



REPUBLIC OF KENYA



COUNTY GOVERNMENT OF BOMET

DEPARTMENT OF ECONOMIC PLANNING

**TENDER NAME: PROPOSED CONSTRUCTION OF COUNTY AGGREGATION
AND INDUSTRIAL PARKS AT SOTIK TOWN**

TENDER NO: CGB/ECON/001/2025/2026

NEGOTIATION NO: 2163226

**BIDDERS ARE ENCOURAGED TO READ THROUGH THE TENDER DOCUMENT BEFORE
MAKING THE BID.**

TABLE OF CONTENTS

INVITATION TO TENDER.....	V
APPENDIX TO THE PREFACE.....	vii
GUIDELINES FOR PREPARATION OF TENDER DOCUMENTS.....	vii
2. PART 1 - TENDERING PROCEDURES	vii
3. PART 2 - PROCUREMENT ENTITY'S REQUIREMENTS	vii
4. PART 3 - CONDITIONS OF CONTRACT AND CONTRACT FORMS.....	viii
INVITATION TO TENDER.....	X
<u>SECTION I - INSTRUCTIONS TO TENDERERS.....</u>	<u>1</u>
A. General Provisions.....	1
1. Scope of Tender	1
2. Fraud and Corruption.....	1
3. Eligible Tenderers.....	1
4. Eligible Goods, Equipment, and Services.....	3
5. Tenderer's Responsibilities.....	3
B. Contents of Tender Documents.....	3
6. Sections of Tender Document.....	3
7. Site visit.....	4
8. Pre-Tender Meeting.....	4
9. Clarification and amendment of Tender Documents.....	5
10. Amendment of Tender Documents	5
C. Preparation of Tenders	5
11. Cost of Tendering	5
12. Language of Tender.....	5
13. Documents Comprising the Tender	5
14. Form of Tender and Schedules	6
15. Alternative Tenders.....	6
16. Tender Prices and Discounts.....	6
17. Currencies of Tender and Payment	7
18. Documents Comprising the Technical Proposal	7
19. Documents Establishing the Eligibility and Qualifications of the Tenderer	
20. Period of Validity of Tenders	8
21. Tender Security.....	8
22. Format and Signing of Tender	9
D. Sealing and Marking of Tenders	9
23. Sealing and Marking of Tenders.....	9
24. Deadline for Submission of Tenders.....	10
25. Late Tenders	10
26. Withdrawal, Substitution, and Modification of Tenders	10
27. Tender Opening	10
E. Evaluation and Comparison of Tenders.....	11
28. Confidentiality	11
29. Clarification of Tenders	11
30. Deviations, Reservations, and Omissions.....	12

ii	31. Determination of Responsiveness	12
	32. Non-material Non-conformities	12
	33. Arithmetical Errors	12
	34. Conversion to Single Currency	13
	35. Margin of Preference and Reservations	13
36.	Subcontractors	13
37.	Evaluation of Tenders	13
38.	Comparison of Tenders	14
39.	Abnormally Low Tenders	14
40.	Abnormally High Tenders	14
41.	Unbalanced and/or Front-Loaded Tenders	14
42.	Qualifications of the Tenderer	15
43.	Best Evaluated Tender	15
44.	Procuring Entity's Right to Accept Any Tender, and to Reject Any or All Tenders	15
F.	Award of Contract	15
45.	Award Criteria	15
46.	Notice of Intention to enter into a Contract	15
47.	Standstill Period	16
48.	Debriefing by the Procuring Entity	16
49.	Letter of Award	16
50.	Signing of Contract	16
51.	Appointment of Adjudicator	16
52.	Performance Security	16
53.	Publication of Procurement Contract	17
53.	Procurement Related Complaints	17
	SECTION II-TENDER DATA SHEET(TDS).....	18
	SECTION III - EVALUATION AND QUALIFY ON CRITERIA	23
1.	General Provisions	23
2.	Preliminary examination for Determination of Responsiveness	23
3.	Tender Evaluation (ITT 35)	23
4.	Multiple Contracts	23
5.	Alternative Tenders (ITT 13.1)	24
6.	Margin of Preference is not applicable	24
7.	Post qualification and Contract award (ITT 39), more specifically	24
	SECTION IV – TENDERING FORMS.....	25
	QUALIFICATION FORMS.....	28
	1. Form Equ. Equipment.....	28
	2. Form per-1	29
	4. FORM PER-2:	30
5.	TENDERERS QUALIFICATION WITHOUT PRE-QUALIFICATION	32
	FORM ELI -1.1	32
	FORM ELI -1.2	33
	FORM CON – 2	34
5.4	FORM FIN – 3.1:	36
5.5	FORM FIN – 3.2:	37
5.6	FORM FIN – 3.3:	38
5.7	FORM FIN – 3.4:	38
5.8	FORM EXP - 4.1	39
5.9	FORM EXP - 4.2(a).....	40
5.11	FORM EXP - 4.2(b).....	41

OTHER FORMS.....	42
6. FORM OF TENDER.....	42
a) TENDERER'S ELIGIBILITY- CONFIDENTIAL BUSINESS QUESTIONNAIRE	45
b) CERTIFICATE OF INDEPENDENT TENDER DETERMINATION.....	48
c) SELF-DECLARATION FORM - SELF DECLARATION OF THE TENDERER.....	49
d) APPENDIX 1- FRAUD AND CORRUPTION.....	52
7. FORM OF TENDER SECURITY - DEMAND BANK GUARANTEE.....	54
8. FORM OF TENDER SECURITY (INSURANCE GUARANTEE)	55
9. FORM OF TENDER-SECURING DECLARATION.....	56
10. APPENDIX TO TENDER.....	57
PART II - WORK REQUIREMENTS	58
SECTION V - DRAWINGS	58
SECTION VI - SPECIFICATIONS	58
SECTION VII - BILLS OF QUANTITIES	59
1. Objectives	59
2. Day work Schedule.....	59
3. Provisional Sums	59
4. The Bills of Quantities.....	59
PART III-CONDITIONS OF CONTRACT AND CONTRACT FORMS.....	60
SECTION VIII - GENERAL CONDITIONS OF CONTRACT.....	60
A. General	
1. Definitions	61
2. Interpretation.....	61
3. Language and Law.....	62
4. Project Manager's Decisions	63
5. Delegation.....	63
6. Communications	63
7. Subcontracting	63
8. Other Contractors.....	63
9. Personnel and Equipment	63
10. Procuring Entity's and Contractor's Risks.....	63
11. Procuring Entity's Risks	63
12. Contractor's Risks	64
13. Insurance.....	64
14. Site Data	64
15. Contractor to Construct the Works.....	64
16. The Works to Be Completed by the Intended Completion Date	64
17. Approval by the Project Manager	64
18. Safety	65
19. Discoveries.....	65
20. Possession of the Site.....	65
21. Access to the Site.....	65
22. Instructions, Inspections and Audits	65
23. Appointment of the Adjudicator.....	65
24. Settlement of Claims and Disputes	66
25. Fraud and Corruption.....	68
B. Time Control.....	68
1. Program	68
2. Extension of the Intended Completion Date	69
3. Acceleration	69
4. Delays Ordered by the Project Manager	69
5. Management Meetings.....	69
6. Early Warning.....	70

C. Quality Control.....	69
1. Identifying Defects	69
2. Tests.....	69
3. Correction of Defects.....	69
4. Uncorrected Defects	69
D. Cost Control.....	70
1. Contract Price	70
2. Changes in the Contract Price.....	70
3. Variations.....	71
4. Cash Flow Forecasts	72
5. Payment Certificates	72
6. Payments.....	72
7. Compensation Events	73
8. Tax.....	73
9. Currency y of Payment	73
10. Price Adjustment.....	73
11. Retention.....	74
12. Liquidated Damages	74
13. Bonus.....	74
14. Advance Payment	74
15. Securities	75
16. Dayworks.....	75
17. Cost of Repairs	75
E. Finishing the Contract.....	75
1. Completion	75
2. Taking Over	75
3. Final Account.....	75
4. Operating and Maintenance Manuals	75
5. Termination	76
6. Payment upon Termination.....	76
7. Property	76
8. Release from Performance.....	76
SECTION IX - SPECIAL CONDITIONS OF CONTRACT.....	77
SECTION X - CONTRACT FORMS.....	88
FORM No. 1 - NOTIFICATION OF INTENTION TO AWARD	80
FORM No. 2 – REQUEST FOR REVIEW	83
FORM No. 3 - LETTER OF AWARD.....	83
FORM No. 4 - CONTRACT AGREEMENT.....	84
FORM No. 5 - PERFORMANCE SECURITY [Option 1 - Unconditional Demand Bank Guarantee]	85
FORM No. 6- PERFORMANCE SECURITY [Option 2– Performance Bond]	86
FORM No. 7- ADVANCE PAYMENT SECURITY	88
FORM No. 8- RETENTION MONEY SECURITY	87
FORM No. 9- BENEFICIAL OWNERSHIP DISCLOSURE FORM	87

REPUBLIC OF KENYA



COUNTY GOVERNMENT OF BOMET

TENDER DOCUMENT

1. NAME AND CONTACT AND DRESSES OF PROCURING ENTITY.

**Name; CHIEF OFFICER, DEPARTMENT OF ECONOMIC PLANNING,
COUNTY GOVERNMENT OF BOMET.**

Address; P.O BOX 19- 20400 BOMET

Email address

.....

2. Invitation to Tender (ITT) No.

**TENDER NAME; PROPOSED CONSTRUCTION OF COUNTY AGGREGATION AND
INDUSTRIAL PARKS**

INVITATION TO TENDER

**PROCURING ENTITY: CHIEF OFFICER, DEPARTMENT OF ECONOMIC PLANNING,
COUNTY GOVERNMENT OF BOMET.**

CONTRACTNAMEANDDESCRIPTION: PROPOSED CONSTRUCTION OF COUNTY AGGREGATION ANDINDUSTRIAL PARKS

The **Chief Officer, Department of Finance (Directorate of Economic Planning) - County Government of Bomet** invites sealed tenders for the construction of; **PROPOSED CONSTRUCTION OF
COUNTY AGGREGATION ANDINDUSTRIAL PARKS**

Tendering will be conducted under open National competitive using a standardized tender document. Tendering is open to all qualified and interested Tenderers.

Interested Building contractors registered with National Construction Authority (NCA) in Category “2” and above and meeting other tendering requirements are eligible to tender and must submit as mandatory requirement the following documents;

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

A	PRELIMINARY EVALUATION/ MANDATORY REQUIREMENT	REMARKS
A1	Copy of Certificate of Incorporation/Registration Certificate	YES/NO
A2	Copy of Valid Current KRA TAX Compliance Certificate. Subject to TCC Checker.	YES/NO
A3	Copy of PIN Certificate from KRA indicating relevant tax obligation(s)	YES/NO
A4	Copy of certified current CR12 (Generated within the last one (1) year from tender closing date).	YES/NO
A5	Valid Single Business Permit/Trade license from any Government entity	YES/NO
A6	Tender security/ Bid bond of Kshs.2% of contract sum in form of Bank guarantee or insurance company registered and licensed by insurance Regulatory Authority or any other financial institution approved and licensed by the central bank of Kenya as per the form and format provided in the bid document and should be valid for 120 days .	YES/NO
A7	Bidder must Submit a Duly Filled, signed and stamped confidential business questionnaire	YES/NO
A8	Bidder must Submit a written declaration that the bidder has not been debarred from participating in public procurement	YES/NO
A9	Bidders should have their documents sequentially paginated/serialized to ensure compliance with section 74 (1) (i) Public Procurement and Asset Disposal Act2015. (in format 1,2,3,4to the last page).	YES/NO
A10	Duly filled, signed and stamped form of tender.	YES/NO

A11	Duly filled, signed and stamped business questionnaire	YES/NO
A12	Bank statements for the last six months. The statements must be certified by the issuing bank at least the 1 st and the last page.	YES/NO
A13	Provide reference letters from at least two (2) organizations where you have performed works of similar nature. (subject to confirmation)	YES/NO
A14	Submit signed and stamped site visit Certificate issued from the Institution (subject to confirmation)	YES/NO
A15	Audited accounts for at least three years (2022,2023,2024) signed and stamped by a practising Auditor registered with ICPAK and all the pages be initialled by authorized Directors).	YES/NO
A16	Certified certificate of Registration with National Construction Authority for both building / civil works - NCA 2 and above.in addition to Electrical and Mechanical Engineering Services-NCA 5 and above with valid practicing licenses.	YES/NO
A17	A pre-tender site visit certificate.	YES/NO.
A18	Duly filled and Certified form of specific experience (3 No. completed projects of similar nature of at least Kshs.500 Million in the last ten years.	YES/NO.
A19	CV's and copies of qualification certificates of key site management and technical personnel proposed for the Contract.	YES/NO.
A20	Properly filled, signed and stamped mandatory Bill of Quantities.	YES/NO.
A21	Proof of possession of major equipment owned or leased;	YES/NO.
A22	Compliance with submission both online through the IFMIS system and manually where 1No. hard copy must be submitted.	YES/NO.

NOTE:

- **A BIDDER WHO FAILS TO MEET THE ABOVE REQUIREMENTS SHALL BE DISQUALIFIED FROM FURTHER EVALUATION.**

Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours *[0800 to 1700 hours]* at the address given below tender documents shall be obtained electronically from the Website(s). A complete set of Tender documents may be viewed and downloaded for free from the website www.bomet.go.ke. or suppliers' portal vide the negotiation number attached for the tender. Tenderers who download the tender document must forward their particulars immediately to*(insert email, telephone and postal address)* to facilitate any further clarification or addendum. Tenders shall be quoted be in Kenya Shillings and shall include all taxes. Tenders shall remain valid for **(120)** days from the date of opening of tenders. All Tenders must be accompanied by a “tender Security” of **Kshs 2% of contract sum in** the currency of Kenya shillings

inform of Bank guarantee. The Tenderer shall chronologically serialize all pages of the tender documents submitted. Completed tenders must be delivered to the address below on or before *on or before WEDNESDAY 15TH APRIL 2026 AT 11:00 Am.*. *Electronically through IFMIS portal and 1 No. Hard Copy to be delivered in the tender Box Situated in the county Procurement Office.* Tenders will be opened immediately after the deadline date and time specified above or any dead line date and time specified later. Tenders will be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at the address below. Late tenders will be rejected. The addresses referred to above are:

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

- 1) **County Government of Bomet**
- 2) **Procurement Office located next to the County Treasury)**
- 3) **P.o Box 19-20400 Bomet**

B. Address for Submission of Tenders.

- 1) **County Government of Bomet**
- 2) **Procurement Office located next to the County Treasury)**
- 3) **P.o Box 19-20400 Bomet**
- 4) **Email: cgbprocurement @gmail com**

C. Address for Opening of Tenders.

- 1) **County Government of Bomet**
- 2) **Procurement Office located next to the County Treasury)**

[Authorized Official (name, designation, Signature and date)]

Name _____ (Official of the
Procuring Entity issuing the invitation)

Designation _____ Signature _____ Date _____

PART 1 - TENDERING PROCEDURES

SECTION I: INSTRUCTIONS TO TENDERERS

A General Provisions

1. Scope of Tender

- 1.1 The Procuring Entity as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The name, identification, and number of lots (contracts) of this Tender Document are **specified in the TDS**.

2. Fraud and Corruption

- 2.1 The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset Disposal Act, 2015, Section 62 “Declaration not to engage in corruption”. The tender submitted by a person shall include a declaration that the person shall not engage in any corrupt or fraudulent practice and a declaration that the person or his or her sub-contractors are not debarred from participating in public procurement proceedings.
- 2.2 The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding collusive practices in contracting. Any tenderer found to have engaged in collusive conduct shall be disqualified and criminal and/or civil sanctions may be imposed. To this effect, Tenders shall be required to complete and sign the “Certificate of Independent Tender Determination” annexed to the Form of Tender.
- 2.3 Unfair Competitive Advantage - Fairness and transparency in the tender process require that the firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender. To that end, the Procuring Entity shall indicate in the **Data Sheet** and make available to all the firms together with this tender document all information that would in that respect give such firm any unfair competitive advantage over competing firms.
- 2.4 Unfair Competitive Advantage -Fairness and transparency in the tender process require that the Firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender being tendered for. The Procuring Entity shall indicate in the **TDS** firms (if any) that provided consulting services for the contract being tendered for. The Procuring Entity shall check whether the owners or controllers of the Tenderer are same as those that provided consulting services. The Procuring Entity shall, upon request, make available to any tenderer information that would give such firm unfair competitive advantage over competing firms.

3. Eligible Tenderers

- 3.1 A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 3.7 or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. Public employees and their close relatives (*spouses, ren, brothers, sisters and uncles and aunts*) are not eligible to participate in the tender. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution. The maximum number of JV members shall be specified in the **TDS**.
- 3.2 Public Officers of the Procuring Entity, their Spouses, , Parent, Brothers or Sister. , Parent, Brother or Sister of a Spouse, their business associates or agents and firms/organizations in which they have a substantial or controlling interest shall not be eligible to tender or be awarded a contract. Public Officers are also not allowed to participate in any procurement proceedings.
- 3.3 A Tenderer shall not have a conflict of interest. Any tenderer found to have a conflict of interest shall be disqualified. A tenderer may be considered to have a conflict of interest for the purpose of this tendering process, if the tenderer:
- Directly or indirectly controls, is controlled by or is under common control with another tenderer; or
 - Receives or has received any direct or indirect subsidy from another tenderer; or
 - Has the same legal representative as another tenderer; or
 - Has a relationship with another tenderer, directly or through common third parties, that puts it in a position

to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process; or

- e) Any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender; or
- f) any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as Engineer for the Contract implementation; or
- g) Would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the contract specified in this Tender Document or
- h) Has a close business or family relationship with a professional staff of the Procuring Entity who:
 - i) are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract; or
 - ii) 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 Procuring Entity throughout the tendering process and execution of the Contract.

3.4 A tenderer shall not be involved in corrupt, coercive, obstructive, collusive or fraudulent practice. A tenderer that is proven to have been involved in any of these practices shall be automatically disqualified.

3.5 A Tenderer (either individually or as a JV member) shall not participate in more than one Tender, except for permitted alternative tenders. This includes participation as a subcontractor in other Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. A firm that is not a tenderer or a JV member may participate as a subcontractor in more than one tender. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender.

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

3.7 A tenderer that has been debarred from participating in public procurement shall be ineligible to tender or be awarded a contract. The list of debarred firms and individuals is available from the website of PPRA www.ppra.go.ke.

3.8 Tenderers that are state-owned enterprises or institutions may be eligible to compete and be awarded a Contract(s) only if they are accredited by PPRA to be (i) a legal public entity of the state Government and/or public administration, (ii) financially autonomous and not receiving any significant subsidies or budget support from any public entity or Government, and (iii) operating under commercial law and vested with legal rights and liabilities similar to any commercial enterprise to enable it to compete with firms in the private sector on an equal basis.

3.9 A firm and individuals may be ineligible if their countries of origin (a) as a matter of law or official regulations, Kenya prohibits commercial relations with that country, or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country. A tenderer shall provide such documentary evidence of eligibility satisfactory to the Procuring Entity, as the Procuring Entity shall reasonably request.

3.10 Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, subcontracts and labor) from national suppliers and contractors. To this end, a foreign tenderer shall provide in its tender documentary evidence that this requirement is met. Foreign tenderers not meeting this criterion will be automatically disqualified. Information required to enable the Procuring Entity to determine if this condition is met shall be provided in for this purpose as provided in "SECTION III - EVALUATION AND QUALIFICATION CRITERIA, Item 9".

3.11 Pursuant to the eligibility requirements of ITT 4.10, a tender is considered a foreign tenderer, if the tenderer is not registered in Kenya or if the tenderer is registered in Kenya and has less than 51 percent ownership by Kenyan

Citizens. JVs are considered as foreign tenderers if the individual member firms are not registered in Kenya or if are registered in Kenya and have less than 51 percent ownership by Kenyan citizens. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.

3.12 The National Construction Authority Act of Kenya requires that all local and foreign contractors be registered with the National Construction Authority and be issued with a Registration Certificate before they can undertake any construction works in Kenya. Registration shall not be a condition for tender, but it shall be a condition of contract award and signature. A selected tenderer shall be given opportunity to register before such award and signature of contract. Application for registration with National Construction Authority may be accessed from the website www.nca.go.ke.

3.13 The Competition Act of Kenya requires that firms wishing to tender as Joint Venture undertakings which may prevent, distort or lessen competition in provision of services are prohibited unless they are exempt in accordance with the provisions of Section 25 of the Competition Act, 2010. JVs will be required to seek for exemption from the Competition Authority. Exemption shall not be a condition for tender, but it shall be a condition of contract award and signature. A JV tenderer shall be given opportunity to seek such exemption as a condition of award and signature of contract. Application for exemption from the Competition Authority of Kenya may be accessed from the website www.cak.go.ke

3.14 A Kenyan tenderer shall provide evidence of having fulfilled his/her tax obligations by producing a valid tax clearance certificate or tax exemption certificate issued by the Kenya Revenue Authority.

4. Eligible Goods, Equipment, and Services

4.1 Goods, equipment and services to be supplied under the Contract may have their origin in any country that is not eligible under ITT 3.9. At the Procuring Entity's request, Tenderers may be required to provide evidence of the origin of Goods, equipment and services.

4.2 Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement.

5. Tenderer's Responsibilities

5.1 The tenderer shall bear all costs associated with the preparation and submission of his/her tender, and the Procuring Entity will in no case be responsible or liable for those costs.

5.2 The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the tenderer's own expense.

5.3 The Tenderer and any of its personnel or agents will be granted permission by the Procuring Entity to enter upon its premises and lands for the purpose of such visit. The Tenderer shall indemnify the Procuring Entity against all liability arising from death or personal injury, loss of or damage to property, and any other losses and expenses incurred as a result of the inspection.

5.4 The tenderer shall provide in the Form of Tender and Qualification Information, a preliminary description of the proposed work method and schedule, including charts, as necessary or required.

B. Contents of Tender Documents

6. Sections of Tender Document

6.1 The tender document consists of Parts 1, 2, and 3, which includes all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITT 8.

PART 1 Tendering Procedures

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

PART 2 Works Requirements

- i) Section V - Drawings
- ii) Section VI - Specifications
- iii) Section VII - Bills of Quantities

PART 3 Conditions of Contract and Contract Forms

- i) Section VIII - General Conditions of Contract (GCC)
- ii) Section IX - Special Conditions of Contract (SC)
- iii) Section X - Contract Forms

6.2 The Invitation to Tender Document (ITT) issued by the Procuring Entity is not part of the Contract documents.

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

The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document and to furnish with its Tender all information and documentation as is required by the Tender document.

7. Site Visit

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

8. Pre-Tender Meeting

8.1 The Procuring Entity shall specify in the **TDS** if a pre-tender meeting will be held, when and where. The Procuring Entity shall also specify in the **TDS** if a pre-arranged pretender site visit will be held and when. The Tenderer's designated representative is invited to attend a pre-arranged pretender visit of the site of the works. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

8.2 The Tenderer is requested to submit any questions in writing, to reach the Procuring Entity not later than the period specified in the **TDS** before the meeting.

8.3 Minutes of the pre-Tender meeting and the pre-arranged pretender site visit of the site of the works, if applicable, including the text of the questions asked by Tenderers and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Tenderers who have acquired the Tender Documents in accordance with ITT 6.3. Minutes shall not identify the source of the questions asked.

8.4 The Procuring Entity shall also promptly publish anonym zed (*nonames*) Minutes of the pre-Tender meeting and the pre-arranged pretender visit of the site of the works at the web page identified in the **TDS**. Any modification to the Tender Documents that may become necessary as a result of the pre-tender meeting and the pre-arranged pretender site visit, shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 8 and not through the minutes of the pre-Tender meeting. Nonattendance at the pre-Tender meeting will not be a cause for disqualification of a Tenderer.

9. Clarification and amendments of Tender Documents

9.1 A Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in writing at the Procuring Entity's address specified in the **TDS** or raise its enquiries during the pre-Tender meeting and the pre-

arranged pretender visit of the site of the works if provided for in accordance with ITT 8.4. The Procuring Entity will respond in writing to any request for clarification, provided that such request is received no later than the period specified in the **TDS** prior to the deadline for submission of tenders. The Procuring Entity shall forward copies of its response to all tenderers who have acquired the Tender Documents in accordance with ITT 6.3, including a description of the inquiry but without identifying its source. If specified in the **TDS**, the Procuring Entity shall also promptly publish its response at the web page identified in the **TDS**. Should the clarification result in changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents appropriately following the procedure under ITT 8.4.

10. Amendment of Tendering Document

- 10.1 At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the Tendering document by issuing addenda.
- 10.2 Any addendum issued shall be part of the tendering document and shall be communicated in writing to all who have obtained the tendering document from the Procuring Entity in accordance with ITT 6.3. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's web page in accordance with ITT 8.4.
- 10.3 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity shall extend, as necessary, the deadline for submission of Tenders, in accordance with ITT 25.2 below.

C. Preparation of Tenders

11. Cost of Tendering

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

12. Language of Tender

- 12.1 The Tender, as well as all correspondence and documents relating to the tender exchanged by the tenderer and the Procuring Entity, shall be written in the English Language. Supporting documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate and notarized translation of the relevant passages into the English Language, in which case, for purposes of interpretation of the Tender, such translation shall govern.

13. Documents Comprising the Tender

- 13.1 The Tender shall comprise the following:
- a) Form of Tender prepared in accordance with ITT 14;
 - b) Schedules including priced Bill of Quantities, completed in accordance with ITT 14 and ITT 16;
 - c) Tender Security or Tender-Securing Declaration, in accordance with ITT 21.1;
 - d) Alternative Tender, if permissible, in accordance with ITT 15;
 - e) Authorization: written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordance with ITT 22.3;
 - f) Qualifications: documentary evidence in accordance with ITT 19 establishing the Tenderer's qualifications to perform the Contract if its Tender is accepted;
 - g) Conformity: a technical proposal in accordance with ITT 18;
 - h) Any other document required in the **TDS**.
- 13.2 In addition to the requirements under ITT 11.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender,

together with a copy of the proposed Agreement. The Tenderer shall chronologically serialize pages of all tender documents submitted.

13.3 The Tenderer shall furnish in the Form of Tender information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Tender.

14. Form of Tender and Schedules

14.1 The Form of Tender and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Section IV, Tendering Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITT 20.3. All blank spaces shall be filled in with the information requested.

15. Alternative Tenders

15.1 Unless otherwise specified in the **TDS**, alternative Tenders shall not be considered.

15.2 When alternative times for completion are explicitly invited, a statement to that effect will be included in the **TDS**, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.

15.3 Except as provided under ITT 13.4 below, Tenderers wishing to offer technical alternatives to the requirements of the Tender Documents must first price the Procuring Entity's design as described in the Tender Documents and shall further provide all information necessary for a complete evaluation of the alternative by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Tenderer with the Winning Tender conforming to the basic technical requirements shall be considered by the Procuring Entity. When specified in the **TDS**, Tenderers are permitted to submit alternative technical solutions for specified parts of the Works, and such parts will be identified in the **TDS**, as will the method for their evaluating, and described in Section VII, Works' Requirements.

16. Tender Prices and Discounts

16.1 The prices and discounts (including any price reduction) quoted by the Tenderer in the Form of Tender and in the Bill of Quantities shall conform to the requirements specified below.

16.2 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Tenderer shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Procuring Entity. An item not listed in the priced Bill of Quantities shall be assumed to be not included in the Tender, and provided that the Tender is determined substantially responsive notwithstanding this omission, the average price of the item quoted by substantially responsive Tenderers will be added to the Tender price and the equivalent total cost of the Tender so determined will be used for price comparison.

16.3 The price to be quoted in the Form of Tender, in accordance with ITT 14.1, shall be the total price of the Tender, including any discounts offered.

16.4 The Tenderer shall quote any discounts and the methodology for their application in the Form of Tender, in accordance with ITT 14.1.

16.5 It will be specified in the **TDS** if the rates and prices quoted by the Tenderer are or are not subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, except in cases where the contract is subject to fluctuations and adjustments, not fixed price. In such a case, the Tenderer shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data and the Procuring Entity may require the Tenderer to justify its proposed indices and weightings.

16.6 Where tenders are being invited for individual lots (contracts) or for any combination of lots (packages), tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tender the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 16.4, provided the Tenders for all lots (contracts) are opened at the same time.

16.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 days prior to the deadline for submission of Tenders, shall be included in the rates and prices and the total Tender Price submitted by the Tenderer.

17. Currencies of Tender and Payment

17.1 Tenderers shall quote entirely in Kenya Shillings. The unit rates and the prices shall be quoted by the Tenderer in the Bill of Quantities, entirely in Kenya shillings. A Tenderer expecting to incur expenditures in other currencies for inputs to the Works supplied from outside Kenya shall devise own ways of getting foreign currency to meet those expenditures.

18. Documents Comprising the Technical Proposal

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

19. Documents Establishing the Eligibility and Qualifications of the Tenderer

19.1 Tenderers shall complete the Form of Tender, included in Section IV, Tender Forms, to establish Tenderer's eligibility in accordance with ITT 4.

19.2 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tender Forms.

19.3 A margin of preference will not be allowed. Preference and reservations will be allowed, individually or in joint ventures. Applying for eligibility for Preference and reservations shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 33.1.

19.4 Tenderers shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a contractor or group of contractors qualifies for a margin of preference. Further the information will enable the Procuring Entity identify any actual or potential conflict of interest in relation to the procurement and/or contract management processes, or a possibility of collusion between tenderers, and thereby help to prevent any corrupt influence in relation to the procurement process or contract management.

19.5 The purpose of the information described in ITT 19.4 above overrides any claims to confidentiality which a tenderer may have. There can be no circumstances in which it would be justified for a tenderer to keep information relating to its ownership and control confidential where it is tendering to undertake public sector work and receive public sector funds. Thus, confidentiality will not be accepted by the Procuring Entity as a justification for a Tenderer's failure to disclose, or failure to provide required information on its ownership and control.

19.6 The Tenderer shall provide further documentary proof, information or authorizations that the Procuring Entity may request in relation to ownership and control which information on any changes to the information which was provided by the tenderer under ITT 6.3. The obligations to require this information shall continue for the duration of the procurement process and contract performance and after completion of the contract, if any change to the information previously provided may reveal a conflict of interest in relation to the award or management of the contract.

19.7 All information provided by the tenderer pursuant to these requirements must be complete, current and accurate as at the date of provision to the Procuring Entity. In submitting the information required pursuant to these requirements, the Tenderer shall warrant that the information submitted is complete, current and accurate as at the date of submission to the Procuring Entity.

19.8 If a tenderer fails to submit the information required by these requirements, its tender will be rejected. Similarly, if the Procuring Entity is unable, after taking reasonable steps, to verify to a reasonable degree the information submitted by a tenderer pursuant to these requirements, then the tender will be rejected.

19.9 If information submitted by a tenderer pursuant to these requirements, or obtained by the Procuring Entity (whether through its own enquiries, through notification by the public or otherwise), shows any conflict of

interest which could materially and improperly benefit the tenderer in relation to the procurement or contract management process, then:

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

19.10 If a tenderer submits information pursuant to these requirements that is incomplete, inaccurate or out-of-date, or attempts to obstruct the verification process, then the consequences ITT 6.7 will ensue unless the tenderer can show to the reasonable satisfaction of the Procuring Entity that any such act was not material, or was due to genuine error which was not attributable to the intentional act, negligence or recklessness of the tenderer.

20. Period of Validity of Tenders

20.1 Tenders shall remain valid for the Tender Validity period specified in the **TDS**. The Tender Validity period starts from the date fixed for the Tender submission deadline (as prescribed by the Procuring Entity in accordance with ITT 24). A Tender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.

20.2 In exceptional circumstances, prior to the expiration of the Tender validity period, the Procuring Entity may request Tenderers to extend the period of validity of their Tenders. The request and the responses shall be made in writing. If a Tender Security is requested in accordance with ITT 21.1, it shall also be extended for thirty (30) days beyond the deadline of the extended validity period. A Tenderer may refuse the request without forfeiting its Tender security. A Tenderer granting the request shall not be required or permitted to modify its Tender, except as provided in ITT 20.3.

20.3 If the award is delayed by a period exceeding the number of days to be specified in the **TDS** days beyond the expiry of the initial tender validity period, the Contract price shall be determined as follows:

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

21. Tender Security

21.1 The Tenderer shall furnish as part of its Tender, either a Tender-Securing Declaration or a Tender Security as specified in the **TDS**, in original form and, in the case of a Tender Security, in the amount and currency specified in the **TDS**. A Tender-Securing Declaration shall use the form included in Section IV, Tender Forms.

21.2 If a Tender Security is specified pursuant to ITT 19.1, the Tender Security shall be a demand guarantee in any of the following forms at the Tenderer's option:

- a) an unconditional Bank Guarantee issued by reputable commercial bank); or
- b) an irrevocable letter of credit;
- c) a Banker's cheque issued by a reputable commercial bank; or
- d) another security specified **in the TDS**,

21.3 If an unconditional bank guarantee is issued by a bank located outside Kenya, the issuing bank shall have a correspondent bank located in Kenya to make it enforceable. The Tender Security shall be valid for thirty (30) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 20.2.

21.4 If a Tender Security or Tender-Securing Declaration is specified pursuant to ITT 19.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Procuring Entity as non-responsive.

21.5 If a Tender Security is specified pursuant to ITT 21.1, the Tender Security of unsuccessful Tenderers shall be returned as promptly as possible upon the successful Tenderer's signing the Contract and furnishing the Performance Security and any other documents required in the **TDS**. The Procuring Entity shall also promptly return the tender security to the tenderers where the procurement proceedings are terminated, all tenders were

determined nonresponsive or a bidder declines to extend tender validity period.

21.6 The Tender Security of the successful Tenderer shall be returned as promptly as possible once the successful Tenderer has signed the Contract and furnished the required Performance Security, and any other documents required in the **TDS**.

21.7 The Tender Security may be forfeited or the Tender-Securing Declaration executed:

- e) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on the Form of Tender, or any extension thereto provided by the Tenderer; or
- f) if the successful Tenderer fails to:
 - i) sign the Contract in accordance with ITT 50; or
 - ii) furnish a Performance Security and if required in the **TDS**, and any other documents required in the **TDS**.

21.8 Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA that PPRA debars the Tenderer from participating in public procurement as provided in the law.

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

21.10 A tenderer shall not issue a tender security to guarantee itself.

22. Format and Signing of Tender

22.1 The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 13 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 15, shall be clearly marked "ALTERNATIVE." In addition, the Tenderer shall submit copies of the Tender, in the number specified in the **TDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.

22.2 Tenderers shall mark as "CONFIDENTIAL" all information in their Tenders which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.

22.3 The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation as specified in the **TDS** and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender where entries or amendments have been made shall be signed or initialed by the person signing the Tender.

22.4 In case the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.

22.5 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

D. Submission and Opening of Tenders

23. Sealing and Marking of Tenders

23.1 Depending on the sizes or quantities or weight of the tender documents, a tenderer may use an envelope, package or container. The Tenderer shall deliver the Tender in a single sealed envelope, or in a single sealed package, or in a single sealed container bearing the name and Reference number of the Tender, addressed to the Procuring Entity and a warning not to open before the time and date for Tender opening date. Within the single envelope, package or container, the Tenderer shall place the following separate, sealed envelopes:

- a) in an envelope or package or container marked "ORIGINAL", all documents comprising the Tender, as described in ITT 11; and

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

The inner envelopes or packages or containers shall:

- a) bear the name and address of the Procuring Entity.
- b) bear the name and address of the Tenderer; and
- c) bear the name and Reference number of the Tender.

23.2 If an envelope or package or container is not sealed and marked as required, the *Procuring Entity* will assume no responsibility for the misplacement or premature opening of the Tender. Tenders that are misplaced or opened prematurely will not be accepted.

24. Deadline for Submission of Tenders

24.1 Tenders must be received by the Procuring Entity at the address specified in the **TDS** and no later than the date and time also specified in the **TDS**. When so specified in the **TDS**, Tenderers shall have the option of submitting their Tenders electronically. Tenderers submitting Tenders electronically shall follow the electronic Tender submission procedures specified in the **TDS**.

24.2 The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the Tender Documents in accordance with ITT 8, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

25. Late Tenders

25.1 The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of tenders, in accordance with ITT 24. Any Tender received by the Procuring Entity after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.

26. Withdrawal, Substitution, and Modification of Tenders

26.1 A Tenderer may withdraw, substitute, or modify its Tender after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITT 22.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Tender must accompany the respective written notice. All notices must be:

- a) prepared and submitted in accordance with ITT 22 and ITT 23 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” “MODIFICATION;” and
- b) received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT 24.

26.2 Tenders requested to be withdrawn in accordance with ITT 26.1 shall be returned unopened to the Tenderers.

26.3 No Tender may be withdrawn, substituted, or modified in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified by the Tenderer on the Form of Tender or any extension thereof.

27. Tender Opening

27.1 Except in the cases specified in ITT 23 and ITT 26.2, the Procuring Entity shall publicly open and read out all Tenders received by the deadline, at the date, time and place specified in the **TDS**, in the presence of Tenderers' designated representatives who chooses to attend. Any specific electronic Tender opening procedures required if electronic Tendering is permitted in accordance with ITT 24.1, shall be as specified in the **TDS**.

27.2 First, envelopes marked “WITHDRAWAL” shall be opened and read out and the envelopes with the corresponding Tender shall not be opened, but returned to the Tenderer. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal

and is read out at Tender opening.

- 27.3 Next, envelopes marked “SUBSTITUTION” shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.
- 27.4 Next, envelopes marked “MODIFICATION” shall be opened and read out with the corresponding Tender. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Tender opening.
- 27.5 Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Tenderer and whether there is a modification; the total Tender Price, per lot (contract) if applicable, including any discounts and alternative Tenders; the presence or absence of a Tender Security or Tender-Securing Declaration, if required; and any other details as the Procuring Entity may consider appropriate.
- 27.6 Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further for evaluation. The Form of Tender and pages of the Bills of Quantities are to be initialed by the members of the tender opening committee attending the opening. The number of representatives of the Procuring Entity to sign shall be specified in the **TDS**.
- 27.7 At the Tender Opening, the Procuring Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 25.1).
- 27.8 The Procuring **Entity shall prepare minutes of the Tender Opening that shall include, as a minimum:**
- a) the name of the Tenderer and whether there is a withdrawal, substitution, or modification;
 - b) the Tender Price, per lot (contract) if applicable, including any discounts;
 - c) any alternative Tenders;
 - d) the presence or absence of a Tender Security, if one was required.
 - e) number of pages of each tender document submitted.
- 27.9 The Tenderers' representatives who are present shall be requested to sign the minutes. The omission of a Tenderer's signature on the minutes shall not invalidate the contents and effect of the minutes. A copy of the tender opening register shall be distributed to all Tenderers upon request.

E. Evaluation and Comparison of Tenders

28. Confidentiality

- 28.1 Information relating to the evaluation of Tenders and recommendation of contract award shall not be disclosed to Tenderers or any other persons not officially concerned with the Tender process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 46.
- 28.2 Any effort by a Tenderer to influence the Procuring Entity in the evaluation of the Tenders or Contract award decisions may result in the rejection of its tender.
- 28.3 Notwithstanding ITT 28.2, from the time of tender opening to the time of contract award, if a tenderer wishes to contact the Procuring Entity on any **matter related to the tendering process, it shall do so in writing.**

29. Clarification of Tenders

- 29.1 To assist in the examination, evaluation, and comparison of the tenders, and qualification of the tenderers, the Procuring Entity may, at its discretion, ask any tenderer for a clarification of its tender, given a reasonable time for a response. Any clarification submitted by a tenderer that is not in response to a request by the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the tender shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Procuring Entity in the evaluation of the tenders, in accordance with ITT 33.
- 29.2 If a tenderer does not provide clarifications of its tender by the date and time set in the Procuring Entity's request for clarification, its Tender may be rejected.

30. Deviations, Reservations, and Omissions

30.1 During the evaluation of tenders, the following definitions apply:

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

31. Determination of Responsiveness

31.1 The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of the tender itself, as defined in ITT 13.

31.2 A substantially responsive Tender is one that meets the requirements of the Tender document without material deviation, reservation, or omission. **A material deviation, reservation, or omission is one that, if accepted, would:**

- a) affect in any substantial way the scope, quality, or performance of the Work specified in the Contract; or
- b) limit in any substantial way, inconsistent with the tender document, the Procuring Entity's rights or the tenderer's obligations under the proposed contract; or
- c) if rectified, would unfairly affect the competitive position of other tenderers presenting substantially responsive tenders.

31.3 The Procuring Entity shall examine the technical aspects of the tender submitted in accordance with ITT 18, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.

31.4 If a tender is not substantially responsive to the requirements of the tender document, it shall be rejected by the Procuring Entity and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

32. Non-material Non-conformities

32.1 Provided that a tender is substantially responsive, the Procuring Entity may waive any non-conformities in the tender.

32.2 Provided that a Tender is substantially responsive, the Procuring Entity may request that the tenderer submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial non-conformities in the tender related to documentation requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the price of the tender. Failure of the tenderer to comply with the request may result in the rejection of its tender.

32.3 Provided that a tender is substantially responsive, the Procuring Entity shall rectify quantifiable nonmaterial non-conformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified in the **TDS**.

33. Arithmetical Errors

33.1 The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in any way by any person or entity.

33.2 Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis:

- a) Any error detected if considered a major deviation that affects the substance of the tender, shall lead to disqualification of the tender as non-responsive.
- b) Any errors in the submitted tender arising from a miscalculation of unit price, quantity, and subtotal and total bid price shall be considered as a major deviation that affects the substance of the tender and shall lead to disqualification of the tender as non-responsive. and
- c) if there is a discrepancy between words and figures, the amount in words shall prevail

33.3 Tenderers shall be notified of any error detected in their bid during the notification of a ward.

34. Currency provisions

34.1 Tenders will be priced in Kenya Shillings only. Tenderers quoting in currencies other than in Kenya shillings will be determined non-responsive and rejected.

35. Margin of Preference and Reservations

35.1 No margin of preference shall be allowed on contracts for small works.

35.2 Where it is intended to reserve the contract to specific groups under Small and Medium Enterprises, or enterprise of women, youth and/or persons living with disability, who are appropriately registered as such by the authority to be specified in the **TDS**, a procuring entity shall ensure that the invitation to tender specifically indicates that only businesses/firms belonging to those specified groups are the only ones eligible to tender. Otherwise if no so stated, the invitation will be open to all tenderers.

36. Nominated Subcontractors

36.1 Unless otherwise stated in the **TDS**, the Procuring Entity does not intend to execute any specific elements of the Works by subcontractors selected in advance by the Procuring Entity.

36.2 Tenderers may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified in the **TDS**. Subcontractors proposed by the Tenderer shall be fully qualified for their parts of the Works.

36.3 The subcontractor's qualifications shall not be used by the Tenderer to qualify for the Works unless their specialized parts of the Works were previously designated by the Procuring Entity in the **TDS** as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Tenderer may be added to the qualifications of the Tenderer.

37. Evaluation of Tenders

37.1 The Procuring Entity shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Procuring Entity shall determine the Best Evaluated Tender in accordance with ITT 40.

37.2 To evaluate a Tender, the Procuring Entity shall consider the following:

- a) price adjustment due to discounts offered in accordance with ITT 16;
- b) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 39;
- c) price adjustment due to quantifiable non-material non-conformities in accordance with ITT 30.3; and
- d) any additional evaluation factors specified in the **TDS** and Section III, Evaluation and Qualification Criteria.

37.3 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 considered in Tender evaluation.

37.4 In the case of multiple contracts or lots, Tenderers shall be allowed to tender for one or more lots and the methodology to determine the lowest evaluated cost of the lot (contract) combinations, including any discounts offered in the **Form of Tender**, is specified in **Section III, Evaluation and Qualification Criteria**.

38. Comparison of Tenders

38.1 The Procuring Entity shall compare the evaluated costs of all substantially responsive Tenders established in accordance with ITT 38.2 to determine the Tender that has the lowest evaluated cost.

39. Abnormally Low Tenders

39.1 An Abnormally Low Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regards to the Tenderer's ability to perform the Contract for the offered Tender Price or that genuine competition between Tenderers is compromised.

39.2 In the event of identification of a potentially Abnormally Low Tender, the Procuring Entity shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Tender document.

39.3 After evaluation of the price analyses, in the event that the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the Contract for the offered Tender Price, the Procuring Entity shall reject the Tender.

40. Abnormally High Tenders

40.1 An abnormally high price is one where the tender price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between Tenderers is compromised.

40.2 In case of an abnormally high tender price, the Procuring Entity shall make a survey of the market prices, check if the estimated cost of the contract is correct and review the Tender Documents to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high tenders. The Procuring Entity may also seek written clarification from the tenderer on the reason for the high tender price. The Procuring Entity shall proceed as follows:

- i) If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may accept or not accept the tender depending on the Procuring Entity's budget considerations.
- ii) If specifications, scope of work and/or conditions of contract are contributory to the abnormally high tender prices, the Procuring Entity shall reject all tenders and may retender for the contract based on revised estimates, specifications, scope of work and conditions of contract, as the case may be.

40.3 If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (*often due to collusion, corruption or other manipulations*), the Procuring Entity shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise, before retendering.

41. Unbalanced and/or Front-Loaded Tenders

41.1 If in the Procuring Entity's opinion, the Tender that is evaluated as the lowest evaluated price is seriously unbalanced and/or front loaded, the Procuring Entity may require the Tenderer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the tender prices with the scope of works, proposed methodology, schedule and any other requirements of the Tender document.

41.2 After the evaluation of the information and detailed price analyses presented by the Tenderer, the Procuring Entity may as appropriate:

- a) accept the Tender; or
- b) require that the total amount of the Performance Security be increased at the expense of the Tenderer to a level not exceeding a 30% of the Contract Price; or
- c) agree on a payment mode that eliminates the inherent risk of the Procuring Entity paying too much for undelivered works; or
- d) reject the Tender,

42. Qualifications of the Tenderer

42.1 The Procuring Entity shall determine to its satisfaction whether the eligible Tenderer that is selected as having submitted the lowest evaluated cost and substantially responsive Tender, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

42.2 The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 19. The determination shall not take into consideration the qualifications of other firms such as the Tenderer's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the Tender document), or any other firm(s) different from the Tenderer.

42.3 An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative

determination shall result in disqualification of the Tender, in which event the Procuring Entity shall proceed to the Tenderer who offers a substantially responsive Tender with the next lowest evaluated price to make a similar determination of that Tenderer's qualifications to perform satisfactorily.

42.4 An Abnormally Low Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regards to the Tenderer's ability to perform the Contract for the offered Tender Price.

42.5 In the event of identification of a potentially Abnormally Low Tender, the Procuring Entity shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Tender document.

42.6 After evaluation of the price analyses, if the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the Contract for the offered Tender Price, the Procuring Entity shall reject the Tender.

43. Best Evaluated Tender

43.1 Having compared the evaluated prices of Tenders, the Procuring Entity shall determine the Best Evaluated Tender. The Best Evaluated Tender is the Tender of the Tenderer that meets the Qualification Criteria and whose Tender has been determined to be:

- a) Most responsive to the Tender document; and
- b) the lowest evaluated price.

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

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

F. Award of Contract

45. Award Criteria

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

46. Notice of Intention to enter into a Contract

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

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

47. Standstill Period

47.1 The Contract shall not be signed earlier than the expiry of a Standstill Period of 14 days to allow any dissatisfied tender to launch a complaint. Where only one Tender is submitted, the Standstill Period shall not apply.

47.2 Where a Standstill Period applies, it shall commence when the Procuring Entity has transmitted to each Tenderer the Notification of Intention to Enter **into a Contract with the successful Tenderer.**

48. Debriefing by the Procuring Entity

- 48.1 On receipt of the Procuring Entity's Notification of Intention to Enter into a Contract referred to in ITT 46, an unsuccessful tenderer may make a written request to the Procuring Entity for a debriefing on specific issues or concerns regarding their tender. The Procuring Entity shall provide the debriefing within five days of receipt of the request.
- 48.2 Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending **such a debriefing meeting**.

49. Letter of Award

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

50. Signing of Contract

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

51. Appointment of Adjudicator

- 51.1 The Procuring Entity proposes the person named in the **TDS** to be appointed as Adjudicator under the Contract, at the hourly fee specified in the **TDS**, plus reimbursable expenses. If the Tenderer disagrees with this proposal, the Tenderer should so state in his Tender. If, in the Letter of Acceptance, the Procuring Entity does not agree on the appointment of the Adjudicator, the Procuring Entity will request the Appointing Authority designated in the Special Conditions of Contract (SCC) pursuant to Clause 23.1 of the General Conditions of Contract (GCC), to appoint the Adjudicator.

52. Performance Security

- 52.1 Within **Fourteen (14) days** of the receipt of the Letter of Acceptance from the Procuring Entity, the successful Tenderer shall furnish the Performance Security and, any other documents required in the **TDS**, in accordance with the General Conditions of Contract, subject to ITT 40.2 (b), using the Performance Security and other Forms included in Section X, Contract Forms, or another form acceptable to the Procuring Entity. A foreign institution providing a bank guarantee shall have a correspondent financial institution located in Kenya, unless the Procuring Entity has agreed in writing that a correspondent bank is not required.
- 52.2 Failure of the successful Tenderer to submit the above-mentioned Performance Security and other documents required in the **TDS**, or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the Tenderer offering the next Best Evaluated Tender.
- 52.3 Performance security shall not be required for contracts estimated to cost less than Kenya shillings five million shillings.

