

TENDER DOCUMENT FOR THREE (3) YEARS FRAMEWORK CONTRACT FOR SUPPLY AND DELIVERY OF LAN MATERIALS AND INSTALLATION SERVICES

TENDER NO. KRA/HQS/NCB-075/2019-2020

LOT 1 THREE (3) YEARS FRAMEWORK CONTRACT FOR THE SUPPLY AND DELIVERY OF STRUCTURED CABLING MATERIALS

LOT 2 THREE (3) YEARS FRAMEWORK CONTRACT FOR THE SUPPLY AND DELIVERY OF ACTIVE EQUIPMENT AND UPS

LOT 3 THREE (3) YEARS FRAMEWORK CONTRACT FOR THE SUPPLY AND DELIVERY OF ACCESSORIES AND TOOLS

LOT 4 THREE (3) YEARS FRAMEWORK CONTRACT FOR THE SUPPLY AND DELIVERY OF LAN INSTALLATION SERVICES (LABOUR ONLY)

TIMES TOWER BUILDING P.O. BOX 48240 – 00100 TEL: +254 02 310900 WWW.KRA.GO.KE NAIROBI, KENYA.

CLOSING DATE: 4TH JUNE, 2020 AT 11.00 AM

MAY 2020

TABLE OF CONTENTS

		PAGE
	ΓΙΟΝ Ι TATION TO TENDER	3
	ΓΙΟΝ ΙΙ RUCTIONS TO TENDERERS	4
Appe	endix to Instructions to Tenderers	16
	ΓΙΟΝ ΙΙΙ ERAL CONDITIONS OF CONTRACT	18
	ΓΙΟΝ IV CIAL CONDITIONS OF CONTRACT	24
	ΓΙΟΝ V HNICAL SPECIFICATIONS	26
	ΓΙΟΝ VI EDULE OF REQUIREMENTS	85
	ΓΙΟΝ VII E SCHEDULE FOR GOODS	94
	ΓΙΟΝ VIII NDARD FORMS	108
8.1	FORM OF TENDER	109
8.2	CONFIDENTIAL BUSINESS QUESTIONNAIRES FORMS	111
8.3	TENDER SECURING FORM	115
8.4	CONTRACT FORM	116
8.5	BANK GUARANTEE FOR ADVANCE PAYMENT FORM	117
8.6	MANUFACTURER'S AUTHORIZATION FORM	118
8.7	LETTER OF NOTIFICATION	119

INVITATION TO TENDER



Tender Notice

1. The Kenya Revenue Authority invites sealed bids from eligible candidates for the following tenders:

SECTION I

NO.	DESCRIPTION	ELIGIBILITY	CLOSING DATE AND TIME AND VENUE
1	KRA/HQS/NCB-075/2019-2020: THREE (3) YEARS FRAMEWORK CONTRACT FOR SUPPLY AND DELIVERY OF LAN MATERIALS AND INSTALLATION SERVICES	OPEN	4TH JUNE, 2020 11.00 AM 3RD FLOOR, TIMES TOWER

- 2. Tender documents detailing the requirements of the above tenders in English may be obtained from KRA E-Procurement portal available on the KRA website www.kra.go.ke. Prospective bidders should register for E-Procurement to enable them access the KRA portal under "New Supplier Registration" found under the E Procurement Tab.
- 3. For assistance visit any KRA Procurement office Countrywide or email: srmsupport@kra.go.ke.
- 4. Technical Qualification requirements; Refer to Section V of the bidding document.
- 5. Completed Bids are to be saved as PDF documents marked with the relevant tender description and submitted to the appropriate KRA E-procurement Web Portal found on the KRA website so as to be received on or before **4TH JUNE**, **2020** at 11.00 a.m. Note: Submission should strictly be done to KRA E-Procurement Portal.
- 6. Bids will be opened electronically promptly after closing time and Bidders or their representatives are welcome to witness the opening at **3RD FLOOR**, **Times Tower Building**.
- 7. An original hard copy of the **Bid Security** of not less than the indicated amount or equivalent amount in a freely convertible currency must be dropped in the **Tender Security Box** located at **Times Tower Building, Ground Floor** any day before the tender closing date. The Bid Security (where applicable) must be in a sealed envelope bearing the Tender Description and addressed to the address indicated above.

