 - i. Shortest possible delivery period of each product.
 - ii. Information on proper representative and/or workshop for back-up service/repair and maintenance including their names and addresses.
11. All offered equipment must comply with the relevant Kenyan Standards for such equipment.

SOLAR STREET LIGHTING

1.1. System Description

An integrated solar photovoltaic LED street lighting system is an outdoor lighting unit comprising a PV Module, driver, cable, storage battery, charge controller, switching module, motion sensors and an LED luminaire. The luminaire is mounted on the pole at a suitable height and angle to maximize illumination on the ground. The system should be installed in direct sunlight without any hindrance such as shading. There should not be any shadows falling on the PV modules during day time. The switching module should activate the lights at dusk and turn them off at dawn automatically.

1.2. System Components

1.2.1. PV module, Battery, and LED luminaire specifications

Item	Component	Specification
1	System	<ul style="list-style-type: none"> a) Input voltage $\geq 240V$ b) Input frequency $\geq 50Hz$
2	PV module	<ul style="list-style-type: none"> a) Peak power $\geq 60Wp$ b) Panel type: Monocrystalline c) Panel voltage: 17Vmp, 21Voc d) Dimming profile: 30% dusk to dawn, 100% on motion
3	Charge controller	<ul style="list-style-type: none"> a) Type: MPPT b) Power rating: 35W
4	Battery	<ul style="list-style-type: none"> a) Voltage: 12.8V b) Capacity: 30Ah c) Type: Lithium Ferro Phosphate d) Service: 2000 charge-discharge cycles. e) Location: inside luminaire
5	Light source	<ul style="list-style-type: none"> a) White LED 5700K b) Power rating: 35W c) DLOR: $\geq 90\%$ d) W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser. e) LED Chip should be compliant to IES LM-80 (Approved Method for Measuring Lumen Maintenance of LED Light Sources and LED lumen depreciation time to L70). Test report for same should be submitted.

Item	Component	Specification
6	Light output	<ul style="list-style-type: none"> a) Luminous flux ≥ 6000 lumen b) Lumen efficacy ≥ 175lm/W c) Correlated Colour Temperature (CCT) ≥ 5700K d) Colour Rendering Index (CRI) ≥ 70 e) For single light level: Minimum 29 Lux when measured at a point 6m directly below the light. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred. f) For multiple light levels: The luminaire should have two levels of light to take care of different lighting needs during the night. Minimum 29 Lux when measured at a point 6m directly below the light (at High illumination level). The illumination should be uniform without dark bands or abrupt variations. Minimum 15 Lux at lower illumination level. (Higher light output will be preferred) g) The luminaire shall be tested for Electrical, Photometry and Colour parameters as per the latest IES standard for the following performance parameters: Illuminance, CCT, CRI, and Lumen efficacy. h) Require validation report using .ies file, which is generated during luminous intensity distribution test and using maintenance factor 0.8 and pole height of 6m., road width 8m and pole span 25m. The average illuminance level and uniformity should comply with requirement as per the latest IES standards, wherever applicable. i) The luminaire should be tested for all type tests as per IEC 60598-2-3 standards.
7	Temperature	<ul style="list-style-type: none"> a) Ambient temperature range: 0 to +35°C b) Ambient temperature range for charging: 0 to +45°C c) Ambient temperature range for discharging: -20 to +35°C
8	Mounting	<ul style="list-style-type: none"> a) Pole height 6m above the ground level b) Buried 1m below the finished ground c) Luminaire shall be at least 8 m above the ground level.
9	Lifespan	50,000h (L70B50)
10	Driver efficiency	$\geq 90\%$
11	Switching	In-built motion sensors
12	Ingress protection	$\geq IP65$
13	Impact resistance	$\geq IK08$
14	Radiated emission test	As per the latest version of CISPR-15

Item	Component	Specification
15	Electrostatic discharge (ESD) and radiated susceptibility test	As per IEC 61547
16	Optical cover/lens	UV stabilized polycarbonate cover
17	Warranty	Minimum 10 years
18	Manufacturing/ Compliance standards	Relevant and latest parts of IEC 61000, IEC 61347, IEC 60921, IEC 60923, IEC 60598, IEC 62717.

1.2.2. Street lighting pole specifications

Item	Component	Specification				
1	Material	Concrete				
1.1		The concrete poles shall conform to the standard sizes and characteristics given in the Table below based on KS 1933				
2	Height	10m				
3	Size and Characteristic	Pole Length (m)	Top Diameter (mm)	Ultimate Load (kN)	Strength Class	Clamping Length (m)
		10	190	7.5	75SC	1.6
4	Pole Taper	13mm per meter				
5	Safety Factor	2.5				
6	Transportation and Storage	In accordance with KS 1933				

B-3: Special Specifications for Sewerage Works

SEWERAGE WORKS

1.1 PIPELINE MATERIALS AND WORKS.

Definitions

Sewerage works include the structures, devices, equipment and appurtenances intended for collection, transportation and treatment of sewage and other liquid wastes, e.g. gravity pipelines, manholes, flush intakes, treatment works etc.

1.2 Materials

General

All pipes, couplings, gaskets, lubricants, seals, coupling machinery etc., necessary for the proper construction of the pipe works as detailed in the Bills of Quantities and Drawings, shall be supplied by the Contractor.

The Contractor shall be responsible for ensuring that the pipes, couplings and other fittings laid or installed on each section of the work are of the standard and pressure classification specified as appropriate to the circumstances, and are manufactured of the specified materials.

The Resident Engineer reserves his right to refuse any materials that in his opinion are inferior. The Resident Engineer also has the right to test any material upon delivery, and materials found defective shall be replaced forthwith by the Contractor.

If the Contractor procures materials of different specifications in respect of flanges and threaded. (Imperial units-metric units), he shall at his own cost provide all adaptors and other fittings necessary to make connections to the satisfaction of the Resident Engineer.

All materials shall be marked as specified in the relevant current British or ISO Standards for easy identification on site.

Concrete and Steel Reinforcement

Concrete and reinforcement for sewerage work shall comply with the specifications mentioned in Chapter 3 and the detailed drawings.

Concrete Pipes

i. General

Precast concrete pipes and fittings shall comply with BS 5911: Part 100. Minimum crushing test loads shall be as specified in Table 7 of the said Standard.

Where plot chambers are connected directly to the main sewer, the connection shall be done by oblique-angled junctions with an angle of 45 degrees.

Internal diameters in *mm* of concrete pipes commonly used in sewerage projects are as follows:

150, 225, 300, 375, 450, 525, 600, 760, 825, 900 and 1050.

iii. Concrete pipes with flexible joints

The joints of pipes and junction shall be of a type which is able to maintain a maximum angular and straight movement as shown in the following table, without loss of water tightness under the pressure testing.

Internal Diameter	150	225	300	375	450	525
Angular Movement (°)	1.67	1.19	0.89	0.72	0.6	0.5

Concrete Pipes with Rigid Joints

The joints of pipes and junctions shall be sealed with mortar mix 1:3.

Unplasticised Polyvinyl Chloride (up) Pipes.

All uPVC pipes and fittings shall comply with the ISO-standard 4435 or BS 4660: 1973/78 and BS 5481: 1977. Nominal outside diameter and nominal wall thickness of the uPVC pipes are shown in the following table.

	Nominal Outside diameter	160	200	250	315
Class 41	Nominal wall thickness (mm)	3.9	4.9	6.1	7.7
Class 34	Nominal wall thickness (mm)	4.7	5.9	7.3	9.2

Pipes and fittings shall be golden brown approximately to color 414 of BS 381 C.

Ductile Iron Pipes

Ductile iron pipes and fittings shall comply with BS 4772 or ISO 2531. The pressure rating of the pipe shall be for a minimum working pressure of 2.5 N/mm².

Joints in pipe bridges are flanged, spigot-socket or Viking Johnson couplings.

Pipes and fittings shall be coated inside and outside with a hot pipes material complying with the requirements of BS 4164 "Coal tar based hot applied coating materials for protecting iron and steel" or with a cold applied material complying with BS 3416" Black bitumen coating solutions for cold application", Type 1 material.

Sluice Valves

Sluice Valves shall comply with BS 5163, PN 10. They shall be flanged in accordance with BS 4772, PN 10.

Precast Concrete Covers

Concrete covers to be manufactured according to the detailed drawings.

Cast Manhole Covers

Standard triangular Heavy-duty frame and cover according to BS 497. Ref. A2 - 19½.

Covers for Plot Chambers

Grade C (light duty) single seal recessed type inspection cover and frame according to BS 497 ref. C8 - 24/18 151.2.9 Manhole Step Iron.

All steel to be hot dip galvanized according to BS 729. All steel surfaces exposed to sewage shall be coated with black bitumen coating to BS 3416, TYPE I material.

1.3 Handling and Storing Materials

General

The method of transportation, handling and storing of pipes and fittings shall be in accordance with the manufacturer's recommendations.

Pipes, valves, specials and other materials shall be handled, moved, lifted or lowered with the least possible impact. Handling equipment shall be of approved type. In slinging pipes only flat slings shall be used and the use of chain slings, hooks or other devices working on scissors or grab principles shall not be permitted. Pipes shall be slung from two or more points as the Resident Engineer may direct and the Slinging, lifting and lowering shall be in the hands of a competent and

experienced man. Care shall be taken to keep pipes and fittings clean and free from soil, mud, dirty water, solvents chemicals etc.

Subject to the requirements of inspection before acceptance, protective bolsters, caps or discs on the ends of flanges of pipes or specials shall not be removed until the pipes or specials are about to be lowered into the trench. Every precaution shall be taken to prevent damage to internal linings or external coatings.

Pipes in storage shall be supported clear of the ground on approved supports and adequately braced to prevent rolling. ***They shall not be stacked more than four tiers high*** without the approval of the Resident Engineer.

Materials of different classification shall be stored separately. All pipes and associated material shall at all times be protected from sun and weather to the satisfaction of the Resident Engineer.

No valves shall be lifted by the spindle. No valves, fittings or specials shall be stacked more than one tier high without the permission of the Resident Engineer, and they shall not be stored in a dirty place or condition and shall not be allowed to become embedded in earth, sand, stone, aggregate, water, fuel, or any other deleterious matter. Valves and their ancillary equipment shall be protected before and after erection against collapse of earthworks, falls of materials, concrete and cement droppings, wood and other matter.

Shortly before the laying or fixing any valve, pipe or fitting the Contractor shall in the presence of the Resident Engineer or his representative carefully examine each valve, pipe and fitting to ascertain damage or defect occasioned to the valves, pipes and fittings during loading, unloading, handling, storage and transportation. All damage and all defects revealed by this examination shall be repaired and remedied by the Contractor.

Transportation of up Pipes

The full length of the pipe shaft shall rest on the loading area of the lorry. Overhanging of pipes, to prevent sagging and deformation shall be avoided. Rough handling and dragging of pipes and fittings shall be avoided.

Storing of uPVC-Pipes

uPVC-pipes shall not be stored on each other to a height exceeding 1.5 m. Pipes shall be staggered to prevent the sockets to rest on the shaft of the pipes. The first tier shall be placed on a well-drained layer of sand. All pipes and fittings shall be protected from sunlight by use of tarpaulins. Grass cover will not be accepted.

1.4 Excavation of Trenches

General

The trench excavation and timbering shall be done according to Chapter 2.

Trench Width

The minimum trench width shall be according to the detailed Drawings, corresponding to the minimum width indicated below.

Concrete Pipes (mm)	150	225	300	375	450	525	600	675	760	825	900
Width of Trench (mm)	600	675	750	875	975	1100	1225	1325	1450	1550	1650

uPVC Pipes (mm)	100	160	200	250	315
Width of Trench (mm)	460	500	550	615	-

1.5 Laying and Jointing

General

All laying and jointing of pipes except jointing of uPVC and polythene pipes shall be in conformity with CP 301 and CP 2010.

The bottom of the trench or surface of the bed shall be finished to a smooth even surface at the correct level to permit the barrel of the pipe to rest on the surface throughout its whole length between joint and sling holes. If considered necessary by the Resident Engineer, fine-screened material shall be placed and consolidated in the trench bottom to provide such a bed. The bottom of the trench and pipe bed shall be inspected by the Resident Engineer, and only when passed as satisfactory shall pipe laying commence. In General, the preparation of the trench bottom and bed shall be completed for a length of one pipe in advance of the pipe laying.