53. Publication of Procurement Contract

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

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

54. Procurement Related Complaints and Administrative Review

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

54.2 A request for administrative review shall be made in the form provided under contract forms.

Section II - Tender Data Sheet (TDS)

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

ITT Reference	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
	A. General
ITT 1.1	The name of the contract is; PROPOSED CONSTRUCTION OF COUNTY AGGREGATION AND INDUSTRIAL PARK The reference number of the Contract is: CGB/ECON/001/2025-2026
ITT 2.3	The Information made available on competing firms is as follows: _____
ITT 2.4	The firms that provided consulting services for the contract being tendered for are: Chief Officer, Department of Public works & Transport- Directorate of Public works.
ITT 3.1	Maximum number of members in the Joint Venture (JV) shall be: NIL .
B. Contents of Tender Document	
8.1	(A) Pre-Tender conference “ <i>shall</i> ” take place at the following date, time and place: WEDNESDAY 8TH APRIL 2026 AT 9:00M AT SOTIK TOWN
ITT 8.2	The Tenderer will submit any questions in writing, to reach the Procuring Entity not later than THURSDAY 9TH APRIL 2026 .
ITT 8.4	The Procuring Entity’s website where Minutes of the pre-Tender meeting and the pre-arranged pretender site visit will be published is www.bomet.go.ke
ITT 9.1	For Clarification of Tender purposes, for obtaining further information and for purchasing tender documents, the Procuring Entity’s address is: (1) Name of Procuring Entity – COUNTY GOVERNMENT OF BOMET (2) Physical address for hand Courier Delivery to an office or Tender Box (City, Street, Building, Floor Number and Room) – PROCUREMENT OFFICE LOCATED NEXT TO THE COUNTY TREASURY. (3) Postal Address – P. O BOX 19-20400 BOMET (4) Insert name, telephone number and e-mail address of the officer to be contacted. – cgbprocurement@gmail.com
C. Preparation of Tenders	
ITP 13.1 (h)	The Tenderer shall submit the following additional documents in its Tender; As specified in the evaluation criteria.
ITT 15.1	Alternative Tenders “ <i>shall not be</i> ” considered.
ITT 15.2	Alternative times for completion “ <i>shall not be</i> ” permitted.
ITT 15.4	Alternative technical solutions “ <i>shall not be</i> ” permitted for the following parts of the Works:
ITT 16.5	The prices quoted by the Tenderer shall be: “ <i>fixed</i> ”
ITT 20.1	The Tender validity period shall be 120 (One Hundred & Twenty) Days
ITT 21.1	[If a Tender Security shall be required, a Tender-Securing Declaration shall not be required, and vice versa.]

ITT Reference	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
	<p>A Tender Security “<i>shall be</i>” required.</p> <p>A Tender-Securing Declaration “<i>shall not be</i>” required.</p> <p>If a Tender Security shall be required, the amount and currency of the Tender Security shall be Kshs 2% of contract sum inform of Bank guarantee in the form and format provided in the bid document.</p>
ITT 21.2 (d)	The other Tender Security shall be; N/A.
ITT 21.5	On the Performance Security, other documents required shall be 5% of the contract sum.
ITT 22.1	In addition to the original of the Tender, the number of hard copies are: <u>1 (One)</u> .
ITT 22.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of: <u>Power of Attorney.</u>
D. Submission and Opening of Tenders	
ITT 24.1	<p>(A) For <u>Tender submission purposes only</u>, the Procuring Entity’s address is:</p> <ol style="list-style-type: none"> (1) COUNTY GOVERNMENT OF BOMET (2) P.O BOX 19-20400 BOMET (3) PROCUREMENT OFFICE NEXT TO COUNTY TREASURY <p>(4) Date and time for submission of Tenders, WEDNESDAY 15TH APRIL 2026, 11.00 AM</p> <p>Tenderers shall submit tenders both manually and electronically through ifmis system.</p>
ITT 27.1	<p>The Tender opening shall take place at the time and the address for Opening of Tenders provided below:</p> <ol style="list-style-type: none"> (1) COUNTY GOVERNMENT OF BOMET (2) P.O BOX 19-20400 BOMET (3) PROCUREMENT OFFICE NEXT TO COUNTY TREASURY <p>(5) Date and time for submission of Tenders. : Wednesday 15th APRIL 2026 , 11.00 AM</p>
ITT 27.1	If Tenderers are allowed to submit Tenders electronically, they shall follow the electronic tender submission procedures specified below . [Manual tenders shall be opened on the opening date. ifmis.treasury.go.ke
ITT 27.6	The number of representatives of the Procuring Entity to sign is as per the tender opening appointment letter.
E. Evaluation, and Comparison of Tenders	
ITT 32.3	The adjustment shall be based on the Average price of the item or component as quoted in other substantially responsive Tenders. If the price of the item or component cannot be derived from the price of other substantially responsive Tenders, the Procuring Entity shall use its best estimate.
ITT 35.2	The invitation to tender is extended to the following groups that qualify for Reservations National Construction registered Contractors (NCA) Category “2” (Building Works).

ITT Reference	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
ITT 36.1	At this time, the Procuring Entity “ <i>does not intend</i> ” to execute certain specific parts of the Works by subcontractors selected in advance.
ITT 36.2	Contractor’s may propose subcontracting: Maximum percentage of subcontracting permitted is: 10% of the total contract amount . Tenderers planning to subcontract more than 10% of total volume of work shall specify, in the Form of Tender, the activity (ies) or parts of the Works to be subcontracted along with complete details of the subcontractors and their qualification and experience.
ITT 36.3	<p><i>[Indicate N/A if not applicable]</i></p> <p>The parts of the Works for which the Procuring Entity permits Tenderers to propose Specialized Subcontractors are designated as follows’/A</p> <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 Tenderer for the purpose of evaluation.</p>
ITT 37.2 (d)	Additional requirements apply. These are detailed in the evaluation criteria in Section III, Evaluation and Qualification Criteria.
ITT 51.1	The person named to be appointed as Adjudicator is _____ of _____ (<i>pride tel. no. full postal and email addresses</i>) at an hourly fee of Shs. _____ per day.
ITT 52.2	<p>Other documents required are;</p> <ul style="list-style-type: none"> • 3 (Three) Audited accounts or financial statements, • Schedule of ongoing projects, • Schedule of projects completed in the last 10 (Ten) years.
ITT 54.1	<p>The procedures for making a Procurement-related Complaints are detailed in the “Regulations” available from the PPRA Website www.ppra.go.ke or email complaints@ppra.go.ke. If a Tenderer wishes to make a Procurement-related Complaint, the Tenderer should submit its complaint following these procedures, in writing (by the quickest means available, that is either by hand delivery or email to:</p> <p>For the attention: [MILCAH RONO H]</p> <p>Title/position: CHIEF OFFICER-ECONOMIC PLANNING]</p> <p>Procuring Entity: COUNTY GOVERNMENT OF BOMET]</p> <p>Email address: [cgbprocurement@gmail.com]</p> <p>In summary, a Procurement-related Complaint may challenge any of the following:</p> <p>(i) the terms of the Tender Documents; and</p> <p>(ii) the Procuring Entity’s decision to award the contract.</p>

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

1. General Provisions

Wherever a Tenderer is required to state a monetary amount, Tenderers should indicate the Kenya Shilling equivalent using the rate of exchange determined as follows:

- a) For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.
- b) Value of single contract - Exchange rate prevailing on the date of the contract signature.
- c) Exchange rates shall be taken from the publicly available source identified in the ITT 14.3. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

This section contains the criteria that the Employer shall use to evaluate tender and qualify tenderers. No other factors, methods or criteria shall be used other than specified in this tender document. The Tenderer shall provide all the information requested in the forms included in Section IV, Tendering Forms. The Procuring Entity should use **the Standard Tender Evaluation Document for Goods and Works** for evaluating Tenders.

Evaluation and contract award Criteria

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

2. Preliminary examination for Determination of Responsiveness

The Procuring Entity will start by examining all tenders to ensure they meet in all respects the eligibility criteria and other requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements of "Part 2 – Procuring Entity's Works Requirements", including checking for tenders with unacceptable errors, abnormally low tenders, abnormally high tenders and tenders that are front loaded. The Standard Tender Evaluation Report Document for Goods and Works for evaluating Tenders provides very clear guide on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be considered irresponsible and will not be considered further.

➤ Mandatory requirements

All bids shall be checked for the following and any bid that does not conform to the any of the mandatory requirements shall be disqualified from further evaluation.

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

A	PRELIMINARY EVALUATION/ MANDATORY REQUIREMENT	REMARKS
A1	Copy of Certificate of Incorporation/Registration Certificate	YES/NO
A2	Copy of Valid Current KRA TAX Compliance Certificate. Subject to TCC Checker.	YES/NO
A3	Copy of PIN Certificate from KRA indicating relevant tax obligation(s)	YES/NO
A4	Copy of certified current CR12 (Generated within the last one (1) year from tender closing date).	YES/NO
A5	Valid Single Business Permit/Trade license from any Government entity	YES/NO
A6	Tender security/ Bid bond of Kshs.2% of contract sum in form of Bank guarantee or insurance company registered and licensed by insurance Regulatory Authority or any other financial institution approved and licensed by the central bank of Kenya as per the form and format provided in the bid document and should be valid for 120 days .	YES/NO
A7	Bidder must Submit a Duly Filled, signed and stamped confidential business questionnaire	YES/NO
A8	Bidder must Submit a written declaration that the bidder has not been debarred from participating in public procurement	YES/NO

A9	Bidders should have their documents sequentially paginated/serialized to ensure compliance with section 74 (1) (i) Public Procurement and Asset Disposal Act2015. (in format1,2,3,4to the last page).	YES/NO
A10	Duly filled, signed and stamped form of tender.	YES/NO
A11	Duly filled, signed and stamped business questionnaire	YES/NO
A12	Bank statements for the last six months. The statements must be certified by the issuing bank at least the 1 st and the last page.	YES/NO
A13	Provide reference letters from at least two (2) organizations where you have performed works of similar nature. (subject to confirmation)	YES/NO
A14	Submit signed and stamped site visit Certificate issued from the Institution (subject to confirmation)	YES/NO
A15	Audited accounts for at least three years (2022,2023,2024) signed and stamped by a practising Auditor registered with ICPAK and all the pages be initialled by authorized Directors).	YES/NO
A16	Certified certificate of Registration with National Construction Authority for both building / civil works - NCA 2 and above.in addition to Electrical and Mechanical Engineering Services-NCA 5 and above with valid practicing licenses.	YES/NO
A17	A pre-tender site visit certificate.	YES/NO.
A18	Duly filled and Certified form of specific experience (3 No. completed projects of similar nature of at least Kshs.500 Million in the last ten years.	YES/NO.
A19	CV's and copies of qualification certificates of key site management and technical personnel proposed for the Contract.	YES/NO.
A20	Properly filled, signed and stamped mandatory Bill of Quantities.	YES/NO.
A21	Proof of possession of major equipment owned or leased;	YES/NO.
A22	Compliance with submission both online through the IFMIS system and manually where 1No. hard copy must be submitted.	YES/NO.

➤ **Technical evaluation**

Technical evaluation shall be carried out and marks on each item distributed as indicated in the table below. The scores will be awarded by individual evaluators and mean obtained accordingly. The pass mark for further evaluation shall be **75%**.

SN	Description	Max points
1	Financial performance	15
2	Average construction turnover	10
3	General and specific construction experience	25
4	Key personnel (Site staff and HQ staff)	20
5	Schedules of on-going projects	10
6	Schedules of contractors Plant & equipment	15
7	Work Programme	5
TOTAL		100

1. Financial Situation				
1.1	Financial Performance	<p>(a) Submission of certified audited balance sheets for the last three [3] years and Six months certified bank statement.</p> <p>(b) the current soundness of the applicant's financial position and its prospective long-term profitability, demonstrated in the last three financial Years and</p> <p>(c) certified Proof of capacity to have liquid assets, unencumbered real assets, lines of credit and other financial means sufficient to meet the construction cash flow of Kenya shillings 400,000,000 (Four Hundred Million shillings only)</p>	<p>(a) Score</p> <ul style="list-style-type: none"> • 0 – 4 Marks <p>(b) Score</p> <ul style="list-style-type: none"> • 0 – 6 Marks <p>(c) Score</p> <ul style="list-style-type: none"> • 5 Marks 	
1.2	Average Annual Construction Turnover	<p>(d) Average annual construction turnover of KShs.Four Hundred Million [400 million], calculated and supported by certified construction payments within the last Five [(5)] years.</p>	<p>(d) Score</p> <ul style="list-style-type: none"> • 0 – 10 Marks 	

No.	Subject	Requirement	Bidder	Submission Requirements
1.3 Experience				
(a)	General Construction Experience	Experience under construction contracts in the role as a main contractor or subcontractor for at least the last ten [10] years prior to the applications submission deadline	Score <ul style="list-style-type: none"> • 0 – 2 Marks 	
(b)	Specific Construction Experience	Participation as a building contractor, management contractor or subcontractor, in at least three (3) Projects of which 1No. must be an industrial park & 2 similar projects each KShs.500 Million (Five hundred Million shillings only) and above successfully and substantially completed. (1) 2No. others with similar magnitude and complexity	Score <ul style="list-style-type: none"> • 3 No projects each project - 5Marks. =15marks • 2 No projects each - 4Marks. =8 marks 	
1.4 Current Commitments				
(a)	On-going contracts	The total value of outstanding works on the on-going contracts should not exceed the average annual turnover for the last three years.	Score <ul style="list-style-type: none"> • 0 - 10 Marks 	

Qualification Criteria		Compliance Requirement		Documentation
No.	Subject	Requirement	Bidder	Submission Requirements
1.5 Site staff (Key Personnel)	<p>1No. Technical Director</p> <p>1No. Site Agent</p> <p>5 No. Site foremen</p>	<p>The site staff shall possess minimum levels of qualifications set below;</p> <p>Qualification = At least Bachelor's degree in Civil Engineering/Building construction (related field) =2 Marks @</p> <p>Diploma in Civil Engineering/Building construction or related field= 1mark @</p> <p>Qualification = At least Bachelor's degree in Civil Engineering/Building construction (related field) =5 Marks.</p> <p>Diploma in Civil Engineering/Building construction or related field= 3marks.</p> <p>Qualification = At least a Diploma in Civil Engineering/Building construction (related field) =1Mark@</p> <p>Certificate in Civil Engineering/Building construction or related field= 0.5 mark@</p>	<p>Score</p> <ul style="list-style-type: none"> • 4 marks <p>2 marks</p> <p>5marks</p> <p>3 marks</p> <ul style="list-style-type: none"> • 5 marks 	
1.6	Work programme that matches the Project completion time.		5marks	
1.7 Plant and Equipment				

Transport and hauling equipment	Atleast 2 No. self-owned tipperlorry (15 tonnes)	Score	
Concreting equipment's	Concrete batching plant ready to be deployed to site for 1 year =6 Marks. Self-loading concrete mixer ready to be deployed to site for 1 year =3 Marks. Ordinary Concrete mixer ready to be deployed to site for 1 year = 1 Mark	<ul style="list-style-type: none"> • 5 Marks • 6Marks • 3Marks • 1Mark 	
Excavating Equipment	1No.Excavator/Bulldozer self owned= 3Marks. Excavator/Bulldozer leased-1 Mark	<ul style="list-style-type: none"> • 3 Marks 	

The Pass mark for Technical Evaluation will be 75%. Candidates that will have attained those points will have their financial proposals evaluated.

C) Stage Three: Financial Evaluation

- a) The bidder with the lowest evaluated financial proposal will be recommended for the award of the contract.
- b) In case of discrepancy between unit price and total, the unit price shall prevail.

c) If there is a tie on the lowest quoted price between two firms, the firm with the highest technical points will be recommended for award.

3. Tender Evaluation (ITT 35) Price evaluation: in addition to the criteria listed in ITT 35.2 (a) – (c) the following criteria shall apply:

- i) **Alternative Completion Times**, if permitted under ITT 13.2, will be evaluated as follows:
.....
- ii) **Alternative Technical Solutions** for specified parts of the Works, if permitted under ITT 13.4, will be evaluated as follows:
- iii) **Other Criteria**; if permitted under ITT 35.2(d): NONE

4. Multiple Contracts

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

OPTION 1

- i) If a tenderer wins only one Lot, the tenderer will be awarded a contract for that Lot, provided the tenderer meets the Eligibility and Qualification Criteria for that Lot.

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

OPTION 2

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

5. Alternative Tenders (ITT 13.1)

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

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

6. Margin of Preference is not applicable

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

- a) In case the tender was subject to post-qualification, the contract shall be awarded to the lowest evaluated tenderer, subject to confirmation of pre-qualification data, if so required.
- b) In case the tender was not subject to post-qualification, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to meeting each of the following conditions.
 - i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow of **Kenya Shillings 400,000,000 (Four Hundred Million Kenya Shillings Only)**.
 - ii) Minimum average annual construction turnover of **Kenya Shillings 400,000,000 (Four Hundred Million Kenya Shillings Only)**, equivalent calculated as total certified payments received for contracts in progress and/or completed within the last 3 (Three) years.
 - iii) At least 3 (Three) No of contract(s) of a similar nature executed within Kenya, or the East African Community, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of minimum value Kenya shillings 100,000,000 (one hundred million shillings each).
 - iv) Contractor's Representative and Key Personnel, which are specified as;
 - a) 1 No. Technical Director- As above.
 - b) 1 No Site Agent –As above
 - c) 5 No Site Foreman- As above
 - v) Contractors key equipment listed on the table “Contractor's Equipment” below and more specifically listed as *[specify requirements for each lot as applicable]*,
 - a) Transport and Hauling Equipment’s- At least 5 No. self-owned tipper lorry (15 tones),
 - b) Concreting Equipment’s-
Concrete batching plant ready to be deployed to site for 1 year =6 Marks.
Self-loading concrete mixer ready to be deployed to site for 1 year =3 Marks.
Ordinary Concrete mixer ready to be deployed to site for 1 year = 1 Mark
 - c) Excavating Equipment-1No.Excavator/Bulldozer self-owned= 3Marks.
Excavator/Bulldozer leased-1 Mark
- i) Other conditions depending on their seriousness.
 - a) **History of non-performing contracts:**
Tenderer and each member of JV in case the Tenderer is a JV, shall demonstrate that Non-performance of a contract did not occur because of the default of the Tenderer, or the member of a JV in the **last 3 (Three) years**. The required information shall be furnished in the appropriate form.

b) **Pending Litigation**

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

c) **Litigation History**

There shall be no consistent history of court/arbitral award decisions against the Tenderer, in the last **3 (Three) years**. All parties to the contract shall furnish the information in the appropriate form about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the years specified. A consistent history of awards against the Tenderer or any member of a JV may result in rejection of the tender.

8 QUALIFICATION FORM SUMMARY

Item No.	Qualification Subject	Qualification Requirement	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met or Not Met)
1.	Nationality	Nationality in accordance with ITT 3.6	Forms ELI – 1.1 and 1.2, with attachments	
2.	Tax Obligations for Kenyan Tenderers	Has produced a current tax clearance certificate or tax exemption certificate issued by the Kenya Revenue Authority in accordance with ITT 3.14.	Form of Tender	
3.	Conflict of Interest	No conflicts of interest in accordance with ITT 3.3	Form of Tender	
4.	PPRA Eligibility	Not having been declared ineligible by the PPRA as described in ITT 3.8	Form of Tender	
5.	State- owned Enterprise	Meets conditions of ITT 3.7	Forms ELI – 1.1 and 1.2, with attachments	
6.	Goods, equipment and services to be supplied under the contract	To have their origin in any country that is not determined ineligible under ITT 4.1	Forms ELI – 1.1 and 1.2, with attachments	
7.	History of Non-Performing Contracts	Non-performance of a contract did not occur as a result of contractor default since 1 st January 2018.	Form CON-2	
8.	Suspension Based on Execution of Tender/Proposal Securing Declaration by the Procuring Entity	Not under suspension based on-execution of a Tender/Proposal Securing Declaration pursuant to ITT 19.9	Form of Tender	
9.	Pending Litigation	Tender's financial position and prospective long-term profitability still sound according to criteria established in 3.1 and assuming that all pending litigation will NOT be resolved against the Tenderer.	Form CON – 2	
10	Litigation History	No consistent history of court/arbitral award decisions against the Tenderer since 1 st January 2018 .	Form CON – 2	
11	Financial Capabilities	(i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as Kenya Shillings 400,000,000 (<i>Four Hundred Million Kenya Shilling</i>) equivalent for the subject contract(s) net of the Tenderer's other commitments. (ii) The Tenderers shall also demonstrate, to the satisfaction of the Procuring Entity, that it has adequate sources of	Form FIN – 3.1, with attachments	

		<p>finance to meet the cash flow requirements on works currently in progress and for future contract commitments.</p> <p>(iii) The audited balance sheets or other financial statements acceptable to the Procuring Entity, for the last 3 (Three) years shall be submitted and must demonstrate the current soundness of the Tenderer's financial position and indicate its prospective long-term profitability.</p>		
12	Average Annual Construction Turnover	<p>Minimum average annual construction turnover of Kenya Shillings 400,000,000 (Four hundred Million Kenya Shillings), equivalent calculated as total certified payments received for contracts in progress and/or completed within the last 10 (Ten) years, divided by years</p>	Form FIN – 3.2	
13	General Construction Experience	<p>Experience under construction contracts in the role of prime contractor, JV member, sub-contractor, or management contractor for at least the last [<i>insert number of years</i>] years, starting 1st January [<i>insert year</i>].</p>	Form EXP – 4.1	
14	Specific Construction & Contract Management Experience	<p>A minimum number of 3 (Three) similar contracts specified below that have been satisfactorily and substantially completed as a prime contractor, joint venture member, management contractor or sub-contractor between at least three (3) Projects of 1No. must be an industrial park & 2 similar projects KShs.500 Million (Five hundred Million shillings only) successfully and substantially completed.</p> <p>(1)2No. others with similar magnitude and complexity.</p> <p>The similarity of the contracts shall be based on the following:</p> <ul style="list-style-type: none"> A. <i>Based on Section VII,</i> B. <i>Scope of Works,</i> C. <i>specify the minimum key requirements in terms of physical size, complexity, construction method, technology and/or other characteristics including part of the requirements that may be met by specialized subcontractors.</i> 	Form EXP 4.2(a)	

QUALIFICATION FORMS

1. FORMEQU; EQUIPMENT

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

Item 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	

Omit the following information for equipment owned by the Tenderer.

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	

2 FORMPER-1

Contractor's Representative and Key Personnel Schedule

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

Contractor' Representative and Key Personnel

1.	Title of position: Contractor's Representative	
	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: [_____]	
	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: [_____]	
	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: [_____]	
	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: <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>

3. FORM PER-2:

Resume and Declaration - Contractor's Representative and Key Personnel.

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

Name of Tenderer

Position [#1]: <i>[title of position from Form PER-1]</i>		
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 Procuring Entity:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present Procuring Entity:

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

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

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

Commitment	Details
Commitment to duration of contract:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>
Time commitment:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>

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

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

Name of Contractor's Representative or Key Personnel: *[insert name]*

Signature: _____

Date: (day month year): _____ Countersignature

of authorized representative of the Tenderer:

Signature: _____ Date: (day month

year): _____

4. TENDERER'S QUALIFICATION WITHOUT PRE-QUALIFICATION

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

4.1 FORM ELI -1.1

Tenderer Information Form

Date: _____

ITT No. and title: _____

Tenderer's name
In case of Joint Venture (JV), name of each member:
Tenderer's actual or intended country of registration: <i>[indicate country of Constitution]</i>
Tenderer's actual or intended year of incorporation:
Tenderer's legal address [in country of registration]:
Tenderer's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____
1. Attached are copies of original documents of <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITT 3.6 <input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement, in accordance with ITT 3.5 <input type="checkbox"/> In case of state-owned enterprise or institution, in accordance with ITT 3.8, documents establishing: <ul style="list-style-type: none">• Legal and financial autonomy• Operation under commercial law• Establishing that the Tenderer is not under the supervision of the Procuring Entity
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

4.2 FORM ELI -1.2

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

Date: _____

ITT No. and title: _____

Tenderer's JV name:
JV member's name:
JV member's country of registration:
JV member's year of constitution:
JV member's legal address in country of constitution:
JV member's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____
1. Attached are copies of original documents of <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITT 3.6. <input type="checkbox"/> In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Procuring Entity, in accordance with ITT 3.8.
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

4.3 FORM CON – 2

Historical Contract Non-Performance, Pending Litigation and Litigation History

Tenderer's Name: _____

Date: _____

JV Member's Name _____

ITT No. and title: _____

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 [insert year] specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 2.1.			
<input type="checkbox"/> Contract(s) not performed since 1 st January [insert year] specified in Section III, Evaluation and Qualification Criteria, requirement 2.1			
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and Kenya Shilling equivalent)
[insert year]	[insert amount and percentage]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Procuring Entity: [insert full name] Address of Procuring Entity: [insert street/city/country] Reason(s) for nonperformance: [indicate main reason(s)]	[insert amount]
Pending Litigation, in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> No pending litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3.			
<input type="checkbox"/> Pending litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3 as indicated below.			

Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)
		Contract Identification: _____ Name of Procuring Entity: _____ Address of Procuring Entity: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
		Contract Identification: Name of Procuring Entity: Address of Procuring Entity: Matter in dispute: Party who initiated the dispute: Status of dispute:	
Litigation History in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> No Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4.			
<input type="checkbox"/> Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4 as indicated below.			

Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: <i>[indicate complete contract name, number, and any other identification]</i> Name of Procuring Entity: <i>[insert full name]</i> Address of Procuring Entity: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Procuring Entity" or "Contractor"]</i> Reason(s) for Litigation and award decision <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>

4.4 FORM FIN – 3.1:

Financial Situation and Performance

Tenderer's Name: _____
 Date: _____
 JV Member's Name _____
 ITT No. and title: _____

4.4.1. 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)					

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
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

*Refer to ITT 15 for the exchange rate

4.4.2 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 (Kenya Shilling equivalent)
1		
2		
3		

4.4.3 Financial documents

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

- (a) reflect the financial situation of the Tenderer or in case of JV member, and not an affiliated entity (such as parent company or group member).
 - (b) be independently audited or certified in accordance with local legislation.
 - (c) be complete, including all notes to the financial statements.
 - (d) correspond to accounting periods already completed and audited.
- Attached are copies of financial 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 Tender, the reason for this should be justified.

4.5 FORM FIN – 3.2:

Average Annual Construction Turnover

Tenderer's Name: _____

Date: _____

JV Member's Name _____

ITT No. and title: _____

Annual turnover data (construction only)			
Year	Amount Currency	Exchange rate	Kenya Shilling 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.

4.6 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

Financial Resources		
No.	Source of financing	Amount (Kenya Shilling equivalent)
1		
2		
3		

4.7 FORM FIN – 3.4:

Current Contract Commitments / Works in Progress

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

Current Contract Commitments					
	Name of Contract	Procuring Entity's Contact Address, Tel,	Value of Outstanding Work [Current Kenya Shilling /month Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [Kenya Shilling /month]
1					
2					
3					
4					
5					

General Construction Experience

Tenderer's Name: _____

Date: _____

JV Member's Name _____

ITT No. and title: _____

Page _____ of _____ pages

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

4.9 FORM EXP - 4.2(a)**Specific Construction and Contract Management Experience**

Tenderer's Name: _____

Date: _____

JV Member's Name _____

ITT No. and title: _____

Similar Contract No.	Information			
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	Kenya Shilling			
If member in a JV or sub-contractor, specify participation in total Contract amount				
Procuring Entity's Name:				
Address:				
Telephone/fax number				
E-mail:				

4.10 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	

4.11 FORM EXP - 4.2(b)

Construction Experience in Key Activities

Tenderer's Name: _____

Date: _____

Tenderer's JV Member Name: _____

Sub-contractor's Name² (as per ITT 34): _____

ITT No. and title: _____

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

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			Kenya Shilling	
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				
Procuring Entity's Name:				
Address: Telephone/fax number E-mail:				

² If applicable

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

2. Activity No. Two

3.

OTHER FORMS

5. FORM OF TENDER

INSTRUCTIONS TO TENDERERS

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

Date of this Tender submission:

Request for Tender No.:

Name and description of Tender

To..... [name of Procuring Entity]

Dear Sirs,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above-named Works, we, the undersigned offer to construct and complete the Works and remedy any defects therein for the sum of Kenya Shillings [..... *[Amount in figures]*] Kenya Shillings *[amount in words]*.
2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Special Conditions of Contract.
3. We agree to adhere by this tender until _____ *[Insert date]*, and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us. We further understand that you are not bound to accept the lowest or any tender you may receive.
5. We, the undersigned, further declare that:
 - i) No reservations: We have examined and have no reservations to the tender document, including Addenda issued in accordance with ITT 28;
 - ii) Eligibility: We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3 and 4;
 - iii) Tender-Securing Declaration: We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing or Proposal-Securing Declaration in the Procuring Entity's Country in accordance with ITT 19.8;
 - iv) Conformity: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the following Works:..... *[insert a brief description of the Works]*;

- v) Tender Price: The total price of our Tender, excluding any discounts offered in item 1 above is:.....
- vii) Discounts: The discounts offered and the methodology for their application are:
- a) The discounts offered are:.....
[Specify in detail each discount offered.]
- b) 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];
- viii) Tender Validity Period: Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- ix) Performance Security: If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tendering document;
- x) One Tender Per Tender: We are not submitting any other Tender(s) as an individual Tender, and we are not participating in any other Tender(s) as a Joint Venture member or as a subcontractor, and meet the requirements of ITT 3.4, other than alternative Tenders submitted in accordance with ITT 13.3;
- xi) Suspension and Debarment: We, along with any of our subcontractors, suppliers, Project Manager, 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 Public Procurement Regulatory Authority or any other entity of the Government of Kenya, or any international organization.
- xii) State-owned enterprise or institution: [select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of ITT 3.8];
- xiii) Commissions, gratuities, fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the tender process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity].

Name of Recipient	Address	Reason	Amount

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

- xiv) Binding Contract: We understand that this Tender, 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;
- xv) Not Bound to Accept: We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other Tender that you may receive;
- xvi) 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;

- xvii) **Collusive practices:** We hereby certify and confirm that the tender is genuine, non-collusive and made with the intention of accepting the contract if awarded. To this effect we have signed the “Certificate of Independent Tender Determination” attached below.
- xviii) We undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from _____ (*specify website*) during the procurement process and the execution of any resulting contract.
- xix) We, the Tenderer, have completed fully and signed the following Forms as part of our Tender:
 - a) Tenderer's Eligibility; Confidential Business Questionnaire – to establish we are not in any conflict to interest.
 - b) Certificate of Independent Tender Determination – to declare that we completed the tender without colluding with other tenderers.
 - c) Self-Declaration of the Tenderer – to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.
 - d) Declaration and commitment to the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal

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

Name of the Tenderer:

Name of the person duly authorized to sign the Tender on behalf of the Tenderer:

.....
 **[insert complete name of person duly authorized to sign the Tender]

Title of the person signing the Tender:

[insert complete title of the person signing the Tender]

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

Date signed..... day of, Year of

Witnessed by..... [Name] [signature]..... [Date]

Notes

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

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

A. TENDERER'S ELIGIBILITY- CONFIDENTIAL BUSINESS QUESTIONNAIRE

Instruction to Tenderer

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

(a) Tenderer's details

	ITEM	DESCRIPTION
1	Name of the Procuring Entity	
2	Reference Number of the Tender	
3	Date and Time of Tender Opening	
4	Name of the Tenderer	
5	Full Address and Contact Details of the Tenderer.	1. Country 2. City 3. Location 4. Building 5. Floor 6. Postal Address 7. Name and email of contact person.
6	Current Trade License Registration Number and Expiring date	
7	Name, country and full address (<i>postal and physical addresses, email, and telephone number</i>) of Registering Body/Agency	
8	Description of Nature of Business	
9	Maximum value of business which the Tenderer handles.	
10	State if Tenders Company is listed in stock exchange, give name and full address (<i>postal and physical addresses, email, and telephone number</i>) of state which stock exchange	

General and Specific Details

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

Name in full _____ Age _____ Nationality _____
 _____ Country of Origin _____ Citizenship _____

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

	Names of Partners	Nationality	Citizenship	% Shares owned
1				
2				
3				

d) **Registered Company**, provide the following details.

i) Private or public Company _____

ii) State the nominal and issued capital of the Company _____

Nominal Kenya Shillings (Equivalent)..... Issued

Kenya Shillings (Equivalent).....

iii) Give details of Directors as follows.

	Names of Director	Nationality	Citizenship	% Shares owned
1				
2				
3				

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

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

If yes, provide details as follows.

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

ii) **Conflict of interest disclosure**

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
1	Tenderer is directly or indirectly controls, is controlled by or is under common control with another tenderer.		
2	Tenderer receives or has received any direct or indirect subsidy from another tenderer.		
3	Tenderer has the same legal representative as another tenderer		
4	Tender has a relationship with another tenderer, directly or through common third parties, that puts it in a position to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering		

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
	process.		
5	Any of the Tenderer's affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender.		
6	Tenderer would be providing goods, works, non-consulting services or consulting services during implementation of the contract specified in this Tender Document.		
7	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract.		
8	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who would be involved in the implementation or supervision of the such Contract.		
9	Has the conflict stemming from such relationship stated in item 7 and 8 above been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.		

f) Certification

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

Full Name _____ Title or

Designation _____

(Signature)

(Date)

B. CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

I, the undersigned, in submitting the accompanying Letter of Tender to the _____ [Name of Procuring Entity] for: _____ [Name and number of tender] in response to the request for tenders made by: _____ [Name of Tenderer] do hereby make the following statements that I certify to be true and complete in every respect:

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

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

Name _____ Title ___ Date _____

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

FORM SD1

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

I of Post Office Box being a resident of in the Republic of do hereby make a statement as follows: -

1. THAT I am the Company Secretary/ Chief Executive/Managing Director/Principal Officer/Director of (*insert name of the Company*) who is a Bidder in respect of Tender No. for (*insert tender title/description*) for (*insert name of the Procuring entity*) and duly authorized and competent to make this statement.
2. THAT the aforesaid Bidder, its Directors and subcontractors have not been debarred from participating in procurement proceeding under Part IV of the Act.
3. THAT what is deponed to herein above is true to the best of my knowledge, information and belief.

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

Bidder Official Stamp

FORM SD2

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

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

1. THAT I am the Chief Executive/Managing Director/Principal Officer/Director of , (*name of the Company*) who is a Bidder in respect of Tender No..... for (*insert tender title/description*) for (*insert name of the Procuring entity*) and duly authorized and competent to make this statement.
2. THAT the aforesaid Bidder, its servants and/or agents /subcontractors will not engage in any corrupt or fraudulent practice and has not been requested to pay any inducement to any member of the Board, Management, Staff and/or employees and/or agents of..... (*insert name of the Procuring entity*) which is the procuring entity.
3. THAT the aforesaid Bidder, its servants and/or agents /subcontractors have not offered any inducement to any member of the Board, Management, Staff and/or employees and/or agents of..... (name of the procuring entity)
4. THAT the aforesaid Bidder will not engage /has not engaged in any corrosive practice with other bidders participating in the subject tender
5. THAT what is deponed to herein above is true to the best of my knowledge information and belief.

.....
(Title)

.....
(Signature)

.....
(Date)

Bidder's Official Stamp

DECLARATION AND COMMITMENT TO THE CODE OF ETHICS

I (person) on behalf of (*Name of the Business/ Company/Firm*).....declare that I have read and fully understood the contents of the Public Procurement & Asset Disposal Act, 2015, Regulations and the Code of Ethics for persons participating in Public Procurement and Asset Disposal and my responsibilities under the Code.

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

Name of Authorized signatory..... Sign.....

Position.....

Office address..... Telephone.....

E-mail.....

Name of the Firm/Company.....

Date..... (Company Seal/ Rubber

Stamp where applicable)

Witness

Name Sign.....

Date.....

D. APPENDIX 1- FRAUD AND CORRUPTION

(Appendix 1 shall not be modified)

1. Purpose

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

3. Requirements

The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (applicants/proposers), Consultants, Contractors and Suppliers; any Sub-contractors, Sub-consultants, Service providers or Suppliers; any Agents (whether declared or not); and any of their Personnel, involved and engaged in procurement under Kenya's Laws and Regulation, observe the highest standard of ethics during the procurement process, selection and contract execution of all contracts, and refrain from Fraud and Corruption and fully comply with Kenya's laws and Regulations as per paragraphs 1.1 above.

Kenya's public procurement and asset disposal act (*no. 33 of 2015*) under Section 66 describes rules to be followed and actions to be taken in dealing with Corrupt, Coercive, Obstructive, Collusive or Fraudulent practices, and Conflicts of Interest in procurement including consequences for offences committed. A few of the provisions noted below highlight Kenya's policy of no tolerance for such practices and behavior: -

- 1) a person to whom this Act applies shall not be involved in any corrupt, coercive, obstructive, collusive or fraudulent practice; or conflicts of interest in any procurement or asset disposal proceeding;
- 2) A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;
- 3) Without limiting the generality of the subsection (1) and (2), the person shall be: -
 - a) disqualified from entering into a contract for a procurement or asset disposal proceeding; or
 - b) if a contract has already been entered into with the person, the contract shall be voidable;
- 4) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;
- 5) An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity who has a conflict of interest with respect to a procurement: -
 - a) shall not take part in the procurement proceedings;
 - b) shall not, after a procurement contract has been entered into, take part in any decision relating to the procurement or contract; and
- c) shall not be a subcontractor for the bidder to whom was awarded contract, or a member of the group of bidders to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.
- 6) An employee, agent or member described in subsection (1) who refrains from doing anything prohibited under that subsection, but for that subsection, would have been within his or her duties shall disclose the conflict of interest to the procuring entity;
- 7) If a person contravenes subsection (1) with respect to a conflict of interest described in subsection (5)(a) and the contract is awarded to the person or his relative or to another person in whom one of them had a direct or indirect pecuniary interest, the contract shall be terminated and all costs incurred by the public entity shall be made good by the awarding officer. Etc.

In compliance with Kenya's laws, regulations and policies mentioned above, the Procuring Entity:

- a) Defines broadly, for the purposes of the above provisions, the terms set forth below as follows:
 - i) "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii) "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;

- iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - v) “obstructive practice” is:
 - deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede investigation by Public Procurement Regulatory Authority (PPRA) or any other appropriate authority appointed by Government of Kenya into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3 e. below.
- b) Defines more specifically, in accordance with the above procurement Act provisions set forth for fraudulent and collusive practices as follows:
- "fraudulent practice" includes a misrepresentation of fact in order to influence a procurement or disposal process or the exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor, and includes collusive practices amongst tenderers prior to or after tender submission designed to establish tender prices at artificial non-competitive levels and to deprive the procuring entity of the benefits of free and open competition.
- c) Rejects a proposal for award¹ of a contract if PPRA determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
 - d) Pursuant to the Kenya's above stated Acts and Regulations, may sanction or recommend to appropriate authority (ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;
 - e) Requires that a clause be included in Tender documents and Request for Proposal documents requiring (i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub-consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to inspect² 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 PPRA or any other appropriate authority appointed by Government of Kenya; and
 - f) Pursuant to Section 62 of the above Act, requires Applicants/Tenderers to submit along with their Applications/Tenders/Proposals a “Self-Declaration Form” as included in the procurement document declaring that they and all parties involved in the procurement process and contract execution have not engaged/will not engage in any corrupt or fraudulent practices.

¹ For the avoidance of doubt, a party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and tendering, 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 Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Investigating Authority or persons appointed by the Procuring Entity 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; 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.

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

Beneficiary: _____

Request for Tenders No:

Date: _____

TENDER GUARANTEE No.: _____

Guarantor: _____

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

[signature(s)]

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

TENDER-SECURING DECLARATION FORM

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

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

Tender No *[insert number of tendering process]*

To:..... *[insert complete name of Purchaser]* I/We, the undersigned, declare that:

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

Signed: Capacity / title (director

or partner or sole proprietor, etc.) Name:

..... Duly authorized to sign the bid

for and on behalf of: *[insert complete name of Tenderer]*

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

Appendix to Tender

Schedule of Currency requirements

Summary of currencies of the Tender for _____ *[insert name of Section of the Works]*

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

PART II - WORK REQUIREMENTS

SECTION V - DRAWINGS

A list of drawings should be inserted here. The actual drawings including Site plans should be annexed in a separate booklet.

SECTION VI - SPECIFICATIONS

Notes for preparing Specifications

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

SECTION VII- BILLS OF QUANTITIES

1. Objectives

The objectives of the Bill of Quantities are:

- a) to provide sufficient information on the quantities of Works to be performed to enable tenders to be prepared efficiently and accurately; and
- b) when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and contents of the Bill of Quantities should be as simple and brief as possible.

2. Day work Schedule

A Day work Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Procuring Entity of the realism of rates quoted by the Tenderers, the Day work Schedule should normally comprise the following:

- a) A list of the various classes of labor, materials, and Constructional Plant for which basic day work rates or prices are to be inserted by the Tenderer, together with a statement of the conditions under which the Contractor shall be paid for work executed on a day work basis.
- b) Nominal quantities for each item of day work, to be priced by each Tenderer at day work rates as Tender. The rate to be entered by the Tenderer against each basic day work item should include the Contractor's profit, overheads, supervision, and other charges.

3. Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary priced Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the Special Conditions of Contract should state the manner in which they shall be used, and under whose authority (usually the Project Manager's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Tenderers in respect of any facilities, amenities, attendance, etc., to be provided by the successful Tenderer as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Tenderer

to quote a sum for such amenities, facilities, attendance, etc.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the tendering document. They should not be included in the final tendering document.

4. The Bills of Quantities

- a) Preambles
- b) Preliminary items
- c) Work Items
- c) Daywork Schedule;and
- d) Provisional items
- e) Summary



REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BOMET.