Deputy Commissioner-Supply Chain Management Times Tower Building, 23RD FLOOR, P.O Box 48240–00100 GPO, Tel. +254 020 310900 Nairobi, Kenya. website: www.kra.go.ke

Email: eprocurement@kra.go.ke

Any canvassing or giving of false information will lead to automatic disqualification.

SECTION II - INSTRUCTIONS TO TENDERERS

Table of Clauses

		Page
2.1	Eligible Tenderers	5
2.2	Eligible Goods	5
2.3	Cost of Tendering.	5
2.4	Contents of Tender Document	5
2.5	Clarification of Documents.	6
2.6	Amendment of Documents	6
2.7	Language of Tender	7
2.8	Documents Comprising the tender	7
2.9	Tender Forms	7
2.10	Tender Prices.	7
2.11	Tender Currencies.	8
2.12	Tenderers Eligibility and Qualifications	8
2.13	Goods' Eligibility and conformity to Tender Documents	8
2.14	Tender Security	9
2.15	Validity of Tenders	9
2.16	Format and Signing of Tenders	10
2.17	Deadline for Submission of Tender	10
2.18	Modification and Withdrawal of Tenders	10
2.19	Opening of Tenders	11
2.20	Clarification of Tenders	11
2.21	Preliminary Examination	11
2.22	Conversion to Single Currency	12
2.23	Evaluation and Comparison of Tenders	12
2.24	Preference	12
2.25	Contacting the Procuring Entity.	12
2.26	Award of Contract	13
(a)	Post qualification.	13
(b)	Award criteria	13
(c)	Procuring Entity's Right to Vary Quantities	13
(d)	Procuring entity's Right to Accept or Reject any or all Tenders	13
(e)	Notification of Award	14
2.27	Signing of Contract	14
2.28	Performance Security	14
2.29	Corrupt or Fraudulent Practices	14

SECTION II - INSTRUCTIONS TO TENDERERS

2.1 Eligible Tenderers

- 2.1.1 This Invitation for Tenders is open to all tenderers eligible as described in the Invitation to Tender. Successful tenderers shall complete the supply of goods by the intended completion date specified in the Schedule of Requirements Section VI.
- 2.1.2 The Kenya Revenue Authority's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.
- 2.1.3 Tenderers shall provide the qualification information statement that the tenderer (including all members of a joint venture and subcontractors) is not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Kenya Revenue Authority (KRA) to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods under this Invitation for tenders.
- 2.1.4 Tenderers shall not be under a declaration of ineligibility for corrupt and fraudulent practices.

2.2 Eligible Goods

- 2.2.1 All goods to be supplied under the contract shall have their origin in eligible source countries.
- 2.2.2 For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product results that is substantially different in basic characteristics or in purpose or utility from its components
- 2.2.3 The origin of goods is distinct from the nationality of the tenderer.

2.3 Cost of Tendering

- 2.3.1 The Tenderer shall bear all costs associated with the preparation and submission of its tender, and the KRA, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.
- 2.3.2 The bid document shall be downloaded from the KRA website free of charge.

2.4 Content of Tender Document

2.4.1 The tender document comprises the documents listed below and addenda issued in accordance with clause 2.6 of these instructions

to Tenderers.

- (i) Invitation to Tender
- (ii) Instructions to tenderers
- (iii) General Conditions of Contract
- (iv) Special Conditions of Contract
- (v) Schedule of requirements
- (vi) Technical Specifications
- (vii) Tender Form and Price Schedules
- (viii) Contract Form
- (ix) Performance Security Form
- (x) Bank Guarantee for Advance Payment Form
- (xi) Manufacturer's Authorization Form
- (xii) Confidential Business Questionnaire.
- 2.4.2 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the tender documents. Failure to furnish all information required by the tender documents or to submit a tender not substantially responsive to the tender documents in every respect will be at the tenderers risk and may result in the rejection of its tender.