Each pipe shall be laid accurately to line, level and gradient so that, except where otherwise directed, the finished pipeline shall be in a straight line both in horizontal and vertical plans. The levels and gradients shown on the Drawings shall be rigidly adhered to unless otherwise ordered by the Resident Engineer.

Where lines of pipes are to be constructed, the Contractor shall provide and fix, at such points as may be directed, properly painted and securely positioned sight rails, the levels and positions of which shall be examined and checked by the Resident Engineer before the rails are used and as often thereafter as may be necessary.

There shall at no time be less than three sight rails in position on each length of pipeline under construction to any one gradient, and the sight rails shall be situated vertically above the line of pipes or immediately adjacent thereto.

Pipes shall be lowered singly into the trench, brought to the correct alignment and inclination bedded throughout their length, and properly jointed strictly in accordance with the manufacturer's instructions. Unless otherwise approved by the Resident Engineer, pipes shall be laid in an upstream direction and the socket of the pipes shall face upstream and every pipe shall be concentric with the previous one.

Notwithstanding any flexibility provided in pipe joints, pipes must be securely positioned to prevent movement during and after the making of a joint. On screw and socket joints threads shall be coated with an approved tape to ensure water tightness.

Long radius curves in the pipeline shall be negotiated by deflections taken up in the joints or pipes of one or more lengths of pipes. The deflection at each of the various types of joint of pipes used in the Works shall not exceed the manufacturer's specifications.

The Contractor shall take care that all pipes and couplings are clean and free of foreign matter before subsequent sections are jointed.

The Contractor shall obtain from the manufacturer or other approved supplier the necessary tackle required for the proper jointing of the pipes.

The Contractor shall make himself and his employees acquainted with and comply with the instructions issued by the manufacturers of the various types of proprietary joints and couplings for incorporation in the Works. The Contractor shall be responsible for obtaining copies of such instructions.

No person shall be employed on the jointing of pipes that is not thoroughly experienced and skilled in the particular work in hand.

Pipes shall not be cut without the permission of the Resident Engineer. The cut shall be made with an approved mechanical pipe cutter and the edges of the cut shall be clean, true and square. Threading of steel pipes shall be done with an approved device.

The normal continuity of construction may have to be interrupted at points on the pipeline pending the delivery of certain valves or specials. The exact extent of the temporary gap to be left in such instances shall be predetermined, but shall not be fixed without reference to the Resident Engineer when the Contractor shall submit for approval a sketch with dimensions showing details of the pipe and jointing arrangement to be adapted to effect ultimate closure.

Special care shall be exercised to preserve the accurate alignment of the pipeline over the extent of the temporary gaps, which may be necessary to leave.

Subject to the permission of the Resident Engineer, pipes shall be covered over with approved fill material upon successful completion of laying and joining. Joints shall be left exposed until completion of the pressure test.

Fill for surrounding and cushioning shall consist of uniformly readily compatible material free from tree roots, vegetable matter, building rubbish and excluding clay lumps retained on a 75 mmsieve and stone retained on a 25 mm sieve.

The materials for bedding shall, where ordered consist of suitable selected materials obtained from the excavations or from approved borrow pits and transported to the location where they are required.

Adequate precautions shall be taken by way of back-filling or other means to anchor each pipe securely to prevent flotation of the pipeline in the event of the trench being flooded or during concreting.

Upon successful completion of the pressure test, the pipeline shall be back-filled as specified.

Supplying of pipes is measured on linear meters. Storing, handling, laying and jointing of pipes are measured in linear meters. The rates shall include for leveling of the trench bottom, compacting the foundation, embedding the pipe together with the materials used for the bedding, testing, leansing and sterilizing all to the satisfaction of the Resident Engineer.

1.6 Concrete Pipes

i) General

Each concrete pipe or joint, immediately before being laid, shall be carefully brushed out and tested for soundness by striking with a hammer, and any pipe or joint which does not ring true or which shows in any other way any sign of being defective, shall be rejected.

Concrete pipes will be laid either in sand, gravel or concrete bedding. In cases of sand or gravel bedding the Contractor shall ensure that each pipe is supported throughout its length by the barrel according to the Bedding Factor. The pipe is to be supported at least by the quarter of the barrel for Bedding Factor 1.9. The pipes have to be bedded on a firm foundation of sand or gravel, which does not contain any hard lumps. Joint holes are to be formed in the sand to enable joints to be made and inspected but they are to be as short as practicable. In cases of concrete bedding the Contractor shall lay the pipes on precast concrete stools of the same quality of concrete used for bedding, and the stools should have the same curvature as the pipes barrel. The pipes should be adjusted to the required levels and after checking jointing and testing them, concrete bedding will be poured and compacted well at the underside of the barrel and socket of the pipes.

The types of concrete bedding to be used are shown in the drawings and described in the Bills of Quantities. If the type of bedding is not shown, it shall be as directed by the Resident Engineer.

The Contractor shall make himself and his employees acquainted with and comply with the instructions issued by the manufacturers in the correct joining process. The Contractor shall be responsible for obtaining copies of such instructions.

ii) Concrete Pipes with Flexible Joints

Concrete pipes with flexible joints will be laid in sand, gravel or concrete bedding. The type of bedding to be used for concrete pipes with flexible joints are indicated on the longitudinal drawings.

iii) Concrete Pipes with Rigid Joints

The rigid joints for concrete spigot and socket pipes shall be made as follows:

1. Before commencing the jointing operation, the socket of the previously placed pipe and the spigot of the new pipe shall be cleaned and thoroughly soaked with water.
2. The spigot shall be wrapped one complete lap with tarred hempen spun yarn and the new pipe shall be carefully drawn towards the previously laid pipe so the spigot enters the full depth into the socket of the previously laid pipe. The new pipe shall then be adjusted and fixed in its correct position in line, level and gradient and the tarred yarn shall be caulked tightly home into the socket. On completion of this operation the yarn shall not fill more than one quarter of the total depth of the socket.
3. The remainder of the socket shall be completely filled with cement mortar consisting of one part of cement to three parts of sand (1:3). The mortar filling shall terminate flush with the socket and shall be neatly trowel led to a smooth finish around the pipe.
4. To assist the curing of the mortar the Contractor shall cover the joints immediately after they are made with a layer of Hessian which shall be kept continuously wet during daylight hours and he shall further adopt such other measures as the Resident Engineer may direct.

Provided the Contractor has the Resident Engineer's written consent other means of jointing may be adopted. The Resident Engineer's instructions in regard to other jointing materials must be strictly complied with. Concrete pipes with rigid joints will always be laid in concrete bedding with the appropriate bedding factor being shown in the drawings or specified in the Bills of Quantities.

Therefore, shall all bedding indicated on the drawings as bedding factor 1.5 and 1.9 be carried out according to a bedding factor of 2.6.

uPVC Pipes

Shortly before laying of pipes or fittings the Contractor shall in the presence of the Resident Engineer carefully examine pipes and fittings to ascertain damage or defect occasioned to the pipes and fittings during loading, unloading handling, storage and transportation. All damage and all defects revealed by this examination shall be repaired and remedied to the satisfaction of the Resident Engineer.

Pipes shall be lowered singly into the trench, brought to the correct alignment and inclination, bedded throughout their length, and properly jointed strictly in accordance with the manufacturer's instructions.

The pipes shall be laid on sand or gravel bedding as shown on the detailed drawing. The sand or gravel must not contain any hard lumps. In road reserves all uPVC pipes should be protected by concrete slabs, when the distance from road surface to top of pipe is less than 1,200 mm, and where it is shown on drawings. The Contractor shall take care that all pipes and fittings are clean and free of foreign matter before subsequent sections are jointed.

1.7 Concrete Manholes and Plot Chambers

Manholes shall be constructed on sewer lines in the positions indicated on the plan drawings or wherever ordered by the Resident Engineer.

Manholes on pipe sewers shall be constructed with an in-situ base as detailed on the drawings which shall be raised to form the benching and channels shall be carefully formed to shape according to the number, diameter and positions of the incoming and outgoing pipes. The channels in the manhole bases shall have circular inverts. The benching shall be sloped towards the channels at a gradient of 1 in 5.

Benching shall be carried out in concrete mix 1:3:6 and rendered with 10 mm 1:3 cement mortar. The ends of all pipes entering and leaving the manholes are to be carefully cut to shape to suit the internal dimensions of the manholes.

The manholes shall be constructed in accordance with drawings of typical and special manholes. Concrete pipes for plot connections are to be inserted in the manhole where directed by the Resident Engineer.

Precast concrete chamber rings shall have a wall thickness of at least 150 mm. The lowest chamber ring shall be bedded in 1:2 cement mortars.

Adjacent chamber rings shall have ogee joints; chamber rings bearing on manhole bases shall have the appropriate edge square. This edge shall contain a shallow U-chase to assist the bedding of the rings or slabs.

Plot chambers of block work shall be carried out as specified on the drawings and reinforced with hoop irons in every shift. The block work shall be rendered internally with 10 mm cement mortar, 1:3.

Step irons as detailed on the drawings shall be provided in manholes deeper than 1.20 meters.

1.8 Testing

A water test shall be applied for concrete pipes as specified in B.S. C.P. 301 after laying and jointing the pipeline and before backfilling or placing concrete surround or bedding concrete, to reveal cracked or porous pipes and faulty joints. Any leakage including excessive sweating which causes a drop in the test water level will be visible and the defective part of the work shall be rectified.

Should the Resident Engineer so direct, manholes shall be tested by completely filling with water, and there shall be no appreciable loss over a period of 2 hours.

On completion of works, or at suitable intervals during construction, infiltration tests shall be carried out. The permissible amount of infiltration shall be 2 liters of water per minute per kilometre of sewer line of any diameter. The test should be carried out by inserting suitable strutted plugs in the low end of the pipelines and in the connections, if necessary, and by filling the system with water.

For small pipes a knuckle bend may be temporarily jointed in at the top and a sufficient length of Vertical pipe jointed to it in order to provide the required test head. Alternatively, the required test head may be applied by means of a small-bore pipe leading from a suitable container and connected to a plug.

Precautions should be taken by strutting or otherwise to prevent any movement of the pipeline during the test.

A test pressure of 1.2 m head of water above the soffit of the drain should be applied at the high end but not more than 2.4m. at the low end. Steeply graded drains should be tested in stages where the above maximum head would be exceeded if the whole section were tested at once.

The loss of water over a period of 30 minutes should be measured by adding water from a measuring vessel at regular intervals of 10 minutes and noting the quantity required to maintain the original water level in the standpipe. The average quantity of water added for drains up to 300 monomial bore should not exceed 0.06 liter per hour per 100 linear meters per millimeter of nominal bore of the drain.

A water test shall be applied for uPVC pipes as specified in DIN 4033 paragraph 7.2 after laying and jointing the pipeline and before backfilling to reveal faulty joints. No backfilling of the trench will be allowed before the water test has been carried out successfully. The water test for uPVC pipe shall be carried out as follows:

The pipe line shall be filled with water and air pockets shall be removed. The pipeline shall for at least 1 hour is exposed for an internal pressure of 5 m water column. Eventually water losses

Occurring during that time shall be restored. Testing is to be carried out for a period of 15 minutes where the pipes are exposed under internal pressure of 5 m water column. During that time there must be no loss of water.

1.9 Refilling of Trenches

Refilling in Common Excavation

The refilling of excavations shall be commenced as soon as practicable after the permanent works have been tested where so required and inspected and approved by the Resident Engineer. No back-filling shall commence without the Resident Engineer's authorization. In particular the back-filling of trenches shall be carried out expeditiously so as to reduce lengths of trenches open at any one time. The back-filling to a depth of 250 mm above the top of the construction shall be placed immediately the work is ready to receive it, in order to protect the construction from the sun.

Backfill to a depth of minimum 300 mm above the top of the pipe shall be suitable fine material with max. particle size 20 mm, placed in layers of 50 mm kept at the same level on each side of the pipe and rammed to a density of 90% modified AASHO.

Further back-filling shall be executed with selected materials in 150 mm layers (300 mm layers if a mechanical rammer is used) each layer being well rammed and watered to obtain the maximum compaction. Care shall be taken to ensure that no stone or other material, which could damage pipes or other work, is placed within 500 mm of such work.