**PROPOSED CONSTRUCTION OF INDUSTRIAL PARK FOR
ECONOMIC PLANNING.
SPECIFICATIONS AND BILLS OF QUANTITIES**

PROJECT MANAGER

P.O BOX 19-20400

BOMET COUNTY

**QUANTITY
SURVEYORS**

P.O BOX 19-20400

BOMET COUNTY

ARCHITECTS

P.O BOX 19-20400

BOMET COUNTY

SERVICE ENGINEERS

P.O BOX 19-20400

BOMET COUNTY

STRUCTURAL ENGINEERS

P.O BOX 19-20400

BOMET COUNTY



PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT(Kshs.)
	<p style="text-align: center;">PARTICULAR PRELIMINARIES</p> <p>A EMPLOYER State Department For Investment Promotion Ministry of Trade, Investments and Industry The term "Employer" and "Government" wherever used in the contract document shall be synonymous</p> <p>B LOCATION OF SITE The site of the proposed works is- The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor's failure to do so will be entertained.</p> <p>C DESCRIPTION OF THE WORKS The works to be carried out under this contract comprise Construction of warehouses, ablution block, pump house,pump house,boundaary wall icluding substructure works, re superstructure, steel superstructure, doors, wiindowa, finishes, joinery and associated mechanical, electrical & civil works</p> <p>D FORM OF CONTRACT The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works & Civil Engineering Works(Revised Edition 2022-(2015)) included herein.Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities</p> <p>E BID BOND A bid bond shall be required in the amount stated here or in the invitation to tender or advertisement Bid bond shall be from EITHER an insurance or bank.</p> <p>F CLEARING AWAY The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager. The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>WORKING CONDITIONS These are works to be undertaken in an existing building. The contractor must allow for compliance with all County & Civic Authority laws & regulations</p> <p>B CLAIMS It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and/or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claims shall be entertained upon the expiry of the said contract period.</p> <p>C LABOUR CAMPS The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p> <p>D PRICING RATES The tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items for which no rate or price is entered by the tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the said Conditions of Contract. Prices quoted should be net inclusive of all taxes, must be in Kenya shillings Prices shall remain valid for One Hundred and twenty (120) days from the closing date of tender. The rates and prices quoted by the tenderer shall only be subject to adjustment during the performance of the Contract if provided for in the Appendix to Conditions of Contract and provisions made in the Conditions of Contract.</p> <p>E MATERIALS FROM DEMOLITIONS Any materials arising from demolitions SHALL NOT BE re-used shall become the property of the client unless otherwise advised.</p> <p>F URGENCY OF THE WORKS The Contractor is notified that these "works are urgent" and should be completed within the period stated in these Particular Preliminaries. The Contractor shall allow in his rates for any costs he deems that he/she may incur by having to complete the works within the stipulated contract period.</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>PAYMENTS GENERALLY</p> <p>The contractor is advised to deliver & concur on his claim for payment with the PM before the following site visit to enable approval of the same by the Acceptance & Approval Committee.</p> <p>The claim shall be prepared in the same format as these bills clearly showing quantities & rates (both work & materials).</p> <p>Both the PM & contractor should be able to locate & identify the items claimed from the main bill.</p> <p>The last contractual claim/invoice for the relevant financial year should reach the PM by 30th May. Latter claims shall not be processed for payment in the current year.</p> <p>B PAYMENT FOR MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p> <p>C ADVANCE PAYMENTS</p> <p>The tenderer's attention is drawn to the fact that the Government does not make any advance payments.</p> <p>D EXISTING SERVICES</p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p> <p>E TENDER DOCUMENTS</p> <p>Tender documents are as listed in Clause 6 of the Instruction to Tenderer's Page 9</p> <p>F DELIVERY OF TENDER</p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in the advertisement.</p> <p>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered/received later than the above time will not be opened.</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>MEASUREMENTS In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 12 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 12 of the said Conditions.</p>	
B	<p>VALUE ADDED TAX The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1^o September, 1993 which requires payment of VAT on all contracts. In accordance with Government public notice No. 35 & 36 Dated 11th September 2003 operational from 1st October 2003, withholding VAT was to be levied against the contract sum by the Employer and remitted to the Commissioner of VAT through all interim certificates.</p> <p>THE CURRENT LAWS ON THIS SUBJECT SHALL APPLY The contractor should include this tax in the RATES and NOT in the Grand Summary.</p>	
C	<p>PROJECT MANAGEMENT.</p> <p>Allow a provisional Sum of Kenya Shillings Four Million and Five Hundred (KShs.4,500,000) only for Project Management to be expended as directed by the PM</p>	
D	<p>Allow a percentage sum for the contractors administrative costs, profits and all taxes for the above (4%)</p>	
Total carried to summary		

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</p> <p>The following are the insertions to be made in the appendix to the contract Agreement:-</p> <p>Period of Final Measurement 3 Months from Practical Completion</p> <p>Defects Liability Period 6 Months from Practical Completion</p> <p>Date for Possession To be agreed with the Project Manager</p> <p>Date for Completion Sixteen 28 WEEKS from the Date of possession</p> <p>Liquidated and Ascertained Damages</p> <p>At a rate of 0.05% of the contract price per day</p> <p>Period of Interim Certificates————— Monthly</p> <p>Period of Honouring Certificates—————30 Days</p> <p>Percentage of Certified Value Retained 10%</p> <p>Limit of Retention Fund 5%</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
	SUMMARY	
	Brought forward from page PP/1	
	Brought forward from page PP/2	
	Brought forward from page PP/3	
	Brought forward from page PP/4	
	Brought forward from page PP/5	
	TOTAL CARRIED TO GRAND SUMMARY	



GENERAL PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT (Kshs.)
<p>A.</p> <p>B.</p> <p>C.</p>	<p style="text-align: center;">GENERAL PRELIMINARIES</p> <p>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p>Failure to price an item shall not exempt the contractor from carrying out works described therein.</p> <p>Should the contractor fail to carry out works which he/she did not price and after having received a written instruction from the PM, then the value of such works shall be deducted from the very immediate certificate issued to the contractor.</p> <p>MoPW current rates, manufacturers or fair rates shall be used by the PM in valuation of unpriced items which the contractor shall fail to execute.</p> <p>The contractor is advised to read and understand all preliminary items.</p> <p>The Contractor is advised to visit the site, to familiarize with the nature and position of the site.</p> <p>No claims arising from the Contractor's failure to do so will be entertained.</p> <p>FIRM PRICE CONTRACT</p> <p>Unless otherwise specifically stated in the Contract Data and/or Particular preliminaries this is a firm price contract and the contractor must allow in his tender rates for any increase in the cost of labour and/or materials during the currency of the contract.</p> <p>VISIT SITE AND EXAMINE DRAWINGS.</p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>	
	<p>Total carried to summary</p>	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>BONDS.</p> <p>The Contractor shall find and submit on the Form of Tender a guarantor and who will be willing to be bound the Government in the amount of the bond. The amount of the bond is SPECIFIED IN THE PARTICULAR PRELIMINARIES The guarantor shall be an approved institution as specified in the particular preliminaries or invitation to tender and who will when and if called upon, sign a Bond to that effect on the relevant standard form included herein. (without the addition of any limitations) on the same day as the Contract Agreement is signed, by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p>	
B	<p>PERFORMANCE BOND</p> <p>Performance Bond equivalent to 5% of the contract sum will be required in accordance with clause 48 of the Instruction to Tenderers The period for supplying the bond shall be within 21 days of the receipt of the letter of award from the Procuring Entity No contract shall be signed, NOR shall any payment be made before the bidder has complied with the bond requirements</p> <p>Failure to deliver the bond within the specified period shall automatically disqualify the bidder and the tender shall be awarded to next most responsive bidder without reference to the defaulting bidder.</p> <p>Should the bidder commence works and subsequently fail to provide the bond, he shall be evicted from site without any reimbursement notwithstanding the site having been handed over by the PM and client. The handing over only kickstarts the process and is not a waiver to bond conditions.</p> <p>The bond for the due performances of the Contract shall be valid up to the date of completion as certified by the PROJECT MANAGER</p> <p>Any bond which provides otherwise or attempts to vary the duration of validity shall be invalid The bond shall comply in all respects with the PPRA copy enclosed in the instructions to tender. A bond that does not match the PPRA copy shall be treated as NO BOND The contractor shall provide a bid security duly signed, sealed and stamped from an approved Bank of required amount in the particular preliminaries</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT Attendance; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub-contractors' work and being responsible for the accuracy of the same.</p>	
B	<p>Fix Only:- "Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p> <p>ABBREVIATIONS</p> <p>Throughout these Bills units of measurement and terms are abbreviated and shall be interpreted as follows:- CM or Cm Shall mean cubic meter SM or Sm Shall mean square meter LM or Lm Shall mean linear meter MM or mm Shall mean Millimeter KG or Kg. Shall mean Kilogramme No or Nr Shall mean Number PRS or Prs. Shall mean Pairs</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	EMPLOYER The "Employer" is AS DEFINED UNDER PARTICULAR PRELIMINARIES The term "Employer" and "Government" wherever used in the contract document shall be synonymous	
B	PROJECT MANAGER shall be :- The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government. In this Project, the PM shall be :- WORKS SECRETARY M.O.L.P.W. H.&U.D (STATE DEPARTMENT FOR PUBLIC WORKS) P.O. BOX 30743-00100 NAIROBI	
C	ARCHITECT The term "Architect" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is as above	
D	QUANTITY SURVEYOR The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is as above	
E	ELECTRICAL ENGINEER The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is as above	
F	MECHANICAL ENGINEER The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is as above	
G	STRUCTURAL ENGINEER The term "Structural Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is as above	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>PLANT, TOOLS AND VEHICLES</p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the work except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p> <p>TRANSPORT.</p>	
B	<p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p> <p>MATERIALS AND WORKMANSHIP.</p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p> <p>SIGN FOR MATERIALS SUPPLIED.</p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking delivery thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER</p> <p>STORAGE OF MATERIALS</p> <p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER. Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p> <p>The contractor shall provide a bid security duly signed, sealed and stamped from an approved Bank of required amount in the particular preliminaries</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>SAMPLES</p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER PROVIDED THEY PASS THE TEST. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work. Samples of paint, carpets, curtains & covers, tiles & timber shall be required for approval by the PM together with the employer.</p> <p>No alternte rate shall be offered on account that the employer has chosen a superior finish unless the bidder had attached the sample he priced.</p> <p>PUBLIC AND PRIVATE ROADS.</p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER</p> <p>B</p> <p>EXISTING PROPERTY.</p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER</p> <p>C</p> <p>ACCESS TO SITE AND TEMPORARY ROADS.</p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>AREA TO BE OCCUPIED BY THE CONTRACTOR The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>	
B	<p>SECURITY OF WORKS ETC. The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p>	
C	<p>PROGRESS CHART. The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p>	
D	<p>INSURANCE The Contractor shall insure as required in Conditions No. 18 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p>	
E	<p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
Total carried to summary		

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>PROVISIONAL WORK</p> <p>All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p>	
B	<p>PROVISIONAL SUMS.</p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement. Such sums are net and no addition shall be made to them for profit.</p>	
C	<p>ADJUSTMENT OF PROVISIONAL SUMS.</p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued , but should any part of the work be executed by a Nominated Sub-contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>	
D	<p>PRIME COST (OR P.C.) SUMS.</p> <p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement . Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>ADJUSTMENT OF P.C. SUMS.</p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them. Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
B	<p>NOMINATED SUB-CONTRACTORS</p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".</p>	
C	<p>DIRECT CONTRACTS</p> <p>Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p>	
D	<p>ATTENDANCE UPON OTHER TRADESMEN, ETC.</p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>OFFICE ETC. FOR THE PROJECT MANAGER</p> <p>The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the type noted in the Particular Preliminaries, complete with Furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.</p>	
B	<p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER. The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub-contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
C	<p>SANITATION OF THE WORKS</p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER</p>	
D	<p>SUPERVISION AND WORKING HOURS</p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p>	
E	<p>PROTECTION OF THE WORKS.</p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing, casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government. however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>WORKS TO BE DELIVERED UP CLEAN</p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p>	
B	<p>GENERAL SPECIFICATION.</p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
C	<p>TRAINING LEVY</p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000.00 in value.</p>	
D	<p>MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p>	
E	<p>HOARDING</p> <p>The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm centres with two 75 x 50 mm timber rails for a total length of approximately three hundred meters. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p>	
F	<p>ALTERATIONS TO BILLS, PRICING, ETC.</p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
A	<p>MATERIALS ARISING FROM EXCAVATIONS</p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless otherwise provided for in the particular preliminaries. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
B	<p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</p> <p>The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site.</p>	
C	<p>GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.</p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople. The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p>	
D	<p>REMOVAL OF RUBBISH ETC.</p> <p>Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p>	
C	<p>BLASTING OPERATIONS</p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
D	<p>SIGNBOARD</p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>	
	Total carried to summary	

ITEM	DESCRIPTION	AMOUNT (Kshs.)
	SUMMARY	
	Brought Forward From Page GP/8	
	Brought Forward From Page GP/9	
	Brought Forward From Page GP/10	
	Brought Forward From Page GP/11	
	Brought Forward From Page GP/12	
	Brought Forward From Page GP/13	
	Brought Forward From Page GP/14	
	Brought Forward From Page GP/15	
	Brought Forward From Page GP/16	
	Brought Forward From Page GP/17	
	Brought Forward From Page GP/18	
	Brought Forward From Page GP/19	
	TOTAL CARRIED TO GRAND SUMMARY	

AGG. WAREHOUSE COLD STORAGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>AGGREGATION WAREHOUSES & COLD STORAGE</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site Clearance</u>				
A.	Clear site of all shrubs, bushes and small trees and grub up roots, cart away to spoil heaps away from site	3117	SM		
	<u>Bulk Excavation</u>				
B.	Bulk soil excavation to levels not exceeding 1.50m deep starting from ground level	3642	CM		
C.	Excavate for strip footings depth not exceeding 1.5m from black cotton excavation level	0	CM		
D.	Excavate for column and column bases depth not exceeding 1.5m from black cotton excavation level	5850	CM		
E.	Extra over excavation in rock	15	CM		
F.	Remove and cart away surplus excavated materials.	9492	CM		
	<u>Diposal of water</u>				
G.	Keeping all excavations free from all water including spring or running water		Item		
	<u>Planking and strutting</u>				
H.	Uphold the sides of all excavations		Item		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Selected imported material</u>				
A	Filling in making up levels around foundation, spread levelled, well rammed and consolidated in 150mm layers.	1998	CM		
	<u>Soil Stabilization with Lime</u>				
B	Provide 150mm thick lime mixed with murrum for stabilization	3117	SM		
	<u>Hardcore filling</u>				
C	Hardcore fillings in making up levels: levelled and compacted in 150 mm layers	3958	CM		
D	50mm (average) thick quarry dust blinding to surfaces of hardcore	3117	SM		
	<u>Antitermite treatment</u>				
E	Premise 200 CC' or other equal and approved antitermite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and Foundation walls	3117	SM		
	<u>50mm thick mass concrete class Q(1:3:6) in:-</u>				
F	Column bases	440	SM		
G	Strip foundation	408	SM		
	<u>Reinforced concrete; class 25/(20mm) mix (1:1.5:3); vibrated</u>				
H	Column bases	200	CM		
I	Intermediate beams	74	CM		
J	Foundation columns	38	CM		
K	Ground Beam	37	CM		
L	200mm thick ground slab	3117	SM		
M	200mm thick Ramp	164	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Reinforcement</u> <u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
A.	Assorted dimeters	70234	KG		
	<u>Sawn formwork to insitu concrete as described to :-</u>				
B	Sides; vertical or battering of foundation columns	328	SM		
C	Sides; vertical or battering of columns bases	400	SM		
D	Sides; vertical or battering of strip	272	SM		
E	Sides; vertical or battering of ground beam	272	SM		
F	Edges of ground floor slab; 150 to 225 mm wide	411	LM		
	<u>Insitu Finishings</u>				
G	14mm thick 2No. coatwork cement sand(1:3) render; wood floated to concrete or blockwork base to walls; external	311	SM		
	<u>Painting and Decorations</u> <u>Prepare and apply three coats bituminous paint to:</u>				
H.	Wood floated rendered plinths over 300mm girth	311	SM		
	<u>Masonry</u> <u>200mm thick approved natural stone; local; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar including reinforcing with hoop iron ties every alternate course.</u>				
I.	200mm thick walling	900	SM		
	Louver Blocks				
J.	Supply and install louve blocks as per architect approval	242	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	BRC Fabric mesh reinforcement Ref. A193 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed	3117	SM		
B.	<u>Expansion joint filler</u> Flexcell expansion joint filler 50x150mm deep	286	LM		
C.	<u>Expansion joint</u> 50x25 mm approved mastic expansion joint sealer	286	LM		
Carried to collection page					
	Page 4/1 Page 4/2 Page 4/3 Page above				
Total for substructures to Summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u>				
	<u>REINFORCED CONCRETE FRAMING AND STEEL WORKS</u>				
	<u>Reinforced concrete; class 25/(20mm) mix (1:1.5:3);</u>				
A.	150mm suspended slabs	660	SM		
B.	Beams	64	CM		
C.	Columns	7	CM		
D.	Stairs	9	CM		
E	<u>Reinforcement</u>				
F.	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
	Assorted ribbed bars 26,314 KG	28869	KG		
	<u>Sawn formwork to insitu concrete as described to :-</u>				
F	Soffits of suspended slab	500	SM		
G	To sides and soffits of beams.	1168	SM		
H	Vertical sides of columns	33	LM		
I	<u>Edges of slab</u>				
	150 to 225mm high	200	LM		
J	Slopping soffits of stairs	43	SM		
	<u>Risers</u>				
J.	150 to 225mm high	96	LM		
K.	<u>Edges of stairs</u>				
	150 to 225mm high	48	LM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>Supply, deliver to site and erect mild steel frame steelwork to BS 449 with and including welds and bolting connections. Rates to include for all materials,labour ,stiffeners,welding or bolts , wastage and cutting,drilling all gusset plates fastenings and connections and all other items necessary for satisfactory incorporation into works including wire brushing surfaces free from rust,steel to be painted with one coat an epoxy primer containing zinc chromate followed by two coats of masterseal SP 120 before fabrication and one other coat after fabrication</p> <p>All structural steelworks in roofing shall be in accordance with ASTM A500 KS02-104 Grade 250,all welding in accordance with BS5135 and bolts and nuts,grade 4.6 to BS4360.All steelwork shall be primed withn red oxide before delivery to site.</p> <p><u>Columns and posts , size</u></p> <p>A. 356 x 171 x 57kg/m UB 46,683 KG</p> <p><u>Beams , size</u></p> <p>C. 203 x 133 x 25kg/m UB</p>	41230	KG		
	Carried to collection				
	<p>Brought forward from page 4/5</p> <p>Brought down from above</p>				
	Total for Rc frame carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>WALLING</u>				
A.	200mm dpc	384	LM		
B	150 ditto	223	LM		
C	200 x 200 lintel	38	CM		
D	200mm ext wall	1850	SM		
F	200mm internal wall	1899	SM		
G	100mm thick internal wall	68	SM		
	Walling Carried to summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>DOORS</u>				
	panneled doors				
A.	900 x 2400mm panel doors	12	No.		
B.	Semi-solid core flush doors 900 x 2400mm	48	No.		
C.	Metal casement doors 900 x 2400mm high.	3	No.		
D.	Galvanised steel roller shutter door 5000 x 3000mm.	6	No.		
E.	Hardwood frames 150 x 50mm	348	Lm.		
F.	40 x 35 mm architrave	348	Lm.		
G.	25 x 25mmquadrants	348	Lm.		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Three Lever Mortice Lock (Assa Abbloy)	60	NO.		
B	Stainless Steel Hinges	60	PRS		
C	Indicator engaged /Vacant Bolts	44	NO.		
D	Rubber Door stop	60	NO.		
E	Al Primer 100-200mm	348	LM		
	<u>Polyurethane Primer:</u>				
F	General Timber Surfaces over 300mm	328	SM		
G	Frame 200-300mm	479	LM		
H	Not exceeding 100mm	958	LM		
I	Gloss oil general steel surfaces	258	SM		
	Carried to collection				
	<u>COLLECTION</u>				
	From page 3/8				
	From page 3/9				
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Window cill	361	LM		
	MILD STEEL CASEMENT WINDOWS				
B.	5000 X 1500MM High	30	No		
B.	4500 X 1500MM High	12	No		
C.	4500 X 900MM High	6	No		
D.	2400 X 1500MM High	2	No		
E.	2100 X 900MM High	6	No		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Glazing 4mm Gloss oil paint	356	SM		
B	Over 300mm girth internal	356	SM		
D	Over 300mm girth external	356	SM		
CARRIED TO COLLECTION					
<p><u>COLLECTION</u></p> <p>From page 3/10</p> <p>From page 3/11</p>					
TOTAL FOR WINDOWS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FINISHES</u>				
	KEY AND POINTING				
A	walls ,beams & columns	1850	SM		
	<u>PLASTER 18MM THICK;</u>				
B	Beams ext.	165	SM		
C	walling internal	3888	SM		
D	Ditto External	2880	SM		
	<u>300 X 300MM CERAMIC TILES</u>				
E	6MM thick tiles to internal walls	670	SM		
F	plastice edging	320	LM		
G	Backing & Beds	670	SM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting & Decoration</u>				
A.	Walls, external beams	4053	SM		
B.	walls internal	3888	SM		
C.	400 x 400mm non-slip ceramic tiles	660	SM		
	<u>Backings:</u>				
D.	40mm backings	660	SM		
E.	Skirtings	922	LM		
	<u>Terrazzo</u>				
F	32mm Thick screed finished to receive terrazzo flooring (m.s) in lobbies and corridors	2350	SM		
G	20 mm Thick polished terrazzo flooring:laid on screeded surfaces (m.s) not exceeding 15 degrees fall : including floor dividing strips and non-slip grips/carborundum inserts where necessary; to	2350	SM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Ceiling finishes				
B	Slab soffits 18mmthick	660	SM		
C	emulsion paint on ceiling	660	SM		
D.	Hunter douglas suspended aluminium ceiling comprising V- carries , panels suspension hangers, flush jointing and trsp doors in matt finish.	300	SM		
	Carried to Collection				
	From page 3/13				
	From page 3/14				
	From Above				
	TOTAL FOR FLOOR FINISHES CARRIED TO SUMMARY PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.9</u>				
	<u>FITTINGS</u>				
	<u>Vibrated reinforced concrete class 25</u>				
	<u>Worktops tops</u>				
A.	75mm thick	10	SM		
	<u>Plain concrete</u>				
	<u>Plinth, thickness</u>				
	<u>Soffits and sides: Work tops.</u>				
B	100 mm	10	SM		
	<u>Steel mesh fabric reinforcement to B.S 4483</u>				
	<u>Layer of mesh fabric reinforcement laid in slab or</u>				
C.	bed (measured nett - no allowance made for laps) Ref. A142 w	10	SM		
	<u>Formwork</u>				
D.	Soffits of worktops	10	SM		
	<u>Edges of worktop & plinths</u>				
E.	E - not exceeding 75 mm high	64	LM		
	<u>Lime plaster</u>				
F.	Plaster to soffits of worktop	10	SM		
	<u>Prepare and apply three coats matt emulsion paint</u>				
	<u>according to manufacturer's instructions on,</u>				
G.	Plastered soffits	10	SM		
	<u>Sundries</u>				
H.	Chase in walling for edge of slab, size 75 x 50 mm	32	LM		
	<u>Tile tops</u>				
I.	20 mm	10	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<u>Fascia, width and thickness</u> 100 x 20 mm <u>Joinery fittings</u> <u>Joinery fittings made of hardwood framing and good quality 18mm thick MDF as supplied by PG</u> <u>BYSON to form sides, divisions, shelving and doors.</u> <u>Fittings complete with all necessary ironmongery</u> <u>Low level kitchen cabinets, overall size</u>	32	LM		
B.	2300 x 800 x 1000mm	1	NO.		
Carried to collection					
<u>COLLECTION</u> From page 4/15 From above					
TOTAL FOR FITTINGS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<p><u>ELEMENT NO. 8</u></p> <p><u>BALUSTRADING & RAILINGS</u> Balustrading and railings comprising of mildsteel rhs handrail size 75x50mm fixed to 50x50mm balusters at 1000mm spacing, balusters bolted to concrete plinths or beds and 25mm mid-rails fixed to balusters at 200mm, overall height</p> <p>900mm</p>	162	LM		
	TOTAL FOR BALUSTRADING & RAILINGS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><u>ELEMENT NO. 10</u></p> <p><u>STRUCTURAL STEELWORK & ROOFING</u></p> <p>Supply, deliver to site and erect mild steel frame steelwork to BS 449 with and including welds and bolting connections. Rates to include for all materials,labour ,stiffeners,welding or bolts , wastage and cutting,drilling all gusset plates fastenings and connections and all other items necessary for satisfactory incorporation into works including wire brushing surfaces free from rust,steel to be painted with one coat an epoxy primer containing zinc chromate followed by two coats of masterseal SP 120 before fabrication and one other coat after fabrication</p> <p>All structural steelworks in roofing shall be in accordance with ASTM A500 KS02-104 Grade 250,all welding in accordance with BS5135 and bolts and nuts,grade 4.6 to BS4360.All steelwork shall be primed withn red oxide before delivery to</p> <p><u>Rafters, size</u></p> <p>A 356 x 171 x 45kg/m UB</p> <p><u>Z PURLIN</u></p> <p>B 150 x 50 x 2 x 4.7kg/m</p> <p><u>Braces, size</u></p> <p>C 50 x 50 x 3 x 4.43kg/m SHS</p> <p>D 16mm diameter antisag rods</p>				
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Mild steel plates and bolts</u>				
	<u>Triangular apex haunch 5000mm long, size</u>				
A.	457 x 191 x 67.1kg/m UB	34	NO.		
	<u>Triangular knee haunch 5000mm long, size</u>				
B.	457 x 191 x 67.1kg/m UB	66	NO.		
	<u>Base Plate, size</u>				
C.	400x400x20mm plate bolted to reinforced concrete columns	47	NO.		
D.	170x850x15mm ms plate;bolted on rafters and apex haunches	34	NO.		
E.	170x850x15mm ms plate welded to columns; bolted to rafters	48	NO.		
F.	80x191x15mm ms stifenner plates welded to the flange and web of the column	42	NO.		
G.	252x160x15mm ms plate welded to columns	44	NO.		
H.	75x75x6 mm purlin connection ms plate	354	NO.		
I.	75x75x4mm ms plate at purlin rafters connection	468	NO.		
J.	220x60x3 mm ms fish plate at purlin rafters connection	468	NO.		
	<u>Bolts,nuts and washers</u>				
	<u>25 mm Diameter holding down RAG bolts with nut and washer fixed to reinforced concrere columns, length</u>				
K'	400 mm	412	NO.		
	<u>20 mm Diameter bolts with nut and washer fixed to rafters and apex haunches, length</u>				
L.	150 mm	412	NO.		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<u>20mm Diameter bolts with nut and washer fixed to rafters and knee haunches, length</u> 150 mm	798	NO.		
B	<u>16 mm Diameter bolts with nut and washer fixed to columns and beams</u> 150 mm	330	NO.		
C	<u>12 mm Diameter bolts with nut and washer fixed for purlin connection</u> - 150 mm	705	NO.		
D	<u>12 mm Diameter bolts with nut and washer at purlin rafters connection</u> - 150 mm	1876	NO.		
E	<u>2mm thick galvanised gutter overall girth.</u> - 762mm	193	LM		
F	<u>Roof covering in 28G galvanised iron sheets;</u> 150mm laps both sides ; and fixing to C purlins (m.s.) on steel trusses (m.s.) with zinc nails at 5000mmc/c all laid to fall	3270	SM		
G	Av. 300mm dia ridge sheet 24 G with stiffeners	174	LM		
	<u>RAINWATER DISPOSAL</u>				
H	<u>24g Galvanised mild steel sheeting; all welds ground smooth</u> 150 x 100mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at approved centers	174	LM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Extra; for 900 corners.	22	No		
B	Extra; 100mm dia.outlet 100mm long 22 No	22	No		
C	100mm dia. rainwater downpipe fixed with and including mild steel straps at 900mm centres, plugged and screwed to wall	132	LM		
D	Extra; swanneck bend with 1135mm projection 2	22	NO.		
E	Extra; horse shoe bend 22 No	22	No.		
	<u>Painting and Decorations</u>				
	<u>On Metal work</u>				
H	General surfaces; over 300mm girth external 228 SM	228	Sm.		
I	Small pipes	132	Lm.		
	Carried to Collection				
	COLLECTION				
	From page 4/18				
	From page 4/19				
	From page 4/20				
	From above				
	TOTAL FOR STRUCTURAL STEELWORK CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u> <u>PAGE</u>				
	<u>ELEMENT NO. TITLE</u>				
	SUBSTRUCTURE (ALL PROVISIONAL)				
	R.C FRAME				
	WALLING				
	DOORS				
	WINDOWS				
	FINISHES				
	FITTINGS				
	BALUSTRADING & RAILINGS				
	STRUCTURAL STEELWORK & ROOFING				
	TOTAL BUILDER'S WORK FOR WAREHOUSES				

VALUE ADD. WAREHSE.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>VALUE ADDITION WAREHOUSE</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site Clearance</u>				
A.	Clear site of all shrubs, bushes and small trees and grub up roots, cart away to spoil heaps away from site	3117	SM		
	<u>Bulk Excavation</u>				
B.	Bulk soil excavation to levels not exceeding 1.50m deep starting from ground level	3642	CM		
C.	Excavate for strip footings depth not exceeding 1.5m from black cotton excavation level	0	CM		
D.	Excavate for column and column bases depth not exceeding 1.5m from black cotton excavation level	5850	CM		
E.	Extra over excavation in rock	15	CM		
F.	Remove and cart away surplus excavated materials.	9492	CM		
	<u>Diposal of water</u>				
G.	Keeping all excavations free from all water including spring or running water		Item		
	<u>Planking and strutting</u>				
H.	Uphold the sides of all excavations		Item		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Selected imported material</u>				
A	Filling in making up levels around foundation, spread levelled, well rammed and consolidated in 150mm layers.	1998	CM		
	<u>Soil Stabilization with Lime</u>				
B	Provide 150mm thick lime mixed with murrum for stabilization	3117	SM		
	<u>Hardcore filling</u>				
C	Hardcore fillings in making up levels: levelled and compacted in 150 mm layers	3958	CM		
D	50mm (average) thick quarry dust blinding to surfaces of hardcore	3117	SM		
	<u>Antitermite treatment</u>				
E	Premise 200 CC' or other equal and approved antitermite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and Foundation walls	3117	SM		
	<u>50mm thick mass concrete class Q(1:3:6) in:-</u>				
F	Column bases	440	SM		
G	Strip foundation	408	SM		
	<u>Reinforced concrete; class 25/(20mm) mix (1:1.5:3); vibrated</u>				
H	Column bases	200	CM		
I	Intermediate beams	74	CM		
J	Foundation columns	38	CM		
K	Ground Beam	37	CM		
L	200mm thick ground slab	3117	SM		
M	200mm thick Ramp	164	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Reinforcement</u> <u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
A.	Assorted dimeters	70234	KG		
	<u>Sawn formwork to insitu concrete as described to :-</u>				
B	Sides; vertical or battering of foundation columns	328	SM		
C	Sides; vertical or battering of columns bases	400	SM		
D	Sides; vertical or battering of strip	272	SM		
E	Sides; vertical or battering of ground beam	272	SM		
F	Edges of ground floor slab; 150 to 225 mm wide	411	LM		
	<u>Insitu Finishings</u>				
G	14mm thick 2No. coatwork cement sand(1:3) render; wood floated to concrete or blockwork base to walls; external	311	SM		
	<u>Painting and Decorations</u> <u>Prepare and apply three coats bituminous paint to:</u>				
H.	Wood floated rendered plinths over 300mm girth	311	SM		
	<u>Masonry</u> <u>200mm thick approved natural stone; local; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar including reinforcing with hoop iron ties every alternate course.</u>				
I.	200mm thick walling	900	SM		
	Louver Blocks				
J.	Supply and install louve blocks as per architect approval	242	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	BRC Fabric mesh reinforcement Ref. A193 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed	3117	SM		
B.	<u>Expansion joint filler</u> Flexcell expansion joint filler 50x150mm deep	286	LM		
C.	<u>Expansion joint</u> 50x25 mm approved mastic expansion joint sealer	286	LM		
Carried to collection page					
	Page 4/1 Page 4/2 Page 4/3 Page above				
Total for substructures to Summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u>				
	<u>REINFORCED CONCRETE FRAMING AND STEEL WORKS</u>				
	<u>Reinforced concrete; class 25/(20mm) mix (1:1.5:3);</u>				
A.	150mm suspended slabs	660	SM		
B.	Beams	64	CM		
C.	Columns	7	CM		
D.	Stairs	9	CM		
E	<u>Reinforcement</u>				
F.	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
	Assorted ribbed bars 26,314 KG	28869	KG		
	<u>Sawn formwork to insitu concrete as described to :-</u>				
F	Soffits of suspended slab	500	SM		
G	To sides and soffits of beams.	1168	SM		
H	Vertical sides of columns	33	LM		
I	<u>Edges of slab</u>				
	150 to 225mm high	200	LM		
J	Slopping soffits of stairs	43	SM		
	<u>Risers</u>				
J.	150 to 225mm high	96	LM		
K.	<u>Edges of stairs</u>				
	150 to 225mm high	48	LM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>Supply, deliver to site and erect mild steel frame steelwork to BS 449 with and including welds and bolting connections. Rates to include for all materials,labour ,stiffeners,welding or bolts , wastage and cutting,drilling all gusset plates fastenings and connections and all other items necessary for satisfactory incorporation into works including wire brushing surfaces free from rust,steel to be painted with one coat an epoxy primer containing zinc chromate followed by two coats of masterseal SP 120 before fabrication and one other coat after fabrication</p> <p>All structural steelworks in roofing shall be in accordance with ASTM A500 KS02-104 Grade 250,all welding in accordance with BS5135 and bolts and nuts,grade 4.6 to BS4360.All steelwork shall be primed withn red oxide before delivery to site.</p> <p><u>Columns and posts , size</u></p> <p>A. 356 x 171 x 57kg/m UB 46,683 KG</p> <p><u>Beams , size</u></p> <p>C. 203 x 133 x 25kg/m UB</p>	41230	KG		
	Carried to collection				
	<p>Brought forward from page 4/5</p> <p>Brought down from above</p>				
	Total for Rc frame carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>WALLING</u>				
A.	200mm dpc	384	LM		
B	150 ditto	223	LM		
C	200 x 200 lintel	38	CM		
D	200mm ext wall	1850	SM		
F	200mm internal wall	1899	SM		
G	100mm thick internal wall	68	SM		
	Walling Carried to summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Three Lever Mortice Lock (Assa Abbloy)	60	NO.		
B	Stainless Steel Hinges	60	PRS		
C	Indicator engaged /Vacant Bolts	44	NO.		
D	Rubber Door stop	60	NO.		
E	Al Primer 100-200mm	348	LM		
	<u>Polyurethane Primer:</u>				
F	General Timber Surfaces over 300mm	328	SM		
G	Frame 200-300mm	479	LM		
H	Not exceeding 100mm	958	LM		
I	Gloss oil general steel surfces	258	SM		
	Carried to collection				
	<u>COLLECTION</u>				
	From page 3/8				
	From page 3/9				
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Window cill	361	LM		
	MILD STEEL CASEMENT WINDOWS				
B.	5000 X 1500MM High	30	No		
B.	4500 X 1500MM High	12	No		
C.	4500 X 900MM High	6	No		
D.	2400 X 1500MM High	2	No		
E.	2100 X 900MM High	6	No		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Glazing 4mm Gloss oil paint	356	SM		
	B	356	SM		
	D	356	SM		
CARRIED TO COLLECTION					
<u>COLLECTION</u> From page 3/10 From page 3/11					
TOTAL FOR WINDOWS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FINISHES</u>				
	KEY AND POINTING				
A	walls ,beams & columns	1850	SM		
	<u>PLASTER 18MM THICK;</u>				
B	Beams ext.	165	SM		
C	walling internal	3888	SM		
D	Ditto External	2880	SM		
	<u>300 X 300MM CERAMIC TILES</u>				
E	6MM thick tiles to internal walls	670	SM		
F	plastice edging	320	LM		
G	Backing & Beds	670	SM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting & Decoration</u>				
A.	Walls, external beams	4053	SM		
B.	walls internal	3888	SM		
C.	400 x 400mm non-slip ceramic tiles	660	SM		
	<u>Backings:</u>				
D.	40mm backings	660	SM		
E.	Skirtings	922	LM		
	<u>Terrazzo</u>				
F	32mm Thick screed finished to receive terrazzo flooring (m.s) in lobbies and corridors	2350	SM		
G	20 mm Thick polished terrazzo flooring:laid on screeded surfaces (m.s) not exceeding 15 degrees fall : including floor dividing strips and non-slip grips/carborundum inserts where necessary; to	2350	SM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Ceiling finishes				
B	Slab soffits 18mmthick	660	SM		
C	emulsion paint on ceiling	660	SM		
D.	Hunter douglas suspended aluminium ceiling comprising V- carries , panels suspension hangers, flush jointing and trsp doors in matt finish.	300	SM		
	Carried to Collection				
	From page 3/13				
	From page 3/14				
	From Above				
	TOTAL FOR FLOOR FINISHES CARRIED TO SUMMARY PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.9</u>				
	<u>FITTINGS</u>				
	<u>Vibrated reinforced concrete class 25</u>				
	<u>Worktops tops</u>				
A.	75mm thick	10	SM		
	<u>Plain concrete</u>				
	<u>Plinth, thickness</u>				
	<u>Soffits and sides: Work tops.</u>				
B	100 mm	10	SM		
	<u>Steel mesh fabric reinforcement to B.S 4483</u>				
	<u>Layer of mesh fabric reinforcement laid in slab or</u>				
C.	bed (measured nett - no allowance made for laps) Ref. A142 w	10	SM		
	<u>Formwork</u>				
D.	Soffits of worktops	10	SM		
	<u>Edges of worktop & plinths</u>				
E.	E - not exceeding 75 mm high	64	LM		
	<u>Lime plaster</u>				
F.	Plaster to soffits of worktop	10	SM		
	<u>Prepare and apply three coats matt emulsion paint</u>				
	<u>according to manufacturer's instructions on,</u>				
G.	Plastered soffits	10	SM		
	<u>Sundries</u>				
H.	Chase in walling for edge of slab, size 75 x 50 mm	32	LM		
	<u>Tile tops</u>				
I.	20 mm	10	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<u>Fascia, width and thickness</u> 100 x 20 mm <u>Joinery fittings</u> <u>Joinery fittings made of hardwood framing and good quality 18mm thick MDF as supplied by PG</u> <u>BYSON to form sides, divisions, shelving and doors.</u> <u>Fittings complete with all necessary ironmongery</u> <u>Low level kitchen cabinets, overall size</u>	32	LM		
B.	2300 x 800 x 1000mm	1	NO.		
Carried to collection					
<u>COLLECTION</u> From page 4/15 From above					
TOTAL FOR FITTINGS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<p><u>ELEMENT NO. 8</u></p> <p><u>BALUSTRADING & RAILINGS</u> Balustrading and railings comprising of mildsteel rhs handrail size 75x50mm fixed to 50x50mm balusters at 1000mm spacing, balusters bolted to concrete plinths or beds and 25mm mid-rails fixed to balusters at 200mm, overall height</p> <p>900mm</p>	162	LM		
	TOTAL FOR BALUSTRADING & RAILINGS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 10</u> <u>STRUCTURAL STEELWORK & ROOFING</u>				
	<p>Supply, deliver to site and erect mild steel frame steelwork to BS 449 with and including welds and bolting connections. Rates to include for all materials,labour ,stiffeners,welding or bolts , wastage and cutting,drilling all gusset plates fastenings and connections and all other items necessary for satisfactory incorporation into works including wire brushing surfaces free from rust,steel to be painted with one coat an epoxy primer containing zinc chromate followed by two coats of masterseal SP 120 before fabrication and one other coat after fabrication</p> <p>All structural steelworks in roofing shall be in accordance with ASTM A500 KS02-104 Grade 250,all welding in accordance with BS5135 and bolts and nuts,grade 4.6 to BS4360.All steelwork shall be primed withn red oxide before delivery to</p>				
	<u>Rafters, size</u>				
A	356 x 171 x 45kg/m UB	26213	KG		
	<u>Z PURLIN</u>				
B	150 x 50 x 2 x 4.7kg/m	9078	KG		
	<u>Braces, size</u>				
C	50 x 50 x 3 x 4.43kg/m SHS	3097	KG		
D	16mm diameter antisag rods	880	LM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Mild steel plates and bolts</u>				
	<u>Triangular apex haunch 5000mm long, size</u>				
A.	457 x 191 x 67.1kg/m UB	34	NO.		
	<u>Triangular knee haunch 5000mm long, size</u>				
B.	457 x 191 x 67.1kg/m UB	66	NO.		
	<u>Base Plate, size</u>				
C.	400x400x20mm plate bolted to reinforced concrete columns	47	NO.		
D.	170x850x15mm ms plate;bolted on rafters and apex haunches	34	NO.		
E.	170x850x15mm ms plate welded to columns; bolted to rafters	48	NO.		
F.	80x191x15mm ms stifenner plates welded to the flange and web of the column	42	NO.		
G.	252x160x15mm ms plate welded to columns	44	NO.		
H.	75x75x6 mm purlin connection ms plate	354	NO.		
I.	75x75x4mm ms plate at purlin rafters connection	468	NO.		
J.	220x60x3 mm ms fish plate at purlin rafters connection	468	NO.		
	<u>Bolts,nuts and washers</u>				
	<u>25 mm Diameter holding down RAG bolts with nut and washer fixed to reinforced concrere columns, length</u>				
K'	400 mm	412	NO.		
	<u>20 mm Diameter bolts with nut and washer fixed to rafters and apex haunches, length</u>				
L.	150 mm	412	NO.		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<u>20mm Diameter bolts with nut and washer fixed to rafters and knee haunches, length</u> 150 mm	798	NO.		
B	<u>16 mm Diameter bolts with nut and washer fixed to columns and beams</u> 150 mm	330	NO.		
C	<u>12 mm Diameter bolts with nut and washer fixed for purlin connection</u> - 150 mm	705	NO.		
D	<u>12 mm Diameter bolts with nut and washer at purlin rafters connection</u> - 150 mm	1876	NO.		
E	<u>2mm thick galvanised gutter overall girth.</u> - 762mm	193	LM		
F	<u>Roof covering in 28G galvanised iron sheets;</u> 150mm laps both sides ; and fixing to C purlins (m.s.) on steel trusses (m.s.) with zinc nails at 5000mmc/c all laid to fall	3270	SM		
G	Av. 300mm dia ridge sheet 24 G with stiffeners	174	LM		
	<u>RAINWATER DISPOSAL</u>				
H	<u>24g Galvanised mild steel sheeting; all welds ground smooth</u> 150 x 100mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at approved centers	174	LM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Extra; for 900 corners.	22	No		
B	Extra; 100mm dia.outlet 100mm long 22 No	22	No		
C	100mm dia. rainwater downpipe fixed with and including mild steel straps at 900mm centres, plugged and screwed to wall	132	LM		
D	Extra; swanneck bend with 1135mm projection 2	22	NO.		
E	Extra; horse shoe bend 22 No	22	No.		
<u>Painting and Decorations</u>					
<u>On Metal work</u>					
H	General surfaces; over 300mm girth external 228 SM	228	Sm.		
I	Small pipes	132	Lm.		
Carried to Collection					
COLLECTION					
From page 4/18					
From page 4/19					
From page 4/20					
From above					
TOTAL FOR STRUCTURAL STEELWORK CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u> <u>PAGE</u>				
	<u>ELEMENT NO. TITLE</u>				
	SUBSTRUCTURE (ALL PROVISIONAL)				
	R.C FRAME				
	WALLING				
	DOORS				
	WINDOWS				
	FINISHES				
	FITTINGS				
	BALUSTRADING & RAILINGS				
	STRUCTURAL STEELWORK & ROOFING				
	TOTAL BUILDER'S WORK FOR WAREHOUSES				

BOUNDARY WALL.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BOUNDARY WALL(ALL PROVISIONAL)</u>				
	<u>SUBSTRUCTURES</u>				
	<u>Site preparation</u>				
A.	Clear site of all bushes, shrubs, grab up roots and either cart away from site or burn all arising	1620	SM		
	<u>Excavation and Earthworks</u>				
B.	Excavate trenches for strip foundation not exceeding 1.5 metres from reduced level	486	CM		
C.	Ditto for column bases	448	CM		
D.	Extra over excavation in hard rock	234	CM		
	<u>Filling and Carting away</u>				
E.	Return, fill and ram with selected and approved excavated material around excavations	560	CM		
F.	Load and cart away excavated materials from site	374	CM		
	<u>Planking and strutting</u>				
G.	Planking and strutting to sides of all excavations keep excavations free from all fallen materials		ITEM		
	<u>Disposal of water</u>				
H.	Keep excavations free from all water including spring or running water		ITEM		
	Totals boundary wall carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>50mm thick plain concrete blinding (mix1:4:8)</u> <u>grade 15/20 aggregate under:-</u>				
A.	Foundation strips	262	SM		
B.	Column Bases	448	SM		
	<u>In situ reinforced concrete (mix1:1.5:3) class</u> <u>25/20)Vibrated in</u>				
C.	Foundation strip	52	CM		
D.	Column Bases	134	CM.		
E.	Ground Beams	49	CM		
F.	Substructure Columns	15	CM		
G.	Columns above ground	41	CM		
H.	Ring beam	49	CM		
I.	Hot rolled ribbed bars reinforcement to K.S ISO 6935-2				
J.	8mm dia	5043	Kg		
K.	12mm dia	27934	Kg		
	<u>Sawn formwork:to</u>				
L.	Vertical sides of foundation bases	240	SM		
M.	Vertical sides of columns	249	SM		
N.	Vertical sides of column bases	448	SM		
O.	Vertical sides of ground beams	486	SM		
P.	Sides and soffits of ring beams	648	SM		
Q.	Sides of columns above ground	684	SM		
	Totals boundary wall carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Natural stone walling in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.</u>				
A.	200mm Thick walling below ground	437	SM.		
B	200mm Thick walling above ground	961	SM.		
	<u>Precast concrete trimming finished fair on all exposed faces</u>				
C	Coping, size 350 x 100 mm	437	LM.		
D	550 x 550mm Coping to columns	309	NO.		
E	Pier caps, size E - 550 x 550 x 75 mm	2	NO.		
F	Extra over horizontal and vertical pointing in 10mm thick rod in cement and sand (1:3) mortar; one coat of bituminous paint.	1922	SM		
	<u>Render; 15mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -</u>				
G	Columns	684	SM		
	<u>Painting and Decoration</u> <u>plastic emulsion paint with stone texture effect to:</u>				
H	Columns	684	SM		
	<u>mild steel Gates</u>				
I	5000x3000mm mild steel Gates	2	NO		
J	Allow a provisional sum of Kshs 1,000,000.00 for guard house		Item		
	Totals boundary wall carried to collection				
	<u>COLLECTION</u> Brought forward from Page BW/1 Brought forward from page BW/2 Brought forward from above				
	TOTAL FOR BOUNDARY WALL CARRIED TO SUMMARY				

OFFICE BLOCK .

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><u>OFFICE BLOCK</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURES</u> <u>(All provisional)</u> <u>Site Preparation</u></p>				
A.	Clear site of all bushes, shrubs and grub up roots and remove from site	120	SM		
	<u>Excavations & Earthworks</u>				
B	Bulk excavation for black cotton soil to reduced levels depth not exceeding 1.5 M from the ground level	120	CM		
C	Excavation for strip foundation commencing at reduced bulk excavation levels depth not exceeding 1.5M deep	14	CM		
D	Excavation for bases commencing at reduced bulk excavation levels depth not exceeding 1.5M deep	5	CM		
E	Extra over all descriptions of excavations and removal from site for excavating in rock	6	CM		
	<u>Disposal of excavated material</u>				
F	Fillings aroundfdn: backfill and compact in 150 mm layers: selected excavated materials	11	CM		
G	Remove surplus spoil from site to an authorized dumping site	128	CM		
	<u>Planking and strutting</u>				
H	Planking and strutting to sides of all excavations: keep excavations free from all falling materials		ITEM		
	<u>Disposal of Water</u>				
I	Keep excavations free from all water including spring, underground and running water.		ITEM		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<u>Hardcore Filling</u> 300mm thick fillings in making up levels: levelled and compacted in 150 mm layers	120	SM		
B.	<u>Murram</u> 50mm Thick murram blinding to surfaces of hardcore	120	SM		
C.	<u>Selected imported material</u> Filling in making up levels under floors, spread levelled, well rammed and consolidated in 150mm layers	120	CM		
D.	<u>Insecticide treatment</u> 'Premise 200CC" insecticide treatment on top of hardcore filling and over foundation walls applied as per manufacturer's instruction with a 10 year guarantee To murram surface	120	SM		
E.	<u>Concrete Work</u> <u>In situ concrete mix (1:4:8): in</u> 50 mm thick blinding under foundations and bases	72	SM		
F.	<u>In situ reinforced concrete: CLASS 25 vibrated in:-</u> Strip footing	11	CM		
G.	Bases	5	CM		
H.	Ground beams	5	CM		
I.	Columns	1	CM		
J.	Floor bed 150 mm thick	120	SM		
K.	<u>Reinforcement (Provisional)</u> <u>Supply and fix steel bar reinforcement including bending, hooking, tying wire, cutting, spacers and supporting all in position</u> <u>High tension square twisted mild steel bars reinforcement to BS 4449 in structural concrete work (Provisional)</u> Assorted bars	2216	KG		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	BRC Fabric mesh reinforcement Ref. A193 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed	120	SM		
	<u>Marine board formwork: to</u>				
B	Edges: slab not exceeding 150 mm girth	52	LM		
C	Sides of foundation	36	SM		
D	Sides and soffits of ground beams	73	SM		
E	Sides of columns	24	SM		
	<u>Damp proof membrane</u>				
F	1000 gauge polythene laid under surface beds	120	SM		
	<u>Walling</u>				
	<u>Natural stone walling in cement and sand (1:3) mortar</u>				
	<u>and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.</u>				
G	200mm Thick walling	91	SM		
	<u>In situ Finishings</u>				
H.	14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls;	16	SM		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats bituminous paint to:</u>				
I.	Wood floated rendered plinths over 300mm girth	16	SM		
	CARRIED TO COLLECTION				
	SUBSTRUCTURES				
	Brought Forward From Page TS/1				
	Brought Forward From Page TS/2				
	Brought Forward From Page TS /3				
	TOTAL SUBSTRUCTURE CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.2</u>				
	<u>REINFORCED CONCRETE SUPERSTRUCTURES</u>				
	<u>In situ reinforced concrete: grade 25 : vibrated in:-</u>				
A	Beams	5	CM		
B	Columns	5	CM		
	<u>Reinforcement (Provisional)</u>				
	<u>Supply and fix steel bar reinforcement including bending, hooking, tying wire, cutting, spacers and supporting all in position</u>				
	<u>High tension square twisted mild steel bars reinforcement to BS 4449 in structural concrete work (Provisional)</u>				
C.	Assorted bars 730 KG	730	Kg		
	<u>Sawn timber formwork: to</u>				
D.	Sides and soffits of beams 73 SM	73	SM		
E.	Sides of columns	64	SM		
	TOTAL REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u> <u>EXTERNAL WALLING</u>				
	<u>Precast concrete grade 20(12mm aggregate) including formwork, finishing fair on all exposed surfaces and</u> <u>hoisting and placing in position, bedding, jointing and pointing in cement and sand (1:3) mortar</u>				
A.	200 x 200 mm Lintel reinforced with and including two 12mm diameter mild steel rods hooked at ends (in 5 No.)	6	LM		
	<u>EXTERNAL WALLING</u>				
	<u>Approved local stone of the approved colour; squared ;</u> <u>hand dressed one side to Zero joint; bedding, jointing in cement and sand mortar (1:4);including reinforcing with hoop iron in every alternative course</u>				
B.	Walls 200 mm thick	126	SM		
C	Ditto gable ends	16	SM		
	<u>Damp Proof Course</u>				
	<u>Damp proof course : bituminous felt : bedded in cement and sand mortar (1:3) : 300 mm laps (measured net-no allowance for laps)</u>				
D	Horizontal: 200 mm wide	52	LM		
E	200 mm eaves filling, 200mm high including dressing between rafters	35	LM		
	TOTAL EXTERNAL WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4</u> <u>INTERNAL WALLING</u>				
	<u>Approved local stone; squared ; machine dressed one side; bedding, jointing in cement and sand mortar (1:4);including reinforcing with hoop iron in every alternative course</u>				
A.	Walls 200 mm thick	123	SM		
	<u>Damp Proof Course</u>				
	<u>Damp proof course : bituminous felt : bedded in cement and sand mortar (1:3) : 300 mm laps (measured net-no allowance for laps)</u>				
B	Horizontal: 200 mm wide	41	LM		
C.	Walls 100 mm thick	15	LM		
	TOTAL INTERNAL WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSAL</u>				
	<u>Stone coated steel roofing sheets; 28 gauge</u>				
A.	Roof covering; 150mm laps on one end and one and a half corrugation side lap; and nailing to 75 x 50mm celcured sawn cypress purlins (m/s) to receive roofing sheets (m/s)	191	SM		
	<u>Truss Type 1</u>				
	<u>The following 9 No. timber trusses spanning at 9m and placed 2000c/c and 3m from ground level</u>				
B.	100x50 mm rafters	79	LM		
C	150x50 mm kingpost	14	LM		
D	100x50 mm struts & ties	50	LM		
E	150x50mm tie beam	75	LM		
	<u>End of trusses</u>				
F	75 X 50mm purlins	172	LM		
G.	100x50mm wall plate	48	LM		
	<u>Wrot cypress as described</u>				
H.	250 X 25mm fascia board & Burge board	56	LM		
I.	100 x 20mm T&G in eaves boarding 5	50	SM		
	<u>RAINWATER DISPOSAL</u>				
	<u>24g Galvanised mild steel sheeting; all welds ground smooth</u>				
J.	150 x 100mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at approved centers	34	LM		
K.	Extra; for 900 corners.	4	No.		
L.	Extra; 100mm dia.outlet 100mm long	4	No.		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	100mm dia. rainwater downpipe fixed with and including mild steel straps at 900mm centres, plugged and screwed	14	LM		
B	Extra; swanneck bend with 1135mm projection 4 No.	4	NO		
C	Extra; horse shoe bend	4	NO		
	<u>Painting and Decorations</u> <u>On Woodwork</u>				
	<u>Prepare and apply one zinc plumbate primer and three coats of premium quality super gloss oil paint to:-</u>				
D.	Fascias; 200 to 300mm girth; external	56	LM		
E.	Gutters	14	SM		
F.	Down pipes: 100mm diameter 1	14	LM		
	<u>Tongue & Grooved timber surfaces</u> <u>Prepare and apply three coats of premium quality polyurethane varnish to:-</u>				
G.	Surfaces of eaves; over 300mm girth external	50	SM		
	CARRIED TO COLLECTION				
	<u>COLLECTION</u> From page TS / 08 From page TS/ 09				
	TOTAL FOR ROOF CONSTRUCTION.				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>DOORS</u>				
	<u>50mm thick mahogany panelled door in , comprising 150 x 50mm top and bottom rails infilled with 50mm thick solid moulded timber panels with moulded beading</u>				
A	Single door overall size 900 x 2400mm	5	NO.		
	<u>45mm thick solid cored flush door,to BS 459:part 2,overall faced both sides with scratch proof laminate to approval with rounded and post-formed edges to approval</u>				
B	Single door overall size 800 x 2400mm	8	NO.		
	<u>Supply and Fix purpose made mild steel panel door : comprising of 50 x 50mm RHS frame fixed to wall jambs : 50 x 50mm RHS stile, bottom, mid and top rail : infilled with solid sheet panel on each face : compete with all necessary iron mongery ; apply primer and two coats 2 pack epoxy enamel paint; all to approval</u>				
C	Double door overall size 1800 x 2400mm	1	NO.		
	<u>Wrot Hardwood framed frames and framings</u>				
D	150 x 50 mm; 2 No. labours; plugged door frame	95	LM		
E	40 x 35 mm moulded architrave	95	LM		
F	25 x 25mm moulded quadrants	95	LM		
	<u>Iron mongery</u>				
	<u>Supply and fix the following to UNION catalogue or other equal and approved</u>				
	<i>To softwood, hardwood or the like fixing with screws</i>				
G	Three lever mortice lock complete with set lever aluminium handle furniture	14	NO.		
H	Indicator bolt	4	NO.		
I	100mm steel butt hinges	21	PRS		
	<i>To concrete or blockwork; fixing with bolts; plugging</i>				
J	Rubber door stop complete with 38 mm rawl bolt	14	NO.		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and Decorations</u> <u>On wood</u> <u>Aluminium primer or other equal and approved wood primer before fixing: -</u>				
A	Backs of frame, board, etc over 100mm but not exceeding 200mm girth	95	LM		
	<u>Knot, prime and stop; prepare and apply one undercoat and two coats of gloss oil paint</u>				
B	General surfaces of timber doors over 300mm girth;	65	SM		
C	Frames; over 100mm but not exceeding 200mm girth;	95	LM		
D	Frames not exceeding 100mm girth; internal	190	LM		
	CARRIED TO COLLECTION				
	<u>COLLECTION</u> From page TS / 11 From above				
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 7</u> <u>WINDOWS</u>				
	<u>Bull-nosed burnt clay, finishing fair on all exposed surfaces</u> <u>and hoisting and placing in position, bedding, jointing</u> <u>and pointing in pigmented cement and sand (1:3) mortar</u>				
A.	150 x 25mm thick clay window sill	35	LM		
	<u>Wrot Cypress</u>				
B.	150 x 25 mm thick window boards including bull-nosed edges and 25 x 25 mm bearer; plugged, counter sinking and flush pelleting.	35	LM		
C.	15 x 15mm quadrant bead	35	LM		
	<u>Curtain Tracks;</u>				
D.	Curtain holder comprising of 2No Wrought iron curtain rods; complete with metal runners; decorative end cap fittings : to approval	35	LM		
	<u>METAL WORK</u> <u>PURPOSE - MADE UNITS</u> <u>Supply, assemble and fix the following purpose made mild steel windows, comprising 40 x 20 x 3mm RHS frame all round : 2 No 20 x 50 x 3mm RHS horizontal rails;; 2 No 20 x 50 x 3mm RHS vertical rails; 20 x 20 x3 mm RHS vertical and horizontal frames at 100mm centres; including all necessary cutting and welding ; all joints ground smooth; one coat red lead primer ; three coats gloss oil paint finish To Architects detail</u>				
E.	Window, overall size 3800 x 1500 mm high	4	NO		
G.	Window, overall size 1800 x 900mm high	4	NO		
	<u>Glazing</u>				
H.	4mm Thick one way sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty	30	SM		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and Decorations</u>				
	<u>On Metal work</u>				
	<u>Prepare and apply three coats approved gloss oil paint to metal work</u>				
A	A General window surfaces	60	SM		
	<u>On wood</u>				
	<u>Aluminium primer or other equal and approved wood primer before fixing: -</u>				
B	Backs of board, over 200mm but not exceeding 300mm girth	35	LM		
	<u>Prepare and apply three coats polyurethane clear varnish on woodwork internally</u>				
C	Frames; 200 to 300mm girth	35	LM		
CARRIED TO COLLECTION					
	<u>COLLECTION</u>				
	From page TS / 11				
	From above				
	TOTAL FOR WINDOWS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 8</u> <u>FINISHES</u>				
	<u>Wall finishes</u> <u>Insitu finishes</u>				
A	12mm deep horizontal keying on natural stone wall surfaces.	142	SM		
	<u>Plaster; 18mm thick, 2 No. coatwork, 15mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to concrete or blockwork base generally to: -</u>				
B	Walls, beams and columns; internal	254	SM		
	<u>Tile, Slab or Block Finishings</u>				
	<u>Approved ceramic tiles to B.S. 1281; local; white glazed</u>				
	<u>wall tiles to regular or approved other pattern; bedding</u>				
	<u>and jointing in cement sand (1:4) mortar, grouting with white cement</u>				
C	6mm thick; butt joints straight both ways; to cement sand base (m/s) to walls internal	77	SM		
D	Plastic edging (provisional)	14	LM		
	<u>Beds or Backings</u>				
	<u>Render; cement and sand (1:3)</u>				
E	14mm thick one coat backings; wood floated to receive ceramic tiles (m/s) to concrete or blockwork base; to Walls internal	77	SM		
	<u>Prepare and apply three coats of premium quality silk vinyl paint to:-</u>				
F	To walls and gypsum surfaces ; internal	254	SM		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><u>Floor finishes</u></p> <p><u>Approved 400x400mm non slip ceramic tiles to B.S. 1281; local; white glazed floor tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement</u></p>				
A	6mm thick; butt joints straight both ways; to cement sand base (m/s) to floor	120	SM		
	<p><u>Beds or Backings</u></p> <p><u>Render; cement and sand (1:3)</u></p>				
B	34mm thick backings; wood floated to receive ceramic tiles (m/s) ; to floor	120	SM		
	<p><u>Ceiling finishes</u></p> <p><u>Chip board</u></p>				
C	12mm thick patterned chip-board ceiling board nailed to timber brandering (m/s); nails punched and puttied	120	SM		
	<p><u>Painting and Decorations</u></p> <p><u>Prepare and apply premium quality gloss oil paint to:</u></p>				
D	Chip-board ceiling boards	120	SM		
E	Moulded cornice not exceeding 100mm girth	52	LM		
	CARRIED TO COLLECTION				
	<p><u>COLLECTION</u></p> <p>From page TS / 15</p> <p>From above</p>				
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 9</u>				
	<u>FITTINGS</u>				
	<u>In situ reinforced concrete: grade 25 : vibrated in:-</u>				
	<u>Worktops tops</u>				
A	75mm thick	5	SM		
B	BRC Fabric mesh reinforcement Ref. A193 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed	5	SM		
	<u>Sawn timber formwork: to</u>				
C	C Soffits and sides: Work tops.	5	SM		
	<u>Polished terazzo to vanity tops to approved colour,</u>				
	<u>including plastic division strip, terazzo average thickness;</u>				
D	-40 mm	5	SM		
	<u>Render; 18mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -</u>				
E	Soffits of worktops	5	SM		
	<u>Painting & Decoration</u>				
	<u>Prepare and apply three coats of first grade plastic emulsion paint to:-</u>				
F	Soffits of worktops	5	SM		
	TOTAL FOR FITTINGS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	<u>ELEMENT NO.</u>				
1	SUBSTRUCTURE (ALL PROVISIONAL)	TS/ 3			
2	REINFORCED CONCRETE SUPERSTRUCTURE	TS/ 4			
3	EXTERNAL WALLING	TS/ 5			
4	INTERNAL WALLING	TS/ 6			
5	ROOF CONSTRUCTION.	TS/ 8			
6	DOORS	TS/ 10			
7	WINDOWS	TS/ 12			
8	FINISHES	TS/ 14			
9	FITTINGS	TS/ 15			
	TOTAL FOR OFFICE BLOCK CARRIED TO SUMMARY				