2.5 Clarification of Documents

- 2.5.1 A prospective tenderer requiring any clarification of the tender document may notify the Procuring entity in writing or by post at the entity's address indicated in the Invitation to Tender. The Procuring entity will respond in writing to any request for clarification of the tender documents, which it receives not later than seven (7) days prior to the deadline for the submission of tenders, prescribed by the procuring entity. Written copies of the KRA's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective tenderers that have received the tender document.
- 2.5.2 The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.

2.6 Amendment of Documents

- 2.6.1 At any time prior to the deadline for submission of tenders, the Procuring entity, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer, may modify the tender documents by amendment.
- 2.6.2 Any addendum issued shall be part of the tender document and shall be communicated on the KRA Website and via electronic mail to all registered bidders.
- 2.6.3 In order to allow prospective tenderers reasonable time in which

to take the amendment into account in preparing their tenders, the KRA, at its discretion, may extend the deadline for the submission of tenders.

2.7 Language of Tender

2.7.1 The tender prepared by the tenderer, as well as all correspondence and documents relating to the tender exchange by the tenderer and the KRA, shall be written in English language, provided that any printed literature furnished by the tenderer may be written in another language provided they are accompanied by an accurate English translation of the relevant passages in which case, for purposes of interpretation of the tender, the English translation shall govern.

2.8 Documents Comprising of Tender

The tender prepared by the tenderers shall comprise the following components:

- (a) a Tender Form and a Price Schedule completed in accordance with paragraph 2.9, 2.10 and 2.11 below;
- (b) documentary evidence established in accordance with paragraph 2.1.2 that the tenderer is eligible to tender and is qualified to perform the contract if its tender is accepted;
- (c) documentary evidence established in accordance with paragraph 2.2.1 that the goods and ancillary services to be supplied by the tenderer are eligible goods and services and conform to the tender documents; and
- (d) tender security furnished in accordance with paragraph 2.14
- (e) Confidential business questionnaire.

2.9 Tender Forms

2.9.1 The tenderer shall complete the Tender Form and the appropriate Price Schedule furnished in the tender documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

2.10 Tender Prices

- 2.10.1 The tenderer shall indicate on the appropriate Price Schedule the unit prices and total tender price of the goods it proposes to supply under the contract.
- 2.10.2 Prices indicated on the Price Schedule shall include all costs including taxes, insurances and delivery to the premises of the KRA.

- 2.10.3 Prices quoted by the tender shall be fixed during the Tender's performance of the contract and not subject to variation on any account. A tender submitted with an adjustable price quotation will be treated as non-responsive and will be rejected, pursuant to paragraph 2.22.
- 2.10.4 The validity period of the tender shall be **335 days** from the date of opening of the tender.
- 2.10.5 Contract price variations shall not be allowed for contracts not exceeding one year (12 months).
- 2.10.6 Where contract price variation is allowed, the variation shall not exceed 25% of the original contract price.
- Price variation requests shall be processed by the procuring entity within 30 days of receiving the request.

2.11 Tender Currencies

2.11.1 Prices shall be quoted in Kenya Shillings unless otherwise specified in the Appendix to Instructions to Tenderers.

2.12 Tenderers Eligibility and Qualifications

- 2.12.1 Pursuant to paragraph 2.1 the tenderer shall furnish, as part of its tender, documents establishing the tenderers eligibility to tender and its qualifications to perform the contract if its tender is accepted.
- 2.12.2 The documentary evidence of the tenderers eligibility to tender shall establish to the KRA's satisfaction that the tenderer, at the time of submission of its tender, is from an eligible source country as defined under paragraph 2.1.
- 2.12.3 The documentary evidence of the tenderers qualifications to perform the contract if its tender is accepted shall be established to the KRA's satisfaction;
 - (a) that, in the case of a tenderer offering to supply goods under the contract which the tenderer did not manufacture or otherwise produce, the tenderer has been duly authorized by the goods' Manufacturer or producer to supply the goods;
 - (b) that the tenderer has the financial, technical, and production capability necessary to perform the contract; and
 - (c) that, in the case of a tenderer not doing business within Kenya, the tenderer is or will be (if awarded the contract) represented by an Agent in Kenya equipped, and able to carry out the Tenderer's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications.