Regardless of the means of back-filling adopted, it is the Contractor's responsibility to ensure that he satisfactorily back-fills all excavations and causes no damage to the permanent work or adjacent structures, and he shall at his own expense take all steps necessary to comply with this obligation. Water in excess may not be used in settling of the back-filling.

The Contractor shall at all times be responsible for damage caused to permanent work through his backfilling operations or through the premature opening of a back-filled surface to traffic.

If the original soil is not water-bearing, the cohesion less material used for refilling should at intervals be interrupted by barriers of impermeable material in order to prevent a flow along the trench.

Refilling in Rock

The fill material in rock excavation shall consist of coarse sand, gravel or soil of friable nature not exceeding 20 mm and approved by the Resident Engineer. Rock fill must only be used when a layer of minimum 500 mm sand gravel, gravel or soil of friable nature has been carefully compacted by hand.

Environmental and Social (ES) requirements

Sub-Clause/ Clause No.	Sub-Clause/ Clause	Remarks
4.1	<i>Contractor’s General Obligations</i>	<p><i>If the Contract specifies that the Contractor shall design any part of the Permanent Works, state any applicable technical standards and requirements including to address:</i></p> <ul style="list-style-type: none"> • <i>climate change considerations,</i> • <i>universal access,</i> • <i>risks of the public’s potential exposure to operational accidents or natural hazards, including extreme weather events, applicable certification or approval requirements</i> <p><i>[Refer to ESS4 on requirements for design]</i></p>
4.6	<i>Co-operation</i>	<p><i>Indicate specific aspects (if any) that require contractor’s cooperation such as to conduct environmental and social assessment.</i></p>
4.8	<i>Health and Safety Obligations</i>	<p><i>Indicate if there would be a health service provider.</i></p> <p><i>Indicate if access to or provision of services that accommodate physical, social and cultural needs of Contractor’s Personnel is required.</i></p> <p><i>Indicate any additional requirements for the health and safety manual</i></p>
4.18	<i>Protection of the Environment</i>	<p><i>Specify any values for emissions, surface discharges, effluent and any other pollutants from the Contractor’s activities that shall not be exceeded. The Contractor’s MSIP/CESMP shall set out the measures the Contractor will take to ensure compliance with these limit values.</i></p>
4.21	<i>Security of the Site</i>	<p><i>State any additional requirements for the security arrangements (ESS4 of the ESF states the principles of proportionality, GIIP and applicable Laws.) Include any other requirement set out in the ESCP.</i></p>

Sub- Clause/ Clause No.	Sub-Clause/ Clause	Remarks
4.23 (c)	<i>Archeological and Geological Findings</i>	<i>Specify other requirements if any in accordance with the ESF – ESS8</i>
6.2	<i>Rate of Wages and Conditions of Labour</i>	<i>State applicable requirements in accordance with the labour management procedure.</i>
6.5	<i>Working Hours</i>	<i>State applicable requirements in accordance with the labour management procedure.</i>
6.28	<i>Traning of Contractor’s Personnel</i>	<i>As set out in the ESCP, specify, details of any training to relevant Contractor’s Personnel to be provided by the Employer’s Personnel on environmental and social aspects. (whom, what, when, where, how long etc.)</i>

In addition to provisions in the above table, the Employer shall specify the following as applicable.

Management and Safety of Hazardous Materials

As applicable, specify requirements for the management and safety of hazardous materials (see ESF - ESS4 para. 17 and 18 and relevant guidance notes).

Resource Efficiency and Pollution Prevention and Management

As applicable specify Resource Efficiency and Pollution Prevention and Management measures (see ESF -ESS3 and relevant guidance notes).

- **Resource efficiency**

The Employer shall specify, as applicable, measures for improving efficient consumption of energy, water and raw materials, as well as other resources.

- **Energy:** *When the Works have been assessed to involve a potentially significant use of energy, specify any applicable measures to optimize energy usage.*
- **Water:** *When the Works have been assessed to involve a potentially significant use of water or will have potentially significant impacts on water quality, specify any applicable measures that avoid or minimize water usage so that the Works’ water use does not have significant adverse impacts on communities, other users and the environment.*

- **Raw material:** *When the Works have been assessed to involve a potentially significant use of raw materials, specify any applicable measures to support efficient use of raw materials.*
- **Pollution prevention and management**
 - **Management of air pollution:** *specify any measure to avoid or minimize Works related air pollution. See also Sub-Clause 4.18 of the Special Provisions and the table above on Conditions of Contract that make reference to ES matters in the Specification.*
 - **Management of hazardous and nonhazardous wastes:** *specify any applicable measures to minimize the generation of waste, and reuse, recycle and recover waste in a manner that is safe for human health and the environment including storage, transportation and disposal of hazardous wastes. See also Sub-Clauses 4.8 and 4.18 of the Special Provisions and the table above on Conditions of Contract that make reference to ES matters in the Specification.*
 - **Management of chemicals and hazardous materials:** *specify any applicable measures to minimize and control the release and use of hazardous materials for Works activities including the production, transportation, handling, and storage of the materials. See also Sub-Clauses 4.8 and 4.18 of the Special Provisions and the table above on Conditions of Contract that make reference to ES matters in the Specification.*
- **Biodiversity Conservation and Sustainable Management of Living Natural Resources**

The Employer shall specify, as applicable, Biodiversity Conservation and Sustainable Management of Living Natural Resources (see ESF - ESS6 and relevant guidance notes). This includes, as applicable:

- *invasive alien species: managing the risk of invasive alien species during the execution of the Works;*
- *sustainable management of living natural resources; and*
- *certification and verification requirements for the supply of natural resource materials where there is a risk of significant conversion or significant degradation of natural or critical habitats.*

See also Sub-Clause 4.18 of the Special Provisions and the table above on Conditions of Contract that make reference to ES matters in the Specification.

- **Road Safety**
 - *State any specific traffic and road safety requirement, as applicable. See also Sub-Clause 4.15 of the Special Provisions. For details, refer to the Guidance Note on Road safety.*

50.1.a.i.1.1 Payment for ES Requirements

The Employer's ES and procurement specialists should consider how the Contractor will cost the delivery of the ES requirements. In the majority of cases, the payment for the delivery of ES requirements shall be a subsidiary obligation of the Contractor covered under the prices quoted for other Bill of Quantity items. For example, normally the cost of implementing work place safe systems of work, including the measures necessary for ensuring traffic and road safety, shall be covered by the Bidder's rates for the relevant works. Alternatively, provisional sums could be set aside for discrete activities for example for HIV counselling service, and, SEA and SH awareness and sensitization or to encourage the contractor to deliver additional ES outcomes beyond the requirement of the Contract.

Key Personnel

Item No.	Position/ specialization	Minimum Relevant academic qualifications	Minimum years of relevant work experience
1	Contractor’s Representative/ Site Agent - (1No.)	<ul style="list-style-type: none"> - BSc./BEng./BTech. or Equivalent Degree in Civil Engineering - Registered Professional Engineer with EBK or Equivalent Body - Valid Practicing License 	<ul style="list-style-type: none"> iv. 15 years’ general experience v. 10 years’ specific experience in construction of bituminous paved roads vi. At least 5 years as a Site Agent in a project as in ii above but within urban setup or informal settlement of minimum value KES 1Billion.
2	Assistant Site Agent/Site Engineer – (5No.)	<ul style="list-style-type: none"> - HND Civil or Equivalent - Registered Technician Engineer with EBK or equivalent 	<ul style="list-style-type: none"> iv. 10 years’ general experience v. 8 years’ specific experience in construction of bituminous paved roads vi. At least 5 years as a Site Engineer or Assistant Site Agent in a project as in ii above but within urban setup or informal settlement
3	Surveyors – (5No.)	<ul style="list-style-type: none"> - BSc.(Survey/Geomatics/Geospatial Engineering) or equivalent. - Registered with ISK or any other equivalent body - Conversant in AUTOCAD/CIVIL 3D 	<ul style="list-style-type: none"> iv. 8 years’ general experience v. 5 years’ specific experience in construction projects vi. At least 3 years as a Surveyor in a project as in ii above but within urban setup or informal settlement

4	Environmental – (1No.)	<ul style="list-style-type: none"> - BSc. In Environmental science/Natural science or its equivalent - Registered by NEMA as a Lead expert - Valid NEMA License 	<ul style="list-style-type: none"> iv. 8 years’ general experience v. 5 years’ specific experience in construction projects vi. At least 3 years as an Environmentalist in a project as in ii above but within urban setup or informal settlement
5	Sociologist – (1No.)	<ul style="list-style-type: none"> - B.A(Sociology/Community Development/Social Work/Political Science) or its equivalent 	<ul style="list-style-type: none"> iv. 8 years’ general experience v. 5 years’ specific experience in construction projects vi. At least 3 years as a Sociologist in a project as in ii above but within urban setup or informal settlement
6	Health & Safety Officer – (1No.)	<ul style="list-style-type: none"> - Dip.(Occupational Health and Safety) or its equivalent - Be a Certified Health and Safety Officer by relevant body 	<ul style="list-style-type: none"> iv. 8 years’ general experience v. 5 years’ specific experience in construction projects vi. At least 3 years as an HSO in a project as in ii above but within urban setup or informal settlement
7	Earthworks Foreman – (5No.)	<ul style="list-style-type: none"> - Diploma (Civil Engineering) or Building Construction 	<ul style="list-style-type: none"> iii. 8 years’ general experience iv. 5 years’ specific experience in construction of bituminous paved roads
8	Pavement Works Foreman – (5No.)	<ul style="list-style-type: none"> - Diploma (Civil Engineering) or Building Construction 	<ul style="list-style-type: none"> iii. 8 years’ general experience iv. 5 years’ specific experience in construction of bituminous paved roads
9	Concrete Works Foreman (5No.)	<ul style="list-style-type: none"> - Diploma (Civil Engineering) or Building Construction 	<ul style="list-style-type: none"> iii. 8 years’ general experience iv. 5 years’ specific experience in construction of bituminous paved roads

10	Material Technologist – (5No.)	- Diploma (Civil Engineering) or Building Construction	iii. 8 years' general experience iv. 5 years' specific experience in construction of bituminous paved roads
11	Water Works Foreman – (3No.)	- Diploma (Civil Engineering) or Building Construction	iii. 8 years' general experience iv. 5 years' specific experience in construction of Water supply Distribution network and Individual Consumer connections
12	Electrical Foreman – (5No.)	- Diploma (Electrical Engineering)	i. 8 years' general experience ii 5 years' specific experience in installation of integrated solar street lights and/or public lighting
13	Graduate Engineers on Training (5No.)	- BSc (Civil Engineering)	Fresh Graduate to a maximum of 3 years general experience in civil engineering works. Note: At least one trainee must be a female.

Drawings

The Drawings are provided separately as Volume 2 of 3.

Supplementary Information

PART 3 – Conditions of Contract and Contract Forms

Section VIII - General Conditions of Contract

Section VIII - General Conditions of Contract

These General Conditions of Contract (GCC), read in conjunction with the Particular Conditions of Contract (PCC) and other documents listed therein, should be a complete document expressing fairly the rights and obligations of both parties.

These General Conditions of Contract have been developed on the basis of considerable international experience in the drafting and management of contracts, bearing in mind a trend in the construction industry towards simpler, more straightforward language.

The GCC can be used for both smaller admeasurement contracts and lump sum contracts.

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General Conditions of Contract

A. General

1. Definitions

Boldface type is used to identify defined terms.

- (a) The “**Accepted Contract Amount**” means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.
- (b) The “**Activity Schedule**” is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump-sum contract. It includes a lump-sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events.
- (c) The “**Adjudicator**” is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in GCC Clause 23.
- (d) “**Bank**” means the financing institution **named in the PCC**.
- (e) “**Bill of Quantities**” means the priced and completed Bill of Quantities forming part of the Bid.
- (f) “**Compensation Events**” are those defined in GCC Clause 42 hereunder.
- (g) The “**Completion Date**” is the date of completion of the Works as certified by the Project Manager, in accordance with GCC Sub-Clause 55.1.
- (h) The “**Contract**” is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC Sub-Clause 2.3 below.
- (i) The “**Contractor**” is the party whose Bid to carry out the Works has been accepted by the Employer.
- (j) The “**Contractor’s Bid**” is the completed bidding document submitted by the Contractor to the Employer.
- (k) The “**Contract Price**” is the Accepted Contract Amount stated in the Letter of Acceptance and

thereafter as adjusted in accordance with the Contract.