POWER HOUSE.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>POWER HOUSE</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site Clearance</u>				
A	Clear site of all shrubs, bushes and small trees and grub up roots, cart away to spoil heaps away from site	43	SM		
	<u>Oversite excavation</u>				
B	Excavate oversite to remove top soil average 200mm deep and keep on site for later re-use for landscaping	43	SM		
	<u>Excavation</u>				
C.	Bulk soil excavation to levels not exceeding 1.50m deep starting from ground level	43	CM		
D.	Excavation for column bases depth not exceeding 1.50m from reduced level	2	CM		
E	Ditto but for strip foundations	5	CM		
F	Extra over excavation in rock	2	CM		
	<u>Filling and Carting away</u>				
G	Return, fill and ram with selected and approved excavated material around excavations	4	CM		
H	Load and cart away excavated materials from site	50	CM		
	<u>Disposal of water</u>				
I	Keeping all excavations free from all water including spring or running water		ITEM		
J	BRC Fabric mesh reinforcement Ref. A193 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed	43	SM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Planking and strutting</u>				
A	Uphold the sides of all excavations		ITEM		
B	Imported murrum bacfill beneath hardcore, watered and machine - compacted in layers not exceeding 100mm	43	SM		
	<u>Antitermite treatment</u>				
C	C Premise 200 CC' or other equal and approved anti-termite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls	43	SM		
	<u>50mm thick mass concrete class Q(1:3:6) in:-</u>				
D	50mm Thick blinding to strip foundation	18	SM		
E	50mm Thick blinding to column bases	6	SM		
	<u>Reinforced concrete; class 25/(20mm) mix (1:1.5:3); vibrated</u>				
F	Strip footing	4	CM		
G	Column bases	2	CM		
H	Foundation columns	1	CM		
I	Ground beams	1	CM		
J	150mm thick ground slab	43	SM		
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
K	Assorted bars	772	KG		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Sawn formwork to insitu concrete as described to :-</u>				
A	Sides of strip footing	12	SM		
B	Sides of column bases	10	SM		
C	Sides; vertical or battering of foundation columns	8	SM		
D	Sides and soffits of ground beams	12	SM		
E	Edges of ground floor slab; 225 to 300mm wide	30	LM		
	<u>Natural stone walling in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.</u>				
F	200mm Thick walling	30	SM		
	<u>Insitu Finishings</u>				
G	14mm thick 2No. coatwork cement sand(1:3) render; wood floated to concrete or blockwork base to walls; external	9	SM		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats bituminous paint to:</u>				
H	Wood floated rendered plinths over 300mm girth	9	SM		
	<u>Carried to Collection</u>				
	<u>COLLECTION</u>				
	From page gen/1 From page gen/2 From page above				
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2				
	REINFORCED CONCRETE FRAMING				
	Reinforced concrete; class 25/(20mm) mix (1:1.5:3); vibrated				
A	Beams	1	CM		
B	Columns	1	CM		
	Reinforcement				
	Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks				
C.	Assorted bars	228	KG		
	Sawn formwork to insitu concrete as described to :-				
D	To sides and soffits of beams.	24	SM		
E	Vertical sides of columns	22	SM		
	TOTAL FOR RC FRAME CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<u>Hessian based bituminous felt damp proof course laid on cement and sand (1:4) mortar under:-</u>				
A	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (make allowance for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	31	LM		
	<u>EXTERNAL WALLING</u>				
	<u>Approved local stone of the approved colour; squared ; hand dressed one side to Zero joint; bedding, jointing in cement and sand mortar (1:4);including reinforcing with hoop iron in every alternative course</u>				
B	Walls 200 mm thick	84	SM		
C	Metal grilled louvres	9	SM		
D.	Extra over horizontal and vertical pointing in 10mm thick rod in cement and sand (1:3) mortar; one coat of bituminous paint.	84	SM		
E	Trench				
	TOTAL FOR WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<p><u>ELEMENT NO. 4</u></p> <p><u>DOORS</u></p> <p>40mm thick galvanised steel double door, complete with steel framing, with and including louvred vents and all necessary iron mongery to Architects details Door overall size 2000 x 2700mm</p>	1	NO		
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>FINISHES</u>				
	<u>Wall finishes</u>				
	<u>In situ finishes</u>				
	<u>Plaster; 18mm thick, 2 No. coatwork, 15mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to concrete or blockwork base</u>				
A	Walls, beams and columns; internal	84	SM		
	<u>Prepare and apply three coats of premium quality silk vinyl emulsion paint as approved to:-</u>				
B	Walls; internal	84	SM		
	<u>Floor finishes</u>				
	<u>Cement and sand screed mix (1:3)</u>				
C	40mm thick to floors steel trowelled smooth	39	SM		
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 6 <u>ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSAL</u>				
	<u>Galvanized steel IT5 box profile sheets; 28 gauge;prepainted</u>				
A	Roof covering; 150mm laps on one end and one and a half corrugation side lap; and nailing to 75 x 50mm celcured sawn cypress purlins (m/s) to receive interlocking tiles (m/s)	50	SM		
	<u>Truss Type 1</u>				
	<u>The following 8 No. timber trusses spanning at 6.4m and placed 2000mm/c and 3400mm from ground level</u>				
B	100x50 mm rafters	48	LM		
C	100x50 mm hip rafters	12	LM		
D	150x50 mm kingpost	16	LM		
E	100x50 mm collar piece	11	LM		
F	100x50 mm struts & ties	128	LM		
G	150x50mm tie beam	16	LM		
	<u>End of trusses</u>				
H	75X50mm purlins	53	LM		
I	100x50mm wall plate	18	LM		
	<u>Wrot cypress as described</u>				
J	250X25mm fascia board	18	LM		
K	100x20mm T&G in eaves boarding	18	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and Decorations</u> <u>On Woodwork</u> <u>Prepare and apply one zinc plumbate primer and three coats of approved premium quality super gloss oil paint to:-</u>				
A.	Fascias; 200 to 300mm girth; external <u>Tongue & Grooved timber surfaces</u> <u>Prepare and apply three coats of premium quality polyurethane varnish to:-</u>	18	LM		
B.	Surfaces of eaves; over 300mm girth external	18	SM		
	Carried to collection				
	<u>COLLECTION</u> From page gen/8 From above				
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY PAGE</u>				
	<u>ELEMENT NO. TITLE</u>				
1	SUBSTRUCTURE (ALL PROVISIONAL)	gen/3			
2	R.C FRAME	gen/4			
3	WALLING	gen/5			
4	DOORS	gen/6			
5	FINISHES	gen/7			
6	ROOF	gen/8			
	TOTAL FOR POWER HOUSE BUILDER'S WORK				

Pump House.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PUMP HOUSE</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site Clearance</u>				
A	Clear site of all shrubs, bushes and small trees and grub up roots, cart away to spoil heaps away from site	25	SM		
	<u>Oversite excavation</u>				
B	Excavate oversite to remove top soil average 200mm deep and keep on site for later re-use for landscaping	25	SM		
	<u>Excavation</u>				
C.	Bulk soil excavation to levels not exceeding 1.50m deep starting from ground level	25	CM		
D.	Excavation for column bases depth not exceeding 1.50m from reduced level	2	CM		
E	Ditto but for strip foundations	3	CM		
F	Extra over excavation in rock	2	CM		
	<u>Filling and Carting away</u>				
G	Return, fill and ram with selected and approved excavated material around excavations	3	CM		
H	Load and cart away excavated materials from site	30	CM		
	<u>Disposal of water</u>				
I	Keeping all excavations free from all water including spring or running water		ITEM		
J	BRC Fabric mesh reinforcement Ref. A193 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed	25	SM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Planking and strutting</u>				
A	Uphold the sides of all excavations		ITEM		
B	Imported murrum bacfill beneath hardcore, watered and machine - compacted in layers not exceeding 100mm	25	SM		
	<u>Antitermite treatment</u>				
C	C Premise 200 CC' or other equal and approved anti-termite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls	25	SM		
	<u>50mm thick mass concrete class Q(1:3:6) in:-</u>				
D	50mm Thick blinding to strip foundation	12	SM		
E	50mm Thick blinding to column bases	5	SM		
	<u>Reinforced concrete; class 25/(20mm) mix (1:1.5:3); vibrated</u>				
F	Strip footing	2	CM		
G	Column bases	2	CM		
H	Foundation columns	1	CM		
I	Ground beams	1	CM		
J	150mm thick ground slab	25	SM		
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
K	Assorted bars	574	KG		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Sawn formwork to insitu concrete as described to :-</u>				
A	Sides of strip footing	8	SM		
B	Sides of column bases	8	SM		
C	Sides; vertical or battering of foundation columns	6	SM		
D	Sides and soffits of ground beams	8	SM		
E	Edges of ground floor slab; 225 to 300mm wide	20	LM		
	<u>Natural stone walling in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.</u>				
F	200mm Thick walling	20	SM		
	<u>Insitu Finishings</u>				
G	14mm thick 2No. coatwork cement sand(1:3) render; wood floated to concrete or blockwork base to walls; external	6	SM		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats bituminous paint to:</u>				
H	Wood floated rendered plinths over 300mm girth	6	SM		
	Carried to Collection				
	<u>COLLECTION</u>				
	From page gen/1				
	From page gen/2				
	From page above				
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2				
	REINFORCED CONCRETE FRAMING				
	Reinforced concrete; class 25/(20mm) mix (1:1.5:3); vibrated				
A	Beams	1	CM		
B	Columns	1	CM		
	Reinforcement				
	Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks				
C.	Assorted bars	166	KG		
	Sawn formwork to insitu concrete as described to :-				
D	To sides and soffits of beams.	16	SM		
E	Vertical sides of columns	17	SM		
	TOTAL FOR RC FRAME CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<u>Hessian based bituminous felt damp proof course laid on cement and sand (1:4) mortar under:-</u>				
A	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (make allowance for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	20	LM		
	<u>EXTERNAL WALLING</u>				
	<u>Approved local stone of the approved colour; squared ;</u>				
	<u>hand dressed one side to Zero joint; bedding, jointing in</u>				
	<u>cement and sand mortar (1:4);including reinforcing with hoop iron in every alternative course</u>				
B	Walls 200 mm thick	54	SM		
C	Metal grilled louvres	16	SM		
D.	Extra over horizontal and vertical pointing in 10mm thick rod in cement and sand (1:3) mortar; one coat of bituminous paint.	54	SM		
E	Trench				
	TOTAL FOR WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	<p><u>ELEMENT NO. 4</u></p> <p><u>DOORS</u></p> <p><u>40mm thick galvanised steel double door, complete with steel framing, with and including louvred vents and all necessary iron mongery to Architects details</u></p> <p>Door overall size 2000 x 2700mm</p>	1	NO		
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>FINISHES</u>				
	<u>Wall finishes</u>				
	<u>Insitu finishes</u>				
	<u>Plaster; 18mm thick, 2 No. coatwork, 15mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to concrete or blockwork base</u>				
A	Walls, beams and columns; internal	54	SM		
	<u>Prepare and apply three coats of premium quality silk vinyl emulsion paint as approved to:-</u>				
B	Walls; internal	54	SM		
	<u>Floor finishes</u>				
	<u>Cement and sand screed mix (1:3)</u>				
C	40mm thick to floors steel trowelled smooth	25	SM		
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSAL</u>				
	<u>Galvanized steel IT5 box profile sheets; 28 gauge; prepainted</u>				
A	Roof covering; 150mm laps on one end and one and a half corrugation side lap; and nailing to 75 x 50mm celcured sawn cypress purlins (m/s) to receive interlocking tiles (m/s)	35	SM		
	<u>Truss Type 1</u>				
	<u>The following 8 No. timber trusses spanning at 6.4m and placed 2000mm/c and 3400mm from ground level</u>				
B	100x50 mm rafters	35	LM		
C	100x50 mm hip rafters	12	LM		
D	150x50 mm kingpost	14	LM		
E	100x50 mm collar piece	11	LM		
F	100x50 mm struts & ties	112	LM		
G	150x50mm tie beam	14	LM		
	<u>End of trusses</u>				
H	75X50mm purlins	24	LM		
I	100x50mm wall plate	12	LM		
	<u>Wrot cypress as described</u>				
J	250X25mm fascia board	12	LM		
K	100x20mm T&G in eaves boarding	12	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and Decorations</u> <u>On Woodwork</u> <u>Prepare and apply one zinc plumbate primer and three</u> <u>coats of approved premium quality super gloss oil paint</u> <u>to:-</u>				
A.	Fascias; 200 to 300mm girth; external <u>Tongue & Grooved timber surfaces</u> <u>Prepare and apply three coats of premium quality</u> <u>polyurethane varnish to:-</u>	12	LM		
B.	Surfaces of eaves; over 300mm girth external	12	SM		
	Carried to collection				
	<u>COLLECTION</u> From page gen/8 From above				
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY PAGE</u>				
	<u>ELEMENT NO. TITLE</u>				
1	SUBSTRUCTURE (ALL PROVISIONAL)	gen/3			
2	R.C FRAME	gen/4			
3	WALLING	gen/5			
4	DOORS	gen/6			
5	FINISHES	gen/7			
6	ROOF	gen/9			
TOTAL FOR PUMP HOUSE BUILDER'S WORK					

Pump House.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ABLUTION BLOCK</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURES</u> <u>(All provisional)</u> <u>Site Preparation</u>				
A.	Clear site of all bushes, shrubs and grub up roots and remove from site	103	SM		
	<u>Excavations & Earthworks</u>				
B	Bulk excavation for black cotton soil to reduced levels depth not exceeding 1.5 M from the ground level	103	CM		
C	Excavation for strip foundation commencing at reduced bulk excavation levels depth not exceeding 1.5M deep	10	CM		
D	Excavation for bases commencing at reduced bulk excavation levels depth not exceeding 1.5M deep	5	CM		
E	Extra over all descriptions of excavations and removal from site for excavating in rock	4	CM		
	<u>Disposal of excavated material</u>				
F	Fillings aroundfdn: backfill and compact in 150 mm layers: selected excavated materials	9	CM		
G	Remove surplus spoil from site to an authorized dumping site	109	CM		
	<u>Planking and strutting</u>				
H	Planking and strutting to sides of all excavations: keep excavations free from all falling materials		ITEM		
	<u>Disposal of Water</u>				
I	Keep excavations free from all water including spring, underground and running water.		ITEM		
	CARRIED TO COLLECTION				

	<u>Hardcore Filling</u>			
A.	300mm thick fillings in making up levels: levelled and compacted in 150 mm layers	103	SM	
	<u>Murram</u>			
B.	50mm Thick murram blinding to surfaces of hardcore	103	SM	
	<u>Selected imported material</u>			
C.	Filling in making up levels under floors, spread levelled, well rammed and consolidated in 150mm layers	103	CM	
	<u>Insecticide treatment</u>			
D.	"Premise 200CC" insecticide treatment on top of hardcore filling and over foundation walls applied as per manufacturer's instruction with a 10 year guarantee To murram surface	103	SM	
	<u>Concrete Work</u>			
	<u>In situ concrete mix (1:4:8): in</u>			
E.	50 mm thick blinding under foundations and bases	55	SM	
	<u>In situ reinforced concrete: CLASS 25 vibrated in:-</u>			
F.	Strip footing	8	CM	
G.	Bases	5	CM	
H.	Ground beams	4	CM	
I.	Columns	1	CM	
J.	Floor bed 150 mm thick	103	SM	
	<u>Reinforcement (Provisional)</u>			
	<u>Supply and fix steel bar reinforcement including bending, hooking, tying wire, cutting, spacers and supporting all in position</u>			
	<u>High tension square twisted mild steel bars reinforcement to BS 4449 in structural concrete work (Provisional)</u>			
K.	Assorted bars	1714	KG	
CARRIED TO COLLECTION				

<p>A</p>	<p>BRC Fabric mesh reinforcement Ref. A193 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed</p> <p><u>Marine board formwork: to</u></p>	<p>103</p>	<p>SM</p>		
<p>B</p>	<p>Edges: slab not exceeding 150 mm girth</p>	<p>45</p>	<p>LM</p>		
<p>C</p>	<p>Sides of foundation</p>	<p>26</p>	<p>SM</p>		
<p>D</p>	<p>Sides and soffits of ground beams</p>	<p>26</p>	<p>SM</p>		
<p>E</p>	<p>Sides of columns</p>	<p>22</p>	<p>SM</p>		
	<p><u>Damp proof membrane</u></p>				
<p>F</p>	<p>1000 gauge polythene laid under surface beds</p>	<p>103</p>	<p>SM</p>		
	<p><u>Walling</u></p>				
	<p><u>Natural stone walling in cement and sand (1:3) mortar</u></p>				
	<p><u>and including reinforcing with 20 x 3mm thick hoop iron</u></p>				
	<p><u>in every alternate course.</u></p>				
<p>G</p>	<p>200mm Thick walling</p>	<p>65</p>	<p>SM</p>		
	<p><u>Insitu Finishings</u></p>				
<p>H.</p>	<p>14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls;</p>	<p>14</p>	<p>SM</p>		
	<p><u>Painting and Decorations</u></p>				
	<p><u>Prepare and apply three coats bituminous paint to:</u></p>				
<p>I.</p>	<p>Wood floated rendered plinths over 300mm girth</p>	<p>14</p>	<p>SM</p>		
<p>CARRIED TO COLLECTION</p>					

	SUBSTRUCTURES Brought Forward From Page TS/1 Brought Forward From Page TS/2 Brought Forward From Page TS /3				
	TOTAL SUBSTRUCTURE CARRIED TO SUMMARY				

	<u>ELEMENT NO.2</u> <u>REINFORCED CONCRETE SUPERSTRUCTURES</u> <u>Insitu reinforced concrete: grade 25 : vibrated in:-</u>			
A	Beams	4	CM	
B	Columns	2	CM	
	<u>Reinforcement (Provisional)</u> <u>Supply and fix steel bar reinforcement including bending, hooking, tying wire, cutting, spacers and supporting all in position</u> <u>High tension square twisted mild steel bars reinforcement to BS 4449 in structural concrete work (Provisional)</u>			
C.	Assorted bars 730 KG	598	Kg	
	<u>Sawn timber formwork: to</u>			
D.	Sides and soffits of beams 73 SM	26	SM	
E.	Sides of columns	31	SM	
	TOTAL REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO SUMMARY			

A.	<p><u>ELEMENT NO. 3</u> <u>EXTERNAL WALLING</u> <u>Precast concrete grade 20(12mm aggregate) including formwork, finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in cement and sand (1:3) mortar</u></p> <p>200 x 200 mm Lintel reinforced with and including two 12mm diameter mild steel rods hooked at ends (in 5 No.)</p>	6	LM		
B.	<p><u>EXTERNAL WALLING</u> <u>Approved local stone of the approved colour; squared ; hand dressed one side to Zero joint; bedding, jointing in cement and sand mortar (1:4);including reinforcing with hoop iron in every alternative course</u></p>	107	SM		
C	<p>Walls 200 mm thick</p> <p>Ditto gable ends</p>	16	SM		
D	<p><u>Damp Proof Course</u></p> <p><u>Damp proof course : bituminous felt : bedded in cement and sand mortar (1:3) : 300 mm laps (measured net-no allowance for laps)</u></p>	44	LM		
E	<p>Horizontal: 200 mm wide</p> <p>200 mm eaves filling, 200mm high including dressing between rafters</p>	44	LM		
	TOTAL EXTERNAL WALLING CARRIED TO SUMMARY				

ELEMENT NO. 4

	<p><u>INTERNAL WALLING</u> <u>Approved local stone; squared ; machine dressed one side; bedding, jointing in cement and sand mortar (1:4);including reinforcing with hoop iron in every alternative course</u></p> <p>A. Walls 200 mm thick</p> <p><u>Damp Proof Course</u> <u>Damp proof course : bituminous felt : bedded in cement and sand mortar (1:3) : 300 mm laps (measured net-no allowance for laps)</u></p> <p>B Horizontal: 200 mm wide</p> <p>C. Walls 100 mm thick</p>	51	SM		
	TOTAL INTERNAL WALLING CARRIED TO SUMMARY				

A.	<p><u>ELEMENT NO. 5</u> <u>ROOFING CONSTRUCTION, COVERING AND RAIN</u> <u>WATER DISPOSAL</u></p> <p><u>Stone coated steel roofing sheets; 28 gauge</u></p> <p>Roof covering; 150mm laps on one end and one and a half corrugation side lap; and nailing to 75 x 50mm celcured sawn cypress purlins (m/s) to receive roofing sheets (m/s)</p>	110	SM
B.	<p><u>Truss Type 1</u></p>	79	LM
C.	<p><u>The following 9 No. timber trusses spanning at 9m and placed 2000c/c and 3m from ground level</u></p>	14	LM
D.	<p>100x50 mm rafters</p>	50	LM
E.	<p>150x50 mm kingpost</p>	75	LM
F.	<p>100x50 mm struts & ties</p>	172	LM
G.	<p>150x50mm tie beam</p>	48	LM
H.	<p><u>End of trusses</u> 75 X 50mm purlins</p>	20	LM
I.	<p>100x50mm wall plate</p>	20	SM
J.	<p><u>Wrot cypress as described</u></p> <p>250 X 25mm fascia board & Burge board</p>	20	LM
K.	<p>100 x 20mm T&G in eaves boarding 5</p>	20	LM
L.	<p><u>RAINWATER DISPOSAL</u> <u>24g Galvanised mild steel sheeting; all welds ground smooth</u></p> <p>150 x 100mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at approved centers</p> <p>Extra; for 900 corners.</p> <p>Extra; 100mm dia.outlet 100mm long</p>	4	No.
CARRIED TO COLLECTION			

A	100mm dia. rainwater downpipe fixed with and including mild steel straps at 900mm centres, plugged and screwed	14	LM		
B	Extra; swanneck bend with 1135mm projection 4 No.	4	NO		
C	Extra; horse shoe bend	4	NO		
<u>Painting and Decorations</u>					
<u>On Woodwork</u>					
<u>Prepare and apply one zinc plumbate primer and three coats of premium quality super gloss oil paint to:-</u>					
D.	Fascias; 200 to 300mm girth; external	20	LM		
E.	Gutters	14	SM		
F.	Down pipes: 100mm diameter 1	14	LM		
<u>Tongue & Grooved timber surfaces</u>					
<u>Prepare and apply three coats of premium quality polyurethane varnish to:-</u>					
G.	Surfaces of eaves; over 300mm girth external	20	SM		
CARRIED TO COLLECTION					
<u>COLLECTION</u> From page TS / 08 From page TS/ 09					
TOTAL FOR ROOF CONSTRUCTION.					

ELEMENT NO. 6

DOORS

45mm thick solid cored flush door, to BS 459: part 2, overall faced both sides with scratch proof laminate to approval with rounded and post-formed edges to approval

A. Single door overall size 800 x 2400mm 15 NO.

Supply and Fix purpose made mild steel panel door : comprising of 50 x 50mm RHS frame fixed to wall jambs ; 50 x 50mm RHS stile, bottom, mid and top rail : infilled with solid sheet panel on each face : compete with all necessary iron mongery ; apply primer and two coats 2 pack epoxy enamel paint; all to approval

B. Double door overall size 1800 x 2400mm 2 NO.

Wrot Hardwood framed frames and framings

C. 150 x 50 mm; 2 No. labours; plugged door frame 118 LM

D. 40 x 35 mm moulded architrave 118 LM

E. 25 x 25mm moulded quadrants 118 LM

Iron mongery

Supply and fix the following to UNION catalogue or other equal and approved

To softwood, hardwood or the like fixing with screws

F. Three lever mortice lock complete with set lever aluminium handle furniture 17 NO.

G. Indicator bolt 13 NO.

H. 100mm steel butt hinges 26 PRS

I. *To concrete or blockwork; fixing with bolts; plugging*
Rubber door stop complete with 38 mm rawl bolt 14 NO.

CARRIED TO COLLECTION

Painting and Decorations

On wood

Aluminium primer or other equal and approved wood

	<u>primer before fixing: -</u>				
A	Backs of frame, board, etc over 100mm but not exceeding 200mm girth	118	LM		
	<u>Knot, prime and stop; prepare and apply one undercoat and two coats of gloss oil paint</u>				
B	General surfaces of timber doors over 300mm girth;	73	SM		
C	Frames; over 100mm but not exceeding 200mm girth;	118	LM		
D	Frames not exceeding 100mm girth; internal	236	LM		
	CARRIED TO COLLECTION				
	<u>COLLECTION</u> From page TS / 11 From above				
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ELEMENT NO. 7**WINDOWS**

Bull-nosed burnt clay, finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in pigmented cement and sand (1:3) mortar

A. 150 x 25mm thick clay window sill 14 LM

Wrot Cypress

B. 150 x 25 mm thick window boards including bull-nosed edges and 25 x 25 mm bearer; plugged, counter sinking and flush pelleting. 14 LM

C. 15 x 15mm quadrant bead 14 LM

METAL WORK**PURPOSE - MADE UNITS**

Supply, assemble and fix the following purpose made mild steel windows, comprising 40 x 20 x 3mm RHS frame all round ; 2 No 20 x 50 x 3mm RHS horizontal rails;; 2 No 20 x 50 x 3mm RHS vertical rails; 20 x 20 x3 mm RHS vertical and horizontal frames at 100mm centres; including all necessary cutting and welding ; all joints ground smooth; one coat red lead primer ; three coats gloss oil paint finish To Architects detail

E. Window, overall size 1350 x 1200 mm high 4 No

G. Window, overall size 1600 x 1200mm high 4 NO

G. Window, overall size 1200 x 1200mm high 4 NO

Glazing

H. 4mm Thick one way sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty 14 SM

CARRIED TO COLLECTION

	<p><u>Painting and Decorations</u></p> <p><u>On Metal work</u></p> <p><u>Prepare and apply three coats approved gloss oil paint to metal work</u></p>				
A	<p>A General window surfaces</p>	28	SM		
	<p><u>On wood</u></p> <p><u>Aluminium primer or other equal and approved wood primer before fixing: -</u></p>				
B	<p>Backs of board, over 200mm but not exceeding 300mm girth</p>	14	LM		
	<p><u>Prepare and apply three coats polyurethane clear varnish on woodwork internally</u></p>				
C	<p>Frames; 200 to 300mm girth</p>	14	LM		
CARRIED TO COLLECTION					
	<p><u>COLLECTION</u></p> <p>From page TS / 11</p> <p>From above</p>				
TOTAL FOR WINDOWS CARRIED TO SUMMARY					

ELEMENT NO. 8

FINISHES

Wall finishes

Insitu finishes

B. 12mm deep horizontal keying on natural stone wall surfaces. 123 SM

Plaster; 18mm thick, 2 No. coatwork, 15mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to concrete or blockwork base generally to: -

C. Walls, beams and columns; internal 513 SM

Tile, Slab or Block Finishings

Approved ceramic tiles to B.S. 1281; local; white glazed wall tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement

D. 6mm thick; butt joints straight both ways; to cement sand base (m/s) to walls internal 210 SM

E. Plastic edging (provisional) 100 LM

Beds or Backings

Render; cement and sand (1:3)

F. 14mm thick one coat backings; wood floated to receive ceramic tiles (m/s) to concrete or blockwork base; to Walls internal 210 SM

Prepare and apply three coats of premium quality silk vinyl paint to:-

H. To walls surfaces ; internal 513 SM

CARRIED TO COLLECTION

Floor finishes

Approved 400x400mm non slip ceramic tiles to B.S. 1281; local; white glazed floor tiles to regular or approved

A	<p><u>other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement</u></p> <p>6mm thick; butt joints straight both ways; to cement sand base (m/s) to floor</p>	103	SM		
B	<p><u>Beds or Backings</u> <u>Render: cement and sand (1:3)</u></p> <p>34mm thick backings; wood floated to receive ceramic tiles (m/s) ; to floor</p>	103	SM		
C	<p><u>Ceiling finishes</u> <u>Chip board</u></p> <p>12mm thick patterned chip-board ceiling board nailed to timber brandering (m/s); nails punched and puttied</p>	103	SM		
D	<p><u>Painting and Decorations</u> <u>Prepare and apply premium quality gloss oil paint to:</u></p> <p>Chip-board ceiling boards</p>	103	SM		
E	<p>Moulded cornice not exceeding 100mm girth</p>	44	LM		
CARRIED TO COLLECTION					
<p><u>COLLECTION</u> From page TS / 15</p> <p>From above</p>					
TOTAL FOR FINISHES CARRIED TO SUMMARY					

ELEMENT NO. 9**FITTINGS****In situ reinforced concrete: grade 25 : vibrated in:-****Worktops tops**

A 75mm thick 5 SM

B BRC Fabric mesh reinforcement Ref. A193 with 200 mm laps (measured net ; no allowances made for laps) to basement floor bed 5 SM

Sawn timber formwork: to

C Soffits and sides: Work tops. 5 SM

Polished terazzo to vanity tops to approved colour, including plastic division strip, terazzo average thickness;

D -40 mm 5 SM

Render; 18mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -

E Soffits of worktops 5 SM

Painting & Decoration**Prepare and apply three coats of first grade plastic emulsion paint to:-**

F Soffits of worktops 5 SM

TOTAL FOR FITTINGS CARRIED TO SUMMARY

SUMMARY

ELEMENT NO.

1	SUBSTRUCTURE (ALL PROVISIONAL)	TS/ 3			
2	REINFORCED CONCRETE SUPERSTRUCTURE	TS/ 4			
3	EXTERNAL WALLING	TS/ 5			
4	INTERNAL WALLING	TS/ 6			
5	ROOF CONSTRUCTION.	TS/ 8			
6	DOORS	TS/ 10			
7	WINDOWS	TS/ 12			
8	FINISHES	TS/ 14			
9	FITTINGS	TS/ 15			

TOTAL FOR ABLUTION BLOCK CARRIED TO SUMMARY

Pump House.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.	Allow a Provisional Sum for testing of the whole foul drainage system in the presence of the Engineer/Project Manager and make good any defects, retest as necessary and leave the whole foul drainage system perfect and to the satisfaction of the Engineer/Project Manager.	1	SUM		
	<u>SITE CLEARANCE</u>				
	<u>General Site Clearance</u>				
B	Clear 1.5m either side of centre line of the proposed sewerline of grass,bushes,small trees and obstructions and dispose as directed by the Project Manager.	750	SM		
	<u>MANHOLES</u>				
	<u>Manhole Excavation</u>				
C	Excavate pit in normal soil for Rectangular Manhole type 'A' per drawing detail No. (50) 5300. Depth to invert max. 0.6m	2	CM		
D	Excavate pit in normal soil for Rectangular Manhole type 'B' as per drawing detail No. (50) 5301. Depth to invert max. 1.0m	10	CM		
E	Excavate pit in normal soil for Rectangular Manhole type 'C' as per drawing detail No. (50) 5302. Depth to invert max. 1.0m	20	CM		
F	Ditto n.l.t 1.0m but n.e 1.5m	10	CM		
G	Excavate pit in normal soil for Rectangular Manhole type 'D' as per drawing detail No. (50) 5303. Depth to invert max. 1m.	5	CM		
H	Ditto n.l.t 1.0m but n.e 1.5m	13	CM		
I	Ditto n.l.t 1.5m but n.e 2.0m	12	CM		
J	Extra over excavation for excavation in Rock class II	7	CM		
	<u>Manhole Construction</u>				
K	Provide, mix and place 50mm thick concrete grade C10 (Mix Ratio1:4:8) as blinding for manholes. Cement to BS 12, 14mm aggregate to BS 882.	3	CM		
L	Provide, mix and place 150mm thick Concrete grade C20 (Mix Ratio 1:2:4) to construct 150mm thick manholes' bases. Cement to BS 12, 20mm aggregate to BS 882.	8	CM		
M	Provide, mix and place 150mm thick concrete grade C20 (Mix Ratio 1:2:4) as cover slab for manholes. Cement to BS 12, 20mm aggregate to BS 882.	5	CM		
N	Provide all materials, mix and place conc. grade C15 (Mix Ratio 1:3:6) as benching for 160 mm, 200mm and 225mm diameter pipes. Include for forming as well as finishing benching to falls and building in pipes as per drawings. Cement to BS 12, 20mm aggregate to BS 882.	4	CM		
O	Provide materials for and erect 200mm thick masonry for manholes type 'A', 'B','C' and D as per drawing details SM	175	SM		
	TOTAL CARRIED TO COLLECTION PAGE 3				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Manhole Construction Cont.</u>				
A	Sawn formwork to vertical sides of base and cover slab of Rectangular Manholes A, B, C and D	72	SM		
B	Provide 8mm diameter steel bars for cover slab of Rectangular Manhole Type 'B', C and D as per Drawing Detail	150	KG		
C	Provide and fix bitumen coated cast iron steps to B.S 1247 to detail 50 (5309) to both Rectangular and Circular Manholes Types 'A' and 'B' as per Drawing Detail No. 50 (5300) , 50(5301),50 (5314) and 50(5315) respectively.	125	NO		
D.	Provide 12mm thick cement and sand (mix 1:1) sulphate resisting rendering to the walls of the manholes	200	SM		
E.	Ditto but to cover slab	30	SM		
F.	Ditto but to surface of benching	36	SM		
G.	Allow for keeping excavations free from both surface and underground water	1	SUM		
	<u>C.I MH Cover and Frame To B.S 497 & B.S 556</u>				
H	Provide and fix 600 x 450mm Medium duty C.I manhole cover & frame and grease to detail 50 (5313)	125	NO		
	<u>SEWERLINE</u>				
I	I Excavate trench in normal soil for 160mmØ, 200mmØ UP pipe (ISO class 41) and 225mmØ Concrete Ogee Pipe and cart away surplus material as directed by the Engineer. Excavation measured from ground level to a depth n.e. 1.0m	100	CM		
J.	Ditto n.l.t 1.0m but n.e 1.5m	150	CM		
K.	Ditto n.l.t 1.5m but n.e 2.0m	150	CM		
	TOTAL CARRIED TO COLLECTION PAGE 3				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SEWERLINE Cont.</u>				
A.	Extra over excavation for excavation in Rock class 1	20	CM		
B.	Allow for maintaining sides of all excavations vertical by planking and strutting using 25mm sawn timber	1200	SM		
	<u>PIPE LAYING</u>				
C.	Provide, lay and joint 160mm diameter uPVC pipes (ISO class 41) to BS 4660 on gravel bedding and surround	150	LM		
D.	Provide, lay and joint 200mm diameter uPVC pipes (ISO class 41) to BS 4660 on gravel bedding and surround	90	LM		
E.	Provide, lay and joint 225mm diameter Pre-Cast Concrete Ogee pipes on gravel bedding and surround	70	LM		
F.	Provide and compact 100mm approved quarry dust or sand as bedding and surround for uPVC pipes as per Drawing detail (50) 5310'E'	300	SM		
G.	Ditto Concrete grade C20 (Mix Ratio 1:2:4) as surround around pipes as per Drawing detail (50) 5310'F'	8	CM		
H.	Backfill and compact selected material in layers of 150mm thick	350	CM		
I.	Load and cart away all surplus excavated material as instructed by the Engineer/Project Manager	50	CM		
J.	Allow a provisional sum of Kshs. 500,000 for any other additional Foul Drainage Works	1	SUM		
	Carried to Collection.....				
	<u>COLLECTION</u>				
	Brought Forward from Page..... 1				
	Brought Forward from Page..... 2				
	Brought Forward from Above.....				
	TOTAL CARRIED TO GRAND SUMMARY PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ACCESS ROAD & PARKING</u>				
A	Excavate over site to remove vegetation soil average 150mm deep.	7000	SM		
B	Cut down tree and grub up roots for tree with girth not exceeding 500mm	10	NO		
C	Ditto n.e 1500mm	10	NO.		
D	Excavate area of the road average 600 mm to formation level	7000	CM		
E	Extra over excavation for excavating in Rock class 1	20	CM		
F	Allow for trimming and compacting 300mm below formation level in two 150mm layers to correct levels and crossfalls. Compaction to 100% MDD	7000	SM		
G	Allow a provisional sum for adjusting the Moisture Content of the 300mm below formation by either mixing in water or drying out the material such that the Moisture Content during compaction is between 75-100% OMC	1	SUM		
H	Provide non selective post emergence broad spectrum persistent herbicide as 'Round up' or equal and approved; and, apply on the surface of the formation as per the manufacturer's specifications	7000	SM		
I	Provide, lay and compact murrum or approved equivalent as road sub-base to 98% M.D.D	6000	CM		
J	Provide, lay and compact 300mm thick hand packed stones in layers of 150mm thick rolled to the satisfaction of the Engineer/Project Manager.	5600	CM		
K	Provide lay and compact 50mm thick sand or quarry dust bedding to receive heavy duty precast concrete paving blocks	7000	SM		
L	Provide, lay and compact 80mm thick Heavy duty Pre-cast Concrete paving blocks (Minimum Strength 45-50 N/mm ²)	7000	SM		
	<u>KERBS AND CHANNELS FOR ACCESS ROADS AND PARKING BAYS</u>				
	<u>To be manufactured strictly in accordance with BS 340.</u> <u>Concrete grade to be C20/20) (Mix 1:2:4). Cement to BS 12.</u> <u>20mm aggregate to BS 882</u>				
M	Provide and place 450x100mm concrete bed and haunch in concrete grade C15 (mix 1:3:6) for Pre-Cast Concrete 250x125mm kerbs and 125x100mm channels. Include for all necessary formwork as per Drawing detail (50)5332 'B'. Cement to BS 12, 20mm aggregate to BS 882.	90	CM		
N	Provide, lay and joint 250x125mm Pre-Cast Concrete kerbs and 125x100mm channel in cement mortar (Mix Ratio 1:2) as per Drawing detail (50)5332 'B'.	1100	LM		
	TOTAL CARRIED TO COLLECTION PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>KERBS AND CHANNELS FOR ACCESS ROADS AND PARKING BAYS Cont.</u>				
A	Load and cart away all surplus excavated material as instructed by the Engineer/Project Manager	4000	CM		
	<u>FOOTHPATHS ADJACENT TO THE ACCESS ROADS AND PARKING BAYS</u>				
C	Excavate over site to remove vegetation soil average 150mm deep.	480	SM		
D	Excavate area of the road average 150mm to formation level, trim and compact to correct levels and crossfalls	480	SM		
E	Provide non selective post emergence broad spectrum persistent herbicide as 'Round up' or equal and approved; and, apply on the surface of formation as per the manufacturer's specifications	480	SM		
F	Provide, lay and compact 150mm thick approved Murram base rolled to the satisfaction of the Engineer	72	CM		
G	Provide, lay and compact 50mm thick approved quarry dust or sand as per drawing detail rolled to the satisfaction of the Engineer.	480	SM		
H	Provide, lay and joint 600x600x50mm Pre-Cast Concrete slabs to Footpaths as instructed by the Engineer	480	SM		
I	Provide all materials, mix, place and vibrate 475X200mm thick concrete bed and haunch in Concrete grade C15 (Mix Ratio 1:3:6) as instructed by the Engineer . Cement to BS 12, 20mm aggregate to BS 882	20	CM		
J	Provide, lay and joint in cement mortar (Mix ratio 1:2) pre-cast concrete 125x100 channels as footpath edging to Drawing detail 50(532) 'C'.	650	NO.		
K	Ditto 125x100 mm radii	5	NO.		
	<u>ROAD MARKING</u>				
M	Provide and apply three coats of approved reflective road marking paint white in colour in strips of 100mm wide as directed by the Engineer.	34	SM		
N	Ditto but yellow in colour	12	SM		
O	Ditto but black colour.	30	SM		
	Carried to Collection.....				
	COLLECTION Brought Forward from Page..... 7 Brought Forward from Above.....				
	TOTAL CARRIED TO GRAND SUMMARY PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FOOTPATHS AROUND BUILDINGS AND EXTERNAL WALKWAYS</u>				
A	Excavate over site to remove vegetation soil average 100mm deep.	300	SM		
B	Excavate to reduced levels not exceeding 250mm deep starting from the stripped level trim and compact to correct levels and crossfalls.	300	SM		
C	Provide non selective post emergence broad spectrum persistent herbicide as 'Round up' or equal and approved; and, apply on the surface of formation as per the manufacturer's specifications.	300	SM		
D	Provide, lay and compact 200mm thick approved Murram as subbase as per drawing detail rolled to the satisfaction of the Engineer/Project Manager	300	SM		
E	Provide all materials, mix and place 150mm thick concrete grade C15 (Mix Ratio 1:3:6) as base. Cement to BS 12, 20mm aggregate to BS 882 as instructed by the Engineer	42	CM		
F	Provide all materials, mix and place Cement and Sand screed. Thickness must not exceed 12mm (Mix Ratio 1:2) on surface to correct slope as per drawing detail. Cement to BS 12.	280	SM		
G	Allow for 12mm Flexcell expansion joint and expansion gaps as instructed by the Engineer/Project Manager.	1	SM		
H	Provide 381x381mm approved external floor tile of an approved colour as Eurocon tile Salamanca or equal and approved , soak/wet surface in clean portable water, lay and joint in cement slurry (Cement and Water only) Minimum thickness of cement slurry on surface to be as instructed. Allow for grouting and	280	SM		
I	Provide, lay and compact 50mm thick approved quarry dust or sand as per drawing detail rolled to the satisfaction of the Engineer.	300	SM		
J	Provide, lay and joint 600x600x50mm Pre-Cast Concrete slabs to Footpaths as instructed by the Engineer.	300	SM		
I	Provide all materials, mix, place and vibrate 475x100mm concrete bed and haunch in Concrete Grade C15(mix Ratio 1:3:6) as instructed by the Engineer. Include for all necessary	17	SM		
	Provide, lay and joint in cement mortar (Mix 1:2) pre-cast concrete 125x100 channels as per Drawing detail (50)5332 'C'.	368	No.		
K.	Allow a provisional sum of Kenya Shillings Two Hundred Thousand for any other additional Footpaths/Paving Works	1	SUM		
	TOTAL CARRIED TO GRAND SUMMARY PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>OPEN STORM WATER DEEP INVERT BLOCK DRAIN</u>				
A	Excavate trench for 450x600x225mm external dimensions precast concrete IBD trim sides to slope and cart away excavated material depth not exceeding 1.2m (average depth 1.0m.)	490	CM		
B	Extra over for excavation in Rock Class I.	10	CM		
C	Provide, lay and compact 100mm thick approved murrum at the base and side slopes of the trench as per drawing detail (50)5329'B'	892	SM		
D	Provide, lay and joint 450x225mmx600mm external dimensions precast concrete IBD as per drawing detail (50)5329 'B'	991	LM		
E.	Provide 200mm thick building stone, lay and joint in cement sand (1:3) mortar as stone pitching as per drawing detail (50)5329	90	SM		
F.	Provide, lay and joint two 600x225x75mm side slabs as per drawing detail (50)5329 B	802	SM		
	<u>SHALLOW INVERT BLOCK DRAIN</u>				
G.	Excavate trench for 125x390mm;(450mm overall) external dimensions Pre-Cast Concrete shallow IBD trim sides to slope and cart away excavated material depth not exceeding 0.5m (average depth 0.4m.)	48	CM		
H.	Ditto for 175x800mm; (600mm overall)	148	CM		
I.	Provide, lay and compact 100mm thick approved Murrum as subbase as per drawing detail (50)5330 rolled to the satisfaction of the Engineer.	270	SM		
J.	Provide, mix and place 50mm thick concrete grade C15 (Mix Ratio1:3:6) as bedding for the shallow IBD. Cement to BS 12, 14mm aggregate to BS 882.	14	CM		
K.	Provide, lay and joint 125x390mm; (405mm overall) precast concrete shallow IBD as per drawing detail (50) 5330.	120	LM		
L.	Provide, lay and joint 175x800mm; (600mm overall) precast concrete shallow IBD as per drawing detail (50) 5330.	370	LM		
	<u>KERB EDGING FOR SHALLOW DRAINS</u>				
M.	Provide and place 450x100mm concrete bed and haunch i concrete grade C15 (mix 1:3:6) for precast concrete 250x125mm kerbs. Include for all necessary formwork as per Drawing detail (50)5330 'A1'. Cement to BS 12, 20mm aggregate to BS 882.	6	CM		
N.	Provide, lay and joint 250x125mm precast concrete kerbs in cement mortar (Mix Ratio 1:2) as per Drawing detail (50)5330'A1'.	120	LM		
	<u>CULVERTS & HEADWALL</u>				
	<u>HEADWALLS</u>				
O	Excavate trench for 200mm width headwall starting from ground level to depth not exceeding 1.0m	42	CM		
P	Provide all materials, mix and place 50mm thick concrete grade C10 (Mix Ratio1:4:8) as blinding for headwall base. Cement to BS 12, 14mm aggregate to BS 882.	2	CM		
	TOTAL CARRIED TO COLLECTION PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>CULVERTS & HEADWALL</u>				
	<u>HEADWALLS Cont.</u>				
A.	Provide all materials, mix and place 150mm concrete grade C20 (Mix Ratio 1:2:4) as foundation for headwalls. Cement to BS 12, 20mm aggregate to BS 882.	6	CM		
B.	Provide and fix Fabric Mesh Reinforcent Type A to B.S 1483 B.R.C Mesh No.65 to B.S 1483	69	SM		
C	Provide all materials, mix and place 250mm thick Concrete grade C20/20 (Mix Ratio 1:2:4) as Headwall and Wingwalls as per Drawing Detail (50)5318. Cement to BS 12, 20mm aggregate to BS 882.	18	CM		
	<u>CULVERTS</u>				
	<u>Excavation</u>				
D.	Excavate trench in normal soil for and 450mmØ precast concrete pipe and cart away surplus material as directed by the Engineer. Excavation measured from ground level to a depth n.e. 1.0m.	68	CM		
E.	Ditto n.l.t 1.0m but n.e 1.5m	30	CM		
F.	Extra over for excavation in rock class 1	1	CM		
	<u>Concrete Blinding</u>				
G.	Provide, mix and place 50mm thick concrete grade C10 (Mix Ratio 1:4:8) as blinding for culvert pipe. Cement to BS 12, 14mm aggregate to BS 882.	3	CM		
	<u>Concrete Bedding</u>				
H.	Provide, mix and place concrete grade C20 (Mix Ratio 1:2:4) to construct 150mm thick bed for culvert pipe. Cement to BS 12, 20mm aggregate to BS 882.	9	CM		
	<u>Pre-cast Concrete Piping</u>				
I.	Provide, lay and joint 450mm dia. precast concrete pipes on concrete bedding to correct fall.	52	LM		
J.	Provide, mix and place concrete grade C20 (Mix Ratio 1:2:4) as concrete haunch and surround around pipes. Cement to BS 12, 20mm aggregate to BS 882. Including all the necessary formwork.	24	CM		
K.	Backfill and compact after laying, jointing and surrounding of the pipes.	1	CM		
L.	Load and cart away surplus excavated material from site.	98	CM		
M.	Allow a provisional sum of Kenya Shillings Four Hundred Thousand for any other additional Storm Water drainage Works.	1	SUM		
	Carried to collection.....				
	COLLECTION				
	Brought Forward from page..... 10				
	Brought Forward from above.....				
	TOTAL CARRIED TO CIVIL GRAND SUMMARY PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	BILL NO. 1				
	<u>UNDERGROUND WATER TANK(12MX10MX3M)</u>				
	<u>Excavation / Earth works</u>				
	<u>Mass excavation to reduce levels as described in :-</u>				
B.	Depths not exceeding 1.50 m deep from the original ground level	120	CM		
D.	Depths exceeding 3.0 m deep but not exceeding 4.5m deep from the previously reduced level.	100	CM		
E.	Keeping excavation free from all water including spring and running water.	1	ITEM		
E.	Allow for plunking and strutting to sides of excavation	1	ITEM		
	<u>Plain Concrete Class 15,(1:3:6) blinding in:-</u>				
F.	Under Underground water tank foundation	200	SM		
	<u>Vibrated Reinforced Concrete; (Class 25/20mm) mix (1:1.5:3) in:-</u>				
G.	Foundation strip for the retaining walls of the underground water tank.	15	CM		
H.	250mm thick floor slab for the underground water tank	200	SM		
I.	200mm thick suspended cover slab	200	SM		
J.	250mm thick retaining walls for the underground water tank.	186	SM		
K.	Underground water tank beams	7	CM		
	<u>Reinforcement;</u>				
	<u>Bars, high yield steel;cold worked to B. S. 4461 including bends, hooks, tying wire and distance blocks :-</u>				
L.	Assorted bars	8876	KG		
	<u>Fair faced formwork using marine plywood boards or other equal & approved to :-</u>				
Q.	Sides of retaining wall strip foundation girth 300mm .	120	LM		
R.	Sides of retaining walls for the underground water tank.	300	SM		
S.	Soffittes of suspended cover slab	200	SM		
	<u>Waterproofing for the underground water tank;</u>				
T.	200mm thick Sikka water bar to Structural Engineer's approval	60	LM		
U.	Apply two coats of penetron waterproofing plaster internally or equal and approved to Structural Engineer's approval on all concrete surfaces.	150	SM		
V.	step irons @ 300mm spacing along the wall .	10	NO		
W.	Allow for 550 x550mm Sump forming on the underground water tank floor slab.(2NO.)	2	NO		
	Total carried forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
A.	<u>Filling:-</u> Return fill and ram selected excavated material to surfaces around the foundations	150	CM		
B.	Load, cart away surplus excavated material to a site / location authorized by the Architect.	405	CM		
Total carried to Collection below			Ksh.		
<u>COLLECTION</u> Total brought Forward from page No.1 Total brought Forward from page No.2					
Total for Underground Water Tank Carried to Summary Page.					