2.13 Goods Eligibility and Conformity to Tender Documents

- 2.13.1 Pursuant to paragraph 2.2 of this section, the tenderer shall furnish, as part of its tender documents establishing the eligibility and conformity to the tender documents of all goods which the tenderer proposes to supply under the contract
- 2.13.2 The documentary evidence of the eligibility of the goods shall consist of a statement in the Price Schedule of the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.
- 2.13.3 The documentary evidence of conformity of the goods to the tender documents may be in the form of literature, drawings, and data, and shall consist of:
 - (a) a detailed description of the essential technical and performance characteristic of the goods;
 - (b) a list giving full particulars, including available source and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period of two (2) years, following commencement of the use of the goods by the KRA; and
 - (c) a clause-by-clause commentary on the KRA's Technical Specifications demonstrating substantial responsiveness of the goods and service to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- 2.13.4 For purposes of the documentary evidence to be furnished pursuant to paragraph 2.13.3(c) above, the tenderer shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procurement entity in its Technical Specifications, are intended to be descriptive only and not restrictive. The tenderer may substitute alternative standards, brand names, and/or catalogue numbers in its tender, provided that it demonstrates to the Procurement entity's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

2.14 Tender Security

2.14.1 Tender Security of KES. 500,000 valid for 365 days from tender closing date (i.e 3rd June 2021) is required.

2.15 Validity of Tenders

2.15.1 Tenders shall remain valid for **335 days** or as specified in the

9

- Invitation to Tender after the date of tender opening prescribed by the KRA, pursuant to paragraph 2.18. A tender valid for a shorter period shall be rejected by the KRA as non responsive.
- 2.15.2 In exceptional circumstances, the KRA may solicit the Tenderer's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The tender security provided under paragraph 2.14 shall also be suitably extended. A tenderer may refuse the request without forfeiting its tender security. A tenderer granting the request will not be required nor permitted to modify its tender

2.16 Format and Signing of Tender

- 2.16.1 The TECHNICAL AND FINANCIAL shall be COMBINED. The bids Shall be submitted through the KRA supplier portal. The combined technical and the Financial Proposal Shall be submitted on the Notes and Attachments section.
- 2.16.2 The tender shall be typed or written in indelible ink and shall be signed by the tenderer or a person or persons duly authorized to bind the tenderer to the contract. The latter authorization shall be indicated by written power-of-attorney accompanying the tender. All pages of the tender, except for unamended printed literature, shall be initialed by the person or persons signing the tender.
- 2.16.3 The tender shall have no interlineations, erasures, or overwriting except as necessary to correct errors made by the tenderer, in which case such corrections shall be initialed by the person or persons signing the tender.

2.17 Deadline for Submission of Tenders

- 2.17.1 Tenders must be submitted to KRA through the supplier portal not later than **4TH JUNE**, **2020** at **11.00AM**. The system shall not permit submission after the said date and time.
 - KRA may, at its discretion, extend this deadline for the submission of tenders by amending the tender documents in accordance with paragraph 2.5, in which case all rights and obligations of KRA and candidates previously subject to the deadline will therefore be subject to the deadline as extended.
- 2.17.2 The KRA may, at its discretion, extend this deadline for the submission of tenders by amending the tender documents in accordance with paragraph 2.6, in which case all rights and obligations of the KRA and candidates previously subject to the deadline will therefore be subject to the deadline as extended

2.18 Modification and Withdrawal of Tenders

2.18.1 The tenderer may modify the tender after submission and resubmit to the respective folders. All prior submissions cannot be

- deleted or overwritten. Tenderer to note that the latest submission shall be considered as the final version and all prior submissions shall be disregarded.
- 2.18.2 The Tenderers may withdraw their submissions prior to the tender closing date and time through the supplier portal. A tender once withdrawn cannot be resubmitted. Where a tenderer withdraws his bid after submission of the bid security, he/she shall collect the bid security from KRA after the tender is opened.
- 2.18.3 No tender may be modified after the deadline for submission of tenders.
- 2.18.4 No tender may be withdrawn 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 Tender Form. Withdrawal of a tender during this interval may result in the Tenderer's forfeiture of its tender security, pursuant to paragraph 2.14.7.
- 2.18.5 The KRA may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 2.18.6 The KRA shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.