- (l) **“Days”** are calendar days; months are calendar months.
- (m) **“Dayworks”** are varied work inputs subject to payment on a time basis for the Contractor’s employees and Equipment, in addition to payments for associated Materials and Plant.
- (n) A **“Defect”** is any part of the Works not completed in accordance with the Contract.
- (o) The **“Defects Liability Certificate”** is the certificate issued by Project Manager upon correction of defects by the Contractor.
- (p) The **“Defects Liability Period”** is the period **named in the PCC** pursuant to GCC Sub-Clause 36.1 and calculated from the Completion Date.
- (q) **“Drawings”** means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Employer in accordance with the Contract, include calculations and other information provided or approved by the Project Manager for the execution of the Contract.
- (r) The **“Employer”** is the party who employs the Contractor to carry out the Works, **as specified in the PCC**.
- (s) **“Equipment”** is the Contractor’s machinery and vehicles brought temporarily to the Site to construct the Works.
- (t) **“In writing”** or **“written”** means hand-written, type-written, printed or electronically made, and resulting in a permanent record;
- (u) The **“Initial Contract Price”** is the Contract Price listed in the Employer’s Letter of Acceptance.
- (v) The **“Intended Completion Date”** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is **specified in the PCC**. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.

- (w) **“Materials”** are all supplies, including consumables, used by the Contractor for incorporation in the Works.
- (x) **“Plant”** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.
- (y) The **“Project Manager”** is the person **named in the PCC** (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract.
- (z) **“PCC”** means Particular Conditions of Contract.
- (aa) The **“Site”** is the area **defined as such in the PCC**.
- (bb) **“Site Investigation Reports”** are those that were included in the bidding document and are factual and interpretative reports about the surface and subsurface conditions at the Site.
- (cc) **“Specification”** means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager.
- (dd) The **“Start Date”** is **given in the PCC**. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.
- (ee) A **“Subcontractor”** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.
- (ff) **“Temporary Works”** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.
- (gg) A **“Variation”** is an instruction given by the Project Manager which varies the Works.
- (hh) The **“Works”** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, **as defined in the PCC**.
- (ii) **“Contractor’s Personnel”** refers to all personnel whom the Contractor utilizes on the Site or other

places where the Works are carried out, including the staff, labor and other employees of each Subcontractor.

- (jj) **“Key Personnel”** means the positions (if any) of the Contractor’s personnel that are stated in the Specification.
- (kk) **“ES”** means Environmental and Social (including Sexual Exploitation and Abuse (SEA) and Sexual Harassment (SH);
- (ll) **“Sexual Exploitation and Abuse” “(SEA)”** means the following:
 - “Sexual Exploitation”** is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;
 - “Sexual Abuse”** is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
- (mm) **“Sexual Harassment” “(SH)”** is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the Contractor’s Personnel with other Contractor’s or Employer’s Personnel; and
- (nn) **“Employer’s Personnel”** refers to the Project Manager and all other staff, labor and other employees (if any) of the Project Manager and of the Employer engaged in fulfilling the Employer’s obligations under the Contract; and any other personnel identified as Employer’s Personnel, by a notice from the Employer or the Project Manager to the Contractor.

- 2. Interpretation** 2.1 In interpreting these GCC, words indicating one gender include all genders. Words indicating the singular also include the plural and words indicating the plural also include the singular. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about these GCC.

- 2.2 If sectional completion is **specified in the PCC**, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).
- 2.3 The documents forming the Contract shall be interpreted in the following order of priority:
- (a) Agreement,
 - (b) Letter of Acceptance,
 - (c) Contractor’s Bid,
 - (d) Particular Conditions of Contract,
 - (e) General Conditions of Contract, including Appendices,
 - (f) Specification,
 - (g) Drawings,
 - (h) Bill of Quantities,¹ and
 - (i) any other document **listed in the PCC** as forming part of the Contract.
- 3. Language and Law**
- 3.1 The language of the Contract and the law governing the Contract are **stated in the PCC**.
- 3.2 Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Employer’s country when
- (a) as a matter of law or official regulations, the Borrower’s country 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, the Borrower’s Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.
- 4. Project Manager’s Decisions**
- 4.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.

¹ In lump-sum contracts, delete “Bill of Quantities” and replace with “Activity Schedule.”

5. **Delegation** 5.1 Otherwise **specified in the PCC**, the Project Manager may delegate any of his duties and responsibilities to other people, except to the Adjudicator, after notifying the Contractor, and may revoke any delegation after notifying the Contractor.
6. **Communications** 6.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.
7. **Subcontracting** 7.1 The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations. The Contractor shall require that its Subcontractors execute the Works in accordance with the Contract, including complying with the relevant ES requirements and the obligations set out in Sub-Clause 26.1 of the General Conditions of Contract.
- 7.2 Submission by the Contractor for approval of the Project Manager, addition of any Subcontractor not named in the Contract, shall also include the Subcontractor's declaration in accordance with Appendix C- Sexual exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration
8. **Other Contractors** 8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as **referred to in the PCC**. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

9. Personnel and Equipment

- 9.1 The Contractor shall employ the Key Personnel and use the Equipment identified in its Bid, to carry out the Works or other personnel and Equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of Key Personnel and Equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.
- 9.2 The Project Manager may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Key Personnel (if any), who:
- (a) persists in any misconduct or lack of care;
 - (b) carries out duties incompetently or negligently;
 - (c) fails to comply with any provision of the Contract;
 - (d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment;
 - (e) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Works;
 - (f) has been recruited from the Employer's Personnel;
 - (g) undertakes behavior which breaches the Code of Conduct for Contractor's Personnel (ES).

If appropriate, the Contractor shall then promptly appoint (or cause to be appointed) a suitable replacement with equivalent skills and experience.

Notwithstanding any requirement from the Project Manager to remove or cause to remove any person, the Contractor shall take immediate action as appropriate in response to any violation of (a) through (g) above. Such immediate action shall include removing (or causing to be removed) from the Site or other places where the Works are being carried out, any Contractor's Personnel who engages in (a), (b), (c), (d), (e) or (g) above or has been recruited as stated in (f) above.

9.3 Labor

- 9.3.1 *Engagement of Staff and Labor.* The Contractor shall provide and employ on the Site for the execution of the Works such skilled, semi-skilled and unskilled labor as is necessary for the proper and timely execution of the Contract. 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.

Unless otherwise provided in the Contract, the Contractor shall be responsible for the recruitment, transportation, accommodation and welfare facilities in accordance with GCC Sub-Clause 9.3.6, of the Contractor's Personnel, and for all payments in connection therewith.

- 9.3.2 *Conditions of Labor.* The Contractor shall pay rates of wages, and observe conditions of labor, which comply with all applicable laws. The Contractor shall inform the Contractor's Personnel about their liability to pay personal income taxes in the Country in respect of such of their salaries, wages, allowances and any benefits as are subject to tax under the Laws of the Country 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.
- 9.3.3 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 Employer will, if requested by the Contractor, use its best 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.
- 9.3.4 The Contractor shall at its own expense provide the means of repatriation to and the Contractor's Personnel employed on the Contract at the Site to their various home countries. It shall also provide suitable temporary maintenance of all such persons from the cessation of their employment on the Contract to the date programmed for their departure. In the event that the Contractor defaults in providing such means of transportation and temporary maintenance, the Employer may provide the same to such personnel and recover the cost of doing so from the Contractor.
- 9.3.5 *Disorderly conduct.* The Contractor shall at all times during the progress of the Contract use its best endeavors to prevent any unlawful, riotous or disorderly conduct or behavior by or amongst the Contractor's Personnel.
- 9.3.6 *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 Employer's Personnel as stated in the Specification.

- 9.3.7 The Contractor shall, in all dealings with the Contractor's Personnel, pay due regard to all recognized festivals, official holidays, religious or other customs and all local laws and regulations pertaining to the employment of labor. The Contractor shall provide the Contractor's Personnel annual holiday and sick, maternity and family leave, as required by applicable laws or as stated in the Specification.
- 9.3.8 *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.
- 9.3.9 *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.
- 9.3.10 *Measures against Insect and Pest Nuisance.* The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.
- 9.3.11 *Alcoholic Liquor or Drugs.* 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 thereto by Contractor's Personnel.
- 9.3.12 *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.
- 9.3.13 *Funeral Arrangements.* The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.
- 9.3.14 *Forced Labor.* The Contractor, including its Subcontractors, shall not employ or engage forced labor.

Forced labor 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.

No persons shall be employed or engaged who have been subject to trafficking. Trafficking in persons is defined as the recruitment, transportation, transfer, harboring or receipt of persons by means of the threat or use of force or other forms of coercion, abduction, fraud, deception, abuse of power, or of a position of vulnerability, or of the giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purposes of exploitation.

9.3.15 *Child Labor.* The Contractor, including its Subcontractors, shall not employ or engage a child under the age of 14 unless the national law specifies a higher age (the minimum age).

The Contractor, including its Subcontractors, shall not employ or engage a child between the minimum age and the age of 18 in a manner that 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.

The Contractor including its Subcontractors, shall only employ or engage children between the minimum age and the age of 18 after an appropriate risk assessment has been conducted by the Contractor with the Project Manager's approval. The Contractor shall be subject to regular monitoring by the Project Manager that includes monitoring of health, working conditions and hours of work.

Work considered hazardous for children is work that, by its nature or the circumstances in which it is carried out, is likely to jeopardize the health, safety, or morals of children. Such work activities prohibited for children include work:

- (a) with exposure to physical, psychological or sexual abuse;
- (b) underground, underwater, working at heights or in confined spaces;
- (c) with dangerous machinery, equipment or tools, or involving handling or

- (d) transport of heavy loads;
- (e) in unhealthy environments exposing children to hazardous substances, agents, or processes, or to temperatures, noise or vibration damaging to health; or
- (f) under difficult conditions such as work for long hours, during the night or in confinement on the premises of the employer.

9.3.16 *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 project Manager.

9.3.17 *Workers' Organizations.* In countries where the relevant labor laws recognize workers' rights to form and to join workers' organizations of their choosing and to bargain collectively without interference, the Contractor shall comply with such laws. In such circumstances, the role of legally established workers' organizations and legitimate workers' representatives will be respected, and they will be provided with information needed for meaningful negotiation in a timely manner. Where the relevant labor laws substantially restrict workers' organizations, the Contractor shall enable alternative means for the Contractor's Personnel to express their grievances and protect their rights regarding working conditions and terms of employment. The Contractor shall not seek to influence or control these alternative means. The Contractor shall not discriminate or retaliate against the Contractor's Personnel who participate, or seek to participate, in such organizations and collective bargaining or alternative mechanisms. Workers' organizations are expected to fairly represent the workers in the workforce.

9.3.18 *Non-Discrimination and Equal Opportunity.* The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working

conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices.

Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Contractor shall provide protection and assistance as necessary to ensure non-discrimination and equal opportunity, including for specific groups such as women, people with disabilities, migrant workers and children (of working age in accordance with GCC Sub-Clause 9.3.15).

9.3.19 *Contractor's Personnel Grievance Mechanism.* The Contractor shall have a grievance mechanism for Contractor's Personnel, and where relevant the workers' organizations stated in GCC Sub-Clause 9.3.17, to raise workplace concerns. The grievance mechanism shall be proportionate to the nature, scale, risks and impacts of the Contract. The mechanism shall address concerns promptly, using an understandable and transparent process that provides timely feedback to those concerned in a language they understand, without any retribution, and shall operate in an independent and objective manner.

The Contractor's Personnel shall be informed of the grievance mechanism at the time of engagement for the Contract, and the measures put in place to protect them against any reprisal for its use. Measures will be put in place to make the grievance mechanism easily accessible to all Contractor's Personnel.

The grievance mechanism shall not impede access to other judicial or administrative remedies that might be available, or substitute for grievance mechanisms provided through collective agreements.

The grievance mechanism may utilize existing grievance mechanisms, providing that they are properly designed and implemented, address concerns promptly, and are readily accessible to Contractor's Personnel. Existing grievance mechanisms may be supplemented as needed with Contract-specific arrangements.

9.3.20 *Training of Contractor's Personnel.* The Contractor shall provide appropriate training to relevant Contractor's Personnel on ES aspects of the Contract, including

appropriate sensitization on prohibition of SEA and SH, and health and safety training.

As stated in the Specification or as instructed by the Project Manager, the Contractor shall also allow appropriate opportunities for the relevant Contractor's Personnel to be trained on ES aspects of the Contract by the Employer's Personnel.