	Description of Item	QTY	UNIT	Rate	Amount
	SOFT LANDSCAPING				
	Pricing to include watering of all grass and plants until well established				
	GROUND PREPARATION				
	<u>Site clearance and Excavations</u>				
A	Ground definitions- clearing jungle including vegetation and grass and removal of roots, weeds and unwanted materials in making up of working levels and disposal of arisings. Supply and application of Fertilizer	500	SM		
B	Supply well decomposed farm yard organic manure to be mixed with the imported red soil averagely 100mm for lawn areas and 0.34m3 for backfilling of planting pits (Rates inclusive for the backfilling of the planting pits)	500	SM		
C	Supply and install organic foliar fertilizer as 'Enhace' or equally approved to all landscaped areas 4 Weeks after planting	5	LTRS		
	Supply and Application of Red/Loam Soil				
D	Supply approved imported red soil averagely 300mm for lawn areas and 1.36m3 for backfilling of planting pits(Rates inclusive for the backfilling of the planting pits)	100	CM		
	Installation of Lawn Grass				
E	Cultivation of ground to a depth of 300 mm along with removal of all debris and other materials and dibbling not more than 50 mm apart in a soil mixture of 30% manure, 60% imported red soil and 10% excavated earth levelled and raked to specified slopes.	500	SM		
	Planting of grass				
F	supply and install pemba grass instant lawn sods(planted 100X100 mm C/C)on the defined areas/ any other equal and approved lawn type.The rate (m2) for laying of instant lawn must allow for the purchase, transport, off loading,additional cultivation, laying and topdressing of uneven areas if required to achieve acceptable even lawn.	500	SM		
	Total carried forward to summary 1				

Description of Item	Unit	Qty	Rate	Amount
INSTALLATION OF GROUNDCOVERS/TREES/SHRUBS				
Pit excavation for groundcovers				
Excavate circular pits, average 300mm diameter for ground covers , commencing at existing ground level but not exceeding 0.5 metres depth average 350mm deep and cart away the arisings	180	CM		
Planting of Groundcovers(No)				
Supply, store in approved conditions,plant, weed, water and tend well the following assorted species of groundcovers till handing over				
<i>Agapanthus africanus LILY OF THE NILE</i>	200	NO		
<i>Opheopogon japonicus MONDO GRASS</i>	350	NO		
<i>hedera helix ENGLISH IVY</i>	50	NO		
<i>Chlorophytum comosum SPIDER PLANT</i>	150	NO		
<i>sansivierra SNAKE PLANT</i>	300	NO		
<i>Pennisetum setaceus -FOUNTAIN GRASS</i>	150	NO		
INSTALLATION OF SHRUBS				
Pit excavation for shrubs				
Excavate circular pits, average 450mm diameter, commencing at existing ground level but not exceeding 0.9 metres depth average 600mm deep and spread arisings evenly around.	105	CM		
Planting of Shrubs				
Supply, store in approved conditions,plant, weed, water and tend well the following assorted species of shrubs till handing over				
<i>duranta repens</i>	300	NO		
<i>alpina vitata</i>	20	NO		
<i>dwarf bamboo</i>	40	NO		
<i>Strelitzia reginae BIRDS OF PARADISE</i>	30	NO		
<i>arbovitae THUJA GREEN</i>	100	NO		
<i>euonymus fortunei WINTERCREEPER</i>	25	NO		
<i>rosa sinensis(chinese hibiscus)</i>	50	NO		
<i>malvaviscus arboreus TURK'S CAP</i>	30	NO		
<i>eugenia</i>	100	NO		
Total carried forward to summary 1				

	Description of Item	Unit	Qty	Rate	Amount
	<p>TREES AND SPECIMEN PLANTS</p> <p>Pit excavation for Trees</p> <p>Excavate circular pits, average 600mm diameter, commencing at existing ground level but not exceeding 1.0 metres depth average 600mm deep and spread arisings evenly.</p> <p>Planting of Trees</p> <p>Supply, store in approved condition, plant, weed, water and tend well the approved assorted species of healthy trees of 1200mm or at least one year old of various species (rate should include cost of digging pit, refilling with above specifications and also supplying and planting of seedlings) till handing over</p> <p><i>filicium decipiens</i> THIKA PALM <i>cupressus sempervirens</i> ITALIAN CYPRESS <i>caryota mitis</i> FISH-TAIL PALM <i>ravenalia magascariensis</i>- TRAVELLERS PALM <i>ficus benjamina</i>- WEEPING FIG <i>bischofia javanica</i>- Bishop wood <i>Calistemon viminalis</i> BOTTLE BRUSH</p> <p>LANDSCAPE MAINTENANCE</p> <p>Provide landscape maintenance service to the landscaped garden for Six(6) months upon practical completion in order to monitor plants growth; Maintenance works for plants and grass shall include; replacement of dead plants, watering, weeding, spraying against pests and diseases, and mowing grass to acceptable height as outlined in the Landscape Specification document.</p>	<p>84</p> <p>10</p> <p>40</p> <p>15</p> <p>10</p> <p>6</p> <p>15</p> <p>30</p> <p>1</p>	<p>CM</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>NO</p> <p>ITEM</p>		
	Total carried forward to summary 3				

SECTION SUMMARY				
1	Total brought forward from page 3			
2	Total brought forward from page 4			
3	Total brought forward from page 6			
	Total carried forward to summary			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	FOUL WATER DRAINAGE				
B	ACCESS ROAD AND PARKING				
C	FOOTPATHS AROUND BUILDINGS				
D	STORM WATER DRAINAGE				
E	UNDERGROUND WATER TANK				
F	LANDSCAPING				
	TOTAL FOR CIVIL WORKS				

REPUBLIC OF KENYA



COUNTY GOVERNMENT OF BOMET.

DEPARTMENT OF ROADS, TRANSPORT AND PUBLIC WORKS

**SPECIFICATIONS AND MECHANICAL BILLS OF QUANTITIES
FOR
THE PROPOSED CONSTRUCTION OF INDUSTRIAL PARK**

AT

SOTIK, BOMET COUNTY

ARCHITECTS

BOMET COUNTY

P.O. BOX 19-20400

BOMET

QUANTITY SURVEYORS

BOMET COUNTY

P.O. BOX 19-20400

BOMET

SERVICES ENGINEERS

BOMET COUNTY ENGINEERS

P.O. BOX 19-20400

BOMET

KENYA

MARCH, 2026

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	BILL NO 1: SANITARY FITTINGS				
	Supply, deliver and install the following sanitary fittings including all the necessary fittings and jointing. Tenderers to note that ANY ALTERNATIVE will ONLY be considered if they MATCH or exceed the specified items interms of TECHNICAL capabilities and MUST be accompanied with PRODUCT CATALOGUES.				
	WATER CLOSETS				
A.	Vitreous China floor standing back inlet water closet pan in white, Horizontal outlet with heavy duty seat and cover complete with metal hinges. To be suitable for flush valve system Jaquar/Roca/Docol flush valve or equal and approved.	20	No.		
B.	Stainles steel Water Closet pan with non-slip treads. Prefered water closet pan dimensions to be 455mm x 625mm by 215mm deep. The pan to come complete with, inlet gaskets, water seal trap and all drainage fitments.	45	No.		
C.	Close coupled Vitreous China floor standing . Model to be as "Duravit/Roca' or an approved equivalent.	10	No.		
D.	W.C Flush Valve, top entry regular 32mm Size with concealed body and with exposed Shut off provision, intergral vacuum breaker, bent flush pipe, rubber pipe connector, Rectangular dual Flush Plate,ABS Chrome Plated (3.0/6.0Lts. Per Flush) and a working pressuren 1.0 to 4.0 Bar (Max) . The flush valves shall be supplied with adopter for connection to the W.C PAN as Jaquar/Roca/Docol flush valve or equal and approved.	50	No.		
F.	Urinal Bowl with urinal rim flushing, back inlet and concealed waste complete with a P Trap or a bottle Trap diameter40mm, urinal connection set and fixing . Set to be as "Roca chick" or equal and approved.	22	No.		
G.	Urinal flush valves to be as Jaquar/Roca/Docol flush valve or equal and approved.	22	No.		
H.	Doc M Contour 21+ close coupled right hand corner pack, WC pan, water saving delay fill cistern with spatula lever, basin, grab rails, hinged support rail with toilet roll holder, seat no cover with retaining buffers, copper tails on TMV3 mixer tap or equal and approved.	10	No.		
	<u>Wash Hand Basins</u>				
I.	Rectangular counter top/ Under counter Wash hand basin size 450 x 340mm in vitreous china with 1No. centre tap hole.	50	No.		
J.	Oval counter top/ Under counter Wash hand basin size 450 x 340mm in vitreous china with 1No. centre tap hole.	15	No.		
K.	Pedestal wash hand basin in vitreous china with 1No. Centre taphole as Roca Aloa or equal and approed size.	12	No.		
L.	Wall hung Wash hand basin lin vitreous china with 1No. Center tap-hole as Roca Aloa or equal and approved.	20	No.		
	<u>Wash Hand Basins Faucets</u>				
M.	Single non-concessive self closing basin push tap as EUROBATH or equal and approved equivalent (Medics Washrooms)	65	No.		
N.	Factory wash hand basin faucet . .	20	No.		
	Total C/F to Page 3				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	Total C/F to Page 3				
A.	Cleaners sink as ASL Stainless Steel WTB-S or approved equivalent. The sink to be supplied complete with bib tap , 11/2" chrome plated grid waste, 11/2 chrome plated bottle trap and 75mm seal, Legs and bearers with sink screwed to wall using built in brackets.	7	No.		
B.	Stainless steel mirror for wall mounting with reflective polished surface, material thickness 1mm, four visible fixation points including stainless steel screws and dowels size 600 x 500mm.	10	No.		
C.	Automatic surface mounted, bright stainless steel , heavy duty , plastic glued/screwed to wall liquid soap dispenser complete with initial charge, key and mounting brackets as "Mediclinics" or equal and approved.	10	No.		
D.	Surface mounted auto- cut roll paper towel dispenser, made of AISI 304 stainless steel, satin finish as "Mediclinics" or equal and approved.	10	No.		
	Robe hook: Surface mounted double robe hook, made of AISI 304 stainless steel, satin finish complete with screws fixed in the inside of the toilet door.	20	No.		
	Shower fittings				
E.	Shower set complete with; wall mounted chrome plated bath/shower mixer and shower head. The shower fittings should be Anti- Vandal suitable for public use.	25	No.		
F.	Recessed into wall soap dish in stainless steel.	25	No.		
	Laboratory Sinks				
H.	Hychem Polypropylene Sinks' Model no. MS 505 Complete sizes 457 x 305 x 210mm. Complete with 0.78 liter catchport recovery trap.	2	No.		
I	Bib (Wall) Tap - Press-Down Delay (Metering) Press-down delay chrome plated metering basin bib faucet complete with aerator cartridge.	4	No		
k	Pillar Tap - Press-Down Delay (Metering) Press-down delay chrome plated metering basin pillar faucet complete with aerator cartridge.	4	No.		
	Undersink Water Heater 10 Litres Instantaneous Undersink Heater. The Heater to be suitable for under the counter installations and to serve both the hand basin and the shower.	2	No.		
	Kitchen sink Double Bowl Single Drainer sink size 1450 x 520mm with bowl size 420 x 355 x 150mm deep made out of 18/8 stainless steel complete with sink waste with 70mm diameter flange 40mm shanks with brackets, plug and chain including bottle traps and all other drainage fittings.. The sink to come complete with a chrome plated kitchen mixer with over arm long neck swivel spout. 300 Litre Solar Water Heater - Pressurised Eva<	2	No,		
E.	Double toilet roll holder with spindle system for recessed mounting, stainless steel, surface satin finish, materials thickness, folded front cover, cylinder lock with standard key for 2 rolls inclusive with all mounting accessories.	50	No.		
	Total Sanitary fittings Supply and Fix C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>COLD WATER SUPPLY PIPE WORK</u>				
	Supply, deliver and instal cold water polypropylene PP-R pipes and fittings to relevant B.S DIN and local standards. Tenderers must allow in their pipework prices for all couplings , unioins , connectors.joints , by-pass bends, loop expansion bends,etc. in running lengths of pipes. Jointing and installtion methods shall be as per manufacturers' recommendations only. All pipe diameters. <u>Tenderers must allow in their prices for allcouplings, connectors, holding brackets expansion joints as required in the running lengths of pipes.</u>				
A	<u>PPR Pipes PN 20</u>				
i)	25mm ditto	600	LM		
ii)	32mm ditto	550	LM		
iii)	40mm ditto	150	LM		
iv)	50mm ditto	572	LM		
v)	65mm ditto	24	LM		
vi)	75mm ditto	300	LM		
vii)	100mm ditto	0	LM		
B.	<u>Elbow and Bends</u>				
i)	25mm ditto	200	No.		
ii)	32mm ditto	150	No.		
iii)	40mm ditto	40	No.		
iv)	50mm ditto	80	No.		
v)	75mm ditto	20	No.		
C.	<u>Reducers</u>				
i)	32 x 25mm ditto	60	No.		
ii)	40 x 32mm ditto	20	No.		
iii)	50 x 40mm ditto	15	No.		
iv)	75 x 50mm ditto	20	No.		
A.	<u>Tees</u>				
i)	25mm diameter PP-R equal tee	85	No.		
ii)	32mm ditto	36	No.		
iii)	40mm ditto	12	No.		
iv)	50mm ditto	20	No.		
v)	75mm ditto	10	No.		
	Total C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	Total B/F from page 5				
B.	Female Threaded joints				
i)	25mm diameter PP-R Female threaded joint	36	No.		
ii)	32mm ditto	15	No.		
iii)	40mm ditto	11	No.		
iv)	50mm ditto	12	No.		
v)	75mm ditto	8	No.		
C.	Male Threaded joints				
i)	25mm diameter PP-R Female threaded joint	36	No.		
ii)	32mm ditto	30	No.		
iii)	40mm ditto	25	No.		
iv)	50mm ditto	10	No.		
v)	75mm ditto	5	No.		
D.	Isolation Valves				
i)	25mm diameter isolation valve	14	No.		
ii)	32mm ditto	6	No.		
iii)	40mm ditto	4	No.		
iv)	50mm ditto	8	No.		
v)	75mm ditto	4	No.		
E.	Angle valves as PEX- or equal and approved.	40	No.		
F.	15mm diameter x 300mm long flexible connections	40	No.		
	Valves				
	75mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 1952, with wheel and head joints to steel tubing. The gate valve to be as 'PEGLER' or approved equivalent.	4	No		
	32mm ditto				
	Valve Chamber				
	Standard precast concrete valve chamber of size 450 x 450 x 450mm deep made of concrete (1:3:6) base, including formwork, excavations backfilling and disposal.	8	NO		
	Water Connection				
	Allow for connection from the County Government Water Company to the ground water tank above	1	no.		
	Total C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILL:3</u> <u>INTERNAL DRAINAGE PIPEWORK</u>				
	Supply, deliver and fix the following in UPVC soil and waste systems to BS 4514 and 5225 with fittings fixed in accordance to the manufacturers printed instructions and BS 5572 and manufactured by KEY TERRAIN as described. All UPVC branches , Tees, reducing tees, reducers etc. are to be formed in accordance to the manufacturers printed instruction. The installations to have the various sizes of connectors, adapters, sockets, reducers , holdbats, clips etc. as required for satisfactory functions .				
A.	Pipes				
b)	150mm ditto	200	LM		
b)	100mm ditto	150	LM		
b)	75mm ditto	90	LM		
b)	50mm ditto	60	LM		
c)	40mm ditto	30	LM		
B.	Bends (90/45) degrees				
b)	150mm diameter UPVC sweep bends	18	NO		
b)	100mm diameter UPVC sweep bends	24	NO		
c)	75mm ditto	8	NO		
d)	50mm ditto	18	NO		
e)	40mm ditto	10	`		
C.	Tees				
a)	150mm diameter Sweep tee.	12	NO		
b)	100mm diameter Sweep tee.	18	NO		
c)	75mm ditto	3	No		
d)	50mm ditto	13	no		
e)	40mm ditto	5	NO		
D.	Reducing sockets.				
b)	150 x 100mm ditto	8	LM		
b)	100 x 75mm ditto	12	LM		
c)	100 x 50mm ditto	7	LM		
d)	75 x 50mm ditto	11	LM		
e)	50 x 40mm ditto	4	LM		
	Total C/F to next page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	Total B/F from page 17				
A.	Inspection Plugs Access caps				
a)	150mm diameter access caps	2	No.		
a)	100mm diameter inspection plugs	7	No.		
b)	75mm ditto	8	No.		
b)	50mm ditto	9	No.		
B.	Four-way 100 x 50mm PVC floor trap complete with stainless steel	30	No.		
B.	Factory floor drains 300 x 300mm PVC floor trap complete with stainless steel grating .	30	No.		
C.	100mm diameter WC connectors.	50	No.		
D.	Allow for any other necessary factory drainage system	1	item		
E.	100mm diameter vent cowl	12	No.		
F.	100mm diameter weathering slate.	8	No.		
G.	2-way 100 x 50mm stainless steel shower floor trap complete with	25	No.		
I.	Construct Standard 600 x 450 x (600-750)mm deep masonry inspection chamber complete with heavy duty cover and frame	30	no		
I.	Standard 300 x 300 x 450mm masonry gully trap complete with 125mm thick reinforced concrete cover.	20	no		
J.	Allow for testing and commissioning drainage system.	1	Item		
	Total Internal Drainage Pipework C/F to Summary Page.				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILL NO: 4; RAINWATER SYSTEM</u>				
	Supply, deliver and fix the following in UPVC soil and waste systems to BS 4514 and 5225 with fittings fixed in accordance to the manufacturers printed instructions and BS 5572 and manufactured by KEY TERRAIN as described. All UPVC branches, Tees, reducing Tees, reducers etc. are to be formed in accordance to the manufacturers printed instructions. The installations to have the various sizes of connectors, adaptors, sockets, reducer holderbats, clips etc. as required for satisfactory functions.				
A.	Pipes				
a)	150mm dia. UPVC Grey Pipe (heavy duty)	300	LM		
b)	100mm ditto	180	LM		
b)	75mm ditto	150	LM		
b)	50mm ditto	50	LM		
B.	Bends (90/45 dge c)				
a)	150mm dia. UPVC 90deg bend	30	No.		
a)	150mm dia. UPVC 45deg bend	15	No.		
b)	100mm ditto	12	No.		
c)	75mm ditto	5	No.		
d)	50mm ditto	3	No.		
C.	Tees				
a)	150mm dia. Sweep tee	3	No.		
b)	100mm dia. Tee	8	No.		
D.	Inspection plugs/ Access caps				
a)	150mm dia.access caps	8	No.		
b)	100mm dia. Inspection plugs	5	No.		
E.	Fulboras				
a)	100mm dia. Fulboras	30	No.		
b)	75mm dia. Fulboras.	5	No.		
	<u>Excavations</u>				
E.	Excavate trench in hard soil/murram 400mm wide and depth not exceeding 750mm deep and average 500mm deep, prepare bed with red soil/murram of particle size not more than 20 mm to a depth of 250mm. Bed shall be approved by Engineer before laying of pipes. Fill with same material as above and compact in layers of 75 mm. Cart away surplus soil.	300	LM .		
I.	Construct Standard 600 x 450 x (600-750)mm deep masonry inspection chamber complete with heavy duty cover and frame	25	No		
	Total for rainwater downpipes C/F to Summary page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILL NO: 5 WATER BOOSTER PUMP SET AND TANKS</u>				
A.	<p>Supply,instal, test and commission Variable speed Booster set of 2 no. Pumps operating alternatively complete with the following:-</p> <p>Automatic electric motor driven water pumps with a capacity of 10 m3/hr at 30 meters pressure heads as GRUNDFOS /Dayliff</p> <p>Automatic electric control panel as per specification for above pumps for alternate operation between the two pumps. Base frame with anti-vibration mountings 100mm dial pressure gauge (0-10) bar Variable delay timer so that once the pump has cut out due to attainment of pressure setting at the pressure switch, it will come On again after a preset time on the timer subject to pressure loss in the line. 24 litres steel pressure booster vessel</p> <p>Pressure switch (Double pole) arrangements including pressure switch and necessary valve fittings and a delay timer. 50mm dia. Gate valve as specified or equal and approved.(2No.) 50mm line strainer (2No.) 50mm dia. Check valve as specified or equal and approved.(2No.) 50mm diameter galvanised malleable iron union.</p> <p>Electrical connection from isolators to control panel and from control panel to pumps including electric cabling and conduits. All other necessary items for booster set.</p>	1	Set		
A	<u>WATER STORAGE TANKS</u>				
	<u>Underground Ground Water Storage Tanks Piping:</u>	1	NO.		
c)	The tank to be complete with following plumbing provisions:	1	NO.		
d)	75mm diameter overflow	1	NO.		
e)	75mm diameter washout with gate valve	1	NO.		
f)	75mm diameter vent with mosquito gauze	1	NO.		
g)	75mm diameter outlets with gate valve	1	NO.		
h)	50mm ditto	2	NO.		
i)	50mm diameter inlet with high pressure ball valve.	1	NO.		
	<u>High level water tank(Pressed steel tank)</u>				
B.	<p>Hot dipped galvanised high level waterstorage tank made from 6mm thick cold pressed mild steel sectional plates of size 1220mm x 1220mm. Capacity of tank to be 46,525 Litres of preferred dimensions 3,660 x 3,660 by 3,660mm high. The entire tank and accessories to be Hot Dipped Galvanised to approval All nozzles/pipe connections to be threaded.</p> <p>The tank is to be complete with the following;</p>	1			
a)	Water level indicator	1	item		
b)	Internal ladder				
c)	Tank external ladder				
d)	75mm diameter overflow				
e)	75mm diameter washout with gate valve				
f)	100mm diameter outlets with gate valve				
g)	50mm ditto				
	Total C/F to the next Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	Total b/F from previous Page				
	<u>12 Meter Steel Tower</u> Hot Dipped Galvanised Steel tower 12metres high from Ground to the Bottom of the High Level Tank. The tower to fit and carry the 46,525 Litres high level water tank above of dimensions 3,660 x 3,660 by 3,660mm. The tower structure to comprise of: tower stancheons complete with fixing bolts stancheons bolted to stub columns, diagonal angle-line bracings, I-beams, SHS platform bedding and chequered plate top railing welded and hot dipped galvanised to approval. Structural	1	item		
	<u>Water Tanks Associated Pipework</u> <u>Supply and installation of Galvanised mild steel piping and fittings with flanged & socketed joint to medium grade class "B" to BS. 1387</u>				
B.	<u>GMS Pipework Class B</u> 75mm diameter pipe	36	LM		
	50mm ditto	24	LM		
	32mm ditto	12	LM		
	<u>Extra over Pipework</u> 75mm diameter elbow	15	No		
	50mm -ditto-	12	No		
	32mm -ditto-	6	No		
	50mm equal Tee	8	No		
	75mm diameter Tee	15	No		
	32mm -ditto-	6	No		
	<u>Electrical Works</u> Allow for electrical works incuding wiring and fitting to all pumps, control panel and float switches, from isolator provided by others	1	ITEM		
	<u>Sterilization</u> Allow for flushing out and sterilizing the whole system with chlorine to approval	1	ITEM		
	<u>Testing and commissioning</u> Allow for testing and commissioning of the Tanks and associated pipework installations	1	ITEM		
	Total C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILLNO: 7 HOT WATER GENERATION AND DISTRIBUTION SYSTEM</u>				
A.	Supply and fix the following in Glass Fibre in Glass Fibre Reinforced PPR (PN20) composite water pipes to ASTM F1281/1282, EN ISO21003 with fittings fixed to manufacturers printed instructions. Tenderers must allow in their pipework, and also where stated for pipes clips or holderbats, plugged and screwed .				
B.	Pipe Works (Internal diameter)				
C.	PPR (GFR) 25 dia.	150	LM		
D.	Ditto 32 dia.	180	LM		
	<u>ELBOW 45/90</u>				
E.	PPR 25 dia.	30	NO.		
F.	Ditto 32 dia.	20	NO.		
	<u>tees</u>				
G.	Ditto 25 dia. X 20 dia. 25 dia.	24	NO.		
H.	Ditto 32 dia. X 25 dia. 32 dia.	18	NO.		
	<u>Adaptors</u>				
I.	25 dia. X 1/2"	20	NO.		
J.	25 dia. X 1"	20	NO.		
K.	32 dia. X 1 1/4"	15	NO.		
	<u>Valves</u>				
L.	25 dia.	9	NO.		
M.	32 dia.	3	NO.		
	<u>300 Litre Solar Water Heater - Pressurised Evacuated tubes</u>				
	<u>300 Litre Solar Water Heater - Pressurised Evacuated tubes</u>				
	300 litre solar pressurised split water heating system comprising of evacuated heating glass tubes, insulated storage cylinder. To have the following features: - Evacuated borosilicate glass tubes with absorber coating - Copper heat pipes with heater fluid - Light frame anodised aluminium support structure - Insulated 300 l hot water storage cylinder c/w sacrificial anode, thermostat and cabling - Safety relief and isolating valves - Electric booster heating element for back up - Electronic controller with LCD panel and inclusive of all cabling - Automatic voltage stabiliser	4	NO		
	Total for hot water generation C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILL NO. 8 EXTERNAL WATER SUPPLY</u>				
	<u>RETICULATION</u>				
	Supply, deliver and fix the following in HDPE pressurized systems with fittings fixed in accordance to the manufacturers printed instructions. All HDPE branches, Tees, reducing Tees, reducers etc. are to be formed in accordance to the manufacturers printed instructions. The installations to have the various sizes of connectors, adoptors, sockets, reducers holdbats, clips, etc. as required for satisfactory function.				
A.	Pipes				
a)	75mm dia HDPE PN 12.5	150	LM		
b)	50mm ditto.	750	LM		
	Butt fusion fittings/Compression fittings				
B.	Elbow				
a)	75mm dia. HDPE PN 12.5	25	No.		
b)	50mm ditto	50	No.		
C.	Tees				
a)	75mm dia. HDPE PN 12.5	8	No.		
b)	50mm ditto	20	No.		
D.	Pipe connectors				
a)	75mm dia. HDPE PN 12.5	8	No.		
b)	50mm ditto	16	No.		
	<u>Excavations</u>				
E.	Excavate trench in hard soil/murram 400mm wide and depth not exceeding 750mm deep and average 500mm deep, prepare bed with red soil/murram of particle size not more than 20 mm to a depth of 250mm. Bed shall be approved by Engineer before laying of pipes. Fill with same material as above and compact in layers of 75 mm. Cart away surplus soil.				
F.	<u>Gate valves (Pegler)</u>				
a)	50mm dia. Approved pattern brass rising stem full-way gate valve with wheel or equal and approved.	6	No.		
a)	50mmdia. Check valve as pegler or equal and approved.	4	No.		
G.	Water meter				
	Water Meter for water connection including unions, nipples and necessary fitments	1	No.		
	Sluice Valve/Gate Indicator Plates				
	Standard precast concrete Sluice valve marker post marked 'SV'/'GV' set in concrete (1:3:6) base, including formwork, excavations backfilling and disposal. The plate to be painted with blue gloss oil paint.	6	No.		
	Water Line Markers				
	Standard precast concrete water line marker, post marked 'WL' set in concrete (1:3:6) base, including formwork, excavations backfilling and disposal. The plate to be painted with blue gloss oil paint.	6	No.		
	Stand Pipes - Water Point				
	20mm diameter water points/ Standpipe complete with 20mm rising pipe, 'Cobra' bib tap. Stand pipes base to be anchored to the ground on a 450 x 600mm cement splash slab.	6	No.		
	Total C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILL NO: 9; EXTERNAL DRAINAGE</u>				
	Supply, deliver and fix the following in UPVC soil and waste systems to BS 4514 and 5225 with fittings fixed in accordance to the manufacturers printed instructions and BS 5572 and manufactured by KEY TERRAIN as described. All UPVC branches, Tees, reducing Tees, reducers etc. are to be formed in accordance to the manufacturers printed instructions. The installations to have the various sizes of connectors, adaptors, sockets, reducer holderbats, clips etc. as required for satisfactory functions.				
A.	Pipes				
a)	150mm dia. UPVC Grey pipe (heavy duty)	500	LM		
b)	100mm diameter ditto.	150	LM		
	<u>Excavations</u>				
B.	Excavate trench in hard soil/murram 400mm wide and depth not exceeding 750mm deep and average 500mm deep, prepare bed with red soil/murram of particle size not more than 20 mm to a depth of 250mm. Bed shall be approved by Engineer before laying of pipes. Fill with same material as above and compact in layers of 75 mm. Cart away surplus soil.	650	LM		
C.	Manhole covers 600 x450mm Allow connection to the Manholes.	25	No.		
D.	Allow for identification,excavation, removal, re-routing, re-connecting and setting to work, any existing water pipes that may be existing on site.	1	Item		
H.	Valves /Water Chamber Standard precast concrete valve chamber of size 450 x 450 x 450mm deep made of concrete (1:3:6) base, including formwork, excavations backfilling and disposal.	4	No.		
	Pipe Sleeves 150mm diameter heavy duty PVC Class 41 pipe sleeves for crossing over pathways and driveways. The sleeves will be encased in 150mm concrete sorround.	40	LM		
	300mm diameter heavy duty PVC Class 41 pipe sleeves for crossing over pathways and driveways. The sleeves will be encased in 150mm concrete sorround.	30	LM		
	Total C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILL NO:10; HOSEREEL AND DRY RISER SYSTEM</u> Supply, fix, test and commission the following equipment and fittings as described;- Tenderers must allow in pipework prices for all couplings,unions, nipples, sockets, connectors joints etc. in running lengthsof pipes and also where necessary for fixing clips, holderbats plugged and screwed .				
A.	Hose reel and Dry Rise System Pipework				
a)	25mm dia. Pipe GMS Classcto BS 1387	90	L.m		
b)	50mm ditto	60	L.m		
c)	100mm ditto	120	L.m		
B.	Elbows				
a)	25mm elbows malleable iron galvanised	25	No.		
b)	50mm ditto	30	No.		
C.	Tees				
a)	50 x 25mm dia. Malleable iron equal tees.	12	No.		
D.	Reducers				
a)	50 x 25mm malleable galvanised iron reducing bush	12	No.		
E.	Valves				
b)	50mm air relief valve screwed as CRANE.	8	No.		
E.	Fire Hydrants				
b)	65mm Fire Hydrant suitable for exterbak	8	No.		
	Hose Reels Supply and Install Automatic, cabinet mounted type hosereel with 30m long, 25 dia. Hose manufactured to BS EN 671-1: 2001 and nozzle having SHUT, JET and SPRAY settings. The hose reels should be manufactured to BS EN 694-2001 3169/2 1981 and be able to withstand maximum pressure of upto 15 bars and LPCB certified.				
F.		13	No.		
F.	<u>PORTABLE FIRE EXTINGUISHERS</u> 9 litre water fire extinguishers complete with pressure gauge, initial charge and mounting brackets.	6	No.		
G.	5 Kg carbon dioxide gas fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	12	No.		
H.	4.5 Kg Dry Powder fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	12	No.		
	<u>Manual Alarm Bell</u> Supply Deliver and install manual operated alarm bell (Gong) and ensuring proper functioning	8			
	<u>Fire Notices</u> Allow for fire signage for the hose reel system, fire exits and fire instructions as	12			
	<u>Fire Blanket</u> 1200x1800mm fibreglass fire blanket to BS. 6575	6			
	Total C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILL NO: 11: HVAC SYSTEM</u>				
	Supply,deliver and install, test and commission the following equipment including their support brackets, screws, etc. and all connections and electrical power & control cabling.				
A.	Air conditioning system for Offices : Supply and install wall mounted AC unit (24000Btu/hr) Complete matching out door unit and wired remote controls Key pad .	0	No.		
B.	Air extraction axial fan 10 of capacity 1500m3/h at100Pascals, at a speed 1584rpm, and power rating of 1W,240V I-Phase,50Hz complete with accessories, electrical and control wiring between fan, power outlet, vibration isolators, matching flanges, Control panel, flexible connectors, guard,bell mouth outlet, etc. Fan to be a Systemair equal and approved.	2	No.		
C.	Air Supply fan of capacity of 2000m3/ at 100Pascals for the slui	2	No.		
	<u>DUCTWORK</u>				
D.	Supply and Fabricate Galvanised mild steel ductwork 22SWG (0.8mm thick),complete with transformation pieces,joints, bracings, gaskets, support sleeves, stiffness, splitters, training vanes, test holes, mild steel access doors/hatches and any other necessary for the complete laying of ductwork.	120	SM		
	<u>FLEXIBLE Ductwork</u>				
E.	150mm diameter glass fibre on PVC coated duct work .	50	LM		
F.	300 x 300mm external weather louver	4	No.		
G.	125mm Extract Air Disc Valves	8	No.		
H.	600 x 600 air registers/Diffusers	6	No.		
I.	Allow for fabrication of volume control dampers complete with a	1	Item		
J.	Allow for electrical connections for Ventilation Fans from Local	1	Item		
	Total C/F to Summary Page				

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
BILL NO:11; PRELIMINARIES ITEMS					
A.	Allow for liasing and obtaining necessary licences/permission and/or certificates from local authorities to complete the works	1	Item		
B.	Acquire and submit Insurance for the sub-contract work.	1	Item		
C.	Allow for presentation of all the required samples as per specs,Bill of Quantities and Drawings.	1	Item		
D.	Allow for testing and commisioning of all plumbing,drainage & fire fighting installations as per Bills of Quantities, specifications and drawings to the specifications of the Engineer.	1	Item		
E.	Prepare and submit working drawings comprising the following to the satisfaction of the Engineer both in hard and soft copy. Alldrawings to be in AutoCad 2015 format or an approved higher version;-	1	Item		
i)	Fully dimensioned drawings of all plants and apparatus				
ii)	General arrangement drawings of equipment,plant etc.				
iii)	Routes, types and sizes and arrangements of all pipe works.				
iv)	Wiring and piping diagrams of plant and apparatus.				
v)	Schematic diagram of individualplants and switch and control boards.				
vi)	All the required operating instructions for all panels, boards and control panels etc.				
F.	As item no. 10.06, but for Record (As-Installed)	1	Item		
G.	Prepare and submit Maintenance Manuals for all items installed.	1	Item		
H.	To ensure that materials are supplied to specifications, allow for the factory visit for 2No. Persons (Engineers) to visit the manufacturing factory to verify the specs and witness all the relevant factory tests before approval of shipping is given.	1	Item		
Total C/F to Summary Page					

Pack house Mechanical BOQ

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>SUMMARY PAGE</u>				
1	Bill No. 1A- Sanitary fittings supply and fix B/F from Page 2				
2	Bill No. 2 - Cold Water supply pipework B/F from Page 4				
3	Bill No. 3 - Internal Drainage Pipework B/F from Page 6				
4	Bill No. 4 - Rainwater Downpipes B/F from Page 7				
5	Bill No. 5 - Water Pump Set and water storage tanks B/F from Page 8				
7	Bill No. 7 - Hot Water Generation and pipework B/F from Page 10				
8	Bill No. 8 - External Water Reticulation B/F from Page 11				
9	Bill No. 8 - External Drainage B/F from Page 12				
10	Bill No. 9 - Hose Reel and Fire Hydrant system/F from Page 13				
11	Bill No. 10 - HVAC system B/F from Page 14				
12	Bill No. 11 - Preliminaries				
	TOTALS				
	Total Carried t forward to summary page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	COLD ROOMS				
A	<u>EVAPORATOR</u> The evaporator unit with a cooling load of 41.9 kW complete with cooling coil, defrost heater, expansion valve, air circulating fans, guards, drip tray, drainage pipework outlet, supports etc. The unit to be complete with powder coated finish for durability.The unit to be as GACC RX 050.2/2SN/JNA7E.UNNN- GUNTNER CUBIC COMPACT AIR COOLER-21.9KW(OLD PART NO. GACC RX 050.2/2-70.E-2225292M)or equal and approved	4	No.		
B	<u>CONDENSER</u> Supply and install 15HP air cooled condensing unit complete with semi-hermetic reciprocating compressor capable of a cooling load to match the evaporator unit and to be complete with fan, compressor, condenser, liquid receiver, controls, anti-vibration mountings etc. Unit to use enviromental friendly refrigerant and with all components mounted on a c-channel common base with hoist hooks and painted for durability and harsh environment installation.The unit to be asLH135/4PES15Y - BITZER AIR-COOLED COND. UNIT W. SEMI HERM. COMP. 15HP-MED.TEMP.or equal and approved	4	No.		
C	<u>CONTROL PANEL</u> Supply and install automatic control panel for the above system .The control panel shall be complete with VFD drives, contactors, timers and all other accessories necessary for the automatic operation of the cold store.The panel to be as GPPB CPB15HP - CONTROL PANEL BOARD - 15HP or equal and approved.	4			
D	<u>ACCESSORIES</u> Thermostatic expansion valve	4	No.		
	Filter drier to match refrigerant capacity that can carry the above cooling load of 41.7 kW to be as Danfoss or equal.	4	No.		
	Sight glass with colour coding	4	No.		
	Low pressure gauge	4	No.		
	High pressure gauge	4	No.		
	Total C/F to next Page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	Carried forward from previous page				
	Room thermostat to cut compressor in and out, depending on the room temperature.	4	No.		
	Dial thermometer	4	No.		
	Danfoss Solenoid valve	4	No.		
	Low and high cut-out switch	4	No.		
	Light Fitting				
	65 watts vapour proof light fitting	24	No.		
E	Refrigerant Pipework				
	a.Refrigeration pipework complete with armflex Insulation for both the liquid line and the suction line to match the evaporator units and condensing units. The pipework to be complete with all the necessary bends, reducers, Y's, joints, distributors, support brackets etc. an average distance of 8 m is taken for between any two units (the evaporator unit and condenser unit)	4	item		
	b.Allow for the charging of the refrigeration system with necessary amount of refrigerant for initial testing and eventual operation of the cold store.	1	Item		
F	Anti-Vibration Mountings				
	a.Anti-vibration rubber mountings for each of the condensing unit installed.	6	No.		
	b.40mm diameter class 41 uPVC condensate pipe complete with bends, tees, and access caps	1	Item		
F	<u>COLD ROOM INSULATION</u>				
	<u>Walling Insulation</u>				
	CAM Lock PU Sandwich Panels - Walls and Rc				
	100mm thick polyurethane prefabricated sandwich CAM lock panels 960mm wide and 6m high with interlocking grooves. Panels to be cladd in 0.5mm thick prepainted galvanised steel sheet panels as room insulation and to come complete with corner panels, hole caps and all accessories.	600	SM		
	Total C/F to next Page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	Carried forward from previous page				
G	Vapour Seal/Barrier Two even layers of Flinkote type 3 or equal and approved applied to the floor to manufacturer's instructions before installation of floor insulation and finish. Contractor to ensure all proper coverage of the entire floor area and application to manufacturers instructions and to approval.	150	SM		
	CAM Lock PU Sandwich Panels - ceiling 100mm thick polyurethane prefabricated sandwich CAM lock panels 960mm wide and 6m long with interlocking grooves. Panels to come complete all accessories. The floor panels to be suitable for floor packing in readiness for concrete/terrazzo floor finish application above them.	450	SM		
	Cold Room Door - Sliding Sliding Cold room door of 1,500mm wide by 2,800mm high made from 150mm prefabricated polyurethane sandwich panel. Door to have 0.5mm pre-painted galvanised steel sheet, stainless steel hinges, all around rubber gaskets, lockable outer lever door handle with a push unlocking inner safety mechanism. To come c/w rails and guides, rolling bearing fasteners and fixtures.	4	N0		
	Associated Electrical Works Allow for electrical works including but not limited to wiring and conduits from the local isolator provided by others within 20 metres in the machine room to the control panel, condenser and evaporator. It shall include a push and turn safety switch near the machines in the machine room for isolation during servicing and maintenance.	1	item		
	Allow for testing and commissioning of the entire cold storage works to attain set temperatures to Engineers approval	1	item		
	Total C/F to Summary Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KSH)	AMOUNT (KSH)
1.0	PRELIMINARY BOREHOLE SURVEY				
1.1	Reconnaissance surveys. This inclusive comprehensive desk study on the Site	1	Lot.		
1.2	Mobilize to the site of works and carry out comprehensive mapping using resistivity methods. (Hydro geological / Geophysical Borehole site investigation.)	1	Lot.		
1.3	Compile detailed – survey report on the survey finds	1			
1.4	Application and follow – up of the necessary drilling Authorization for the Borehole works	1	Lot.		
2.0	ENVIRONMENTAL ASSESMENT PHASE				
2.1	Conduct a comprehensive NEMA Assessment on the program. This inclusive of report compilation to statutory requirements	1	Lot.		
2.2	Payments of statutory amounts to Governments and Local authorities for the entire project.	1	Lot.		
3.0	BOREHOLE DRILLING				
3.1	Mobilization set up/ camp /restitution /demobilization on completion.	1	Lot.		
3.2	Drilling rig set –up at the site	1	Lot.		
Total Carried to Borehole Drilling Summary Page Page No. 4					

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KSH)	AMOUNT (KSH)
4.0	DRILLING				
4.1	Depth not exceeding 5.0 metres for the conductor pipe – 254mm Diameter	5	M		
4.2	Drilling at 225mm for the depth 5.0m – 100.0m	100	M		
4.3	Drilling at 225mm for the depth 100 – 200.0m	100	M		
4.4	Drilling at 225mm for the depth > 200.0m	100	M		
4.5	Sampling and logging works at 2.0m intervals	125	No.		
4.6	Anticipated Drilling foam usage – for improvement of cuttings recovery	1	Lot.		
4.7	Supply drilling and domestic water for both down hole injection and domestic purposes at the site	1	Lot.		
5.0	CASING & SCREEN				
5.1	153mm diameter Steel casings class B- Plain	250	M		
5.2	153mm diameter Steel screens class B in plasma slots	50	M		
5.3	154mm slide in borehole cap	1	No.		
5.4	Supply and install quartz pea gravel, 2-4 mm grain size	8	Ton		
5.5	Backfill to 10metres below ground level with drill cuttings.	10	M		
Total Carried to Borehole Drilling Summary Page Page No. 4					

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KSH)	AMOUNT (KSH)
6.0	BOREHOLE DEVELOPMENT				
6.1	Chemical development through Calgon injection.	50	Kgs		
6.2	Physical development through air –jetting techniques	5	Hr		
7.0	AQUIFFER TESTING				
7.1	Mobilization of test pumping	1	Lot.		
7.2	Installation of test-pumping unit & removal	1	Lot.		
7.3	Testing (Recovery test)	6	Hr		
7.4	Water sample for chemical & physical analysis	1	Lot.		
7.5	Borehole head works complete –plinth	1	No.		
7.6	Temporary casings for the conductor pipe.	1	M		
7.7	Documentation Form WRMA 009A	1	No.		
Total Carried to Borehole Drilling Summary Page Page No. 4					

ITEM	DESCRIPTION	AMOUNT (KSH)
	<u>Borehole Drilling Summary Page</u>	
1.0	Total Brought forward from BQ Pg. 1	
2.0	Total Brought forward from BQ Pg. 2	
3.0	Total Brought forward from BQ Pg. 3	
	Total Carried to Borehole Equiping Summary Page Page No. 3	

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KSH)	AMOUNT (KSH)
1.0	DESIGN, SUPPLY & INSTALLATION OF ELECTRIC WATER PUMP				
	Supply,install and commissioned Borehole pump with of flowrate of 7.5m3/hr agaist ahead of 290m.The pump to be as	1	No.		
1.1	Wilo/Grundfos/ Dayliff				
1.2	Pump control panel; EDOL 15kw complete with PLAV	1	No.		
1.3	Pump TPN switch Fuse	1	No.		
1.4	Submersible cable 10mm2x 4core flat	260	M		
1.5	10mm2 x 4core armoured cable	30	M		
1.6	Water proof cable joint	1	No.		
1.7	Electrode cable black	260	M		
1.8	Electrode cable brown	260	M		
1.9	Electrode probes	2	No.		
1.10	Borehole pipes 2.5" supa heavy 350m	84	No.		
1.11	Airline pipes	42	No.		
1.12	Adaptor set 2.5" super heavy	1	No.		
1.13	Cover sundries 2.5" x 6"	1	No.		
1.14	Water meter 2.5"	1	No.		
1.15	Earth rod 4ft	1	No.		
1.16	Earth clamp	1	No.		
1.17	6.0mmx 1 core cable green earth cable	5	M		
1.18	1.5mm x 2 core UG cable	30	M		
1.19	Installation accessories	1	Lot.		
1.20	Electrical works, testing & commissioning	1	Lot.		
1.21	Transport & lowering	1	Lot.		
Total Carried to Borehole Equiping Summary Page Page No. 3					

ITEM	DESCRIPTION	AMOUNT (KSH)
	<p><u>Borehole and Drilling Equiping Summary</u> <u>Page</u></p> <p>1.0 Total for Drilling</p> <p>2.0 Total For Borehole Equiping</p>	
	TOTAL CARRIED TO SUMMARY	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>BILL NO. 1</u>				
	<u>EFFLUENT TREATMENT PLANT (ETP)</u>				
	<u>Earth works</u>				
A.	Clear the site of bushes shrub and undergrowth including grubbing up their roots and disposing all the arising to a site specified by the Project Mechanical Engineer.	63	SM		
	<u>Mass excavation to reduce levels as described in :-</u>				
	<u>Mass excavation for the Effluent Treatment Plant starting from the original ground levels as described:-</u>				
	<u>:</u>				
B.	Depths not exceeding 1.50 m deep from the original ground level	95	CM		
C.	Depths exceeding 1.50 m deep but not exceeding 3.0m deep from the previously reduced level.	95	CM		
D.	Depths exceeding 3.0 m deep but not exceeding 4.5m deep from the previously reduced level, average depth 700mm.	45	CM		
E.	Trim bottom of Surface	53	SM		
	<u>Disposal of Water</u>				
F.	Keeping excavation free from all water including spring and running water.	1	ITEM		
	<u>Planking and strutting</u>				
G.	Allow for plunking and strutting to sides of excavation	1	ITEM		
	<u>Plain Concrete Class 15,(1:3:6) blinding in:-</u>				
H.	Under floor bed slab and foundations	65	SM		
	<u>Vibrated Reinforced Concrete; (Class 25/20mm) mix (1:1.5:3) in:-</u>				
I.	Foundation strip for the retaining walls	10	CM		
J.	200mm thick floor slab	20	SM		
K.	200mm thick sloping floor slab	40	SM		
L.	200mm thick suspended ETP cover slab	60	SM		
M.	200mm thick sloping floor slab at manholes	11	SM		
N.	200mm thick retaining walls	102	SM		
O.	200mm thick retaining walls at manholes	18	SM		
P.	Downstand Beams	6	CM		
	<u>Fair faced formwork using marine plywood boards or other equal & approved to :-</u>				
R.	Sides of retaining wall strip foundation girth 350mm .	66	LM		
S.	Sides of retaining walls	220	SM		
T.	Soffittes of suspended cover slab	60	SM		
U.	Sides of downstand beams	54	SM		
V.	Sides of scum baffles	22	SM		
W.	Sides of entry and exit manholes slabs 150mm thick	5	LM		
	Total carried forward to the next page		Ksh.		