2.19 Opening of Tenders

- 2.19.1 KRA shall open all the submitted tenders in the presence of tenderers' representatives who choose to attend, in the location specified in the Invitation to Tender on 11:00 AM on 4TH JUNE, 2020.
- 2.19.2 The tenderers' names, tender modifications or withdrawals, tender prices, discounts and the presence or absence of requisite tender security and such other details as the KRA, at its discretion, may consider appropriate, will be announced at the opening.
- 2.19.3 The KRA will prepare minutes of the tender opening.

2.20 Clarification of Tenders

- 2.20.1 To assist in the examination, evaluation and comparison of tenders the KRA may, at its discretion, ask the tenderer for a clarification of its tender. The request for clarification and the response shall be in writing, and no change in the prices or substance of the tender shall be sought, offered, or permitted.
- 2.20.2 Any effort by the tenderer to influence the KRA in the KRA's tender evaluation, tender comparison or contract award decisions may result in the rejection of the tenderers' tender.

2.21 Preliminary Examination

- 2.21.1 The KRA will examine the tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the tenders are generally in order.
- 2.21.2 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. If there is a discrepancy between words and figures the amount in words will prevail.
- 2.21.3 The KRA may waive any minor informality or non-conformity or irregularity in a tender which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any tenderer.
- 2.22.4 Prior to the detailed evaluation, pursuant to paragraph 2.23 the KRA will determine the substantial responsiveness of each tender to the tender documents. For purposes of these paragraphs, a substantially responsive tender is one, which conforms to all the terms and conditions of the tender documents without material deviations. The KRA's determination of a tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.
- 2.22.5 If a tender is not substantially responsive, it will be rejected by the KRA and may not subsequently be made responsive by the tenderer by correction of the non conformity.

2.22 Conversion to Single Currency

2.23.1 Where other currencies are used, the KRA will convert these currencies to Kenya Shillings using the selling exchange rate on the date of tender closing provided by the Central Bank of Kenya.

2.23 Evaluation and Comparison of Tenders

- 2.23.1 The KRA will evaluate and compare the tenders which have been determined to be substantially responsive, pursuant to paragraph 2.22
- 2.23.2 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.
- 2.23.3 A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.

2.24 Preference

2.24.1 Kenya Revenue Authority does not allow any margin of

preference.

2.25 Contacting the Kenya Revenue Authority

- 2.25.1 Subject to paragraph 2.21 no tenderer shall contact the KRA on any matter related to its tender, from the time of the tender opening to the time the contract is awarded.
- 2.25.2 Any effort by a tenderer to influence the KRA in its decisions on tender, evaluation, tender comparison, or contract award may result in the rejection of the Tenderer's tender.

2.26 Award of Contract

(a) Post-qualification

- 2.26.1 In the absence of pre-qualification, the KRA will determine to its satisfaction whether the tenderer that is selected as having submitted the lowest evaluated responsive tender is qualified to perform the contract satisfactorily.
- 2.26.2 The determination will take into account the tenderer financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the tenderers qualifications submitted by the tenderer, pursuant to paragraph 2.12.3 as well as such other information as the KRA deems necessary and appropriate.
- 2.26.3 An affirmative determination will be a prerequisite for award of the contract to the tenderer. A negative determination will result in rejection of the Tenderer's tender, in which event the KRA will proceed to the next lowest evaluated tender to make a similar determination of that Tenderer's capabilities to perform satisfactorily.

(b) Award Criteria

2.26.4 The KRA will award the contract to the successful tenderer(s) whose tender has been determined to be substantially responsive and has been determined to be the lowest evaluated tender, provided further that the tenderer is determined to be qualified to perform the contract satisfactorily.

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

(c) KRA's Right to Vary Quantities

2.26.5 The KRA reserves the right at the time of contract award to

increase or decrease the quantity of goods originally specified in the Schedule of requirements without any change in unit price or other terms and conditions

(d) KRA's Right to Accept or Reject Any or All Tenders

2.26.6 The KRA reserves the right to accept or reject any tender, and to annul the tendering process and reject all tenders at any time prior to contract award, without thereby incurring any liability to the affected tenderer or tenderers or any obligation to inform the affected tenderer or tenderers of the grounds for the KRA's action.