The Contractor shall provide training on SEA, including its prevention, to any of its personnel who has a role to supervise other Contractor's Personnel.

10. Employer's and Contractor's Risks

10.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's Risks

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

- (a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to
 - (i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or
 - (ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor.
- (b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

11.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer's risk except loss or damage due to

- (a) a Defect which existed on the Completion Date,
- (b) an event occurring before the Completion Date, which was not itself an Employer's risk, or
- (c) the activities of the Contractor on the Site after the Completion Date.

- 12. Contractor's Risks** 12.1 From the Starting Date until the Defects Liability Certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer's risks are Contractor's risks.
- 13. Insurance** 13.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles **stated in the PCC** for the following events which are due to the Contractor's risks:
- (a) loss of or damage to the Works, Plant, and Materials;
 - (b) loss of or damage to Equipment;
 - (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
 - (d) personal injury or death.
- 13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.
- 13.3 If the Contractor does not provide any of the policies and certificates required, the Employer may effect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.
- 13.4 Alterations to the terms of an insurance shall not be made without the approval of the Project Manager.
- 13.5 Both parties shall comply with any conditions of the insurance policies.
- 14. Site Data** 14.1 The Contractor shall be deemed to have examined any Site Data **referred to in the PCC**, supplemented by any information available to the Contractor.
- 15. Contractor to Construct the Works** 15.1 The Contractor shall construct and install the Works in accordance with the Specification and Drawings.

- 16. The Works to Be Completed by the Intended Completion Date**
- 16.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them by the Intended Completion Date.
- 16.2 The Contractor shall not carry out mobilization to the Site unless the Project Manager gives approval, an approval that shall not be unreasonably delayed, to the measures the Contractor proposes to address environmental and social risks and impacts, which at a minimum shall include applying the Management Strategies and Implementation Plans (MSIPs) and Code of Conduct for Contractor's Personnel submitted as part of the Bid and agreed as part of the Contract.
- The Contractor shall submit, to the Project Manager for its approval any additional MSIPs as are necessary to manage the ES risks and impacts of ongoing Works. These MSIPs collectively comprise the Contractor's Environmental and Social Management Plan (C-ESMP). The Contractor shall review the C-ESMP, periodically (but not less than every six (6) months), and update it as required to ensure that it contains measures appropriate to the Works. The updated C-ESMP shall be submitted to the Project Manager for its approval.
- 17. Approval by the Project Manager**
- 17.1 The Contractor shall submit Specification and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.
- 17.2 The Contractor shall be responsible for design of Temporary Works.
- 17.3 The Project Manager's approval shall not alter the Contractor's responsibility for design of the Temporary Works.
- 17.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.
- 17.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Project Manager before this use.
- 18. Health, Safety and Protection of**
- 18.1 The Contractor shall be responsible for the safety of all activities on the Site.
- 18.2 The Contractor shall:

**the
Environment**

- (a) comply with all applicable health and safety regulations and Laws;
- (b) comply with all applicable health and safety obligations specified in the Contract;
- (c) take care for the health and safety of all persons entitled to be on the Site and other places, if any, where the Works are being executed;
- (d) keep the Site and Works clear of unnecessary obstruction so as to avoid danger to these persons;
- (e) provide fencing, lighting, safe access, guarding and watching of:
 - (i) the Works until the Works are taken over by the Employer; and
 - (ii) any part of the Works where the Contractor is executing outstanding works or remedying any defects during the Defects Liability Period; and
- (f) provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and of owners and occupiers of adjacent land.

18.3 Protection of the environment

The Contractor shall take all necessary measures to:

- (a) protect the environment (both on and off the Site); and
- (b) limit damage and nuisance to people and property resulting from pollution, noise and other results of the Contractor's operations and/ or activities.

The Contractor shall ensure that emissions, surface discharges, effluent and any other pollutants from the Contractor's activities shall exceed neither the values indicated in the Specification, nor those prescribed by applicable laws.

In the event of damage to the environment, property and/or nuisance to people, on or off Site as a result of the Contractor's operations, the Contractor shall agree with the Project Manager the appropriate actions and time scale to remedy, as practicable, the damaged environment to its former condition. The Contractor shall implement such remedies at its cost to the satisfaction of the Project Manager

- 19. Archaeological and Geological Findings**
- 19.1 All fossils, coins, articles of value or antiquity, structures, groups of structures, and other remains or items of geological, archaeological, paleontological, historical, architectural or religious interest found on the Site shall be placed under the care and custody of the Employer. The Contractor shall:
- (a) take all reasonable precautions, including fencing-off the area or site of the finding, to avoid further disturbance and prevent Contractor's Personnel or other persons from removing or damaging any of these findings;
 - (b) train relevant Contractor's Personnel on appropriate actions to be taken in the event of such findings; and
 - (c) implement any other action consistent with the requirements of the Specification and relevant laws.
- The Contractor shall, as soon as practicable after discovery of any such finding, notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them..
- 20. Possession of the Site**
- 20.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date **stated in the PCC**, the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.
- 21. Access to the Site**
- 21.1 The Contractor shall allow the Project Manager and any person authorized by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
- 22. Instructions, Inspections and Audits**
- 22.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.
- 22.2 The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and subconsultants to keep, accurate and systematic accounts and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.
- 22.3 Inspections & Audit by the Bank
- Pursuant to paragraph 2.2 e. of Appendix A to the GCC-Fraud and Corruption, the Contractor shall permit and shall

cause its agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit, the Bank and/or persons appointed by the Bank to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents audited by auditors appointed by the Bank. The Contractor's and its Subcontractors' and subconsultants' attention is drawn to GCC Sub-Clause 25.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).

23. Appointment of the Adjudicator

23.1 The Adjudicator shall be appointed jointly by the Employer and the Contractor, at the time of the Employer's issuance of the Letter of Acceptance. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator, the Employer will request the Appointing Authority **designated in the PCC**, to appoint the Adjudicator within 14 days of receipt of such request.

23.2 Should the Adjudicator resign or die, or should the Employer and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Employer and the Contractor. In case of disagreement between the Employer and the Contractor, within 30 days, the Adjudicator shall be designated by the Appointing Authority **designated in the PCC** at the request of either party, within 14 days of receipt of such request.

24. Procedure for Disputes

24.1 If the Contractor believes that a decision taken by the Project Manager was either outside the authority given to the Project Manager by the Contract or that the decision was wrongly taken, the decision shall be referred to the Adjudicator within 14 days of the notification of the Project Manager's decision.

24.2 The Adjudicator shall give a decision in writing within 28 days of receipt of a notification of a dispute.

24.3 The Adjudicator shall be paid by the hour at the **rate specified in the PCC**, together with reimbursable expenses of the types **specified in the PCC**, and the cost shall be divided equally between the Employer and the

Contractor, whatever decision is reached by the Adjudicator. Either party may refer a decision of the Adjudicator to an Arbitrator within 28 days of the Adjudicator's written decision. If neither party refers the dispute to arbitration within the above 28 days, the Adjudicator's decision shall be final and binding.

24.4 The arbitration shall be conducted in accordance with the arbitration procedures published by the institution named and in the place **specified in the PCC.**

25. Fraud and Corruption

25.1 The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Appendix A to the GCC.

25.2 The Employer requires the Contractor 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 bidding 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.

26. Code of Conduct

26.1 The Contractor shall have a Code of Conduct for the Contractor's Personnel.

The Contractor shall take all necessary measures to ensure that each Contractor's Personnel is made aware of the Code of Conduct including specific behaviors that are prohibited, and understands the consequences of engaging in such prohibited behaviors.

These measures include providing instructions and documentation that can be understood by the Contractor's Personnel and seeking to obtain that person's signature acknowledging receipt of such instructions and/or documentation, as appropriate.

The Contractor shall also ensure that the Code of Conduct is visibly displayed in multiple locations on the Site and any other place where the Works will be carried out, as well as in areas outside the Site accessible to the local community and project affected people. The posted Code of Conduct shall be provided in languages comprehensible to Contractor's Personnel, Employer's Personnel and the local community.

The Contractor's Management Strategy and Implementation Plans shall include appropriate processes

for the Contractor to verify compliance with these obligations.

27. Security of the Site

of 27.1 The Contractor shall be responsible for the security of the Site, and:

- (a) for keeping unauthorized persons off the Site;
- (b) authorized persons shall be limited to the Contractor's Personnel, the Employer's personnel, and to any other personnel identified as authorized personnel (including the Employer's other contractors on the Site), by a notice from the Employer or the Project Manager to the Contractor.

The Contractor shall (i) conduct appropriate background checks on any personnel retained to provide security; (ii) train the security personnel adequately (or determine that they are properly trained) in the use of force (and where applicable, firearms), and appropriate conduct towards Contractor's Personnel, Employer's Personnel and affected communities; and (iii) require the security personnel to act within the applicable Laws and any requirements set out in the Specification.

The Contractor shall not permit any use of force by security personnel in providing security except when used for preventive and defensive purposes in proportion to the nature and extent of the threat.

In making security arrangements, the Contractor shall also comply with any additional requirements stated in the Specification.

B. Time Control

28. Program

28.1 Within the time **stated in the PCC**, after the date of the Letter of Acceptance, the Contractor shall submit to the Project Manager for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump-sum contract, the activities in the Program shall be consistent with those in the Activity Schedule. The Project Manager's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show the effect of Variations and Compensation Events.

- 28.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.
- 28.3 The Contractor shall monitor progress of the Works and submit to the Project manager progress report and any updated Program showing the actual progress achieved and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities, at intervals no longer than the period **stated in the PCC**. If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount **stated in the PCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of lump-sum Contract, the Contractor shall provide an updated Activity Schedule within 14 days of being instructed to by the Project Manager.
- 28.4 Unless otherwise stated in the Specification, each progress report shall include the Environmental and Social (ES) metrics set out in Appendix B
- 28.5 In addition to the progress report, the Contractor shall inform the Project Manager immediately of any allegation, incident or accident in the Site, which has or is likely to have a significant adverse effect on the environment, the affected communities, the public, Employer's Personnel, or Contractor's Personnel. This includes, but is not limited to, any incident or accident causing fatality or serious injury; significant adverse effects or damage to private property; or any allegation of SEA and/or SH. In case of SEA and/or SH, while maintaining confidentiality as appropriate, the type of allegation (sexual exploitation, sexual abuse or sexual harassment), gender and age of the person who experienced the alleged incident should be included in the information.

The Contractor, upon becoming aware of the allegation, incident or accident, shall also immediately inform the Project Manager of any such incident or accident on the Subcontractors' or suppliers' premises relating to the Works which has or is likely to have a significant adverse effect on the environment, the affected communities, the public, Employer's Personnel, or Contractor's, its Subcontractors' and suppliers' personnel. The notification shall provide sufficient detail regarding such incidents or accidents. The

Contractor shall provide full details of such incidents or accidents to the Project Manager within the timeframe agreed with the Project Manager.

The Contractor shall require its Subcontractors and suppliers (other than Subcontractors) to immediately notify the Contractor of any incidents or accidents referred to in this Subclause.

29. Extension of the Intended Completion Date

29.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.

29.2 The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

30. Acceleration

30.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.

30.2 If the Contractor's priced proposals for an acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.

31. Delays Ordered by the Project Manager

31.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.

32. Management Meetings

32.1 Either the Project Manager 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 in accordance with the early warning procedure.

32.2 The Project Manager shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

33. Early Warning

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

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

C. Quality Control

34. Identifying Defects

34.1 The Project Manager shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.

35. Tests

35.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.

36. Correction of Defects

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

36.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.

- 37. Uncorrected Defects** 37.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.

D. Cost Control

- 38. Contract Price²** 38.1 The Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.

- 39. Changes in the Contract Price³** 39.1 If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Initial Contract Price, the Project Manager shall adjust the rate to allow for the change. The Project Manager shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the prior approval of the Employer.

- 39.2 If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bill of Quantities.

- 40. Variations** 40.1 All Variations shall be included in updated Programs⁴ produced by the Contractor.

- 40.2 The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do so by the Project Manager. The Contractor shall also provide information of any ES risks and impacts of the Variation. The Project Manager shall assess the quotation, which shall be given within seven (7) days of the request or

² In lump-sum contracts, replace GCC Sub-Clauses 38.1 as follows:

38.1 The Contractor shall provide updated Activity Schedules within 14 days of being instructed to by the Project Manager. The Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid. If payment for materials on site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.