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	Total brought forward from previous page				
	<u>Waterproofing to the tank;</u>				
X.	Apply two coats of penetron waterproofing plaster internally or equal and approved to Structural Engineer's approval on all concrete surfaces.	258	SM		
	<u>Filling:-</u>				
A.	Return fill and ram selected excavated material to surfaces around the foundations	76	CM		
B.	Load, cart away surplus excavated material to a site / location authorized by the Architect.	159	CM		
	<u>Reinforcement;</u>				
	<u>Bars, high yield steel;cold worked to B. S. 4461 including bends, hooks, tying wire and distance blocks</u>				
	<u>:-</u>				
C.	D8 bars	1500	KG		
D.	D10bars	1375	KG		
E.	D12 bars	850	KG		
	<u>Finishing</u>				
L.	12mm thick plaster to base slab pre-mixed with sulphate resisting cement .	46	SM		
M.	Ditto but sides of vertical walls externally	93	SM		
N.	Ditto but sides of vertical walls internally	149	SM		
O.	Fix manhole cover size 600 x 450mm	6	NO		
	<u>ETP EQUIPPING</u>				
	<u>EFFLUENT TREATMENT PLANT INSTALLATION</u>				
	Capacity ;50m3/day Biological treatment Plant				
	Supply ,install and commissioned ffluent treatment plant equipments.The Equipment should include but limited to Settling tank,Aeration tank,MBBR system,Clarifier,pumping system, filtration and chlorine dosing system as approved specialist to Mechanical Engineers Approval.	1	item		
	The effluent treatment plant MUST meet or exceed the NEMA discharge standard(s) for irrigation as stipulated in the 8th & 9th Schedules, and not only under averagehydraulic and organic loads.				
	Subtotal on Mechanical Works for the Effluent Treatment Plant				

MECHANICAL BILL OF QUNATITIES SUMMARY PAGE

<u>SUMMARY PAGE</u>					
1	Totals plumbing ,drainage,fire fighting and HVAC system				
2	Totals for for cold room installations				
3	Total for Bore Hole drilling and equipping				
4	Total for Wastes water treatment plant				
5	Allow for solar system for pumping Bore hole water and for power supply to Wastes water treatment plant				
6	Allow for 2.5% Total as Contingency				
Total for Mechanical carried forward to Tender summary page					

REPUBLIC OF KENYA



COUNTY GOVERNMENT OF BOMET.
DEPARTMENT OF ROADS, TRANSPORT AND PUBLIC WORKS

**SPECIFICATIONS AND ELECTRICAL BILLS OF QUANTITIES
FOR**

THE PROPOSED CONSTRUCTION OF INDUSTRIAL PARK

ARCHITECTS

BOMET COUNTY

P.O. BOX 19-20400

BOMET

QUANTITY SURVEYORS

BOMET COUNTY

P.O. BOX 19-20400

BOMET

SERVICES ENGINEERS

BOMET COUNTY ENGINEERS

P.O. BOX 19-20400

BOMET

KENYA

NOVEMBER, 2024

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><u>SCHEDULE NO. 1: VALUE ADDITION (V.A.) WAREHOUSES - 3NO. TYPICAL</u> <u>1.000M</u></p> <p><u>WAREHOUSES</u> <u>SCHEDULE NO. 1A: LIGHTING & POWER INSTALLATIONS - 3NO. TYPICAL</u> <u>1.000M</u></p> <p><u>VALUE ADDITION WAREHOUSES</u> <u>SCHEDULE NO. 1AA: GROUND FLOOR - LIGHTING & POWER</u> <u>INSTALLATIONS (1NO. V.A. WAREHOUSE)</u></p>				
8.00	Government legislation and regulations clause - Sub- contractor shall allow for providing holidays and transport for work people, and for complying with Legislation, Regulations and Union Agreements. The Sub-contractor must also make himself acquainted with current legislation and any Government regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc.	1	ITEM		
9.00	Import duty and VAT clause - (Note this clause applies for materials supplied only whether imported or locally manufactured. The tenderer shall make full allowance in his tender for all such taxes	1	ITEM		
10.00	Insurance company fees clause - Attention is drawn to the tenderers to allow for all necessary fees, where known, that may be payable in respect of any fees imposed by Insurance Companies or statutory authorities for testing or inspection.	1	ITEM		
13.00	Contractors office in Kenya clause - It shall be the Sub- contractor's responsibility to procure work permits, entry permits, licences, registration, etc., in respect of all expatriate staff. The Sub-contractor shall prepare a substantial proportion of his Working Drawings at his office in Kenya. No reasons for delays in the preparation or submission for approval or otherwise of such drawings or proposals will be accepted on the grounds that the Sub-contractor's Head Office is remote from his office in Nairobi or the site of the Sub- contract Works or otherwise.	1	ITEM		
16.00	Identification of plant components clause - Sub-contractor shall supply and fix identification labels to all plant, starters, switches and items of control equipment etc with white traffolyte or equal labels engraved in red lettering denoting its name, function and section controlled.	1	ITEM		
22.00	Testing and inspection - installation clause - Allow for testing each section of the Subcontract Works installation.	1	ITEM		
23.00	Initial Maintenance Clause - The sub-contractor shall make routine maintenance once a month during the liability for the Defects Period and shall carry out all necessary adjustments and repairs, cleaning and oiling of moving parts. A monthly report of the inspection and any works done upon the installation shall be supplied to the Engineer. Shall allow in the sub-contract Sum of the initial maintenance, inspection and breakdown service	1	ITEM		
	Total Carried To collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
24.00	Local and other authorities notice clause - The contractor shall comply with and give all notices required by any Regulations, Act or by Law of any Local Authority or of any Public Service, Company or Authority who have any jurisdiction with regard to the works or with those systems the same are or will be connected and he shall pay and indemnify the Government against any fees or charges legally demandable under any regulation or by-law in respect of the works; provided that the said fees and charges if not expressly included in the contract sum or stated by way of provisional sum shall be added to the contract sum.		1 ITEM		
28.00	Supervision by Engineer and site meetings clause - A competent Project Engineer appointed by the Chief Engineer as his representative shall supervise the Contract works. The Project Engineer shall be responsible for issuing all the site instructions in any variations to the works and these shall be delivered through the Contractor with the authority of the Project Manager. Any instructions given verbal shall be confirmed in writing. The Sub Contractor shall in his tender allow for the provision of management meetings and site inspections, as instructed by the Engineer, and also profit and attendance on these funds. The funds shall be expended according to Project Manager's instructions to the Contractor.		1 Item		
29.00	Allow for Taxes, Profit and Attendance for the above Item		%		
Total Carried To collection					
Bidders MUST either insert percentage or indicate as NIL for the following clauses:					
(1) Attendance Upon Tradesmen, etc. (Insert percentage only) clause 1.58 of Section C					
(2) Extended Preliminaries (Insert percentage only) Clause 1.66 of Section C					
<u>Sub -contract PRELIMINARIER COLLECTION</u>					
PAGE 1					
PAGE 02					
Page Above					
Total For Preliminaries					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO. 2 - SCHEDULE NO. 1: VALUE ADDITION (V.A.) WAREHOUSES - 3NO. TYPICAL 1,000M				
	WAREHOUSES				
	SCHEDULE NO. 1A: LIGHTING & POWER INSTALLATIONS - 3NO. TYPICAL 1,000M				
	VALUE ADDITION WAREHOUSES				
	SCHEDULE NO. 1AA: GROUND FLOOR - LIGHTING & POWER INSTALLATIONS (1NO. V.A. WAREHOUSE				
	<u>Supply, Install, test and commission the following :</u>				
1AA.01	Lighting points comprising wiring in 3x1.5mm ² Single Core PVC insulated copper cables drawn in concealed 20mm diameter HG PVC conduits complete with all necessary accessories but excluding switches for:- (a) One Way Switching. (b) Two Way Switching. (c) Unswitched.	20 18 4	NO NO NO		
1AA.02	10A moulded ivory switch plates as MK, BG, Crabtree or approved equivalent as follows: (a) 1 gang 1 way (b) 1 gang 2 way (c) 2 gang 2 way (d) 3 gang 1 way (e) Intermediate Switch	4 2 2 2 1	NO NO NO NO NO		
1AA.03	High bay luminaire's Lighting point comprising wiring in 3x2.5mm ² Single Core PVC insulated Copper Cables drawn in 25mm diameter HG PVC conduits concealed in walls and along trusses complete with all necessary accessories but excluding switches for:- (a) One Way Switching.	21	NO		
1AA.04	20A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	3	NO		
1AA.05	A metallic grid switch panel with an enclosure and capacity of 6No. 20A DP switches to be mounted on wall	1	NO		
	<u>LIGHTING FITTINGS</u>				
1AA.06	Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows: (a) 18W, 200mm diameter, surface mounted, LED circular ceiling light, IP65, with daylight white output and Long lamp life above 50,000 hours as Philips, LEDVANCE or approved equivalent. (b) 120W, autobalanced single point suspension mounting, LED high bay luminaire of high pressure die cast aluminium housing and tempered glass cover, IP65 rated with system efficacy of at least 100lm/w, life hours of above 50,000hrs and high P.F of at least 0.9 as Philips, Thorn or an approved equivalent.	14 21	NO NO		
	Sub-Total C/F to the Next Page				

Sub-Total B/F from Previous Page				
	(c) 1200mm, IP66 rated, single, LED fitting, 21W, 4000K, tough exterior, moist proof and average lifetime of 50,000hrs for mirror lighting as Philips, Thorn or approved equivalent	4	NO.	
	(d) 1200mm, 3120 lm, single 28W, 4000K LED Batten Luminaire as Thorn Poppack LED Batten	2	NO.	
	(e) 18W, 200mm diameter, surface mounted, LED circular ceiling light, IP44 with daylight white output and Long lamp life above 50,000 hours as Philips, LEDVANCE or approved equivalent.	10	NO.	
	(f) LED floodlight of 100W, 6500K daylight white, 10000lm, Black body, IP65, Frosted cover made of tempered glass for uniform illumination and average lifetime of 50,000hrs as Osram LEDVANCE Floodlight or approved equivalent	8		
	(g) Self-contained double sided EXIT sign with 8W fluorescent lamp for nonmaintained emergency lighting for 3 hour duration as Sapphire or approved equivalent.	4		
<u>DUCTING</u>				
1AA.07	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for telecommunication services.	20	LM	
1AA.08	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the trunking for internal power reticulation and inter-connecting electrical service ducts.	20	LM	
1AA.09	Supply and Install adaptable box 400mmx400mm made in 16 SWG steel sheets finished	2	NO	
<u>POWER POINTS</u>				
1AA.10	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories.	14	NO.	
	complete with all the necessary accessories.			
1AA.11	13A switched white moulded case socket outlet plates as MK, Clipsal, BG, Crabtree or an approved equivalent. (a) Twin outlet.	14	NO.	
1AA.12	Extract Fan's Power Point , comprising wiring in 3 x 2.5mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	2	NO	
1AA.13	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	NO	
1AA.14	Hand Drier's Power Point , wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	2	NO	
1AA.15	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	NO	
Sub-Total C/F to the Next Page				

	Sub-Total B/F from Previous Page				
1AA.16	Instantaneous Shower Water Heater's Power Point , comprising wiring in 3 x 4.0mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	4	NO.		
1AA.17	20A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	4	NO.		
	<u>CCTV SYSTEM POINTS</u>				
1AA.18	CCTV System Points done in 25mm Dia. HG PVC conduits concealed in building fabric/trunking complete with all necessary accessories (N/B: conduit length for each point running from the communication room is approximately 20m).	4	NO.		
	<u>INTERNAL POWER DISTRIBUTION</u>				
1AA.19	8 Ways TPN, flush mounted Distribution Board complete with 100A integral isolator as Schneider Electric Acti 9 or an approved equivalent complete with all accessories but excluding MCBs.	1	NO.		
AA.20	MCBs for item above		NO.		
	(i) 10A SP	4	NO.		
	(ii) 20A SP	8	NO.		
	(iii) 32A SP	2	NO.		
	(iv) SP Spareway	4	NO.		
	(v) TP Spareway .	4	NO.		
AA.21	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	9	NO.		
	<u>SUB-MAIN CABLING</u>				
AA.22	4x16mm ² + 1x10mm ² single core PVC insulated copper cables in 50mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	40	LM		
1AA.23	6 Ways TPN, flush mounted Distribution Board complete with 100A integral isolator as Schneider Electric Acti 9 or an approved equivalent complete with all accessories but excluding MCBs.	2	NO.		
	Sub-Total C/F to the Next Page				

Sub-Total B/F from Previous Page					
AA.24	<p>MCBs for item above</p> <p>(i) 10A SP 4 No.</p> <p>(ii) 32A SP 2 No.</p> <p>(iii) 20A TP 2 No.</p> <p>(iv) SP Spareway 6 No.</p> <p>(v) TP Spareway 6 No.</p> <p>Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.</p> <p><u>SUB-MAIN CABLING</u></p>	<p>4 NO</p> <p>2 NO</p> <p>2 NO</p> <p>6 NO</p> <p>6 NO</p> <p>1 ITEM</p>			
AA.26	<p>16mm² 4Core PVC/SWA/PVC Copper cables running on cable tray complete with appropriate cable glands and any other necessary accessory (to supply DB supplying fork lift chargers).</p>	60 LM			
AA.27	<p>Supply and install a 4 core 4.0 sq. mm PVC/SWA/PVC- insulated cu cables from the Distribution board to the isolator at fork lift charger's point complete with necessary cable glands, cable lugs and any other termination accessory.</p>	15 LM			
AA.28	<p>Supply and instal 20A, TP metal clad isolator as Schneider Electric, Crabtree</p>	2 NO			
<p>Total for Schedule No. 1AA: Ground Floor - Lighting & Power Installations (1No. V.A. Warehouse) C/F to Price Collection Page - Schedule No. 1A: Lighting & Power Warehouses)Installations (3No. Typical 1,000m² Value Addition</p>					

**SCHEDULE NO. 1AB: FIRST FLOOR - LIGHTING & POWER
INSTALLATIONS (1NO. V.A. WAREHOUSE**

Supply, Install, test and commission the following :

1AB.01	<p>Lighting points comprising wiring in 3x1.5mm² Single Core PVC insulated Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:-</p> <p>(a) One Way Switching. (b) Two Way Switching. (c) Unswitched.</p>	16 NO.	8 NO.	1 NO.	
1AB.02	<p>10A moulded ivory switch plates as MK, BG, Crabtree or approved equivalent as follows:</p> <p>(a) 1 gang 1 way (b) 1 gang 2 way</p>	4 NO.	4 NO.		
<u>LIGHTING FITTINGS</u>					
1AB.03	<p>Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows:</p> <p>(a) 600x600mm, Ceiling LED Panel Lighting Fitting, Surface Mountable, 40W, 4000K, with High efficiency LED panel delivering 100lm/W and an average lifetime of 50,000 hrs as Philips, Osram LEDvance or approved equivalent</p> <p>(b) 1200mm, IP65 rated single LED fitting with 28W, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips, ThornEco Julie 1200 LED or approved equivalent</p> <p>(c) 18W, 200mm diameter, recess mounted, LED circular ceiling light, IP44 with daylight white output and Long lamp life above 50,000 hours as Philips, LEDVANCE or approved equivalent.</p> <p>(d) 1200mm, 3120 lm, single 28W, 4000K LED Batten Luminaire as Thorn Pack LED Batten</p> <p>(e) Self-contained double sided EXIT sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Sapphire or approved equivalent.</p>	12 NO	2 No.	8 NO	2 NO
1AB.04	<p><u>TRUNKING & DUCTING</u></p> <p>i) 150x50mm two (2) compartment powder coated trunking manufactured in 14 swg galvanized mild steel sheet and finished in cream powder coating to details shown complete with covers and all fixing accessories. Allow for colour change to Architect's detail.</p> <p>ii) Factory made powder coated corner bends for the above trunking.</p> <p>iii) Powder coated twin punched outlet plate for fixing twin socket outlets.</p> <p>iv) Ditto but for data/telephone/single switched socket outlets.</p>	35 LM	8 NO	8 NO	4 NO
Sub-Total C/F to the Next Page					

	Sub-Total B/F from Previous Page			
	v) Carry out bonding throughout the entire length of the above trunking and connect to earthing.	1	ITEM	
1AB.05	300mm x 50mm deep perforated GI cable tray complete with all accessories inside ceiling as manufactured by Schneider Electric Kenya or an approved equivalent.	50	Lm	
1AB.06	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for telecommunication services.	20	Lm	
1AB.07	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the trunking for internal power reticulation and inter-connecting electrical service ducts.	20	Lm	
1AB.08	Supply and Install adaptable box 400mmx400mm made in 16 SWG steel sheets finished in cream powder coating to Engineer's approval.	2	Lm	
	<u>POWER POINTS</u>			
1AB.09	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories.	5	no	
1AB.10	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in trunking complete with all the necessary accessories.	14	NO.	
1AB.11	13A switched white moulded case socket outlet plates as MK, Clipsal, BG, Crabtree or an approved equivalent. (a) Twin outlet.	13	No.	
1AB.12	Air Conditioner's Power Point, comprising wiring drawn in 3x2.5mm ² PVC-SC-CU cables in concealed 25mm Diameter HG PVC conduits complete with all accessories but excluding the D.P switch .	3	No.	
1AB.13	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	3	No.	
1AB.14	Undersink Water Heater's Power Point, comprising wiring in 3 x 4.0mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	1	No.	
1AB.15	20A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent.	1	no	
AB.16	Cooker (1-Φ) Power Point, comprising of 3x6mm PVC SC Copper cables drawn in concealed 25mm dia. HG PVC conduits complete with all accessories.	2	no.	
1AB.17	45A DP Cooker Control Unit with 13A integral Socket Outlet and Pilot Lamp marked 'As Per Application' for item above as MK, MEM or approved equivalent.	1	no	
1AB.18	1AB.18 Cooker Connection Unit for flush mounting and wired from Cooker Control Unit.	1	no	
	Sub-Total C/F to the Next Page			

Sub-Total B/F from Previous Page					
	<u>TELEVISION POINTS</u>				
1AB.19	a) TV outlet point wired in 75 Ohms Screened Coaxial TV cables drawn in concealed 20mm diameter HG/PVC conduits and linked to the outside through the roof space (to the amplifier) via telephone draw in boxes.	2	NO		
	b) Moulded ivory TV outlet plate as MK, Clipsal, Crabtree or approved equivalent. 2 No	2	NO		
	c) Supply and Install draw box 300mmx250mmx150mm made in 16SWG steel sheets finished in cream powder coating to Engineer's approval.	1	NO		
	<u>DATA&TELEPHONE POINTS</u>				
1AB.20	Data/Telephone outlet point done in 25mm dia. HG PVC conduits concealed in building fabric/ trunking complete with all necessary accessories.	4	NO		
	<u>CCTV SYSTEM POINTS</u>				
1AB.21	CCTV System Points done in 25mm dia. HG PVC conduits concealed in building fabric/trunking complete with all necessary accessories (N/B: conduit length for each point running from the communication room is approximately 20m).	4	NO		
	<u>INTERNAL POWER DISTRIBUTION</u>				
1AB.22	6 Ways TPN, flush mounted Distribution Board complete with 100A integral isolator as Schneider Electric Acti 9 or an approved equivalent complete with all accessories but excluding MCBs.	1	NO		
1AB.23	MCBs for item above				
	(i) 10A SP	2	NO.		
	(ii) 20A SP	4	NO.		
	(iii) 32A SP	2	NO.		
	(iv) 45A SP	1	NO.		
	(v) SP Spareway	6	NO.		
	(vi) TP Spareway	1	NO.		
1AB.24	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above. 1 Item	1	NO.		
	<u>SUB-MAIN CABLING</u>				
1AB.25	4x16mm ² + 1x10mm ² single core PVC insulated copper cables in 50mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	50	LM		
Collection Page - Schedule No. 1A: Lighting & Power Installations (3No. Typical 1,000m² Value Addition Warehouses) PRICE COLLECTION PAGE					

	<p>SCHEDULE NO. 1A: LIGHTING & POWER INSTALLATIONS - 3NO. TYPICAL 1,000M² VALUE ADDITION WAREHOUSES</p> <p>Total for Schedule No. 1AA: Ground Floor - Lighting & Power Installations (1No. 1,000m Value Addition Warehouse)</p> <p>Total for Schedule No. 1AB: First Floor - Lighting & Power Installations (1No. 1,000m Value Addition Warehouse)</p>				
	<p>Total for Schedule No. 1AA & Schedule No. 1AB = [A]</p>				
	<p>Total for Schedule No. 1A: Lighting & Power Installations - 3No. Typical 1,000m² Value Addition Warehouses = 3x[A]</p>				
	<p>Total for Schedule No. 1A: Lighting & Power Installations - 3No. Typical 1,000m² Value Addition Warehouses C/F to Price Collection Page for Schedule No. 1: Value Warehouses - 3No. Typical 1,000m² Warehouses Addition (V.A.T)</p>				

<u>FIRE DETECTION AND ALARM SYSTEM</u>					
	Supply, deliver, install and commission a complete Fire Detection and Alarm system, addressable type and in accordance with BS 5839 :2000, P2 and L2				
1B.01	Outlet for Fire Alarm Panel's concealed 25mm HG PVC conduit, wiring in 3 x 2.5mm ² SC-PVC-CU fire rated cables and all accessories, including 5A fused unswitched connection unit with neon light.	2	NO		
1B.02	Outlet for fire alarm manual call point/smoke/heat detector comprising box, concealed 20mm HG PVC conduit, wiring in 3 x 1.5mm ² fire rated cables and all accessories.	36	NO		
1B.03	Addressable Manual Fire break glass call point unit as MENVIER or approved equivalent complete with a packet of 5 spare glasses, a packet of 5 spare test keys, a spare back box and a hinged cover to be installed recessed in building fabric.	6	NO		
1B.04	Addressable Electronic Fire Alarm Sounder complete with Red Flashing Beacon Light as Menvier or approved equivalent.	6	NO		
1B.05	Addressable Photometric Smoke Detector as Menvier or equal and approved.	21	NO		
1B.06	Addressable Rate of Heat Rise Detector as Menvier MENVIER or equal and approved.	3	NO		
1B.07	Addressable fire alarm repeater panel Menvier DF6100 or equal and approved	6	NO		
1B.08	1 - Loop zone addressable fire alarm control panel complete with 2X12AH autonomous time emergency batteries as Menvier DF60001 or equal and approved.	1	NO		
Total for Schedule No. 1B: Fire Alarm & Detection System - 3No. Typical 1,000m² Value Addition Warehouses C/F to Price Collection Page for Schedule No. 1: Value WarehousesAddition (V.A.) Warehouses - 3No. Typical 1,000m²					

<u>Supply, Install, Test & Commission the following: -</u> <u>CENTRALIZED ANTENNA SYSTEM</u>					
1C.01	Rustproof Satellite Receiver Dish with 4 way Low Noise Block (LNB) downconverter for DSTV complete with mounting brackets and installation	1	NO		
1C.02	UHF aerials.	1	NO		
1C.03	VHF aerials.	1	NO		
1C.04	Mast head High gain amplifier units.	1	NO		
1C.05	Combiner unit for DSTV receiver and the UHF / VLF/VHF TV receivers as Ellies or approved equivalent	1	NO		
1C.06	DSTV satellite decoder complete with 1 year premium subscription	1	NO		
1C.07	16 SWG, (300 x 300 x 300) mm3 galvanised steel draw box for TV works.	2	NO		
1C.08	High resolution RG TV cables for interwiring the antenna, combiner units, splitter units and amplifier.	300	LM		
1C.09	Four way splitters as Ellies or approved equivalent	2	LM		
1C.10	13 Amp High voltage guard AVS 13 for the booster as Sollatec or approved equivalent	1	NO		
1C.11	12U, IP55 wall mounted cabinet accessories, lock, key and extractor fan and 4 Way extension socket with USB Charger	1	NO		
Total for Schedule No. 1C: Centralized Antenna System - 3No. Typical 1,000m2 Value Addition Warehouses C/F to Price Collection Page for Schedule No. 1: Value Typical 1,000m2 Warehouses Addition (V.A.) Warehouses - 3No.					

1D: LIGHTNING PROTECTION, EARTHING AND BONDING SYSTEM - 3NO.
TYPICAL 1,000M VALUE ADDITION WAREHOUSES

Supply, install, test & commission the lightning protection system comprising the following:

AIR TERMINATION

- | | | | | | |
|-------|--|-----|-----|--|--|
| 1D.01 | Supply and lay along the ridge cap 25mm X 3mm thick bare pure copper tape as Furse P. No. TC030 or approved equivalent. | 150 | LM | | |
| 1D.02 | State Holdfast to fix the above tape at 1000mm intervals at the roof ridge for air termination system complete with tape jointing clamps and all the necessary accessories all as Furse Cat. No. HF015 or approved equivalent. | 150 | NO. | | |
| 1D.03 | Air Termination Spike (lightning arrestors) comprising 2000mm by 15mm diameter copper rod as Furse P.No. RA240 complete with; Copper Multiple Point as Furse P. No. RA 600 and Copper Ridge Saddle as Furse P. No. SD115 or approved equivalent. | 4 | NO | | |

DOWNWARD CONDUCTOR

- | | | | | | |
|-------|--|----|-----|--|--|
| 1D.04 | Downward Conductor comprising 25mm X 3mm thick bare pure copper tape as Furse P. No. TC030 or approved equivalent. | 60 | LM | | |
| 1D.05 | Copper Square Tape Clamp for making crossing tape joints as Furse CT 105 - FU or approved equivalent. | 12 | LM | | |
| 1D.06 | DC Tape Clips for Fixing the Down Conductors to the wall as Furse CT 105-FU or approved equivalent. | 60 | NO. | | |
| 1D.07 | Copper Oblong Test/Junction Clamp complete with phosphor bronze nuts, washers and screws mounted 1800mm above finished ground level as Furse P. No. CN 105 or approved equivalent. | 5 | NO | | |
| 1D.08 | 32 mm diameter galvanised steel conduit recessed in wall between test clamp and ground and through the ring beam for sleeving at roof level for securing the down conductors. | 12 | LM | | |
| 1D.09 | Copper Saddles fixed at 1000mm intervals at the surface on wall for the down conductor system complete with all the necessary accessories all as FURSE or approved equivalent. | 60 | NO | | |

EARTHING

- | | | | | | |
|-------|---|---|----|--|--|
| 1D.10 | Earth Inspection Concrete Chamber 300mm x 300mm x 300mm with an air tight inspection cover to approval. | 3 | NO | | |
| 1D.11 | Earthing with 16mm nominal diameter by 1500mm long threaded copper bond earth rods, complete with driving head and clamp. | 3 | NO | | |
| 1D.12 | Driving Stud for the Item above as Furse ST 300 or approved equivalent. | 3 | NO | | |
| 1D.13 | Earth Electrode Rod-to-Downward Conductor Copper Tape Clamps as Furse CR 105 or approved equivalent. | 3 | NO | | |

Sub-Total C/F to the Next Page

	Sub-Total B/F from Previous Page				
1D.14	1500mm x 1500mm copper earth mat/grid (pure copper electrode) made from 25mm x 3mm thick bare copper tape (as Furse P. No. TC030 or approved equivalent). Copper tape to be spaced at 200mm interval, gas welded joints to Engineer's approval and 6m long 25mm x 3mm insulated copper tape clamped to the down conductors. Include burying the assembled grid to a minimum depth of 750mm below ground finish level (at permanent moisture level) and improving the earth to Engineer's approval. The measured earth resistance to be less than one (1) ohm. <u>BONDING</u>	3	NO		
1D.15	Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, airconditioning units, window frames, cladding, metal roof etc and the main earth for the building.	1	ITEM		
1D.16	Testing and Commissioning the entire earthing and lightning protection system.	1	ITEM		
	Total for Schedule No. 1D: Lightning Protection, Earthing and Bonding System - 3No. Typical 1,000m2 Value Addition Warehouses C/F to Price Collection Page for Warehouses - 3No. Typical 1,000m2 Warehouses Schedule No. 1: Value Addition (V.A.)				

1E: SUB-SWITCHBOARD NO. 1 - 3NO. TYPICAL 1,000M

VALUE ADDITION WAREHOUSES

Supply, install, test & commission the lightning protection system comprising the

following:

1E.01 SUB-SWITCHBOARD NO. 1

Supply, install, test and commission a Free-standing, dustproof & weatherproof (i.e. IP66 rated), purpose made front access, lockable, 6mm perspex viewing window for each section, Sealable studs for all cover plate screws and all necessary accessories, cubicle type, Low Voltage (LV) Sub-switchboard manufactured in 12SWG galvanised

mild steel sheet and finished in cream (or approved colour) powder coating as described below, shown on the schematic and other details as per Particular Specification.

This LV Sub-switchboard shall to be 3-phase, 415V with 1No. 300A TP+N+E Busbars and bus-bar connections consisting of high conductivity copper to BS 158 and BS 159, in Bus-Bars Chamber .

To be manufactured by either Schneider Electric Kenya or Specialised Power Systems

or an approved manufacturer. It shall also fabricated complete with the following details:-

a) Incoming

- i) 1No. 200A TPN Main Incomer MCCB as ABB or approved equivalent
- ii) Digital multimeter capable of measuring voltage in the range 0 – 500V, 3-phase & 1-phase and current in the range 0-400A, 3-phase and 1-phase.
- iii) 3No. Phase indicating lights
- iv) All power system parameters (KW, KVA, KWHr, KVAr, Frequency, P.F., harmonics etc.). The digital multimeter should be complete with selector switches for viewing/displaying the various parameters.

b) Outgoing

- i) 10No. 100A TPN MCCB feeder to the 4No. Distribution Boards at Ground Floor as ABB or approved equivalent.
 - ii) 4No. 100A TPN MCCB feeder to the 1No. Distribution Board at First Floor Floor as ABB or approved equivalent.
 - iii) 1No. 50A DP MCB feeder to street lighting control pillar as ABB or approved equivalent.
 - iv) A suitably rated 415V three-phase surge diverter as Furse ESP 415, fully wired, complete with enclosure with viewing window.
 - v) Space for 3No. TPN MCCBs
 - vi) Space for 3No. SPN MCCBs
- c) Carry out comprehensive labeling of all the bus bars, circuit breakers etc. of item

above, indicating the areas served, outgoing cable sizes etc.

Sub-

1 ITEM

Sub-Total C/F to the Next Page

	Sub-Total B/F from Previous Page							
	<p>d) Carry out concise load balancing to achieve a maximum imbalance not greater than + 10% between any two phases, measured at the Main LV switchboard</p> <p>Lot</p> <p><u>COMPREHENSIVE PROTECTIVE MULTIPLE EARTHING</u></p> <p>1E.02 Earthing of the subboard in accordance with KP&L company requirements, IET regulations, the government Electrical Installations regulations and other statutory requirements comprising but not limited to the following</p> <p>a) Establish 450x450x700mm deep earthing chamber, complete with internal plastering, and heavy duty EAFW steel cover clearly marked "EARTH".</p> <p>b) 25mm X 3mm pure copper tape as Furse 10 Lm.</p> <p>c) Pure copper earth rod (1500mm x 16mm) 4 No.</p> <p>d) Driving head for earth rod 4 No.</p> <p>e) Tape to earth rod clamp as Furse 4 No.</p> <p>f) 16mm² single core green PVC insulated copper earth lead 20 Lm</p>	1 Lot	1 LOT.	10 LM	4 NO	4 NO	4 NO	20 LM
	Total for Schedule No. 1E: Sub-Switchboard No. 1 - 3No. Typical 1,000m² Value Addition Warehouses C/F to Price Collection Page for Schedule No. 1: Value Addition Warehouses (V.A.) Warehouses - 3No. Typical 1,000m²							

PRICE COLLECTION PAGE

SCHEDULE NO. 1: VALUE ADDITION (V.A.) WAREHOUSES - 3NO. TYPICAL 1,000M² WAREHOUSES

1.00	Total for Schedule No. 1A: Lighting & Power Installations - 3No. Typical 1,000m Value Addition Warehouses				
2.00	Total for Schedule No. 1B: Fire Alarm & Detection System - 3No. Typical 1,000m ² Value Addition Warehouses				
3.00	Total for Schedule No. 1C: Centralized Antenna System - 3No. Typical 1,000m ² Value Addition Warehouses				
4.00	Total for Schedule No. 1D: Lightning Protection, Earthing & Bonding System - 3No. Typical 1,000m ² Value Addition Warehouses				
5.00	Total for Schedule No. 1E: Sub-Switchboard No. 1 - 3No. Typical 1,000m ² Value Addition Warehouses				
Total for Schedule No. 1: Value Addition (V.A.) Warehouses - 3No. Typical 1,000m² Warehouses C/F to Price Summary Page for Electrical Installation Works					

Sub-Total B/F from Previous Page				
	(c) 1200mm, IP66 rated, single, LED fitting, 21W, 4000K, tough exterior, moist proof and average lifetime of 50,000hrs for mirror lighting as Philips, Thorn or approved equivalent	4	no	
	(d) 1200mm, 3120 lm, single 28W, 4000K LED Batten Luminaire as Thorn Poppack LED Batten	2	no	
	(e) 18W, 200mm diameter, surface mounted, LED circular ceiling light, IP44 with daylight white output and Long lamp life above 50,000 hours as Philips, LEDVANCE or approved equivalent	10	no	
	(f) LED floodlight of 100W, 6500K daylight white, 10000lm, Black body, IP65, Frosted cover made of tempered glass for uniform illumination and average lifetime of 50,000hrs as Osram LEDVANCE Floodlight or approved equivalent	10	no	
	(g) Self-contained double sided EXIT sign with 8W fluorescent lamp for nonmaintained emergency lighting for 3 hour duration as Sapphire or approved equivalent.	4	no	
<u>DUCTING</u>				
2AA.07	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for telecommunication services.	20	lm	
2AA.08	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the trunking for internal power reticulation and inter-connecting electrical service ducts.	20	lm	
2AA.09	Supply and Install adaptable box 400mmx400mm made in 16 SWG steel sheets finished in cream powder coating to Engineer's approval.	2	no	
<u>POWER POINTS</u>				
2AA.10	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories.	14	no	
2AA.11	13A switched white moulded case socket outlet plates as MK, Clipsa I, BG, Crabtree or an approved equivalent. (a) Twin outlet.	14	no.	
2AA.12	Extract Fan's Power Point, comprising wiring in 3 x 2.5mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	2	no.	
2AA.13	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	no.	
2AA.14	Hand Drier's Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	2	no.	
2AA.15	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	no.	
Sub-Total C/F to the Next Page				

Sub-Total B/F from Previous Page				
AA.16	Instantaneous Shower Water Heater's Power Point, comprising wiring in 3 x 4.0mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	3 no		
2AA.17	20A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	4 no.		
<u>CCTV SYSTEM POINTS</u>				
2AA.18	CCTV System Points done in 25mm Dia. HG PVC conduits concealed in building fabric/trunking complete with all necessary accessories (N/B: conduit length for each point running from the communication room is approximately 20m).	4 no.		
<u>INTERNAL POWER DISTRIBUTION</u>				
2AA.19	8 Ways TPN, flush mounted Distribution Board complete with 100A integral isolator as Schneider Electric Acti 9 or an approved equivalent complete with all accessories but excluding MCBs.	1 no.		
AA.20	MCBs for item above			
	(i) 10A SP	4 No.		
	(ii) 20A SP	8 No.		
	(iii) 32A SP	9 No.		
	(iv) SP Spareway .	10 No.		
	(v) TP Spareway	11 No.		
AA.21	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above. 1 Item	12 No.		
2AA.22	4x16mm ² + 1x10mm ² single core PVC insulated copper cables in 50mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	40 lm		
2AA.23	6 Ways TPN, flush mounted Distribution Board complete with 100A integral isolator as Schneider Electric Acti 9 or an approved equivalent complete with all accessories but excluding MCBs.	2 no		
Sub-Total C/F to the Next Page				

Sub-Total B/F from Previous Page					
AA.24	MCBs for item above (i) 10A SP 4 No. (ii) 32A SP 2 No. (iii) 20A TP 2 No. (iv) SP Spareway 6 No. (v) TP Spareway 6 No.	4 NO. 2 NO. 2 NO. 6 NO. 6 NO.			
2AA.25	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	1 Item			
<u>SUB-MAIN CABLING</u>					
2AA.26	16mm ² 4Core PVC/SWA/PVC Copper cables running on cable tray complete with appropriate cable glands and any other necessary accessory (to supply DB supplying fork lift chargers).	60 lm			
2AA.27	Supply and install a 4 core 4.0 sq. mm PVC/SWA/PVC- insulated cu cables from the Distribution board to the isolator at fork lift charger's point complete with necessary cable glands, cable lugs and any other termination accessory.	15 lm			
2AA.28	Supply and instal 20A, TP metal clad isolator as Schneider Electric, Crabtree or approved equivalent.	2 no.			
Total for Schedule No. 2AA: Ground Floor - Lighting & Power Installations (1No. A.C.S. Warehouse) C/F to Price Collection Page - Schedule No. 2A: Lighting & Power Storage WarehousesInstallations - 3No. Typical 1,000m² Aggregation & Cold					

Sub-Total B/F from Previous Page					
	v) Carry out bonding throughout the entire length of the above trunking and connect to earthing.	1	ITEM		
2AB.05	300mm x 50mm deep perforated GI cable tray complete with all accessories inside ceiling as manufactured by Schneider Electric Kenya or an approved equivalent.	50	LM		
2AB.06	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for telecommunication services.	20	LM		
2AB.07	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the trunking for internal power reticulation and inter-connecting electrical service ducts.	20	LM		
2AB.08	Supply and Install adaptable box 400mmx400mm made in 16 SWG steel sheets finished in cream powder coating to Engineer's approval.	2	NO		
<u>POWER POINTS</u>					
2AB.09	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories.	5	No.		
2AB.10	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in trunking complete with all the necessary accessories.				
2AB.11	13A switched white moulded case socket outlet plates as MK, Clipsal, BG, Crabtree or an approved equivalent. (a) Twin outlet.	13	NO.		
2AB.12	Air Conditioner's Power Point, comprising wiring drawn in 3x2.5mm ² PVC-SC-CU cables in concealed 25mm Diameter HG PVC conduits complete with all accessories but excluding the D.P switch .	3	NO.		
2AB.13	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	3	NO.		
2AB.14	Undersink Water Heater's Power Point, comprising wiring in 3 x 4.0mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	1	NO.		
2AB.15	20A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	1	NO		
AB.16	Cooker (1-Φ) Power Point, comprising of 3x6mm	2	LM		
2AB.17	PVC SC Copper cables drawn in concealed 25mm dia. HG PVC conduits complete with all accessories.	1	NO.		
AB.18	45A DP Cooker Control Unit with 13A integral Socket Outlet and Pilot Lamp marked 'As Per Application' for item above as MK, MEM or approved equivalent. Cooker Connection Unit for flush mounting and wired from Cooker Control Unit.	1	NO.		
		1	NO.		
Sub-Total C/F to the Next Page					

	Sub-Total B/F from Previous Page				
	<p><u>TELEVISION POINTS</u></p> <p>a) TV outlet point wired in 75 Ohms Screened Coaxial TV cables drawn in concealed 20mm diameter HG/PVC conduits and linked to the outside through the roof space (to the amplifier) via telephone draw in boxes.</p> <p>b) Moulded ivory TV outlet plate as MK, Clipsal, Crabtree or approved equivalent. 2 No</p> <p>c) Supply and Install draw box 300mmx250mmx150mm made in 16SWG steel sheets finished in cream powder coating to Engineer's approval.</p>	2 NO.			
	<p><u>DATA&TELEPHONE POINTS</u></p> <p>2AB.20 Data/Telephone outlet point done in 25mm dia. HG PVC conduits concealed in building fabric/ trunking complete with all necessary accessories.</p>	4 NO.			
	<p><u>CCTV SYSTEM POINTS</u></p> <p>2AB.21 CCTV System Points done in 25mm dia. HG PVC conduits concealed in building fabric/trunking complete with all necessary accessories (N/B: conduit length for each point running from the communication room is approximately 20m).</p>	4 NO.			
	<p><u>INTERNAL POWER DISTRIBUTION</u></p> <p>2AB.22 6 Ways TPN, flush mounted Distribution Board complete with 100A integral isolator as Schneider Electric Acti 9 or an approved equivalent complete with all accessories but excluding MCBs.</p>	1 NO.			
	<p>AB.23 MCBs for item above</p> <p>(i) 10A SP 2 No.</p> <p>(ii) 20A SP 4 No.</p> <p>(iii) 32A SP 2 No.</p> <p>(iv) 45A SP 1 No.</p> <p>(v) SP Spareway 6 No.</p> <p>(vi) TP Spareway 1 No.</p>	2 no. 4 no. 2 no. 1 no. 6 no. 1 no.			
	<p>AB.24 Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.</p>	1 Item			
	<p><u>SUB-MAIN CABLING</u></p> <p>2AB.25 4x16mm² + 1x10mm² single core PVC insulated copper cables in 50mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory</p>	50 lm.			
	<p>Total for Schedule No. 2AB: First Floor - Lighting & Power Installations (1No. A.C.S. Warehouse) C/F to Price Collection Page - Schedule No. 2A: Lighting & Power Storage WarehousesInstallations - 3No. Typical 1,000m² Aggregation & Cold Storage</p>				

	<p><u>PRICE COLLECTION PAGE</u> <u>F/28 Electrical Proposed County Aggregation Industrial Parks Installation Works</u> <u>SCHEDULE NO. 2A: LIGHTING & POWER INSTALLATIONS - 3NO. TYPICAL 1,000M 2 AGGREGATION & COLD STORAGE WAREHOUSES</u></p> <p>Total for Schedule No. 2AA: Ground Floor - Lighting & Power Installations (1No. 1,000m Aggregation & Cold Storage Warehouse)</p> <p>Total for Schedule No. 2AB: First Floor - Lighting & Power Installations (1No. 1,000m Aggregation & Cold Storage Warehouse)</p>					
	<p>Total for Schedule No. 2AA & Schedule No. 2AB = [A]</p>					
	<p>Total for Schedule No. 2A: Lighting & Power Installations - 3No. Typical 1,000m2 Aggregation & Cold Storage Warehouses = 3x[A]</p>					
	<p>Total for Schedule No. 2A: Lighting & Power Installations - 4No. Typical 1,000m2 Aggregation & Cold Storage Warehouses C/F to Price Collection Page for Schedule No. 2: Aggregation & Cold Storage (A.C.S.) Warehouses - 4No. Typical 1,000m2 Warehouses</p>					

SCHEDULE NO. 2B: FIRE ALARM & DETECTION SYSTEM - 3NO. TYPICAL 1,000M

AGGREGATION & COLD STORAGE

WAREHOUSES

FIRE DETECTION AND ALARM SYSTEM

Supply, deliver, install and commission a complete Fire Detection and Alarm system, addressable type and in accordance with BS 5839 :2000, P2 and L2

2B.01	Outlet for Fire Alarm Panel's concealed 25mm HG PVC conduit, wiring in 3 x 2.5mm ² SC-PVC-CU fire rated cables and all accessories, including 5A fused unswitched connection unit with neon light.	2 NO.		
2B.02	Outlet for fire alarm manual call point/smoke/heat detector comprising box, concealed 20mm HG PVC conduit, wiring in 3 x 1.5mm ² fire rated cables and all accessories.	36 NO.		
2B.03	Addressable Manual Fire break glass call point unit as MENVIER or approved equivalent complete with a packet of 5 spare glasses, a packet of 5 spare test keys, a spare back box and a hinged cover to be installed recessed in building fabric.	6 NO		
2B.04	Addressable Electronic Fire Alarm Sounder complete with Red Flashing Beacon Light as Menvier or approved equivalent.	6 NO		
2B.05	Addressable Photometric Smoke Detector as Menvier or equal and approved.	6 NO.		
2B.06	Addressable Rate of Heat Rise Detector as Menvier MENVIER or equal and approved.	3 NO.		
2B.07	Addressable fire alarm repeater panel Menvier DF6100 or equal and approved	1 NO.		
2B.08	1 - Loop zone addressable fire alarm control panel complete with 2X12AH autonomous time emergency batteries as Menvier DF60001 or equal and approved.	1 NO.		
Total for Schedule No. 2B: Fire Alarm & Detection System - 3No. Typical 1,000m² Aggregation & Cold Storage Warehouses C/F to Price Collection Page for Schedule No. 3No. Typical 1,000m² Warehouses 2: Aggregation & Cold Storage (A.C.S.) Warehouses -				

SCHEDULE NO. 2C: CENTRALIZED ANTENNA SYSTEM - 3NO. TYPICAL 1,000M

AGGREGATION & COLD STORAGE

WAREHOUSES

Supply, Install, Test & Commission the following: -

CENTRALIZED ANTENNA SYSTEM

2C.01	Rustproof Satellite Receiver Dish with 4 way Low Noise Block (LNB) downconverter for DSTV complete with mounting brackets and installation	1 NO.			
2C.02	UHF aerials.	1 NO.			
2C.03	VHF aerials.	1 NO.			
2C.04	Mast head High gain amplifier units.	1 NO.			
2C.05	Combiner unit for DSTV receiver and the UHF / VLF/VHF TV receivers as Ellies or approved equivalent	1 NO.			
2C.06	DSTV satellite decoder complete with 1 year premium subscription	1 NO.			
2C.07	16 SWG, (300 x 300 x 300) mm ³ galvanised steel draw box for TV works.	2 NO.			
2C.08	High resolution RG TV cables for interwiring the antenna, combiner units, splitter units and amplifier.	300 LM			
2C.09	Four way splitters as Ellies or approved equivalent	2 NO.			
2C.10	13 Amp High voltage guard AVS 13 for the booster as Sollatec or approved equivalent	1 NO.			
2C.11	12U, IP55 wall mounted cabinet accessories, lock, key and extractor fan and 4 Way extension socket with USB Charger	1 NO.			
Total for Schedule No. 2C: Centralized Antenna System - 3No. Typical 1,000m² Aggregation & Cold Storage Warehouses C/F to Price Collection Page for Schedule No. 2: Aggregation & Cold Storage (A.C.S) Warehouses - 3No. Typical 1,000m² Warehouses					

LIGHTNING PROTECTION, EARTHING AND BONDING SYSTEM - 3NO.
TYPICAL 1,000M

AGGREGATION & COLD STORAGE

WAREHOUSE

Supply, install, test & commission the lightning protection system comprising the following:

AIR TERMINATION

- | | | | | | |
|-------|--|-----|-----|--|--|
| 2D.01 | Supply and lay along the ridge cap 25mm X 3mm thick bare pure copper tape as Furse P. No. TC030 or approved equivalent. | 150 | LM | | |
| 2D.02 | State Holdfast to fix the above tape at 1000mm intervals at the roof ridge for air termination system complete with tape jointing clamps and all the necessary accessories all as Furse Cat. No. HF015 or approved equivalent. | 150 | NO. | | |
| 2D.03 | Air Termination Spike (lightning arrestors) comprising 2000mm by 15mm diameter copper rod as Furse P.No. RA240 complete with; Copper Multiple Point as Furse P. No. RA 600 and Copper Ridge Saddle as Furse P. No. SD115 or approved equivalent. | 4 | NO. | | |

DOWNWARD CONDUCTOR

- | | | | | | |
|-------|--|----|-----|--|--|
| 2D.04 | Downward Conductor comprising 25mm X 3mm thick bare pure copper tape as Furse P. No. TC030 or approved equivalent. | 60 | LM | | |
| 2D.05 | Copper Square Tape Clamp for making crossing tape joints as Furse CT 105 - FU or approved equivalent. | 2 | NO | | |
| 2D.06 | DC Tape Clips for Fixing the Down Conductors to the wall as Furse CT 105-FU or approved equivalent. | 60 | NO. | | |
| 2D.07 | Copper Oblong Test/Junction Clamp complete with phosphor bronze nuts, washers and screws mounted 1800mm above finished ground level as Furse P. No. CN 105 or approved equivalent. | 5 | NO. | | |
| 2D.08 | 32 mm diameter galvanised steel conduit recessed in wall between test clamp and ground and through the ring beam for sleeving at roof level for securing the down conductors. | 12 | LM | | |
| 2D.09 | Copper Saddles fixed at 1000mm intervals at the surface on wall for the down conductor system complete with all the necessary accessories all as FURSE or approved equivalent. | 60 | NO. | | |

EARTHING

- | | | | | | |
|-------|---|---|-----|--|--|
| 2D.10 | Earth Inspection Concrete Chamber 300mm x 300mm x 300mm with an air tight inspection cover to approval. | 3 | NO. | | |
| 2D.11 | Earthing with 16mm nominal diameter by 1500mm long threaded copper bond earth rods, complete with driving head and clamp. | 4 | NO. | | |
| 2D.12 | Driving Stud for the Item above as Furse ST 300 or approved equivalent. | 4 | NO. | | |
| 2D.13 | Earth Electrode Rod-to-Downward Conductor Copper Tape Clamps as Furse CR 105 or approved equivalent. | 4 | NO. | | |

Sub-Total C/F to the Next Page

	Sub-Total B/F from Previous Page				
	<p>1500mm x 1500mm copper earth mat/grid (pure copper electrode) made from 25mm x 3mm thick bare copper tape (as Furse P. No. TC030 or approved equivalent). Copper tape to be spaced at 200mm interval, gas welded joints to Engineer's approval and 6m long 25mm x 3mm insulated copper tape clamped to the down conductors. Include burying the assembled grid to a minimum depth of 750mm below ground finish level (at permanent moisture level) and improving the earth to Engineer's approval. The measured earth resistance to be less than one (1) ohm.</p> <p><u>BONDING</u></p> <p>2D.15 Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, airconditioning units, window frames, cladding, metal roof etc and the main earth for the building.</p> <p>2D.16 Testing and Commissioning the entire earthing and lightning protection system.</p>	3	NO.		
	<p>Total for Schedule No. 2D: Lightning Protection, Earthing and Bonding System - 3No. Typical 1,000m2 Aggregation & Cold Storage Warehouses C/F to Price Collection Cold Storage (A.C.S.) Warehouses - 3No. Typical 1,000m2 Warehouses</p>				

SCHEDULE NO. 2E: LIGHTING & POWER POINTS (1NO. COLD STORAGE ROOMS) - 3NO. TYPICAL 1,000M

AGGREGATION & COLD STORAGE WAREHOUSES

Supply, Install, test and commission the following :

LIGHTING POINTS

2E.01 Lighting points comprising wiring in 3x1.5mm² Single Core PVC insulated Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:-
(a) One Way Switching.