(e) Notification of Award

- 2.27.1 Prior to the expiration of the period of tender validity, the KRA will notify the successful tenderer in writing that its tender has been accepted.
- 2.27.2 The notification of award will constitute the formation of the Contract but will have to wait until the contract is finally signed by both parties.
- 2.27.3 Upon the successful Tenderer's furnishing of the performance security pursuant to paragraph 2.28, the KRA will promptly notify each unsuccessful Tenderer and will discharge its tender security, pursuant to paragraph 2.14.

2.27 Signing of Contract

- 2.28.1 At the same time as the KRA notifies the successful tenderer that its tender has been accepted, the KRA will send the tenderer the Contract Form provided in the tender documents, incorporating all agreements between the parties.
- 2.28.2 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.
- 2.28.3 Within thirty (30) days of receipt of the Contract Form, the successful tenderer shall sign and date the contract and return it to the KRA.

2.28 Performance Security

2.29.1 Performance security of 10% is a required for this tender.

2.29 Corrupt or Fraudulent Practices

2.31.1 The KRA requires that tenderers' observe the highest standard of ethics during the procurement process and execution of contracts when used in the present regulations, the following terms are

defined as follows;

- (i) "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
- (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Kenya Revenue Authority, and includes collusive practice among tenderer (prior to or after tender submission) designed to establish tender prices at artificial noncompetitive levels and to deprive the Kenya Revenue Authority of the benefits of free and open competition;
- 2.31.2 The Kenya Revenue Authority will reject a proposal for award if it determines that the tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- 2.31.3 Further a tenderer who is found to have indulged in corrupt or fraudulent practices risks being debarred from participating in public procurement in Kenya.

APPENDIX TO INSTRUCTIONS TO TENDERERS

The following information regarding the particulars of the tender shall complement supplement or amend the provisions of the instructions to tenderers. Wherever there is a conflict between the provision of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers.

Instruction to	Particulars of Appendix to instructions to tenderers	
tender	2 and contains of 12ppenium to this nations to tenuerous	
reference		
1.2	The documents can also be viewed and downloaded from the KRA Website www.kra.go.ke at no fee. Bidders who download the tender documents must forward their particulars immediately for records and communication of any further tender clarifications or addenda eprocurement@kra.go.ke	
2.1	The tender is open. All bidders are Eligible.	
2.9.2	Taxes: The Tenderer will pay for all the local taxes, duties, fees, levies and other charges applicable in Kenya. The financial proposal should therefore include any taxes payable in Kenya.	
2.9.3	The prices quoted shall be FIXED during the period of the contract.	
2.12.2	The Tender Security shall be: Kshs. 500,000.00 and must be valid for 365 days from the date the tender closure (i.e 3 rd June 2021). The Original Tender Security shall be dropped in the Tender Security Box.	
2.13.1	The tender validity period shall be for 335 days	
2.15.2	COMMISSIONER GENERAL	
	KENYA REVENUE AUTHORITY TIMES TOWER BUILDING	
	HAILE SELASSIE AVENUE	
	P.O. BOX 48240 – 00100	
	TEL: +254 20 310900	
	Website: www.kra.go.ke	
	Email: eprocurement@kra.go.ke	
	NAIROBI, KENYA.	
2.15.3	The Bidders to note that the COMBINED TECHNICAL AND FINANCIAL proposal shall be submitted through the KRA supplier portal. The bidder shall submit Combined technical and financial proposals electronically via the supplier portal in the Notes and attachment Section of the RFX (Tender).	
2.16.2	Deadline for submission is 4 th June 2020 at 11.00 a.m.	
2.16.3	Combined Technical and Financial Proposal (One Bid Document and	

	submit to the appropriate KRA E-procurement Web Portal found on the KRA website so as to be received on or before 4 th June 2020 at 11.00 a.m. Note: Submission should strictly be done to KRA E-procurement Web Portal
2.18.2	Combined Technical and Financial Proposal (One Bid Document)
2.23 (KRA's Officials)	Deputy Commissioner- Supply Chain Management P.O. BOX 48240 – 00100 TEL: +254 20 281 7022 E-MAIL: eprocurement@kra.go.ke