³ In lump-sum contracts, replace entire GCC Clause 39 with new GCC Sub-Clause 39.1, as follows:

39.1 The Activity Schedule shall be amended by the Contractor to accommodate changes of Program or method of working made at the Contractor's own discretion. Prices in the Activity Schedule shall not be altered when the Contractor makes such changes to the Activity Schedule.

⁴ In lump-sum contracts, add "and Activity Schedules" after "Programs."

within any longer period stated by the Project Manager and before the Variation is ordered.

- 40.3 If the Contractor's quotation is unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager's own forecast of the effects of the Variation on the Contractor's costs.
- 40.4 If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.
- 40.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.
- 40.6 If the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Project Manager, the quantity of work above the limit stated in GCC Sub-Clause 39.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.⁵
- 40.7 Value Engineering: 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 cost) the Employer may incur in implementing the value engineering proposal;
 - (c) a description of any effect(s) of the change on performance/functionality; and
 - (d) a description of the proposed work to be performed, a program for its execution and sufficient ES

⁵ In lump-sum contracts, delete this paragraph.

information to enable an evaluation of ES risks and impacts.

The Employer may accept the value engineering proposal if the proposal demonstrates benefits that:

- (a) accelerates the contract completion period; or
- (b) reduces the Contract Price or the life cycle costs to the Employer; or
- (c) improves the quality, efficiency, safety or sustainability of the Facilities; or
- (d) yields any other benefits to the Employer,

without compromising the functionality of the Works.

If the value engineering proposal is approved by the Employer 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 PCC** of the reduction in the Contract Price; or
- (b) an increase in the Contract Price; but results in a reduction in life cycle 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.

41. Cash Flow Forecasts

41.1 When the Program,⁶ is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast. The cash flow forecast shall include different currencies, as defined in the Contract, converted as necessary using the Contract exchange rates.

42. Payment Certificates

42.1 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.

42.2 The Project Manager shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.

42.3 The value of work executed shall be determined by the Project Manager.

⁶ In lump-sum contracts, add "or Activity Schedule" after "Program."

- 42.4 The value of work executed shall comprise the value of the quantities of work in the Bill of Quantities that have been completed.⁷
- 42.5 The value of work executed shall include the valuation of Variations and Compensation Events.
- 42.6 The Project Manager 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.
- 42.7 If the Contractor was, or is, failing to perform any ES obligations or work under the Contract, the value of this work or obligation, as determined by the Project Manager, may be withheld until the work or obligation has been performed, and/or the cost of rectification or replacement, as determined by the Project Manager, may be withheld until rectification or replacement has been completed. Failure to perform includes, but is not limited to the following:
- (a) failure to comply with any ES obligations or work described in the Works' Requirements which may include: working outside site boundaries, excessive dust, failure to keep public roads in a safe usable condition, damage to offsite vegetation, pollution of water courses from oils or sedimentation, contamination of land e.g. from oils, human waste, damage to archeology or cultural heritage features, air pollution as a result of unauthorized and/or inefficient combustion;
 - (b) failure to regularly review C-ESMP and/or update it in a timely manner to address emerging ES issues, or anticipated risks or impacts;
 - (c) failure to implement the C-ESMP e.g. failure to provide required training or sensitization;
 - (d) failing to have appropriate consents/permits prior to undertaking Works or related activities;
 - (e) failure to submit ES report/s (as described in Appendix B), or failure to submit such reports in a timely manner;

⁷ In lump-sum contracts, replace this paragraph with the following: “The value of work executed shall comprise the value of completed activities in the Activity Schedule.”

failure to implement remediation as instructed by the Project Manager within the specified timeframe (e.g. remediation addressing non-compliance/s).

43. Payments

43.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 28 days of the date of each certificate. If the Employer 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.

43.2 If an amount certified is increased in a later certificate or as a result 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.

43.3 Unless otherwise stated, all payments and deductions shall be paid or charged in the proportions of currencies comprising the Contract Price.

43.4 Items of the Works for which no rate or price has been entered in shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

44. Compensation Events

44.1 The following shall be Compensation Events:

- (a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC Sub-Clause 20.1.
- (b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.
- (c) The Project Manager orders a delay or does not issue Drawings, Specification, or instructions required for execution of the Works on time.
- (d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.

- (e) The Project Manager unreasonably does not approve a subcontract to be let.
- (f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.
- (g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
- (h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
- (i) The advance payment is delayed.
- (j) The effects on the Contractor of any of the Employer's Risks.
- (k) The Project Manager unreasonably delays issuing a Certificate of Completion.

44.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

44.3 As soon as information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.

44.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected

by the Contractor's not having given early warning or not having cooperated with the Project Manager.

45. Tax

45.1 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 28 days before the submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC Clause 47.

46. Currencies

46.1 Where payments are made in currencies other than the currency of the Employer's country **specified in the PCC**, the exchange rates used for calculating the amounts to be paid shall be the exchange rates stated in the Contractor's Bid.

47. Price Adjustment

47.1 Prices shall be adjusted for fluctuations in the cost of inputs only if **provided for in the PCC**. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due in each currency. A separate formula of the type specified below applies to each Contract currency:

$$P_c = A_c + B_c \text{ Imc/loc}$$

where:

P_c is the adjustment factor for the portion of the Contract Price payable in a specific currency "c."

A_c and B_c are coefficients⁸ **specified in the PCC**, representing the nonadjustable 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 loc is the index prevailing 28 days before Bid opening for inputs payable; both in the specific currency "c."

⁸ The sum of the two coefficients A_c and B_c should be 1 (one) in the formula for each currency. Normally, both coefficients shall be the same in the formulae for all currencies, since coefficient A, for the nonadjustable portion of the payments, is a very approximate figure (usually 0.15) to take account of fixed cost elements or other nonadjustable components. The sum of the adjustments for each currency are added to the Contract Price.

47.2 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.

48. Retention

48.1 The Employer shall retain from each payment due to the Contractor the proportion **stated in the PCC** until Completion of the whole of the Works.

48.2 Upon the issue of a Certificate of Completion of the Works by the Project Manager, in accordance with GCC Sub-Clause 55.1, half the total amount retained shall be repaid to the Contractor and half when the Defects Liability Period has passed and the Project Manager has certified that all Defects notified by the Project Manager to the Contractor before the end of this period have been corrected. The Contractor may substitute retention money with an “on demand” Bank guarantee.

49. Liquidated Damages

49.1 The Contractor shall pay liquidated damages to the Employer at the rate per day **stated in the PCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount **defined in the PCC**. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor’s liabilities.

49.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC Sub-Clause 43.1.

50. Bonus

50.1 The Contractor shall be paid a Bonus calculated at the rate per calendar day **stated in the PCC** for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete.

51. Advance Payment

51.1 The Employer shall make advance payment to the Contractor of the amounts **stated in the PCC** by the date **stated in the PCC**, against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank

acceptable to the Employer 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 shall not be charged on the advance payment.

51.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for 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 Project Manager.

51.3 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 on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.

52. Securities

52.1 The Performance Security, and if so **specified in the PCC** an environmental and social (ES) performance security, shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount **specified in the PCC**, by a bank or surety acceptable to the Employer, and denominated in the types and proportions of the currencies in which the Contract Price is payable. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee, and until one year from the date of issue of the Certificate of Completion in the case of a Performance Bond.

53. Dayworks

53.1 If applicable, the Dayworks rates in the Contractor's Bid shall be used only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.

53.2 All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.

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

- 54. Cost of Repairs** 54.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

- 55. Completion** 55.1 The Contractor shall request the Project Manager to issue a Certificate of Completion of the Works, and the Project Manager shall do so upon deciding that the whole of the Works is completed.

- 56. Taking Over** 56.1 The Employer shall take over the Site and the Works within seven days of the Project Manager's issuing a certificate of Completion.

- 57. Final Account** 57.1 The Contractor shall supply the Project Manager 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 Project Manager shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Project Manager shall issue within 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 Project Manager shall decide on the amount payable to the Contractor and issue a payment certificate.

- 58. Operating and Maintenance Manuals** 58.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates **stated in the PCC**.

58.2 If the Contractor does not supply the Drawings and/or manuals by the dates **stated in the PCC** pursuant to GCC Sub-Clause 60.1, or they do not receive the Project Manager's approval, the Project Manager shall withhold the amount **stated in the PCC** from payments due to the Contractor.

- 59. Termination** 59.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

59.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:

- (a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager;
- (b) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 28 days;
- (c) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (d) a payment certified by the Project Manager is not paid by the Employer to the Contractor within 84 days of the date of the Project Manager's certificate;
- (e) the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager;
- (f) the Contractor does not maintain a Security, which is required;
- (g) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as **defined in the PCC**; or
- (h) if the Contractor, in the judgment of the Employer has engaged in Fraud and Corruption, as defined in paragraph 2.2 a of the Appendix A to the GCC, in competing for or in executing the Contract, then the Employer may, after giving fourteen (14) days written notice to the Contractor, terminate the Contract and expel him from the Site.

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

59.4 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

59.5 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under GCC Sub-Clause 59.2 above, the Project Manager shall decide whether the breach is fundamental or not.

60. Payment upon Termination

60.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as **specified in the PCC**. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.

60.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.

61. Property

61.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor's default.

62. Release from Performance

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

**63. Suspension of
Bank Loan or
Credit**

63.1 In the event that the Bank suspends the Loan or Credit to the Employer, from which part of the payments to the Contractor are being made:

- (a) The Employer is obligated to notify the Contractor of such suspension within 7 days of having received the Bank's suspension notice.
- (b) If the Contractor has not received sums due to it within the 28 days for payment provided for in GCC Sub-Clause 43.1, the Contractor may immediately issue a 14-day termination notice.

APPENDIX A TO GENERAL CONDITIONS

Fraud and Corruption

(Text in this Appendix shall not be modified)

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (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, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

a. Defines, for the purposes of this provision, 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:

(a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation 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
- (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.
- b. Rejects a proposal for award if the Bank 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;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹ (ii) to be a nominated² sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders(applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents personnel, permit the Bank to inspect³ all accounts, records and other

¹ For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

² A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

³ Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant;

documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

APPENDIX B

Environmental and Social (ES) Metrics for Progress Reports

[Note to Employer: the following metrics may be amended to reflect the specifics of the Contract. The Employer shall ensure that the metrics provided are appropriate for the Works and impacts/key issues identified in the environmental and social assessment.]

Metrics for regular reporting:

- a. *environmental incidents or non-compliances with contract requirements, including contamination, pollution or damage to ground or water supplies;*
- b. *health and safety incidents, accidents, injuries that require treatment and all fatalities;*
- c. *interactions with regulators: identify agency, dates, subjects, outcomes (report the negative if none);*
- d. *status of all permits and agreements:*
 - i. *work permits: number required, number received, actions taken for those not received;*
 - ii. *status of permits and consents:*
 - *list areas/facilities with permits required (quarries, asphalt & batch plants), dates of application, dates issued (actions to follow up if not issued), dates submitted to resident engineer (or equivalent), status of area (waiting for permits, working, abandoned without reclamation, decommissioning plan being implemented, etc.);*
 - *list areas with landowner agreements required (borrow and spoil areas, camp sites), dates of agreements, dates submitted to resident engineer (or equivalent);*
 - *identify major activities undertaken in each area in the reporting period and highlights of environmental and social protection (land clearing, boundary marking, topsoil salvage, traffic management, decommissioning planning, decommissioning implementation);*

- for quarries: status of relocation and compensation (completed, or details of activities and current status in the reporting period).
- e. *health and safety supervision:*
- i. safety officer: number days worked, number of full inspections & partial inspections, reports to construction/project management;
 - ii. number of workers, work hours, metric of PPE use (percentage of workers with full personal protection equipment (PPE), partial, etc.), worker violations observed (by type of violation, PPE or otherwise), warnings given, repeat warnings given, follow-up actions taken (if any);
- f. *worker accommodations:*
- i. number of expats housed in accommodations, number of locals;
 - ii. date of last inspection, and highlights of inspection including status of accommodations' compliance with national and local law and good practice, including sanitation, space, etc.;
 - iii. actions taken to recommend/require improved conditions, or to improve conditions.
- g. *Health services: provider of health services, information and/or training, location of clinic, number of non-safety disease or illness treatments and diagnoses (no names to be provided);*
- h. *gender (for expats and locals separately): number of female workers, percentage of workforce, gender issues raised and dealt with (cross-reference grievances or other sections as needed);*
- i. *training:*
- i. number of new workers, number receiving induction training, dates of induction training;
 - ii. number and dates of toolbox talks, number of workers receiving Occupational Health and Safety (OHS), environmental and social training;
 - iii. number and dates of communicable diseases (including STDs) sensitization and/or training, no. workers receiving training (in the reporting period and in the past); same questions for gender sensitization, flag person training.
 - iv. number and date of SEA and SH prevention sensitization and/or training events, including number of workers receiving training on

Code of Conduct for Contractor's Personnel (in the reporting period and in the past), etc.