32 No.

2E.02 10A moulded ivory switch plates as MK, BG, Crabtree or approved equivalent as follows:
(a) 1 gang 1 way

8 No.

LIGHTING FITTINGS

2E.03 Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows:
(a) 1200mm, single Coldproof LED fitting with 28W, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips, Thorn or approved equivalent

32 No.

POWER POINTS

2E.04 Cold Storage No. 1 (1No. each rated 15KW)

a) Supply and install a 4 core 6.0 sq. mm PVC/SWA/PVC insulated copper cables from the Sub-Switchboard No. 2 inside the Warehouse to the isolator at the machine point complete with necessary cable glands, cable lugs and any other termination accessory
(The average cable length used = 25.0m) .

1 NO.

b) Supply and instal metal clad isolator as C&S Electric or approved equivalent as follows;

i) 32 A, TP Isolator

1 No.

2E.05 Cold Storage No. 2 (4No. each rated 15KW)

a) Supply and install a 4 core 6.0 sq. mm PVC/SWA/PVC insulated copper cables from the Sub-Switchboard No. 2 inside the Warehouse to the isolator at the machine point complete with necessary cable glands, cable lugs and any other termination accessory
(The average cable length used = 30.0m) .

1 NO

b) Supply and instal metal clad isolator as C&S Electric or approved equivalent as follows;

i) 32 A, TP Isolator 1 No.

1 NO

Sub-Total C/F to the Next Page

Sub-Total B/F from Previous Page					
2E.06	Cold Storage No. 3 (1No. each rated 15KW)				
	a) Supply and install a 4 core 6.0 sq. mm PVC/SWA/PVC insulated copper cables from the Sub-Switchboard No. 2 inside the Warehouse to the isolator at the machine point complete with necessary cable glands, cable lugs and any other termination accessory (The average cable length used = 25.0m) .	1	No.		
	b) Supply and instal metal clad isolator as C&S Electric or approved equivalent as follows;				
	i) 32 A, TP Isolator	1	No.		
2E.07	Cold Storage No. 4 (1No. each rated 15KW)				
	a) Supply and install a 4 core 6.0 sq. mm PVC/SWA/PVC insulated copper cables from the Sub-Switchboard No. 2 inside the Warehouse to the isolator at the machine point complete with necessary cable glands, cable lugs and any other termination accessory (The average cable length used = 30.0m) .	1	No.		
	b) Supply and instal metal clad isolator as C&S Electric or approved equivalent as follows;				
	i) 32 A, TP Isolator	1	No.		
2E.08	Cold Storage No. 5 (1No. each rated 15KW)				
	a) Supply and install a 4 core 6.0 sq. mm PVC/SWA/PVC insulated copper cables from the Sub-Switchboard No. 2 inside the Warehouse to the isolator at the machine point complete with necessary cable glands, cable lugs and any other termination accessory (The average cable length used = 30.0m) .	1	No.		
	b) Supply and instal metal clad isolator as C&S Electric or approved equivalent as follows;				
	i) 32 A, TP Isolator 1 No.	1	No.		
Total for Schedule No. 2E: Lighting & Power Points (4No. Cold Storage Rooms) - 2No. Typical 1,000m2 Aggregation & Cold Storage Warehouses C/F to Price Collection Cold StoragePage for Schedule No. 2: Aggregation & Cold Storage Warehouses					

2F: SUB-SWITCHBOARD NO. 2 - 3NO. TYPICAL 1,000M

AGGREGATION & COLD STORAGE WAREHOUSES

Supply, install, test & commission the lightning protection system comprising the

following:

SUB-SWITCHBOARD NO. 2

2F.01 Supply, install, test and commission a Free-standing, dustproof & weatherproof (i.e. IP66 rated), purpose made front access, lockable, 6mm perspex viewing window for each section, Sealable studs for all cover plate screws and all necessary accessories, cubicle type, Low Voltage (LV) Sub-switchboard manufactured in 12SWG galvanised mild steel sheet and finished in cream (or approved colour) powder coating as described below, shown on the schematic and other details as per Particular Specification. This LV Sub-switchboard shall to be 3-phase, 415V with 1No. 700A TP+N+E Busbars and bus-bar connections consisting of high conductivity copper to BS 158 and BS 159, in Bus-Bars Chamber . To be manufactured by either Schneider Electric Kenya or Specialised Power Systems or an approved manufacturer. It shall also fabricated complete with the following details:-

a) Incoming

- i) 1No. 630A TPN Main Incomer MCCB as ABB or approved equivalent
- ii) Digital multimeter capable of measuring voltage in the range 0 – 500V, 3-phase & 1-phase and current in the range 0-400A, 3-phase and 1-phase.
- iii) 3No. Phase indicating lights
- iv) All power system parameters (KW, KVA, KWHR, KVARs, Frequency, P.F., harmonics etc.). The digital multimeter should be complete with selector switches for viewing/displaying the various parameters.

b) Outgoing

- i) 20No. 32A TPN MCCB feeder to the 20No. Evaporator & Condensers inside Cold Storage Rooms as ABB or approved equivalent.
 - ii) 10No. 100A TPN MCCB feeder to the 4No. Distribution Boards at Ground Floor as ABB or approved equivalent.
 - iii) 4No. 100A TPN MCCB feeder to the 1No. Distribution Board at First Floor Floor as ABB or approved equivalent.
 - iv) 1No. 50A DP MCB feeder to street lighting control pillar as ABB or approved equivalent.
 - v) A suitably rated 415V three-phase surge diverter as Furse ESP 415, fully wired, complete with enclosure with viewing window.
- Sufficient TP & SP spare capacity for future development i.e. at least;
- vi) Space for 3No. TPN MCCBs
 - vii) Space for 3No. SPN MCCBs

1 ITEM

Sub-Total C/F to the Next Page

	Sub-Total B/F from Previous Page				
	<p>c) Carry out comprehensive labeling of all the bus bars, circuit breakers etc. of item above, indicating the areas served, outgoing cable sizes etc.</p> <p>d) Carry out concise load balancing to achieve a maximum imbalance not greater than + 10% between any two phases, measured at the Main LV switchboard</p> <p><u>COMPREHENSIVE PROTECTIVE MULTIPLE EARTHING</u></p> <p>2F.02 Earthing of the subboard in accordance with KP&L company requirements, IET regulations, the government Electrical Installations regulations and other statutory requirements comprising but not limited to the following</p> <p>a) Establish 450x450x700mm deep earthing chamber, complete with internal plastering, and heavy duty EAFW steel cover clearly marked "EARTH".</p> <p>b) 25mm X 3mm pure copper tape as Furse 10 Lm.</p> <p>c) Pure copper earth rod (1500mm x 16mm) 4 No.</p> <p>d) Driving head for earth rod 4 No.</p> <p>e) Tape to earth rod clamp as Furse 4 No.</p> <p>f) 16mm² single core green PVC insulated copper earth lead 20 Lm</p>	1 Lot			
		1 no.			
		10 lm			
		4 No.			
		4 No.			
		4 No.			
		20 Lm.			
	Total for Schedule No. 2F: Sub-Switchboard No. 2 - 3No. Typical 1,000m² Aggregation & Cold Storage Warehouses C/F to Price Collection Page for Schedule No. 2: Warehouses - 3No. Typical 1,000m² Warehouses Aggregation & Cold Storage (A.C.S.)				

PRICE COLLECTION PAGE

SCHEDULE NO. 2: AGGREGATION & COLD STORAGE (A.C.S.)

WAREHOUSES (3NO. TYPICAL 1,000M 2

WAREHOUSES

Total for Schedule No. 2A: Lighting & Power Installations - 3No. Typical 1,000m

Total for Schedule No. 2B: Fire Alarm & Detection System - 3No. Typical 1,000m2
Aggregation & Cold Storage Warehouses

Total for Schedule No. 2C: Centralized Antenna System - 3No. Typical 1,000m2
Aggregation & Cold Storage Warehouses

Total for Schedule No. 2D: Lightning Protection, Earthing & Bonding System - 3No.
Typical 1,000m2 Aggregation & Cold Storage Warehouses

Total for Schedule No. 2E: Lighting & Power Points (1No. Cold Storage Rooms) - 2No.
Typical 1,000m2 Aggregation & Cold Storage Warehouses

Total for Schedule No. 2F: Sub-Switchboard No. 2 - 3No. Typical 1,000m2 Aggregation
& Cold Storage Warehouses

**Total for Schedule No. 2: Aggregation & Cold Storage (A.C.S.) Warehouses (4No.
Typical 1,000m2 Warehouses) C/F to Price Summary Page for Electrical
Installation Works**

BILL NO. 2 - SCHEDULE NO. 3: OFFICE BLOCK

SCHEDULE NO. 3A: LIGHTING & POWER INSTALLATIONS - OFFICE BLOCK

Supply, Install, test and commission the following :

3A.01	Lighting points comprising wiring in 3x1.5mm ² Single Core PVC insulated Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:- (a) One Way Switching. (b) Two Way Switching.	29 No. 13 No.		
3A.02	10A moulded ivory switch plates as MK, BG, Crabtree or approved equivalent as follows: (a) 1 gang 1 way 8 No. (b) 1 gang 2 way 4 No. (c) 2 gang 2 way 2 No. (d) 3 gang 1 way 2 No. LIGHTING FITTINGS	8 No 4 No 2 No 2 No		
3A.03	Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows: a) 600x600mm, Ceiling LED Panel Lighting Fitting, Surface Mountable, 40W, 4000K, with High efficiency LED panel delivering 100lm/W and an average lifetime of 50,000 hrs as Philips, Osram LEDvance or approved equivalent b) 18W, 200mm diameter, recess mounted, LED circular ceiling light, IP44 with daylight white output and Long lamp life above 50,000 hours as Philips, LEDVANCE or approved equivalent c) 18W, 200mm diameter, recess mounted, LED circular ceiling light, IP65, with daylight white output and Long lamp life above 50,000 hours as Philips, LEDVANCE or approved equivalent d) 1200mm, IP65 rated single LED fitting with 28W, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips, ThornEco Julie 1200 LED or approved equivalent e) 1200mm, 3120 lm, single 28W, 4000K LED Batten Luminaire as Thorn Poppack LED Batten f) 1200mm, IP66 rated, single, LED fitting, 21W, 4000K, tough exterior, moist proof and average lifetime of 50,000hrs for mirror lighting as Philips, Thorn or approved equivalent g) LED security light fixture of 30W, 6500K daylight white, 3300lm, Black body, IP65, Frosted cover made of tempered glass for uniform illumination and average lifetime of 50,000hrs as Osram LEDVANCE, Philips, Thorn or approved equivalent	12 No. 8 No. 10 No. 2 No. 2 No. 2 No. 6 No.		
Sub-Total C/F to the Next Page				

Sub-Total B/F from Previous Page				
<u>TRUNKING & DUCTING</u>				
i)	150x50mm two (2) compartment powder coated trunking manufactured in 14 swg galvanized mild steel sheet and finished in cream powder coating to details shown complete with covers and all fixing accessories. Allow for colour change to Architect's detail.	60	lm.	
ii)	Factory made powder coated corner bends for the above trunking.	10	No.	
iii)	Powder coated twin punched outlet plate for fixing twin socket outlets.	11	No.	
iv)	Ditto but for data/telephone/single switched socket outlets.	12	No.	
v)	Carry out bonding throughout the entire length of the above trunking and connect to earthing.	1	Item	
3A.05	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for telecommunication services.	15	Lm	
3A.06	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the trunking for internal power reticulation and inter-connecting electrical service ducts.	12	Lm	
3A.07	Supply and Install adaptable box 400mmx400mm made in 16 SWG steel sheets finished in cream powder coating to Engineer's approval.	2	No.	
<u>POWER POINTS</u>				
3A.08	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories.	4	No.	
3A.09	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in trunking complete with all the necessary accessories.	10	No	
3A.10	13A switched white moulded case socket outlet plates as MK, Clipsal, BG, Crabtree or an approved equivalent. (a) Twin outlet. 14 No.	14	No.	
3A.11	Extract Fan's Power Point, comprising wiring in 3 x 2.5mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	2	No.	
3A.12	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	No.	
3A.13	Hand Drier's Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	2	No.	
Sub-Total C/F to the Next Page				

Sub-Total B/F from Previous Page					
	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	NO		
3A.15	Air Conditioner's Power Point, comprising wiring drawn in 3x2.5mm ² PVC-SC-CU cables in concealed 25mm Diameter HG PVC conduits complete with all accessories but excluding the D.P switch .	2	NO		
3A.16	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	NO		
3A.17	Undersink Water Heater's Power Point, comprising wiring in 3 x 4.0mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	1	NO		
3A.18	20A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	1	NO		
3A.19	Cooker (1-Φ) Power Point, comprising of 3x6mm PVC SC Copper cables drawn in concealed 25mm dia. HG PVC conduits complete with all accessories.	1	NO		
3A.20	45A DP Cooker Control Unit with 13A integral Socket Outlet and Pilot Lamp marked 'As Per Application' for item above as MK, MEM or approved equivalent.	1	NO		
3A.21	Cooker Connection Unit for flush mounting and wired from Cooker Control Unit. 1 No.	1	NO		
	<u>TELEVISION POINTS</u>				
a)	a) TV outlet point wired in 75 Ohms Screened Coaxial TV cables drawn in concealed 20mm diameter HG/PVC conduits and linked to the outside through the roof space (to the amplifier) via telephone draw in boxes.	2	NO		
b)	b) Moulded ivory TV outlet plate as MK, Clipsal, Crabtree or approved equivalent.	2	NO		
c)	c) Supply and Install draw box 300mmx250mmx150mm made in 16SWG steel sheets finished in cream powder coating to Engineer's approval.	1	NO		
	<u>DATA&TELEPHONE POINTS</u>				
3A.23	Data/Telephone outlet point done in 25mm dia. HG PVC conduits concealed in building fabric/ trunking complete with all necessary accessories.	4	NO		
	<u>CCTV SYSTEM POINTS</u>				
3A.24	CCTV System Points done in 25mm dia. HG PVC conduits concealed in building fabric/trunking complete with all necessary accessories (N/B: conduit length for each point running from the communication room is approximately 20m).	4	NO		
Sub-Total C/F to the Next Page					

	Sub-Total B/F from Previous Page				
	<u>INTERNAL POWER DISTRIBUTION</u>				
3A.25	6 Ways TPN, flush mounted Distribution Board complete with 100A integral isolator as Schneider Electric Easy 9 or an approved equivalent complete with all accessories but excluding MCBs.	1	No.		
3A.26	MCBs for item above				
i)	10A SP	2	No.		
ii)	20A SP	7	No.		
iii)	32A SP	2	No.		
iv)	45A SP	1	No.		
v)	SP Spareway	3	No.		
vi)	TP Spareway	1	No.		
3A.27	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	1	Item		
	<u>SUB-MAIN CABLING</u>				
3A.28	4x10mm ² + 1x6mm ² single core PVC insulated copper cables in 50mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	15	Lm		
3A.29	IP65 rated, standard cable loop-in box made of powder coated steel sheets of at least 14SWG complete with 50A, Three Phase Cut-out as Henleys or approved equivalent.	1	No.		
3A.30	Earthing cable loop-in box to Kenya Power (KP) standard complete with a manhole and cover.	1	Item		
3A.31	50A TPN MCCB to be mounted in the source Main LV Switchboard as ABB or approved equivalent.	1	No.		
3A.32	16mm ² 4Core PVC/SWA/PVC Copper cables complete with appropriate cable glands, lugs and any other necessary accessory.	25	Lm		
3A.33	Excavate trench for ducts and armoured cable at an average depth of 700mm, remove soft earth, lay ducts, cover with "DANGER-HATARI" tiles, back fill soft earth and compact to natural ground level to Engineer's Approval.	25	Lm		
3A.34	50mm dia. HG PVC ducts encased in concrete surround and buried at least 700mm below the finished ground level for electrical power supply cables.	25	Lm		
3A.35	Construct 450mm x 450mm x 700mm deep standard manhole complete with internal plastering and an air tight heavy duty steel cover clearly marked "POWER" to approval.	2	No		
	Total for Schedule No. 3A: Lighting & Power Installations - Office Block C/F to Price Collection Page - Schedule No.3: Office Block				

SCHEDULE NO. 3B: FIRE ALARM & DETECTION SYSTEM - OFFICE BLOCK

Supply, deliver, install and commission a complete Fire Detection and Alarm system, addressable type and in accordance with BS 5839 :2000, P2 and L2

3B.01	Outlet for Fire Alarm Panel's concealed 25mm HG PVC conduit, wiring in 3 x 2.5mm ² SC-PVC-CU fire rated cables and all accessories, including 5A fused unswitched connection unit with neon light.	1	NO.		
3B.02	Outlet for fire alarm manual call point/smoke/heat detector comprising box, concealed 20mm HG PVC conduit, wiring in 3 x 1.5mm ² fire rated cables and all accessories.	9	NO.		
3B.03	Addressable Manual Fire break glass call point unit as MENVIER or approved equivalent complete with a packet of 5 spare glasses, a packet of 5 spare test keys, a spare back box and a hinged cover to be installed recessed in building fabric.	1	NO.		
3B.04	Addressable Electronic Fire Alarm Sounder complete with Red Flashing Beacon Light as Menvier or approved equivalent.	1	NO.		
3B.05	Addressable Photometric Smoke Detector as Menvier or equal and approved.	6	NO.		
3B.06	Addressable Rate of Heat Rise Detector as Menvier MENVIER or equal and approved.	6	NO.		
3B.07	1 - Loop zone addressable fire alarm control panel complete with 2X12AH autonomous time emergency batteries as Menvier DF60001 or equal and approved.	1	NO.		
Total for Schedule No. 3B: Fire Alarm & Detection System - Office Block C/F to Price Collection Page for Schedule No. 3: Office Block					

<u>Supply, Install, Test & Commission the following: -</u> <u>CENTRALIZED ANTENNA SYSTEM</u>					
3C.01	Rustproof Satellite Receiver Dish with 4 way Low Noise Block (LNB) downconverter for DSTV complete with mounting brackets and installation	1	NO.		
3C.02	UHF aerials. 1 No.	1	NO.		
3C.03	VHF aerials. 1 No.	1	NO.		
3C.04	Mast head High gain amplifier units. 1 No.	1	NO.		
3C.05	Combiner unit for DSTV receiver and the UHF / VLF/VHF TV receivers as Ellies or approved equivalent	1	NO.		
3C.06	DSTV satellite decoder complete with 1 year premium subscription 1 No.	1	NO.		
3C.07	SWG, (300 x 300 x 300) mm ³ galvanised steel draw box for TV works.	2	NO.		
3C.08	High resolution RG TV cables for interwiring the antenna, combiner units, splitter units and amplifier.	120	LM		
3C.09	Four way splitters as Ellies or approved equivalent	2	NO.		
3C.10	13 Amp High voltage guard AVS 13 for the booster as Sollatec or approved equivalent	1	NO.		
3C.11	12U, IP55 wall mounted cabinet accessories, lock, key and extractor fan and 4 Way extension socket with USB Charger	1	NO.		
Total for Schedule No. 3C: Centralized Antenna System - Office Block C/F to Price Collection Page for					

3D: LIGHTNING PROTECTION, EARTHING AND BONDING SYSTEM - OFFICE BLOCK

Supply, install, test & commission the lightning protection system comprising the

following:

AIR TERMINATION

- | | | | | |
|-------|--|--------|--|--|
| 3D.01 | Supply and lay along the ridge cap 25mm X 3mm thick bare pure copper tape as Furse P. No. TC030 or approved equivalent. | 40 Lm. | | |
| 3D.02 | State Holdfast to fix the above tape at 1000mm intervals at the roof ridge for air termination system complete with tape jointing clamps and all the necessary accessories all as Furse Cat. No. HF015 or approved equivalent. | 40 No. | | |
| 3D.03 | Air Termination Spike (lightning arrestors) comprising 2000mm by 15mm diameter copper rod as Furse P.No. RA240 complete with; Copper Multiple Point as Furse P. No. RA 600 and Copper Ridge Saddle as Furse P. No. SD115 or approved equivalent. | 1 No. | | |

DOWNWARD CONDUCTOR

- | | | | | |
|-------|--|--------|--|--|
| 3D.04 | Downward Conductor comprising 25mm X 3mm thick bare pure copper tape as Furse. | 20 Lm. | | |
| 3D.05 | Copper Square Tape Clamp for making crossing tape joints as Furse CT 105 - FU or approved equivalent. | 4 No. | | |
| 3D.06 | DC Tape Clips for Fixing the Down Conductors to the wall as Furse CT 105-FU or approved equivalent. | 20 No. | | |
| 3D.07 | Copper Oblong Test/Junction Clamp complete with phosphor bronze nuts, washers and screws mounted 1800mm above finished ground level as Furse P. No. CN 105 or approved equivalent. | 2 No. | | |
| 3D.08 | 32 mm diameter galvanised steel conduit recessed in wall between test clamp and ground and through the ring beam for sleeving at roof level for securing the down conductors. | 5 Lm | | |
| 3D.09 | Copper Saddles fixed at 1000mm intervals at the surface on wall for the down conductor system complete with all the necessary accessories all as FURSE or approved equivalent. | 20 No. | | |

EARTHING

- | | | | | |
|-------|---|-------|--|--|
| 3D.10 | Earth Inspection Concrete Chamber 300mm x 300mm x 300mm with an air tight inspection cover to approval. | 2 No. | | |
| 3D.11 | Earthing with 16mm nominal diameter by 1500mm long threaded copper bond earth rods, complete with driving head and clamp. | 2 No. | | |
| 3D.12 | Driving Stud for the Item above as Furse ST 300 or approved equivalent. | 2 No. | | |
| 3D.13 | Earth Electrode Rod-to-Downward Conductor Copper Tape Clamps as Furse CR 105 or approved equivalent. | 2 No. | | |

Sub-Total C/F to the Next Page

Sub-Total B/F from Previous Page					
3D.14	<p>1500mm x 1500mm copper earth mat/grid (pure copper electrode) made from 25mm x 3mm thick bare copper tape (as Furse P. No. TC030 or approved equivalent). Copper tape to be spaced at 200mm interval, gas welded joints to Engineer's approval and 6m long 25mm x 3mm insulated copper tape clamped to the down conductors. Include burying the assembled grid to a minimum depth of 750mm below ground finish level (at permanent moisture level) and improving the earth to Engineer's approval. The measured earth resistance to be less than one (1) ohm.</p> <p><u>BONDING</u></p>	2	No.		
3D.15	<p>Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, airconditioning its, window frames, cladding, metal roof etc and the main earth for the building.</p>	1	Item		
3D.16	<p>Testing and Commissioning the entire earthing and lightning protection system.</p>	1	Item		
<p>Total for Schedule No. 3D: Lightning Protection, Earthing and Bonding System - Office Block C/F to Price Collection Page for Schedule No. 3: Office Block</p>					

PRICE COLLECTION PAGE

SCHEDULE NO. 3: OFFICE BLOCK

Total for Schedule No. 3A: Lighting & Power Installations - Office Block

Total for Schedule No. 3B: Fire Alarm & Detection System - Office Block

Total for Schedule No. 3C: Centralized Antenna System - Office Block

Total for Schedule No. 3D: Lightning Protection, Earthing & Bonding System - Office Block

Total for Schedule No. 3: Office Block C/F to PPrice Summary Page for Electrical Installation Works

BILL NO. 2 - SCHEDULE NO. 4: ABLUTION BLOCK

Supply, Install, test and commission the following :

- | | | | | |
|------|---|----|-----|--|
| 4.01 | Lighting points comprising wiring in 3x1.5mm ² Single Core PVC insulated Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:- | | | |
| a) | One Way Switching. | 22 | No. | |
| b) | Two Way Switching. | 6 | No. | |
| 4.02 | 10A moulded ivory switch plates as MK, BG, Crabtree or approved equivalent as follows: | | | |
| a) | 1 gang 1 way | 6 | No. | |
| b) | 1 gang 2 way | 7 | No. | |
| c) | 3 gang 1 way | 8 | No. | |

LIGHTING FITTINGS

- | | | | | |
|------|---|----|-----|--|
| 4.03 | Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows: | 12 | No. | |
| a) | 18W, 200mm diameter, recess mounted, LED circular ceiling light, IP65, with daylight white output and Long lamp life above 50,000 hours as Philips, LEDVANCE or approved equivalent | | | |
| b) | 1200mm, IP65 rated, recess mounted, single LED fitting with 28W, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips, ThornEco Julie 1200 LED or approved equivalent | 6 | NO. | |
| c) | 1200mm, IP66 rated, single, LED fitting, 21W, 4000K, tough exterior, moist proof and average lifetime of 50,000hrs for mirror lighting as Philips, Thorn or approved equivalent | 4 | No. | |
| d) | LED security light fixture of 30W, 6500K daylight white, 3300lm, Black body, IP65, Frosted cover made of tempered glass for uniform illumination and average lifetime of 50,000hrs as Osram LEDVANCE, Philips, Thorn or approved equivalent | 6 | NO. | |

POWER POINTS

- | | | | | |
|------|---|---|-----|--|
| 4.04 | Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories. | 2 | No. | |
| 4.05 | 13A switched white moulded case socket outlet plates as MK, Clipsal, BG, Crabtree or an approved equivalent. | | | |
| (a) | Twin outlet. | 2 | No. | |
| 4.06 | Extract Fan's Power Point, comprising wiring in 3 x 2.5mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch. | 2 | No. | |

Sub-Total C/F to the Next Page

	Sub-Total B/F from Previous Page			
4.07	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	No.	
4.08	Hand Drier's Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	2	No.	
4.09	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2	No.	
4.1	Instantaneous Shower Water Heater's Power Point, comprising wiring in 3 x 4.0mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	1	No.	
4.11	20A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	1	No.	
	<u>INTERNAL POWER DISTRIBUTION</u>			
4.12	12 Ways SPN, flush mounted Consumer Control Unit complete with 100A integral isolator as Schneider Electric Easy 9 or an approved equivalent complete with all accessories but excluding MCBs.	1	No.	
4.13	MCBs for item above			
	i) 10A SP 2 No.	2	no.	
	ii) 20A SP 6 No.	6	no.	
	iii) 32A SP 1 No.	1	no.	
	iv) SP Spareway 3 No.	3	no.	
4.14	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	1	Item	
	<u>SUB-MAIN CABLING</u>			
4.15	3x10mm ² single core PVC insulated copper cables in 38mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	10	Lm	
4.16	IP65 rated, standard cable loop-in box made of powder coated steel sheets of at least 14SWG complete with 63A, Single Phase Cut-out c/w a neutral block as Henleys or approved equivalent.	1	no.	
	Sub-Total C/F to the Next Page			

Sub-Total B/F from Previous Page					
4.17	Earthing cable loop-in box to Kenya Power (KP) standard complete with a manhole and cover equivalent.	1	Item		
4.18	63A DP MCB to be mounted in the source Main LV Switchboard as ABB or approved	1	No		
4.19	Supply and Install adaptable box 400mmx400mm made in 16 SWG steel sheets finished in cream powder coating to Engineer's approval.	2	No.		
4.2	16mm ² 2Core PVC/SWA/PVC Copper cables complete with appropriate cable glands, lugs and any other necessary accessory.	30	Lm.		
4.21	Excavate trench for ducts and armoured cable at an average depth of 700mm, remove soft earth, lay ducts, cover with "DANGER-HATARI" tiles, back fill soft earth and compact to natural ground level to Engineer's Approval.	30	lm		
4.22	50mm dia. HG PVC ducts encased in concrete surround and buried at least 700mm below the finished ground level for electrical power supply cables.	30	lm		
4.23	Construct 450mm x 450mm x 700mm deep standard manhole complete with internal plastering and an air tight heavy duty steel cover clearly marked "POWER" to approval.	2	No.		
Total for Schedule No. 4: Ablution Block C/F to Price Summary Page for Electrical Installation Works					

BILL NO. 2 - SCHEDULE NO. 5: POWER HOUSE

Supply, Install, test and commission the following :

- | | | | | |
|------|---|---|-----|--|
| 5.01 | Lighting points comprising wiring in 3x1.5mm ² Single Core PVC insulated Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:- | | | |
| a) | One Way Switching. | 7 | no. | |
| b) | Two Way Switching. | 3 | no. | |
| 5.02 | 10A moulded ivory switch plates as MK, BG, Crabtree or approved equivalent as follows: | | | |
| a) | 1 gang 1 way | 2 | no. | |
| b) | 1 gang 2 way | 2 | no. | |

LIGHTING FITTINGS

- | | | | | |
|------|---|---|-----|--|
| 5.03 | Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows:
(a) 1200mm, IP65 rated, recess mounted, single LED fitting with 28W, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips, ThornEco Julie 1200 LED or approved equivalent | 7 | No. | |
| b) | LED security light fixture of 30W, 6500K daylight white, 3300lm, Black body, IP65, Frosted cover made of tempered glass for uniform illumination and average lifetime of 50,000hrs as Osram LEDVANCE, Philips, Thorn or approved equivalent | 3 | No. | |

POWER POINTS

- | | | | | |
|------|--|---|-----|--|
| 5.04 | Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories. | 4 | No. | |
| 5.05 | 13A switched white moulded case socket outlet plates as MK, Clipsal, BG, Crabtree or an approved equivalent. | | | |
| a) | Twin outlet. | 4 | No. | |

INTERNAL POWER DISTRIBUTION

- | | | | | |
|------|--|---|-----|--|
| 5.06 | 6 Ways SPN, flush mounted Consumer Control Unit complete with 63A integral isolator as Schneider Electric Easy 9 or an approved equivalent complete with all accessories but excluding MCBs. | 1 | No. | |
| 5.07 | MCBs for item above | | | |
| i) | 10A SP | 1 | No. | |
| ii) | 32A SP | 2 | No. | |

Sub-Total C/F to the Next Page

	Sub-Total B/F from Previous Page				
iii)	SP Spareway	4	No.		
5.08	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	1	Item		
	<u>SUB-MAIN CABLING</u>				
5.09	3x6mm ² single core PVC insulated copper cables in 32mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	15	Lm.		
5.1	32A DP MCB to be mounted in the source Main LV Switchboard as ABB or approved equivalent.	1	No.		
	Total for Schedule No. 5: Power House C/F to Price Summary Page for Electrical Installation Works				

<u>BILL NO. 2 - SCHEDULE NO. 6: PUMP HOUSE</u>				
<u>Supply, Install, test and commission the following :</u>				
6.01	Lighting points comprising wiring in 3x1.5mm ² Single Core PVC insulated Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:-			
	a) One Way Switching.	22	No.	
	b) Two Way Switching.	6	No.	
6.02	10A moulded ivory switch plates as MK, BG, Crabtree or approved equivalent as follows:			
	a) 1 gang 1 way	6	No.	
	b) 1 gang 2 way .	4	No.	
<u>LIGHTING FITTINGS</u>				
6.03	Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows:	7	No.	
	(a) 1200mm, IP65 rated, recess mounted, single LED fitting with 28W, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips, ThornEco Julie 1200 LED or approved equivalent			
	(b) LED security light fixture of 30W, 6500K daylight white, 3300lm, Black body, IP65, Frosted cover made of tempered glass for uniform illumination and average lifetime of 50,000hrs as Osram LEDVANCE, Philips, Thorn or approved equivalent	3	No.	
<u>POWER POINTS</u>				
6.04	Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories.	2	No.	
6.05	13A switched white moulded case socket outlet plates as MK, Clipsal, BG, Crabtree or an approved equivalent.			
	a) (a) Twin outlet.	2	No.	
<u>BOREHOLE PUMPSET (8KW)</u>				
6.06	10mm ² 4Core PVC/SWA/PVC Copper cables complete with appropriate cable glands, lugs and any other necessary accessory from Main LV Board to the Borehole's cable loop-in box.	60	Lm	
6.07	IP65 rated, standard cable loop-in box made of powder coated steel sheets of at least 14SWG complete with 40A, Three Phase Cut-out c/w a neutral block as Henleys or approved equivalent.	1	No.	
6.08	Earthing cable loop-in box to Kenya Power (KP) standard complete with a manhole and cover.	1	Item	
6.09	16ATPN MCCB as ABB or approved equivalent to be mounted in the Cable Loop-in Box to feed the Pumps cable.	1	No.	
Sub-Total C/F to the Next Page				

Sub-Total B/F from Previous Page					
6.10	5x4mm ² pvc insulated single core copper cables in 38mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory.	10	Lm		
6.11	16A TP Isolator as MK, Crabtree or approved equivalent.	1	No.		
6.12	Excavate trench for ducts and armoured cable at an average depth of 700mm, remove soft earth, lay ducts, cover with "DANGER-HATARI" tiles, back fill soft earth and compact to natural ground level to Engineer's Approval.	60	Lm		
6.13	50mm dia. HG PVC ducts encased in concrete surround and buried at least 700mm below the finished ground level for electrical power supply cables.	60	Lm		
6.14	Construct 450mm x 450mm x 700mm deep standard manhole complete with internal plastering and an air tight heavy duty steel cover clearly marked "POWER" to approval.	4	No.		
<u>WATER TREATMENT PUMPSET (1.5KW)</u>					
6.15	Pump's Motor Power Point wired in 3x2.5mm ² pvc insulated single core copper cables in 25mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	10	Lm		
6.16	10A SPN Isolator as MK, Crabtree or approved equivalent.	1	No.		
6.17	10A DP Control Switch with neon light as MK, Crabtree or approved equivalent.	1	No.		
<u>HOSE REEL PUMPSET (1.5KW)</u>					
6.18	Pump's Motor Power Point wired in 3x2.5mm ² pvc insulated single core copper cables in 25mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	10	Lm.		
6.19	10A SPN Isolator as MK, Crabtree or approved equivalent.	1	No.		
6.20	10A DP Control Switch with neon light as MK, Crabtree or approved equivalent.	1	No.		
<u>INTERNAL POWER DISTRIBUTION</u>					
6.21	6 Ways TPN, flush mounted Distribution Board complete with 63A integral isolator as Schneider Electric Easy 9 or an approved equivalent complete with all accessories but excluding MCBs.	1	No.		
6.22	MCBs for item above				
i)	10A SP	3	No.		
ii)	32A SP	1	No.		
Sub-Total C/F to the Next Page					

	Sub-Total B/F from Previous Page				
iii)	(40A TP	1	No.		
iv)	SP Spareway	5	No.		
v)	TP Spareway	2	No.		
6.23	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above. 1 Item	1	Item		
	<u>SUB-MAIN CABLING</u>				
6.24	4x10mm ² + 1x6mm ² single core PVC insulated copper cables in 50mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	10	Lm.		
6.25	IP65 rated, standard cable loop-in box made of powder coated steel sheets of at least 14SWG complete with 32A, Three Phase Cut-out as Henleys or approved equivalent.	1	No.		
6.26	Earthing cable loop-in box to Kenya Power (KP) standard complete with a manhole and cover.	1	Item		
6.27	32A TPN MCCB to be mounted in the source Main LV Switchboard as ABB or approved equivalent.	1	No.		
6.28	10mm ² 4Core PVC/SWA/PVC Copper cables complete with appropriate cable glands, lugs and any other necessary accessory.	20	Lm.		
6.29	Excavate trench for ducts and armoured cable at an average depth of 700mm, remove soft earth, lay ducts, cover with "DANGER-HATARI" tiles, back fill soft earth and compact to natural ground level to Engineer's Approval.	20	Lm.		
6.3	50mm dia. HG PVC ducts encased in concrete surround and buried at least 700mm below the finished ground level for electrical power supply cables.	20	Lm.		
6.31	Construct 450mm x 450mm x 700mm deep standard manhole complete with internal plastering and an air tight heavy duty steel cover clearly marked "POWER" to approval.	2	No.		
	Total for Schedule No. 6: Pump House C/F to Price Summary Page for Electrical Installation Works				

BILL NO. 2 - SCHEDULE NO. 7: GATE HOUSE

Supply, Install, test and commission the following :

- | | | | | |
|------|--|-------------------------|--|--|
| 7.01 | Lighting points comprising wiring in 3x1.5mm ² Single Core PVC insulated Copper Cables drawn in concealed 20mm Diameter HG PVC conduits complete with all necessary accessories but excluding switches for:-
(a) One Way Switching. 14 No.
(b) Two Way Switching. 4 No. | 14 No.
4 No. | | |
| 7.02 | 10A moulded ivory switch plates as MK, BG, Crabtree or approved equivalent as follows:
a) 1 gang 1 way 4 No.
b) 1 gang 2 way 2 No.
c) 3 gang 1 way 2 No. | 4 No.
2 No.
2 No. | | |

LIGHTING FITTINGS

- | | | | | |
|------|---|--|--|--|
| 7.03 | Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows:
a) 600x600mm, Ceiling LED Panel Lighting Fitting, Surface Mountable, 40W, 4000K, with High efficiency LED panel delivering 100lm/W and an average lifetime of 50,000 hrs as Philips, Osram LEDvance or approved equivalent.

b) 18W, 200mm diameter, recess mounted, LED circular ceiling light, IP44 with daylight white output and Long lamp life above 50,000 hours as Philips, LEDVANCE or approved equivalent.

c) 1200mm, IP66 rated, single, LED fitting, 21W, 4000K, tough exterior, moist proof and average lifetime of 50,000hrs for mirror lighting as Philips, Thorn or approved equivalent

d) LED security light fixture of 30W, 6500K daylight white, 3300lm, Black body, IP65, Frosted cover made of tempered glass for uniform illumination and average lifetime of 50,000hrs as Osram LEDVANCE, Philips, Thorn or approved equivalent | 6 No.