SECTION III: GENERAL CONDITIONS OF CONTRACT <u>Table of Clauses</u>

3.1	Definitions	21
3.2	Application	21
3.3	Country of Origin	21
3.4	Standards	21
3.5	Use of Contract Documents and Information	21
3.6	Patent Rights	22
3.7	Performance Security	22
3.8	Inspection and Tests	21
3.9	Packing	22
3.10	Delivery and Documents	22
3.11	Insurance	22
3.12	Payment	22
3.13	Price	22
3.14	Assignments	23
3.15	Sub contracts	23
3.16	Termination for Default	23
3.17	Liquidated Damages	23
3.18	Resolution of Disputes	23
3.19	Language and law	24
3.20	Force Majeure	24

SECTION III - GENERAL CONDITIONS OF CONTRACT

3.1 Definitions

- 3.1.1 In this Contract, the following terms shall be interpreted as indicated:-
 - (a) "The Contract" means the agreement entered into between the Procuring entity and the tendered, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - (b) "The Contract Price" means the price payable to the tendered under the Contract for the full and proper performance of its contractual obligations
 - (c) "The Goods" means all of the equipment, machinery, and/or other materials, which the tendered is required to supply to the Procuring entity under the Contract.
 - (d) "The Procuring entity" means Kenya Revenue Authority (KRA), the organization purchasing the Goods under this Contract.
 - (e) "The Tendered' means the individual or firm supplying the Goods under this Contract.

3.2 Application

3.2.1 These General Conditions shall apply in all Contracts made by the KRA for the procurement installation and commissioning of equipment.

3.3 Country of Origin

- 3.3.1 For purposes of this clause, "Origin" means the place where the Goods were mined, grown or produced.
- 3.3.2 The origin of Goods and Services is distinct from the nationality of the tendered.

3.4 Standards

3.4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications.

3.5 Use of Contract Documents and Information

3.5.1 The tendered shall not, without the KRA's prior written consent, disclose the Contract, or any provision therefore, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the KRA in connection therewith, to any person other than a person employed by the tendered in the performance of the Contract.

- 3.5.2 The tendered shall not, without the KRA's prior written consent, make use of any document or information enumerated in paragraph 3.5.1 above.
- 3.5.3 Any document, other than the Contract itself, enumerated in paragraph 3.5.1 shall remain the property of the Procuring entity and shall be returned (all copies) to the KRA on completion of the Tenderer's performance under the Contract if so required by the KRA.

3.6 Patent Rights

The tendered shall indemnify the Procuring entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the KRA's country.

3.7 Performance Security

3.7.1 Performance Security of 10% is required for this tender.

3.8 Inspection and Tests

- 3.8.1 The KRA or its representative shall have the right to inspect and/or to test the goods to confirm their conformity to the Contract specifications. The KRA shall notify the tendered in writing in a timely manner, of the identity of any representatives retained for these purposes.
- 3.8.2 The inspections and tests may be conducted in the premises of the tendered or its subcontractor(s), at point of delivery, and/or at the Goods' final destination If conducted on the premises of the tendered or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the KRA.
- 3.8.3 Should any inspected or tested goods fail to conform to the Specifications, the Procuring entity may reject the equipment, and the tendered shall either replace the rejected equipment or make alternations necessary to make specification requirements free of costs to the KRA.
- 3.8.4 The KRA's right to inspect, test and where necessary, reject the goods after the Goods' arrival shall in no way be limited or waived by reason of the equipment having previously been inspected, tested and passed by the Procuring entity or its representative prior to the equipment delivery.
- 3.8.5 Nothing in paragraph 3.8 shall in any way release the tendered from any warranty or other obligations under this Contract.

3.9 Packing

3.9.1 The tendered shall provide such packing of the Goods as is

- required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.
- 3.9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract.