- j. environmental and social supervision:*
 - i. environmentalist: days worked, areas inspected and numbers of inspections of each (road section, work camp, accommodations, quarries, borrow areas, spoil areas, swamps, forest crossings, etc.), highlights of activities/findings (including violations of environmental and/or social best practices, actions taken), reports to environmental and/or social specialist/construction/site management;
 - ii. sociologist: days worked, number of partial and full site inspections (by area: road section, work camp, accommodations, quarries, borrow areas, spoil areas, clinic, HIV/AIDS center, community centers, etc.), highlights of activities (including violations of environmental and/or social requirements observed, actions taken), reports to environmental and/or social specialist/construction/site management; and
 - iii. community liaison person(s): days worked (hours community center open), number of people met, highlights of activities (issues raised, etc.), reports to environmental and/or social specialist /construction/site management.
- k. Grievances:* list new grievances (e.g. number of allegations of SEA and SH) received in the reporting period and number of unresolved past grievances by date received, complainant's age and sex, how received, to whom referred to for action, resolution and date (if completed), data resolution reported to complainant, any required follow-up (Cross-reference other sections as needed):
 - i. Worker grievances;
 - ii. Community grievances
- l. Traffic, road safety and vehicles/equipment:*
 - i. traffic and road safety incidents and accidents involving project vehicles & equipment: provide date, location, damage, cause, follow-up;
 - ii. traffic and road safety incidents and accidents involving non-project vehicles or property (also reported under immediate metrics): provide date, location, damage, cause, follow-up;

- iii. overall condition of vehicles/equipment (subjective judgment by environmentalist); non-routine repairs and maintenance needed to improve safety and/or environmental performance (to control smoke, etc.).

m. Environmental mitigations and issues (what has been done):

- i. dust: number of working bowzers, number of waterings/day, number of complaints, warnings given by environmentalist, actions taken to resolve; highlights of quarry dust control (covers, sprays, operational status); % of rock/ spoil lorries with covers, actions taken for uncovered vehicles;
- ii. erosion control: controls implemented by location, status of water crossings, environmentalist inspections and results, actions taken to resolve issues, emergency repairs needed to control erosion/sedimentation;
- iii. quarries, borrow areas, spoil areas, asphalt plants, batch plants: identify major activities undertaken in the reporting period at each, and highlights of environmental and social protection: land clearing, boundary marking, topsoil salvage, traffic management, decommissioning planning, decommissioning implementation;
- iv. blasting: number of blasts (and locations), status of implementation of blasting plan (including notices, evacuations, etc.), incidents of off-site damage or complaints (cross-reference other sections as needed);
- v. spill clean-ups, if any: material spilled, location, amount, actions taken, material disposal (report all spills that result in water or soil contamination);
- vi. waste management: types and quantities generated and managed, including amount taken offsite (and by whom) or reused/recycled/disposed on-site;
- vii. details of tree plantings and other mitigations required undertaken in the reporting period;
- viii. details of water and swamp protection mitigations required undertaken in the reporting period.

n. compliance:

- i. compliance status for conditions of all relevant consents/permits, for the Work, including quarries, etc.): statement of compliance or

listing of issues and actions taken (or to be taken) to reach compliance;

- ii. compliance status of C-ESMP/ESIP requirements: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance
- iii. compliance status of SEA and SH prevention and response action plan: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance
- iv. compliance status of Health and Safety Management Plan re: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance
- v. other unresolved issues from previous reporting periods related to environmental and social: continued violations, continued failure of equipment, continued lack of vehicle covers, spills not dealt with, continued compensation or blasting issues, etc. Cross-reference other sections as needed.

APPENDIX C

Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration for Subcontractors

[The following table shall be filled in by each subcontractor proposed by the Contractor, that was not named in the Contract]

Subcontractor's Name: *[insert full name]*
 Date: *[insert day, month, year]*
 Contract reference *[insert contract reference]*
 Page *[insert page number]* of *[insert total number]* pages

SEA and/or SH Declaration

We:

- (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.
- (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.
- (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations. An arbitral award on the disqualification case has been made in our favor.
- (d) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations for a period of two years. We have subsequently demonstrated that we have adequate capacity and commitment to comply with SEA /SH obligations.
- (e) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations for a period of two years. We have attached specific evidence demonstrating that we have adequate capacity and commitment to comply with SEA and SH obligations.

[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]

[If (d) or (e) above are applicable, provide the following information:]

Period of disqualification: From: _____ To: _____

If previously provided on another Bank financed works contract, details of evidence that demonstrated adequate capacity and commitment to comply with SEA/SH obligations (**as per (d) above**)

Name of Employer: _____

Name of Project: _____

Contract description: _____

Brief summary of evidence provided: _____ _____
Contact Information: (Tel, email, name of contact person): _____ _____
As an alternative to the evidence under (d), other evidence demonstrating adequate capacity and commitment to comply with SEA/SH obligations (as per (e) above) [<i>attach details as appropriate</i>]. _____ _____

Name of the Subcontractor _____

Name of the person duly authorized to sign on behalf of the Subcontractor _____

Title of the person signing on behalf of the Subcontractor _____

—

Signature of the person named above _____

—

Date signed _____ day of _____,

Countersignature of authorized representative of the Contractor:

Signature: _____

Date signed _____ day of _____,

Section IX - Particular Conditions

The following Particular Conditions shall supplement the General Conditions. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions.

Section IX - Particular Conditions of Contract

A. General	
GCC 1.1 (d)	The financing institution is: IDA and AfD
GCC 1.1 (r)	The Employer is: County Chief Officer, Housing and Urban Renewal Department of Built Environment and Urban Renewal Nairobi City County Government P. O Box 30075-00100, NAIROBI, KENYA
GCC 1.1 (v)	The Intended Completion Date for the whole of the Works shall be <i>[730 Days after the Commencement Date of the Works]</i>
GCC 1.1 (y)	The EMPLOYER is: County Chief Officer, Housing and Urban Renewal Department of Built Environment and Urban Renewal Nairobi City County Government P. O Box 30075-00100, NAIROBI, KENYA The “ ENGINEER ” is: The Contractor shall be notified of the <i>AUTHORIZED ENGINEER.</i> The “ ENGINEER’S REPRESENTATIVE ” is: <i>“WANJOHI MUTONYI CONSULT LTD. OF P. O. BOX 21714-00505, NAIROBI, KENYA”</i> who shall be referred to as “ <i>The CONSULTANT</i> ”. <i>Replace “Project Manager” with “Engineer” where it applies in this document.</i>
GCC 1.1 (aa)	The Site is located at: Informal Settlements – Huruma Fire Victims-2, Mathare Fire Victims, Matopeni, Pumwani Majengo and Spring Valley all Within Nairobi City County. The sites are defined in the Book of Drawings Location Maps and Layouts Sections.

GCC 1.1 (dd)	The Start Date shall be: <i>[Within 14 days after the Order to Commence the works]</i>
GCC 1.1 (hh)	The Works consist of: County Construction of Roads/Footpaths, Storm Water Drainage Systems, Public Street Lighting and Sewer Infrastructure Works in Selected Informal Settlements of Huruma Fire Victims-2, Mathare Fire Victims, Matopeni, Pumwani Majengo and Spring Valley All Within Nairobi City County. Detailed Description of the works has been provided in the Specifications.
GCC 2.2	Sectional Completions are: <i>[Not Applicable]</i>
GCC 2.3(i)	The following documents also form part of the Contract: <ul style="list-style-type: none"> • <i>The Contract Agreement (if completed)</i> • <i>The Letter of Acceptance;</i> • <i>The Bid and Appendices;</i> • <i>The General Conditions of Contract (GCC)</i> • <i>The Particular Conditions of Contract (PCC)</i> • <i>Special Specifications;</i> • <i>Standard Specifications for Road and Bridge Construction, 1986</i> • <i>The Drawings</i> • <i>The Priced Bills of Quantities</i> • <i>Environmental and Social Management Plans</i>
GCC 3.1	The language of the contract is: <i>[English]</i> . The law that applies to the Contract is the law of <i>[The Republic of Kenya]</i> .
GCC 5.1	The Project Manager <i>[may]</i> delegate any of his duties and responsibilities.
GCC 8.1	Schedule of other contractors: <i>[Not Applicable]</i>
GCC 13.1	The minimum insurance amounts and deductibles shall be: (a) for loss or damage to the Works, Plant and Materials (Contractors All Risk Insurance): <i>[... 10% of the Claimed Amount]</i> .

	<p>(b) For loss or damage to Equipment:[....10% of the Claimed Amount].</p> <p>(c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract : [....10% of the Claimed Amount].</p> <p>(d) for personal injury or death of the Contractor’s employees (Work Injury Benefit Act (WIBA) Insurance. (i) of the Contractor’s employees: Minimum Amount: As per the Laws of Kenya Deductibles: 10% of Claimed Amount</p> <p>(ii) of other people: [As per the Laws of Kenya].</p> <p>(e) for personal Death or Permanent Disability: (i) of the Contractor’s employees: [As per the Laws of Kenya]. (ii) of other people: [As per the Laws of Kenya].</p> <p>(f) Other insurances required by Laws and by local practice Motor Vehicle Insurances (As per the Laws of Kenya)</p> <p>(g) Amount of insurance required for liability for breach of professional duty: 5% of the Contract Amount.</p>
GCC 14.1	Site Data are: [Site Data in the Book of Drawings and any other data detailing site conditions.]
GCC 18.1	Add at the end of sub-clause the following: ‘The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.’
GCC 20.1	The Site Possession Date(s) shall be: [Informal Settlements – Huruma Fire Victims-2, Mathare Fire Victims, Matopeni, Pumwani Majengo And Spring Valley All Within Nairobi City County and date to be within 14 days after commencement date]
GCC 23.1 & GCC 23.2	Appointing Authority for the Adjudicator: [Institution of Engineers of Kenya (IEK)].
GCC 24.3	Hourly rate and types of reimbursable expenses to be paid to the Adjudicator: [Maximum Hourly Rate Of Kes 50,000 Including Reimbursable Expenses For Transportation And Office Expenses].
GCC 24.4	[For smaller contracts, the institution is usually from the Employer’s Country. For larger contracts, and contracts that are likely to be

	<p><i>awarded to international contractors, it is recommended that the arbitration procedure of an international institution]</i></p> <p>Institution whose arbitration procedures shall be used: [Chartered Institute of Arbitrators (Kenya Branch)]</p> <p>The place of arbitration shall be: [NAIROBI, KENYA].</p>
B. Time Control	
GCC 28.1	The Contractor shall submit for approval a Program for the Works within [14] days from the date of the Letter of Acceptance.
GCC 28.3	<p>The period between Program updates is [56].days.</p> <p>The amount to be withheld for late submission of an updated Program is [Kes 200,000].</p> <p>The period for submission of progress reports is [30 Days] days.</p>
C. Quality Control	
GCC 36.1	The Defects Liability Period is: [365] Days.
D. Cost Control	
GCC 40.7	If the value engineering proposal is approved by the Employer the amount to be paid to the Contractor shall be _[Not Applicable]_% of the reduction in the Contract Price.
GCC 43.1	<p>The Employer shall pay the Contractor the amounts certified by the Engineer within 56 days of the date of each certificate.</p> <p>The Engineer has 14 days to certify or request modifications to the IPCs submitted by the Contractor. If modifications are needed, the Engineer must provide reasons within these 14 days.</p>
GCC 46.1	The currency of the Employer's Country is: [Kenya Shillings].
GCC 47.1	The Contract ["is not"] subject to price adjustment in accordance with GCC Clause 45.
GCC 48.1	The proportion of payments retained is: [10% of each Interim Payment Certificate (IPC)]

	Limit of Retention Money (as a percentage of Accepted Contract Amount): [10%]
GCC 49.1	The liquidated damages for the whole of the Works are [0.05% of the final Contract Price] per day. The maximum amount of liquidated damages for the whole of the Works is [10%] of the final Contract Price.
GCC 50.1	Not Applicable
GCC 51.1	The Advance Payments shall be: 20% Percentage of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable no later than 28 days after the receiving the Unconditional advance payment guarantee. and shall be repaid if: (a) exceeds 25% of the portion of the Accepted Contract Amount payable in that currency less Provisional Sums (b) deductions shall be made at the amortization rate of 30% provided that the advance payment shall be completely repaid prior to the time when 90% of the Accepted Contract Amount less Provisional Sums has been certified for payment.
GCC 52.1	The Performance Security will be in the form of a _ [“demand Bank guarantee”] in the amount(s) of [10%] percent of the Accepted Contract Amount and in the same currency (ies) of the Accepted Contract Amount. The ES Performance Security will be in the form of a “demand guarantee” in the amount(s) of [Not Applicable] of the Accepted Contract Amount and in the same currency (ies) of the Accepted Contract Amount.
E. Finishing the Contract	
GCC 58.1	The date by which operating and maintenance manuals are required is [28 Days after Completion Date] . The date by which “as built” drawings are required is [28 Days after Completion Date] .
GCC 58.2	The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required in GCC Sub-Clause 58.1 is [0.05% of the final Contract Price] per day.