6 No.

2 No.

4 No. | | |
|------|---|--|--|--|

POWER POINTS

- | | | | | |
|------|---|-------|--|--|
| 7.04 | Ring mains socket outlets comprising wiring in 3x2.5mm sq. single core PVC insulated copper cables drawn in concealed 25 mm diameter Heavy Gauge PVC conduits complete with all the necessary accessories. | 6 No. | | |
| 7.05 | 13A switched white moulded case socket outlet plates as MK, Clipsal, BG, Crabtree or an approved equivalent.
a) Twin outlet. | 6 No. | | |
| 7.05 | Extract Fan's Power Point , comprising wiring in 3 x 2.5mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch. | 2 No. | | |

Sub-Total C/F to the Next Page

Sub-Total B/F from Previous Page					
7.07	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2 No.			
7.08	Hand Drier's Power Point, wired in 3x 2.5sq mm PVC SC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	2 No.			
7.09	13A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	2 No.			
7.1	Instantaneous Shower Water Heater's Power Point, comprising wiring in 3 x 4.0mm ² PVC insulated single core copper cables drawn in concealed 25mm Dia. HG/PVC conduits complete with all necessary accessories but excluding the D.P switch.	1 No.			
7.11	20A double pole control switch plates with neon light as MK, BG, Crabtree or approved equivalent	1 No.			
<u>INTERNAL POWER DISTRIBUTION</u>					
7.12	12 Ways SPN, flush mounted Consumer Control Unit complete with 100A integral isolator as Schneider Electric Easy 9 or an approved equivalent complete with all accessories but excluding MCBs.	1 No.			
7.13	MCBs for item above				
	i) 10A SP	2 No.			
	ii) 20A SP	6 No.			
	iii) 32A SP	1 No.			
	iv) (SP Spareway	3 No.			
7.14	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	1 Item			
<u>SUB-MAIN CABLING</u>					
7.15	3x10mm ² single core PVC insulated copper cables in 38mmØ concealed HG PVC conduits complete with appropriate cable glands and any other necessary accessory	10 Lm.			
7.16	IP65 rated, standard cable loop-in box made of powder coated steel sheets of at least 14SWG complete with 63A, Single Phase Cut-out c/w a neutral block as Henleys or approved equivalent.	1 No.			
Sub-Total C/F to the Next Page					

Sub-Total B/F from Previous Page				
7.17	Earthing cable loop-in box to Kenya Power (KP) standard complete with a manhole and cover.	1	Item	
7.18	63A DP MCB to be mounted in the source Main LV Switchboard as ABB or approved equivalent.	1	No.	
7.19	Supply and Install adaptable box 400mmx400mm made in 16 SWG steel sheets finished in cream powder coating to Engineer's approval.	2	No.	
7.2	16mm ² 2Core PVC/SWA/PVC Copper cables complete with appropriate cable glands, lugs and any other necessary accessory.	30	Lm.	
7.21	Excavate trench for ducts and armoured cable at an average depth of 700mm, remove soft earth, lay ducts, cover with "DANGER-HATARI" tiles, back fill soft earth and compact to natural ground level to Engineer's Approval.	30	Lm.	
7.22	50mm dia. HG PVC ducts encased in concrete surround and buried at least 700mm below the finished ground level for electrical power supply cables.	30	Lm.	
7.23	Construct 450mm x 450mm x 700mm deep standard manhole complete with internal plastering and an air tight heavy duty steel cover clearly marked "POWER" to approval.	2	No.	
Total for Schedule No. 7: Gate House C/F to Price Summary Page for Electrical Installation Works				

SCHEDULE NO. 8: AREA LIGHTING**Supply, install, test and commission the following :-****AREA LIGHTING**

8.01	7.0 Meters outdoor/street lighting galvanized steel round column for side entry single arm painted with rust proof aluminum paint in concrete 1:2:4 ratio foundation, glanding plates and with a lockable anti-vandalism door.	38	No.		
8.02	4-pole Lucy connector mounted on street lighting columns. 38 No	38	No.		
8.03	Side entry road lighting lantern for 100W, sealed to IP65 outdoor LED FloodLight complete with mounting brackets to the poles above as Nikkon, Philips or approved equivalent.	32	No.		
8.04	120w, Integrated All in One LED solar street light made of die-cast aluminium, IP66 rated, with high quality LED chip, high efficiency of at least 150lm/W and CCT of 3000K complete with mounting brackets to the pole (specified elsewhere) as Nikkon, Philips or an approved equivalent.	6	No.		
8.05	Wiring from lighting fitting to the cut-out fuses with 1.5mm ² twin PVC with ECC for street/outdoor lighting column between lacy connector and lantern	220	Lm		
8.06	5A, MCB and all other necessary accessories.	38	No.		
8.07	2 core, 6mm ² for street lighting PVC/SWA/PVC copper cables complete with appropriate cable lugs, cable glands and any other necessary accessory (Switchboard to Control Pillar).	170	Lm.		
8.08	Allow for Earthing at every third pole interval and the control pillars. The contractor to ensure that the earth resistance does not exceed 10 Ohms.	11	No.		
8.09	2 core, 4mm ² for street lighting PVC/SWA/PVC copper cables complete with appropriate cable glands and any other necessary accessory (from Control Pillar to Garden/Street Lights).	600	Lm.		
	Trenching at an average depth of 700mm, Cable Laying, Tiling with "HATARI" tiles and Backfilling of the trenches with soil and compact to natural ground level for the above cable to Engineer's Approval.	700	Lm.		
8.11	HG PVC conduit of size 50mm diameter from Control Pillar to streetlighting poles power reticulation and data services.	700	Lm.		
8.12	30A SP 300mA residual circuit breaker with overload and short circuit protection (RCBO) to be mounted inside the control pillar As Hager, Telemecanique or equal and approved	2	No.		
8.13	An astronomical street light Time Switch of DIN Rail installation type, shortest switching time <1min, power consumption <4VA, IP20 rated or better, astronomical programmable time switch as Panasonic or approved equivalent	2	No.		
8.14	30A, 240V 1-pole contactor as manufactured by Telemecanique or approved equivalent, to be installed inside the control pillar.	2	No.		
Sub-Total C/F to the Next Page					

Sub-Total B/F from Previous Page					
8.15	200mm x 450mm x 600mm, Weather Proof, Lockable (with hinged door) Control Pillar made in 14 SWG galvanized steel sheet as per Engineer's drawing spray painted with rust proof paint and made with a provision for mounting the following: a 1 -pole contactor, 1No. 63A SPN switch fuse, RCBO and a 6-way Consumer Unit. The Control Pillar to be secured at 450mm above ground in concrete 1:2:4 ratio extending to 450mm below ground.	2	No.		
8.16	Allow for inter-wiring within the Control Pillar	2	Item		
8.17	Earthing to Kenya Power (KP) standard at the board complete with manhole and cover.	1	Item		
8.18	6 ways, SPN, flush mounted consumer unit complete with 100A integral isolator as C&S, SCHNEIDER ELECTRIC, HAGER or approved equivalent complete with all accessories but excluding MCBs.	2	No.		
8.19	MCBs for item above				
	i) 10A SP	4	No.		
	ii) SP Spareway	8	No.		
8.2	Carry out concise permanent traffolyte labeling for all the sub-circuits in item above.	2	Item		
Total for Schedule No. 8: Area Lighting C/F to Price Summary Page for Electrical Installation Works					

Supply, Install, test and commission the following :

MAIN DISTRIBUTION SWITCHBOARD

9.01 Supply, install, test and commission a Free-standing, dustproof & weatherproof (i.e. IP66 rated), purpose made front access, lockable, perspex viewing window for each section, Sealable studs for all cover plate screws and all necessary accessories, cubicle type, Main LV Switchboard manufactured in 12SWG galvanised mild steel sheet and finished in cream (or approved colour) powder coating as described below, shown on the schematic and other details as per Particular Specification.
This LV Sub-switchboard shall to be 3-phase, 415V with 1000A TP+N+E Bus-bars and bus-bar connections consisting of high conductivity copper to BS 158 and BS 159, in Bus-Bars Chamber .
To be manufactured by either Schneider Electric Kenya or Specialised Power Systems or an approved manufacturer. It shall also fabricated complete with the following details:-

a) Incoming

- i) 1No. 800A TPN MCCB with Shunt Trip as Merlin Gerin or approved equivalent.
- ii) 1No. Voltmeter 0-600V plus selector switch.
- iii) 1No. Ammeter plus selector switch with C.T.s (600/5)
- iv) 3No. Phase indicating lights
- v) 1No. Power factor meter
- vi) All power system parameters (KW, KVA, KWHr, KVARs, Frequency, P.F., harmonics etc.). The multimeter should be complete with selector switches for viewing/displaying the various parameters.

b) Outgoing

- i) 1No. 200A TPN MCCB feeder to the Sub-Switchboard No. 1 at Value Addition Warehouses as ABB or approved equivalent.
 - ii) 1No. 630A TPN MCCB feeder to the Sub-Switchboard No. 2 at Aggregation & Cold Storage Warehouses as ABB or approved equivalent.
 - ii) 1No. 50A TPN MCCB feeder to the Cable Loop-ing Box at Office Block as ABB or approved equivalent.
 - ii) 2No. 32A DP MCB feeder to the 2No. Cable Loop-ing Boxes at Ablution Block & Gate House as ABB or approved equivalent.
 - iii) 1No. 32A TPN MCCB feeder to the CLB at the Pump House as ABB or approved equivalent.
 - iv) 2No. 32A DP MCB feeder to Street Lighting control pillar & Power House's Consumer Unit as ABB or approved equivalent.
 - v) A suitably rated 415V three-phase surge diverter as Furse ESP 415, fully wired, complete with enclosure with viewing window.
 - vi) Space for 3No. TPN MCCBs
 - vii) Space for 4No. SPN MCCBs
- Sub-Total

1 Item

Sub-Total C/F to the Next Page

Sub-Total B/F from Previous Page					
c)	Carry out comprehensive labeling of all the bus bars. CT chambers, circuit breakers etc. above, indicating the areas served, outgoing cable sizes etc.				
d)	Carry out concise load balancing to achieve a maximum imbalance not greater than + 10% between any two phases, measured at the Main LV switchboard	1	Lot		
<u>POWER FACTOR CORRECTION</u>					
9.02	180KVARs digital programmed modular type automatic power factor correction capacitor bank switched in 2 steps of 30 KVARs, 3 steps of 20 KVARs, 4 steps of 10KVARs and 4 steps of 5 KVARs as that manufactured by POWER TECHNICS complete with alarm for low power factor, switching MCBs, contactor controls and interwiring to facilitate dropping out of the capacitor bank in the event of mains power failure to avoid disorientating the generator AVR modules.. The bank to be made from low-loss bio-degradable compactive units, complete with common firmly bonded/earthed metallic enclosure made from 14 gauge cream powder coated galvanised steel sheets. The PFC bank to be an integrated in the Switchboard in item 1F.18 above	1	No.		
<u>COMPREHENSIVE PROTECTIVE MULTIPLE EARTHING</u>					
9.03	Earthing of the subboard in accordance with KP&L company requirements, IET regulations,the government Electrical Installations regulations and other statutory requirements comprising but not limited to the following	1	No.		
a)	Establish 600x600x700mm deep earthing chamber, complete with internal plastering, and heavy duty EAFW steel cover clearly marked "EARTH".				
b)	25mm X 3mm pure copper tape as Furse	20	Lm.		
	Pure copper earth rod (1500mm x 16mm)	4	No.		
	Driving head for earth rod	5	No.		
	Tape to earth rod clamp as Furse	6	No.		
	25mm2 single core green PVC insulated copper earth lead 20 Lm.	20	Lm.		
9.04	<u>POWER DISTRIBUTION CABLING</u>				
a)	25mm sq. 4-core PVC/SWA/PVC 90 C thermosetting insulated Copper Cable complete with appropriate cable lugs, cable glands complete with plastic sleeves and all necessary accesories.	70	Lm.		
Sub-Total C/F to the Next Page					

Sub-Total B/F from Previous Page					
b)	4x240mm sq. + 1x120mm sq. 4-core XLPE insulated armoured Copper Cable for connection of the Sub-Switchboard No. 2 inside Aggregation Warehouse to the Main Switchboard complete with appropriate cable lugs, cable glands complete with plastic sleeves and all necessary accessories.	75 Lm.			
c)	95mm sq. 4-core PVC/SWA/PVC 90 C thermosetting insulated Copper Cable for connection of the Sub-Switchboard No. 1 inside Value Addition Warehouse to the Main Switchboard complete with appropriate cable lugs, cable glands complete with plastic sleeves and all necessary accessories.	110 Lm.			
9.05	<u>EXTERNAL POWER RETICULATION</u>				
a)	100mm dia. HG PVC duct encased in concrete surround buried 600mm underground for power supply cable way along road and parking crossings.	100 Lm.			
b)	Establish 600 x 550 x 700mm deep standard power manholes, complete with internal plastering, and heavy duty EAFW steel cover.	4 No.			
c)	Establish 450 x 450 x 700mm deep standard data/telephone manholes, complete with internal plastering, and heavy duty EAFW steel cover.	5 No.			
d)	70mm diameter HG PVC ducts encased in concrete surround buried in ground for streetlighting cables.	100 Lm.			
e)	Excavate trenches for ducts and armoured cables above, average depth 700mm, remove soft earth, lay ducts, cover with "DANGER-HATARI" tiles, back fill soft earth and compact to natural ground level.	100 Lm.			
Total for Schedule No. 9: Main Switchboard, Power Distribution & Reticulation C/F to Price Summary Page for Electrical Installation Works					

SCHEDULE NO. 10: PROJECT MANAGER'S STATIONERY

Supply and deliver to the Project Manager the following stationery to be used in running the project:

10.01	Photocopying paper white A4 80g/M2 (Reams)	5 No.			
10.02	Letterhead quality paper as CONQUERER or equal and approved cream 80g/m3	1 Ream			
10.03	A4 size translucent PVC covers as KATKO or approved equivalent, 100 sheets blue in colour and 0.2mm thick	2 Pkts			
10.04	A4 size Embossed covers as KATKO or approved equivalent, 100 sheets blue in colour	2 Pkts			
10.05	22mm diameter spiral binders black in colour	2 Pkts			
10.06	HP Laser Jet Cartridges				
	i) CE505A	2 No.			
	ii) CF226A .	3 No.			
10.07	Kyocera Task Alfa Toner/Cartridge TK-8735K (complete set of Black-Cyan-Magenta - Yellow)	1 No.			
10.08	4TB Portable Harddisk as Hp/Transcend/Toshiba.	2 No.			
Total for Schedule No. 10: Project Manager's Stationery C/F to Price Summary					
Page for Electrical Installation Works					

SCHEDULE NO. 11: KENYA POWER CONNECTION WORKS

11.01 Charges for supply & installation of a suitably rated Three Phase Transformer,
Construction of Powerlines and Service line connectivity by Kenya Power

1 Item

11.02 Attendance and liason with Kenya Power

10 %

**Total for Schedule No. 11: Kenya Power Connection Works C/F to Price Summary
Page for Electrical Installation Works**

PRICE SUMMARY PAGE

ELECTRICAL INSTALLATION WORKS

1.00	TOTAL FOR BILL NO. 1: SUB-CONTRACT PRELIMINARIES				
2.00	TOTAL FOR SCHEDULE NO. 1: VALUE ADDITION (V.A.) WAREHOUSES (4NO. TYPICAL 1,000M2 WAREHOUSES)				
3.00	TOTAL FOR SCHEDULE NO. 2: AGGREGATION & COLD STORAGE (A.C.S.) WAREHOUSES (4NO. TYPICAL 1,000M2 WAREHOUSES)				
4.00	TOTAL FOR SCHEDULE NO. 3: OFFICE BLOCK				
5.00	TOTAL FOR SCHEDULE NO. 4: ABLUTION BLOCK				
6.00	TOTAL FOR SCHEDULE NO. 5: POWER HOUSE				
7.00	TOTAL FOR SCHEDULE NO. 6: PUMP HOUSE				
8.00	TOTAL FOR SCHEDULE NO. 7: GATE HOUSE				
9.00	TOTAL FOR SCHEDULE NO. 8: AREA LIGHTING				
10.00	TOTAL FOR SCHEDULE NO. 9: MAIN SWITCHBOARD, POWER DISTRIBUTION & RETICULATION				
11.00	TOTAL FOR SCHEDULE NO. 10: PROJECT MANAGER'S STATIONERY				
12.00	TOTAL FOR SCHEDULE NO. 11: KENYA POWER CONNECTION WORKS				
<u>TOTAL FOR ELECTRICAL INSTALLATION WORKS CARRIED TO GRAND PRICE SUMMARY PAGE OF VOL. 1 OF 3 FOR MAIN WORKS</u>					

SECTIONAL SUMMARY-BUILDERS WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SECTIONAL SUMMARY-BUILDERS WORKS</u>				
1	AGGREGATION WAREHOUSE & COLD STORAGES				
2	VALUE ADDITION WAREHOUSES				
3	BOUNDARY WALL				
4	OFFICE BLOCK				
5	POWER HOUSE				
6	PUMP HOUSE				
7	ABLUTION BLOCK				
8	CIVIL WORKS				
	BUILDERS WORKS SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>GRAND SUMMARY</u>				
	PARTICULAR PRELIMINARIES				
	GENERAL PRELIMINARIES				
	VOL 1:MAIN WORKS (BUILDERS AND CIVIL)				
	VOL 2:MECHANICAL INSTALLATION WORKS				
	VOL 3:ELECTRICAL INSTALLATION WORKS				
	TOTAL AMOUNT CARRIED TO FORM OF TENDER(INCLUSIVE OF VAT)				

GRAND SUMMARY.

Item	GRAND SUMMARY				AMOUNT
	<p><u>GRAND SUMMARY</u></p> <p>PARTICULAR PRELIMINARIES</p> <p>GENERAL PRELIMINARIES</p> <p>VOL 1:MAIN WORKS (BUILDERS AND CIVIL)</p> <p>VOL 2:MECHANICAL INSTALLATION WORKS</p> <p>VOL 3:ELECTRICAL INSTALLATION WORKS</p> <p>TOTAL CARRIED TO FORM OF TENDER (Rates are V.A.T Inclusive)</p> <p>Amount in words</p> <p>Official stamp</p> <p>Signed:.....</p> <p>Date:.....</p> <p>Signed.....</p> <p><u>Witness</u></p> <p>Name.....</p> <p>Address.....</p> <p>Date.....</p>				

5. The Summary to the Bills of Quantities will take this form or some other form but including these items.

SUMMARY ITEMS	<i>Page</i>	<i>Amount</i>
Bill No. 1: Preliminary Items		
Bill No. 2: Work Items		
Bill No 3: Daywork Summary		
Bill No 4: Provisional Sums		
Subtotal of Bills No 1-4		
Allow for any Discounts ¹		
TOTAL TENDER PRICE Carried forward to Form of Tender		

SECTION VIII - GENERAL CONDITIONS OF CONTRACT

These General Conditions of Contract (GCC), read in conjunction with the Special Conditions of Contract (SCC) and 61 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.

General Conditions of Contract

A. General

1. Definitions

1.1 Bold face 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 Procuring Entity and the Contractor to resolve disputes in the first instance, as provided for in GCC 23.
- d) **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid.
- e) **Compensation Events** are those defined in GCC Clause 42 hereunder.
- f) **The Completion Date** is the date of completion of the Works as certified by the Project Manager, in accordance with GCC Sub-Clause 53.1.
- g) **The Contract** is the Contract between the Procuring Entity and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC Sub-Clause 2.3 below.
- h) **The Contractor** is the party whose Bid to carry out the Works has been accepted by the Procuring Entity.
- i) **The Contractor's Bid** is the completed bidding document submitted by the Contractor to the Procuring Entity.
- j) **The Contract Price** is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract.
- k) **Days** are calendar days; months are calendar months.
- l) **Day works** 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.
- m) **A Defect** is any part of the Works not completed in accordance with the Contract.
- n) **The Defects Liability Certificate** is the certificate issued by Project Manager upon correction of defects by the Contractor.
- o) **The Defects Liability Period** is the period **named in the SCC** pursuant to Sub-Clause 34.1 and calculated from the Completion Date.
- p) **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 Procuring Entity in accordance with the Contract, include calculations and other information provided or approved by the Project Manager for the execution of the Contract.
- q) **The Procuring Entity** is the party who employs the Contractor to carry out the Works, **as specified in the SCC**, who is also the Procuring Entity.
- r) **Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

- s) **“In writing” or “written”** means hand-written, type-written, printed or electronically made, and resulting in a permanent record;
- t) The Initial Contract Price is the Contract Price listed in the Procuring Entity's Letter of Acceptance.
- u) **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 SCC**. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.
- v) **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.
- w) **Plant** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.
- x) **The Project Manager** is the person **named in the SCC** (or any other competent person appointed by the Procuring Entity 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.
- y) **SCC** means Special Conditions of Contract.
- z) **The Site** is the area of the works as **defined as such in the SCC**.
- aa) **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.
- bb) **Specification** means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager.
- cc) **The Start Date** is **given in the SCC**. 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.
- dd) **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.
- ee) **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.
- ff) **A Variation** is an instruction given by the Project Manager which varies the Works.
- gg) **The Works** are what the Contract requires the Contractor to construct, install, and turn over to the Procuring Entity, **as defined in the SCC**.

2. Interpretation

- 21 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.
- 22 If sectional completion is specified in the SCC, 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).
- 23 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) Special Conditions of Contract,
 - e) General Conditions of Contract, including Appendices,
 - f) Specifications,
 - g) Drawings,
 - h) Bill of Quantities⁶, and
 - i) any other document **listed in the SCC** as forming part of the Contract.

⁶In lump sum contracts, delete “Bill of Quantities” and replace with “Activity Schedule.”

3. Language and Law

- 31 The language of the Contract is English Language and the law governing the Contract are the Laws of Kenya.
- 32 Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Procuring Entity's Country when
 - a) as a matter of law or official regulations, Kenya prohibits commercial relations with that country; or
 - b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods from that country or any payments to any country, person, or entity in that country.

4. Project Manager's Decisions

- 41 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Procuring Entity and the Contractor in the role representing the Procuring Entity.

5. Delegation

- 51 Otherwise **specified in the SCC**, 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

- 61 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

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

8. Other Contractors

- 81 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Procuring Entity between the dates given in the Schedule of Other Contractors, as **referred to in the SCC**. The Contractor shall also provide facilities and services for them as described in the Schedule. The Procuring Entity may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

9. Personnel and Equipment

- 91 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.
- 92 If the Project Manager asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.
- 93 If the Procuring Entity, Project Manager or Contractor determines, that any employee of the Contractor be determined to have engaged in Fraud and Corruption during the execution of the Works, then that employee shall be removed in accordance with Clause 9.2 above.

10. Procuring Entity's and Contractor's Risks

- 101 The Procuring Entity carries the risks which this Contract states are Procuring Entity's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Procuring Entity's Risks

- 11.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Procuring Entity'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 Procuring Entity 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 Procuring Entity or in the Procuring Entity'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 a Procuring Entity's risk except loss or damage due to
- aa) a Defect which existed on the Completion Date,
 - bb) an event occurring before the Completion Date, which was not itself a Procuring Entity's risk, or
 - cc) 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 Procuring Entity's risks are Contractor's risks.

13. Insurance

- 13.1 The Contractor shall provide, in the joint names of the Procuring Entity 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 SCC** 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 Procuring Entity may effect the insurance which the Contractor should have provided and recover the premiums the Procuring Entity 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 SCC**, 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 Specifications and Drawings.

16. The Works to Be Completed by the Intended Completion Date

161 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.

17. Approval by the Project Manager

171 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.

172 The Contractor shall be responsible for design of Temporary Works.

173 The Project Manager's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

174 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.

175 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. Safety

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

19. Discoveries

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

20. Possession of the Site

201 The Procuring Entity 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 SCC**, the Procuring Entity shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.

21. Access to the Site

211 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

221 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.

222 The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and sub-consultants to keep, accurate and systematic accounts and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.

223 The Contractor shall permit and shall cause its subcontractors and sub-consultants to permit, the Procuring Entity and/or persons appointed by the Public Procurement Regulatory Authority to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the Public Procurement Regulatory Authority. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 25.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Public Procurement Regulatory Authority's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Public Procurement Regulatory Authority's prevailing sanctions procedures).

23. Appointment of the Adjudicator

- 23.1 The Adjudicator shall be appointed jointly by the Procuring Entity and the Contractor, at the time of the Procuring Entity's issuance of the Letter of Acceptance. If, in the Letter of Acceptance, the Procuring Entity does not agree on the appointment of the Adjudicator, the Procuring Entity will request the Appointing Authority designated in the SCC, to appoint the Adjudicator within 14 days of receipt of such request.
- 23.2 Should the Adjudicator resign or die, or should the Procuring Entity 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 Procuring Entity and the Contractor. In case of disagreement between the Procuring Entity and the Contractor, within 30 days, the Adjudicator shall be designated by the Appointing Authority designated in the SCC at the request of either party, within 14 days of receipt of such request.

24. Settlement of Claims and Disputes

24.1 Contractor's Claims

- 24.1.1 If the Contractor considers itself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give Notice to the Project Manager, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 30 days after the Contractor became aware, or should have become aware, of the event or circumstance.
- 24.1.2 If the Contractor fails to give notice of a claim within such period of 30 days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Procuring Entity shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub- Clause shall apply.
- 24.1.3 The Contractor shall also submit any other notices which are required by the Contract, and supporting particulars for the claim, all as relevant to such event or circumstance.
- 24.1.4 The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the Project Manager. Without admitting the Procuring Entity's liability, the Project Manager may, after receiving any notice under this Sub-Clause, monitor the record- keeping and/or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Project Manager to inspect all these records, and shall (if instructed) submit copies to the Project Manager.
- 24.1.5 Within 42 days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Project Manager, the Contractor shall send to the Project Manager a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:
- a) this fully detailed claim shall be considered as interim;
 - b) the Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/or amount claimed, and such further particulars as the Project Manager may reasonably require; and
 - c) the Contractor shall send a final claim within 30 days after the end of the effects resulting from the event or circumstance, or within such other period as may be proposed by the Contractor and approved by the Project Manager.
- 24.1.6 Within 42 days after receiving a Notice of a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Project Manager and approved by the Contractor, the Project Manager shall respond with approval, or with disapproval and detailed comments. He may also request any necessary further particulars, but shall nevertheless give his response on the principles of the claim within the above defined time period.
- 24.1.7 Within the above defined period of 42 days, the Project Manager shall proceed in accordance with Sub-Clause
- 24.1.8 [Determinations] to agree or determine (i) the extension (if any) of the Time for Completion (before or after its expiry) in accordance with Sub-Clause 8.4 [Extension of Time for Completion], and/or (ii) the

additional payment (if any) to which the Contractor is entitled under the Contract.

24.1.9 Each Payment Certificate shall include such additional payment for any claim as has been reasonably substantiated as due under the relevant provision of the Contract. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate.

24.1.10 If the Project Manager does not respond within the timeframe defined in this Clause, either Party may consider that the claim is rejected by the Project Manager and any of the Parties may refer to Arbitration in accordance with Sub-Clause 24.4 [Arbitration].

24.1.11 The requirements of this Sub-Clause are in addition to those of any other Sub-Clause which may apply to a claim. If the Contractor fails to comply with this or another Sub-Clause in relation to any claim, any extension of time and/or additional payment shall take account of the extent (if any) to which the failure has prevented or prejudiced proper investigation of the claim, unless the claim is excluded under the second paragraph of this Sub-Clause 24.3.

242 Amicable Settlement

24.2.1 Where a notice of a claim has been given, both Parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both Parties agree otherwise, the Party giving a notice of a claim in accordance with Sub-Clause 24.1 above should move to commence arbitration after the fifty-sixth day from the day on which a notice of a claim was given, even if no attempt at an amicable settlement has been made.

243 Matters that may be referred to arbitration

24.3.1 Notwithstanding anything stated herein the following matters may be referred to arbitration before the practical completion of the Works or abandonment of the Works or termination of the Contract by either party:

- a) The appointment of a replacement Project Manager upon the said person ceasing to act.
- b) Whether or not the issue of an instruction by the Project Manager is empowered by these Conditions.
- c) Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
- e) Any dispute arising in respect of war risks or war damage.
- f) All other matters shall only be referred to arbitration after the completion or alleged completion of the Works or termination or alleged termination of the Contract, unless the Procuring Entity and the Contractor agree otherwise in writing.

244 Arbitration

24.4.1 Any claim or dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with Sub-Clause 24.3 shall be finally settled by arbitration.

24.4.2 No arbitration proceedings shall be commenced on any claim or dispute where notice of a claim or dispute has not been given by the applying party within ninety days of the occurrence or discovery of the matter or issue giving rise to the dispute.

24.4.3 Notwithstanding the issue of a notice as stated above, the arbitration of such a claim or dispute shall not commence unless an attempt has in the first instance been made by the parties to settle such claim or dispute amicably with or without the assistance of third parties. Proof of such attempt shall be required.

24.4.4 The Arbitrator shall, without prejudice to the generality of his powers, have powers to direct such measurements, computations, tests or valuations as may in his opinion be desirable in order to determine the rights of the parties and assess and award any sums which ought to have been the subject of or included in any certificate.

24.4.5 The Arbitrator shall, without prejudice to the generality of his powers, have powers to open up, review and revise any certificate, opinion, decision, requirement or notice and to determine all matters in dispute which shall be submitted to him in the same manner as if no such certificate, opinion, decision requirement or notice had been given.

24.4.6 The arbitrators shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Project Manager, relevant to the dispute. Nothing shall disqualify representatives of the Parties and the Project Manager from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.

24.4.7 Neither Party shall be limited in the proceedings before the arbitrators to the evidence, or to the reasons for dissatisfaction given in its Notice of Dissatisfaction.

24.4.8 Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, and the Project Manager shall not be altered by reason of any arbitration being conducted during the progress of the Works.

24.4.9 The terms of the remuneration of each or all the members of Arbitration shall be mutually agreed upon by the

Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

245 Arbitration with National Contractors

24.5.1 If the Contract is with national contractors, arbitration proceedings will be conducted in accordance with the Arbitration Laws of Kenya. In case of any claim or dispute, such claim or dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an Arbitrator within thirty days of the notice. The dispute shall be referred to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed, on the request of the applying party, by the Chairman or Vice Chairman of any of the following professional institutions;

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

24.5.2 The institution written to first by the aggrieved party shall take precedence over all other institutions.

246 Alternative Arbitration Proceedings

24.6.1 Alternatively, the Parties may refer the matter to the Nairobi Centre for International Arbitration (NCIA) which offers a neutral venue for the conduct of national and international arbitration with commitment to providing institutional support to the arbitral process.

247 Failure to Comply with Arbitrator's Decision

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

24.7.2 In the event that a Party fails to comply with a final and binding Arbitrator's decision, then the other Party may, without prejudice to any other rights it may have, refer the matter to a competent court of law.

248 Contract operations to continue

24.8.1 Notwithstanding any reference to arbitration herein,

- a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- b) the Procuring Entity shall pay the Contractor any monies due the Contractor.

25. Fraud and Corruption

25.1 The Government requires compliance with the country's Anti-Corruption laws and its prevailing sanctions policies and procedures as set forth in the Constitution of Kenya and its Statutes.

25.2 The Procuring Entity 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.

B. Time Control

26. Program

26.1 Within the time stated in the SCC, 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.

26.2 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.

26.3 The Contractor shall submit to the Project Manager for approval an updated Program at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount stated in the SCC 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 a lump sum contract, the Contractor shall provide an updated Activity Schedule within 14 days of being instructed to by the Project Manager.

264 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.

27. Extension of the Intended Completion Date

271 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.

272 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.

28. Acceleration

281 When the Procuring Entity 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 Procuring Entity accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Procuring Entity and the Contractor.

282 If the Contractor's priced proposals for an acceleration are accepted by the Procuring Entity, they are incorporated in the Contract Price and treated as a Variation.

29. Delays Ordered by the Project Manager

291 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.

30. Management Meetings

301 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.

302 The Project Manager shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Procuring Entity. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

31. Early Warning

311 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.

312 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

32. Identifying Defects

321 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.

33. Tests

- 33.1 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.

34. Correction of Defects

- 34.1 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 SCC. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 34.2 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.

35. Uncorrected Defects

- 35.1 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

36. Contract Price⁷

- 36.1 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.

37. Changes in the Contract Price⁸

- 37.1 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 Procuring Entity.
- 37.2 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.

38. Variations

- 38.1 All Variations shall be included in updated Programs⁹ produced by the Contractor.
- 38.2 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 Project Manager shall assess the quotation, which shall be given within seven (7) days of the request or within any longer period stated by the Project Manager and before the Variation is ordered.
- 38.3 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.
- 38.4 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.

⁷In lump sum contracts, replace GCC Sub-Clauses 36.1 as follows:

36.1 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.

⁸In lump sum contracts, replace entire GCC Clause 37 with new GCC Sub-Clause 37.1, as follows:

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.

⁹In lump sum contracts, add “and Activity Schedules” after “Programs.” ¹⁰In lump sum contracts, delete this paragraph.

- 385 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning
- 386 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 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
- 387 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 costs) the Procuring Entity may incur in implementing the value engineering proposal; and
 - c) a description of any effect(s) of the change on performance/functionality.
- 388 The Procuring Entity may accept the value engineering proposal if the proposal demonstrates benefits that:
- a) accelerate the contract completion period; or
 - b) reduce the Contract Price or the life cycle costs to the Procuring Entity; or
 - c) improve the quality, efficiency, safety or sustainability of the Facilities; or
 - d) yield any other benefits to the Procuring Entity, without compromising the functionality of the Works.
- 389 If the value engineering proposal is approved by the Procuring Entity and results in:
- a) a reduction of the Contract Price; the amount to be paid to the Contractor shall be the **percentage specified in the SCC** 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.

39. Cash Flow Forecasts

- 391 When the Program¹¹, 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.

40. Payment Certificates

- 401 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.
- 402 The Project Manager shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.
- 403 The value of work executed shall be determined by the Project Manager.
- 404 The value of work executed shall comprise the value of the quantities of work in the Bill of Quantities that have been completed¹².
- 405 The value of work executed shall include the valuation of Variations and Compensation Events.
- 406 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.
- 407 Where the contract price is different from the corrected tender price, in order to ensure the contractor is not paid less or more relative to the contract price (which would be the tender price), payment valuation certificates and variation orders on omissions and additions valued based on rates in the Bill of Quantities or schedule of rates in the Tender, will be adjusted by a plus or minus percentage. The percentage already worked out during tender evaluation is worked out as follows: $(\text{corrected tender price} - \text{tender price}) / \text{tender price} \times 100$.

41. Payments

- 41.1 Payments shall be adjusted for deductions for advance payments and retention. The Procuring Entity shall pay the Contractor the amounts certified by the Project Manager within 30 days of the date of each certificate. If the Procuring Entity makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the prevailing rate of interest for commercial borrowing for each of the currencies in which payments are made.
- 41.2 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.
- 41.3 Unless otherwise stated, all payments and deductions shall be paid or charged in the proportions of currencies comprising the Contract Price.
- 41.4 Items of the Works for which no rate or price has been entered in shall not be paid for by the Procuring Entity and shall be deemed covered by other rates and prices in the Contract.

42. Compensation Events

- 42.1 The following shall be Compensation Events:
- d) The Procuring Entity does not give access to a part of the Site by the Site Possession Date pursuant to GCC Sub-Clause 20.1.
 - e) The Procuring Entity modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.
 - f) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time.
 - g) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.
 - h) The Project Manager unreasonably does not approve a subcontract to be let.
 - i) 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.
 - j) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Procuring Entity, or additional work required for safety or other reasons.
 - k) Other contractors, public authorities, utilities, or the Procuring Entity does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
 - l) The advance payment is delayed.
 - m) The effects on the Contractor of any of the Procuring Entity's Risks.
 - n) The Project Manager unreasonably delays issuing a Certificate of Completion.
- 42.2 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.
- 42.3 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.

¹¹In lump sum contracts, add "or Activity Schedule" after "Program."

¹²In 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."

424 The Contractor shall not be entitled to compensation to the extent that the Procuring Entity's interests are adversely affected by the Contractor's not having given early warning or not having cooperated with the Project Manager.

43. Tax

431 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 30 days before the submission of 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 44.

44. Currency of Payment

441 All payments under the contract shall be made in Kenya Shillings

45. Price Adjustment

451 Prices shall be adjusted for fluctuations in the cost of inputs only if **provided for in the SCC**. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due in each currency. A separate formula of the type specified below applies:

$$P = A + B \text{ Im/Io}$$

where:

the Contract Price payable.

P is the adjustment factor for the portion of

A and B are coefficients¹³ **specified in the SCC**, representing the non-adjustable and adjustable portions, respectively, of the Contract Price payable and Im is the index prevailing at the end of the month being invoiced and IOC is the index prevailing 30 days before Bid opening for inputs payable.

452 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.

46. Retention

461 The Procuring Entity shall retain from each payment due to the Contractor the proportion stated in the **SCC** until Completion of the whole of the Works.

462 Upon the issue of a Certificate of Completion of the Works by the Project Manager, in accordance with GCC 53.1, 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.

47. Liquidated Damages

471 The Contractor shall pay liquidated damages to the Procuring Entity at the rate per day stated in the **SCC** 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 SCC. The Procuring Entity may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

472 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 41.1.

48. Bonus

481 The Contractor shall be paid a Bonus calculated at the rate per calendar day **stated in the SCC** 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.

49. Advance Payment

- 491 The Procuring Entity shall make advance payment to the Contractor of the amounts stated in the SCC by the date stated in the SCC, against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Procuring Entity in amounts and currencies equal to the advance payment. The Guarantee shall remain effective until the advance payment has been repaid, but the amount of the Guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.
- 492 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.
- 493 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.

50. Securities

- 501 The Performance Security shall be provided to the Procuring Entity no later than the date specified in the Letter of Acceptance and shall be issued in an amount **specified in the SCC**, by a bank or surety acceptable to the Procuring Entity, 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 day 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 Completion Certificate in the case of a Performance Bond.

51. Dayworks

- 511 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.
- 512 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.
- 513 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.

52. Cost of Repairs

- 521 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

53. Completion

- 531 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.

54. Taking Over

- 541 The Procuring Entity shall take over the Site and the Works within seven days of the Project Manager's issuing a certificate of Completion.

55. Final Account

- 551 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.

¹³The sum of the two coefficients A and B should be 1 (one) in the formula for each currency. Normally, both coefficients shall be the same in the formulae for all currencies, since coefficient A, for the non-adjustable portion of the payments, is a very approximate figure (usually 0.15) to take account of fixed cost elements or other non-adjustable components.

56. Operating and Maintenance Manuals

- 56.1 If “as built” Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the SCC.
- 56.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the SCC pursuant to GCC Sub-Clause 56.1, or they do not receive the Project Manager's approval, the Project Manager shall withhold the amount **stated in the SCC** from payments due to the Contractor.

57. Termination

- 57.1 The Procuring Entity or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 57.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:
- a) the Contractor stops work for 30 days when no stoppage of work is shown on the current Program and the stoppage has not been 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 30 days;
 - c) the Procuring Entity 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 Procuring Entity 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 SCC**; or
 - h) if the Contractor, in the judgment of the Procuring Entity 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 Procuring Entity may, after giving fourteen (14) days written notice to the Contractor, terminate the Contract and expel him from the Site.
- 57.3 Notwithstanding the above, the Procuring Entity may terminate the Contract for convenience.
- 57.4 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.
- 57.5 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 56.2 above, the Project Manager shall decide whether the breach is fundamental or not.

58. Payment upon Termination

- 58.1 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 SCC. Additional Liquidated Damages shall not apply. If the total amount due to the Procuring Entity exceeds any payment due to the Contractor, the difference shall be a debt payable to the Procuring Entity.
- 58.2 If the Contract is terminated for the Procuring Entity's convenience or because of a fundamental breach of Contract by the Procuring Entity, 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.

59. Property

- 59.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property

of the Procuring Entity if the Contract is terminated because of the Contractor's default.

60. Release from Performance

- 60.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Procuring Entity or the Contractor, the 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.

SECTION IX - SPECIAL CONDITIONS OF CONTRACT

Except where otherwise specified, all Special Conditions of Contract should be filled in by the Procuring Entity prior to issuance of the bidding document. Schedules and reports to be provided by the Procuring Entity should be annexed.

Number of GC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
A. General	
GCC 1.1 (q)	The Procuring Entity is – CHIEF OFFICER-ECONOMIC PLANNING
GCC 1.1 (u)	The Intended Completion Date for the whole of the Works shall be SEPTEMBER 2027
GCC 1.1 (x)	The Project Manager is; The County Chief Officer- ECONOMIC PLANNING. P.O Box 19-20400 BOMET.
GCC 1.1 (z)	The Site is located at CHEMAGEL WARD-SOTIK SUB-COUNTY IN BOMET COUNTY and is defined in drawings.
GCC 1.1 (cc)	The Start Date shall be: AS PER THE CONTRACT COMMENCEMENT DATE
GCC 1.1 (gg)	The Works consist of; Proposed construction of County Aggregation and Industrial park
GCC 2.2	The contract / Completion period shall be 18 months (72 weeks)
GCC 5.1	The Project manager <i>[may or may not]</i> delegate any of his duties and responsibilities.
GCC 8.1	Schedule of other contractors: NONE <i>[insert Schedule of Other Contractors, if appropriate]</i>
GCC 9.1	<p>Key Personnel GCC 9.1 is replaced with the following:</p> <p>9.1 Key Personnel are the Contractor’s personnel named in this GCC 9.1 of the Special Conditions of Contract. 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.</p> <p>[As per the project manager appointment)</p>
GCC 13.1	<p>The minimum insurance amounts and deductibles shall be:</p> <p>(a) for loss or damage to the Works, Plant and Materials: 1,000,000 (One Million Kenya Shillings).</p> <p>(b) For loss or damage to Equipment: 1,000,000 (One Million Kenya Shillings)</p> <p>(c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract N/A.</p> <p>(d) for personal injury or death:</p> <p>(i) of the Contractor’s employees: 1,000,000 (One Million Kenya Shillings) <i>[amount].</i></p> <p>(ii) of other people: 500,000 (Five Hundred Thousand Kenya Shillings)</p>
GCC 14.1	Site Data are: <i>[list Site Data]</i>

Number of GC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
GCC 20.1	The Site Possession Date(s) shall be AS PER THE CONTRACT AGREEMENT
GCC 23.1 & GCC 23.2	Appointing Authority for the Adjudicator: COUNTY GOVERNMENT OF BOMET.
	Hourly rate and types of reimbursable expenses to be paid to the Adjudicator: <i>[AS PER THE CONTRACT AGREEMENT].</i>
B. Time Control	
GCC 26.1	The Contractor shall submit for approval a Program for the Works within 14 (Fourteen) days from the date of the Letter of Acceptance.
GCC 26.3	The period between Program updates is 28 (Twenty-Eight) days. The amount to be withheld for late submission of an updated Program is; N/A
C. Quality Control	
GCC 34.1	The Defects Liability Period is: 180 days.
D. Cost Control	
GCC 38.9	If the value engineering proposal is approved by the Procuring Entity the amount to be paid to the Contractor shall be N/A % <i>(insert appropriate percentage. The percentage is normally up to 50%)</i> of the reduction in the Contract Price.
GCC 44.1	The currency of the Procuring Entity's Country is: Kenya Shillings
GCC 45.1	The Contract is "Not" subject to price adjustment in accordance with GCC Clause 45, and the following information regarding coefficients <i>[specify "does" or "does not"]</i> apply. <i>[Price adjustment is mandatory for contracts which provide for time of completion exceeding 18 months]</i> The coefficients for adjustment of prices are: (a) <i>[insert percentage]</i> percent nonadjustable element (coefficient A). (ib) <i>[insert percentage]</i> percent adjustable element (coefficient B). (c) The Index I for shall be <i>[insert index]</i> .
GCC 46.1	The proportion of payments retained is: 10% (Ten percent)
GCC 47.1	The liquidated damages for the whole of the Works are 0.05% per day. The maximum amount of liquidated damages for the whole of the Works is 10% (Ten Percent) of the final Contract Price.
GCC 48.1	The Bonus for the whole of the Works is N/A per day. The maximum amount of Bonus for the whole of the Works is 0% of the final Contract Price.
GCC 49.1	The Advance Payments shall be: N/A
GCC 50.1	The Performance Security amount is 5% (Five Percent) of the contract sum (a) Performance Security – Bank Guarantee: in the amount(s) of <i>[insert related figure(s)]</i> percent of the Accepted Contract Amount and in the same currency(ies) of the Accepted

Number of GC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
	Contract Amount.
E. Finishing the Contract	
GCC 56.1	<p>The date by which operating and maintenance manuals are required is 60 (Sixty) Days from the date of practical completion</p> <p>The date by which “as built” drawings are required is 60 (Sixty) Days From the date of practical completion.</p>
GCC 56.2	The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required in GCC 58.1 is 5% (Five Percent)
GCC 57.2 (g)	The maximum number of days is: 20% (Twenty Percent) of the contract period; consistent with Clause 47.1 on liquidated damages].
GCC 58.1	The percentage to apply to the value of the work not completed, representing the Procuring Entity’s additional cost for completing the Works, is N/A].

FORM No 1: NOTIFICATION OF INTENTION TO AWARD

This Notification of Intention to Award shall be sent to each Tenderer that submitted a Tender. Send this Notification to the Tenderer's Authorized Representative named in the Tender Information Form on the format below.

FORMAT

1. For the attention of Tenderer's Authorized Representative

- i) Name: *[insert Authorized Representative's name]*]
- ii) Address: *[insert Authorized Representative's Address]*]
- iii) Telephone: *[insert Authorized Representative's telephone/fax numbers]*]
- iv) Email Address: *[insert Authorized Representative's email address]*]

[IMPORTANT: insert the date that this Notification is transmitted to Tenderers. The Notification must be sent to all Tenderers simultaneously. This means on the same date and as close to the same time as possible.]

2. Date of transmission: *[email]* on *[date]* (local time)

This Notification is sent by *(Name and designation)* _____

3. Notification of Intention to Award

- i) Procuring Entity: *[County Government of Bomet]*
- ii) **Project:** *[Proposed completion of Governor's Residence]*
- iii) **Contract title:** *[CGB/ADM/002/2024/2025]*
- iv) **Country:** *[Kenya]*
- v) ITT No: *[insert ITT 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:

4. Request a debriefing in relation to the evaluation of your tender

Submit a Procurement-related Complaint in relation to the decision to award the contract.

a) The successful tenderer

i) Name of successful Tender _____

ii) Address of the successful Tender _____

iii) Contract price of the successful Tender Kenya Shillings _____ (in words _____)

b) Other Tenderers

Names of all Tenderers that submitted a Tender. If the Tender's price was evaluated include the evaluated price as well as the Tender price as read out. For Tenders not evaluated, give one main reason the Tender was unsuccessful.

SNo	Name of Tender	Tender Price as read out	Tender's evaluated price (Note a)	One Reason Why not Evaluated
1				
2				
3				
4				
5				

(Note a) State NE if not evaluated

5. How to request a debriefing

- a) DEADLINE: The deadline to request a debriefing expires at midnight on [insert date] (local time).
- b) You may request a debriefing in relation to the results of the evaluation of your Tender. If you decide to request a debriefing your written request must be made within three (5) Business Days of receipt of this Notification of Intention to Award.
- c) Provide the contract name, reference number, name of the Tenderer, contact details; and address the request for debriefing as follows:
 - i) Attention: [insert full name of person, if applicable]
 - ii) Title/position: [insert title/position]
 - ii) Agency: [insert name of Procuring Entity]
 - iii) Email address: [insert email address]
- d) If your request for a debriefing is received within the 3 Days deadline, we will provide the debriefing within five (3) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (3) Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.
- e) 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.
- f) 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) Days from the date of publication of the Contract Award Notice.

6. How to make a complaint.

- a) Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [insert date] (local time).
- b) Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement-related Complaint as follows:
 - i) Attention: [insert full name of person, if applicable]
 - ii) Title/position: [insert title/position]
 - iii) Agency: [insert name of Procuring Entity]
 - iv) Email address: [insert email address]
- c) At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.
- d) Further information: For more information refer to the Public Procurement and Disposals Act 2015 and its Regulations available from the Website info@ppra.go.ke or complaints@ppra.go.ke.
You should read these documents before preparing and submitting your complaint.
- e) There are four essential requirements:
 - i) You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender in this tendering process, and is the recipient of a Notification of Intention to Award.

- ii) The complaint can only challenge the decision to award the contract.
- iii) You must submit the complaint within the period stated above.
- iv) You must include, in your complaint, all of the information required to support your complaint.

7. Standstill Period

- i) DEADLINE: The Standstill Period is due to end at midnight on [*insert date*] (local time).
- ii) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.
- iii) The Standstill Period may be extended as stated in paragraph Section 5 (d) above.

If you have any questions regarding this Notification please do not hesitate to contact us. On behalf of the Procuring Entity:

Signature: _____ **Name:** _____

Title/position: _____ **Telephone:** _____ **Email:** _____

FORM NO. 2 - REQUEST FOR REVIEW

FORM FOR REVIEW (r.203(1))

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

APPLICATION NO..... OF.....20.....

BETWEEN

.....**APPLICANT**

AND

.....**RESPONDENT (Procuring Entity)**

Request for review of the decision of the..... (Name of the Procuring Entity ofdated the...day of20.....in the matter of Tender No.....of20..... for(Tender description).

REQUEST FOR REVIEW

I/We.....,the above named Applicant(s), of address: Physical address..... P. O. Box No..... Tel. No.....Email, hereby request the Public Procurement Administrative Review Board to review the whole/part of the above mentioned decision on the following grounds , namely:

- 1.
- 2.

By this memorandum, the Applicant requests the Board for an order/orders that:

- 1.
- 2.

SIGNED(Applicant) Dated on.....day of/...20.....

FOR OFFICIAL USE ONLY Lodged with the Secretary Public Procurement Administrative Review Board on..... day of20.....

SIGNED

Board Secretary

FORM NO 3: LETTER OF AWARD

[letterhead paper of the Procuring Entity] [date]

To: *[name and address of the Contractor]*

This is to notify you that your Tender dated *[date]* for execution of the *[name of the Contract and identification number, as given in the Contract Data]* for the Accepted Contract Amount *[amount in numbers and words] [name of currency]*, as corrected and modified in accordance with the Instructions to Tenderers, is hereby accepted by..... *(name of Procuring Entity)*.

You are requested to furnish the Performance Security within 30 days in accordance with the Conditions of Contract, using, for that purpose, one of the Performance Security Forms included in Section VIII, Contract Forms, of the Tender Document.

Authorized Signature:.....

Name and Title of Signatory:.....

Name of Procuring Entity.....

Attachment: *Contract Agreement*.....

FORM NO 4: CONTRACT AGREEMENT

THIS AGREEMENT made the _____ day of _____, 20____, between _____ of _____ (hereinafter “the Procuring Entity”), of the one part, and _____ of _____ (hereinafter “the Contractor”), of the other part:

WHEREAS the Procuring Entity desires that the Works known as _____ should be executed by the Contractor, and has accepted a Tender by the Contractor for the execution and completion of these Works and the remedying of any defects therein,

The Procuring Entity and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to 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 Tender
 - c) the addenda Nos _____ (if any)
 - d) the Special Conditions of Contract
 - e) the General Conditions of Contract;
 - f) the Specifications
 - g) the Drawings; and
 - h) the completed Schedules and any other documents forming part of the contract.
3. In consideration of the payments to be made by the Procuring Entity to the Contractor as specified in this Agreement, the Contractor hereby covenants with the Procuring Entity to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Procuring Entity 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 Kenya on the day, month and year specified above.

Signed and sealed by _____ (for the Procuring Entity)

Signed and sealed by _____ (for the Contractor).

FORM NO. 5 - PERFORMANCE SECURITY

[Option 1 - Unconditional Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary: _____ *[insert name and Address of Procuring Entity]* **Date:** _____

_____ *[Insert date of issue]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

1. We have been informed that _____ (hereinafter called "the Contractor") has entered into Contract No. _____ dated _____ with (name of Procuring Entity) _____ (the Procuring Entity as the Beneficiary), for the execution of _____ (hereinafter called "the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.
3. At the request of the Contractor, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (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.
4. 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 the office indicated above on or before that date.
5. The Guarantor agrees to a one-time extension of this guarantee for a period notto exceed *[six months]* *[oneyear]*, in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”

[Name of Authorized Official, signature(s) and seals/stamps].

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

¹The 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 of the Contract or a freely convertible currency acceptable to the Beneficiary.

²Insert the date twenty-eight days after the expected completion date as described in GC Clause 11.9. The Procuring Entity should note that in the event of an extension of this date for completion of the Contract, the Procuring Entity 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.

FORM NO. 9 BENEFICIAL OWNERSHIP DISCLOSURE FORM

INSTRUCTIONS TO TENDERERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM

This Beneficial Ownership Disclosure Form ("Form") is to be completed by the successful tenderer. In case of joint venture, the tenderer 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 Tenderer is any natural person who ultimately owns or controls the Tenderer by meeting one or more of the following conditions:

- *Directly or indirectly holding 25% or more of the shares.*
- *Directly or in directly 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 Tenderer.*

Tender Reference No.: _____ [insert identification no]

Name of the Assignment: _____ [insert name of the assignment] to:
 _____ [insert complete name of Procuring Entity]

In response to your notification of award dated _____ [insert date of notification of award] to furnish additional information on beneficial ownership: _____ [select one option as applicable and delete the options that are not applicable]

I) We here by provide the following beneficial ownership information.

Details of beneficial ownership

Identity of Beneficial Owner <i>[include full name (last, middle, first), nationality, country of residence]</i>	Directly or indirectly holding 25% or more of the shares (Yes / No)	Directly or indirectly holding 25 % or more of the Voting Rights (Yes / No)	Directly or indirectly having the right to appoint a majority of the board of the directors or an equivalent governing body of the Tenderer (Yes / No)

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 Tenderer.*

OR

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 Tenderer 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 Tenderer]”

*Name of the Tenderer..... *[insert complete name of the Tenderer]*

Name of the person duly authorized to sign the Tender on behalf of the Tenderer:

.....
*** [insert complete name of person duly authorized to sign the Tender]*

Title of the person signing the Tender:
[insert complete title of the person signing the Tender]

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

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