GCC 59.2 (g)	The maximum number of days is: [98 Days]
GCC 60.1	The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is [20%] .

Section X - Contract Forms

Section X - Contract Forms

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Notification of Intention to Award

[This Notification of Intention to Award shall be sent to each Bidder that submitted a Bid.]

[Send this Notification to the Bidder's Authorized Representative named in the Bidder Information Form]

For the attention of Bidder's Authorized Representative

Name: *[insert Authorized Representative's name]*

Address: *[insert Authorized Representative's Address]*

Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]*

Email Address: *[insert Authorized Representative's email address]*

[IMPORTANT: insert the date that this Notification is transmitted to Bidders. The Notification must be sent to all Bidders simultaneously. This means on the same date and as close to the same time as possible.]

DATE OF TRANSMISSION: This Notification is sent by: *[email/fax]* on *[date]* (local time)

Notification of Intention to Award

Employer: *[insert the name of the Employer]*

Project: *[insert name of project]*

Contract title: *[insert the name of the contract]*

Country: *[insert country where RFB is issued]*

Loan No. /Credit No. / Grant No.: *[insert reference number for loan/credit/grant]*

RFB No: *[insert RFB reference number from Procurement Plan]*

This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period, you may:

- a) request a debriefing in relation to the evaluation of your Bid, and/or
- b) submit a Procurement-related Complaint in relation to the decision to award the contract.

1. The successful Bidder

Name:	<i>[insert name of successful Bidder]</i>
Address:	<i>[insert address of the successful Bidder]</i>
Contract price:	<i>[insert contract price of the successful Bid]</i>

2. Other Bidders [INSTRUCTIONS: insert names of all Bidders that submitted a Bid. If the Bid's price was evaluated include the evaluated price as well as the Bid price as read out.]

Name of Bidder	Bid price	Evaluated Bid price (if applicable)
[insert name]	[insert Bid price]	[insert price] evaluated
[insert name]	[insert Bid price]	[insert price] evaluated
[insert name]	[insert Bid price]	[insert price] evaluated
[insert name]	[insert Bid price]	[insert price] evaluated
[insert name]	[insert Bid price]	[insert price] evaluated

3. Reason/s why your Bid was unsuccessful

[INSTRUCTIONS: State the reason/s why this Bidder's Bid was unsuccessful. Do NOT include: (a) a point by point comparison with another Bidder's Bid or (b) information that is marked confidential by the Bidder in its Bid.]

4. 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 Bid. 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 Bidder, contact details; and address the request for debriefing as follows:

Attention: [insert full name of person, if applicable]

Title/position: [insert title/position]

Agency: [insert name of Employer]

Email address: [insert email address]

Fax number: [insert fax number] **delete if not used**

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.

5. 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 Bidder, contact details; and address the Procurement-related Complaint as follows:

Attention: [insert full name of person, if applicable]

Title/position: [insert title/position]

Agency: [insert name of Employer]

Email address: [insert email address]

Fax number: [insert fax number] **delete if not used**

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.

Further information:

For more information see the [Procurement Regulations for IPF Borrowers \(Procurement](https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid=4005)

[Regulations\)](https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid=4005) [https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid=4005] (Annex III). You should read these provisions before preparing and submitting your complaint. In addition, the World Bank's Guidance "How to make a Procurement-related Complaint" [http://www.worldbank.org/en/projects-operations/products-and-services/brief/procurement-new-framework#framework] provides a useful explanation of the process, as well as a sample letter of complaint.

In summary, there are four essential requirements:

1. You must be an 'interested party'. In this case, that means a Bidder who submitted a Bid in this bidding process, and is the recipient of a Notification of Intention to Award.
2. The complaint can only challenge the decision to award the contract.
3. You must submit the complaint within the period stated above.
4. You must include, in your complaint, all of the information required by the Procurement Regulations (as described in Annex III).

6. Standstill Period

DEADLINE: The Standstill Period is due to end at midnight on [insert date] (local time).

The Standstill Period lasts ten (10) Business 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.

If you have any questions regarding this Notification, please do not hesitate to contact us.

On behalf of the Employer:

Signature: _____

Name: _____

Title/position: _____

Telephone: _____

Email: _____

Beneficial Ownership Disclosure Form

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM

This Beneficial Ownership Disclosure Form (“Form”) is to be completed by the successful Bidder¹. In case of joint venture, the Bidder must submit a separate Form for each member. The beneficial ownership information to be submitted in this Form shall be current as of the date of its submission.

For the purposes of this Form, a Beneficial Owner of a Bidder is any natural person who ultimately owns or controls the Bidder by meeting one or more of the following conditions:

- *directly or indirectly holding 25% or more of the shares*
- *directly or indirectly holding 25% or more of the voting rights*
- *directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder*

RFB No.: *[insert number of RFB process]*
Request for Bid No.: *[insert identification]*

To: *[insert complete name of Employer]*

In response to your request in the Letter of Acceptance *dated [insert date of letter of Acceptance]* to furnish additional information on beneficial ownership: *[select one option as applicable and delete the options that are not applicable]*

(i) we hereby provide the following beneficial ownership information.

Details of beneficial ownership

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 Bidder (Yes / No)
<i>[include full name (last, middle, first),</i>			

<i>nationality, country of residence]</i>			
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OR

(ii) *We declare that there is no Beneficial Owner meeting one or more of the following conditions:*

- directly or indirectly holding 25% or more of the shares
- directly or indirectly holding 25% or more of the voting rights
- directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder

OR

(iii) *We declare that we are unable to identify any Beneficial Owner meeting one or more of the following conditions. [If this option is selected, the Bidder shall provide explanation on why it is unable to identify any Beneficial Owner]*

- directly or indirectly holding 25% or more of the shares
- directly or indirectly holding 25% or more of the voting rights
- directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder]

Name of the Bidder: **[insert complete name of the Bidder]*_____

Name of the person duly authorized to sign the Bid on behalf of the Bidder:
***[insert complete name of person duly authorized to sign the Bid]*_____

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*_____

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*_____

Date signed *[insert date of signing]* **day of** *[insert month], [insert year]*_____

* In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder. In the event that the Bidder is a joint venture, each reference to “Bidder” in the Beneficial Ownership Disclosure Form (including this Introduction thereto) shall be read to refer to the joint venture member.

** Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

Letter of Acceptance

[on letterhead paper of the Employer]

..... *[date]*

To: *[name and address of the Contractor]*

Subject: *[Notification of Award Contract No.]*

This is to notify you that your Bid dated *[insert date]* for execution of the
..... *[insert name of the contract and identification number, as given in the PCC]* .
..... for the Accepted Contract Amount of *[insert amount in numbers
and words and name of currency]*, as corrected and modified in accordance with the
Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish (i) the Performance Security and an Environmental
and Social (ES) Performance Security ***[Delete ES Performance Security if it is
not required under the contract]*** within 28 days in accordance with the
Conditions of Contract, using for that purpose the of the Performance Security
Form and the ES Performance Security Form, ***[Delete reference to the ES
Performance Security Form if it is not required under the contract]*** and (ii)
the additional information on beneficial ownership in accordance with BDS ITB
47.1, within eight (8) Business days using the Beneficial Ownership Disclosure
Form, included in Section X - Contract Forms, of the bidding document.

[Choose one of the following statements:]

We accept that _____ *[insert the name of Adjudicator
proposed by the Bidder]* be appointed as the Adjudicator.

[or]

We do not accept that _____ *[insert the name of the
Adjudicator proposed by the Bidder]* be appointed as the Adjudicator, and by sending
a copy of this Letter of Acceptance to
_____ *[insert name of the Appointing
Authority]*, the Appointing Authority, we are hereby requesting such Authority to
appoint the Adjudicator in accordance with ITB 48.1 and GCC Sub-Clause 23.1.

Authorized Signature:

Name and Title of Signatory:

Name of Agency:

Attachment: Contract Agreement

Contract Agreement

THIS AGREEMENT made theday of, between **[name of the Employer]**. (hereinafter “the Employer”), of the one part, and **[name of the Contractor]**.(hereinafter “the Contractor”), of the other part:

WHEREAS the Employer desires that the Works known as **[name of the Contract]**.should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects therein,

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - (a) the Letter of Acceptance
 - (b) the Letter of Bid
 - (c) the addenda Nos _____(if any)
 - (d) the Particular Conditions
 - (e) the General Conditions of Contract, including appendix;
 - (f) the Specification
 - (g) the Drawings
 - (h) Bill of Quantities;¹ and
 - (i) any other document listed in the PCC as forming part of the Contract, but not limited to;
 - i. the ES Management Strategies and Implementation Plans; and
 - ii. Code of Conduct for Contractor’s Personnel (ES).
3. In consideration of the payments to be made by the Employer to the Contractor as specified in this Agreement, the Contractor hereby covenants with

¹ In lump sum contracts, delete “Bill of Quantities” and replace with “Activity Schedule.”

the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[name of the borrowing country]*. . . . on the day, month and year specified above.

Signed by:
for and on behalf of the Employer

Signed by:
for and on behalf the Contractor

in the
presence
of:
Witness, Name, Signature, Address, Date

in the
presence
of:
Witness, Name, Signature, Address, Date

Performance Security – Option 1: Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insert name and Address of Employer]*

Date: _ *[Insert date of issue]*

PERFORMANCE 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 _ *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of _ *[insert name of contract and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

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 *[insert amount in figures]* (_____) *[insert amount in words]*,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.

¹ *The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.*

This guarantee shall expire, no later than the Day of, 2...², and any demand for payment under it must be received by us at this office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

² *Insert the date twenty-eight days after the expected completion date as described in GCC Sub-Clause 55.1. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "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."*

Environmental and Social (ES) Performance Security

ES Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insert name and Address of Employer]*

Date: *[Insert date of issue]*

ES PERFORMANCE 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 _____ (hereinafter called "the Applicant") has entered into Contract No. _____ dated _____ with the Beneficiary, for the execution of _____ (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

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 _____ (),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 Environmental and/or Social (ES) obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the Day of, 2...², and any demand for payment under it must be received by us at this office indicated above on or before that date.

¹ *The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency (cies) of the Contract or a freely convertible currency acceptable to the Beneficiary.*

² *Insert the date twenty-eight days after the expected completion date as described in GC Clause 55.1. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this*

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "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."

Advance Payment Security

Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Insert name and Address of Employer]*

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 *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of *[insert name of contract and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum *[insert amount in figures]* () *[insert amount in words]* 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 *[insert amount in figures]* (_____) *[insert amount in words]*¹ upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- (a) has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or
- (b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

¹ *The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Employer.*

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 *[insert number]* at *[insert name and address of Applicant's bank]*..

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 *[insert day]* day of *[insert month]*, 2 *[insert year]*,² whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: *All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.*

² *Insert the expected completion date as described in GC Clause 55.1. The Employer should note that in the event of an extension of the expected completion date, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "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."*