3.10 Delivery and Documents

3.10.1 Delivery of the Goods shall be made by the tendered in accordance with the terms specified by Procuring entity in its Schedule of Requirements and the Special Conditions of Contract.

3.11 Insurance

3.11.1 The Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacturer or acquisition, transportation, storage, and delivery in the manner specified in the Special conditions of contract.

3.12 Indemnity

3.12.1 The Procuring Entity agrees to indemnify and hold harmless Contractor and its affiliates and each of their respective directors, officers, agents, employees and sub-contractors (each an "indemnitee"), and defend them from and against any and all claims (whether during or after the term) that may arise or result from the performance of obligations under the contract by or on behalf of Contractor, except to the extent any such claims result from a breach of this contract directly attributable to the gross negligence or wilful misconduct of such indemnitee

3.13 Payment

- 3.13.1 The method and conditions of payment to be made to the tendered under this Contract shall be specified in Special Conditions of Contract.
- 3.13.2 Payments shall be made promptly by the KRA as specified in the contract.

3.14 Prices

- 3.14.1 Prices charged by the tendered for goods delivered and services performed under the Contract shall not, with the exception of any price adjustments authorized in Special Conditions of Contract, vary from the prices by the tendered in its tender.
- 3.14.2 Contract price or quantity variations shall not be allowed for contracts not exceeding one year (12 months).
- 3.14.3 Where the cumulative value of all contract variations request

- should not result in an increment of the total contract price by more than twenty five (25%) of the original contract price.
- 3.14.4 The price or quantity variation shall be executed within the period of the contract; and
- 3.14.5 The request shall be processed by the procuring entity within 30 days of receiving the request.

3.15 Assignment

3.15.1 The tendered shall not assign, in whole or in part, its obligations to perform under this Contract, except with the KRA's prior written consent.

3.16 Subcontracts

3.16.1 The tendered shall notify the Procuring entity in writing of all subcontracts awarded under this Contract if not already specified in the tender. Such notification, in the original tender or later, shall not relieve the tendered from any liability or obligation under the Contract.

3.17 Termination for Default

- 3.17.1 The KRA may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the tendered, terminate this Contract in whole or in part:
 - (a) if the tendered fails to deliver any or all of the goods within the periods) specified in the Contract, or within any extension thereof granted by the KRA;
 - (b) if the tendered fails to perform any other obligation(s) under the Contract:
 - (c) If the tendered, in the judgment of the KRA has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- 3.17.2 In the event the KRA terminates the Contract in whole or in part, it may procure, upon such terms and in such manner as it deems appropriate, equipment similar to those undelivered, and the tenderer shall be liable to the Procuring entity for any excess costs for such similar goods.

3.18 Liquidated Damages

3.18 If the tenderer fails to deliver any or all of the goods within the period(s) specified in the contract, the procuring entity shall, without prejudice to its other remedies under the contract, deduct from the contract prices liquidated damages sum equivalent to 0.5% of the delivered price of the delayed items up to a maximum deduction of 10% of the delayed goods. After this the tenderer may consider termination of the contract.

3.19 Resolution of Disputes

- 3.19.1 The KRA and the tenderer shall make every effort to resolve amicably by direct informal negotiation and disagreement or dispute arising between them under or in connection with the contract
- 3.19.2 If, after thirty (30) days from the commencement of such informal negotiations both parties have been unable to resolve amicably a contract dispute, either party may require adjudication in an agreed national or international forum, and/or international arbitration.

3.20 Language and Law

3.20.1 The language of the contract and the law governing the contract shall be English language and the Laws of Kenya respectively unless otherwise stated.

3.21 Force Majeure

3.21.1 The tenderer shall not be liable for forfeiture of its performance security or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

SECTION IV - SPECIAL CONDITIONS OF CONTRACT

- 4.1. Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, between the GCC and the SCC, the provisions of the SCC herein shall prevail over these in the GCC.
- 4.2. Special conditions of contract as relates to the GCC.

REFERENCE	SPECIAL CONDITIONS OF CONTRACT
OF GCC	
3.7.1	The performance bond will be required for this tender.
3.10	Delivery
	The LAN Materials must be delivered at Times Tower at the times indicated in the delivery schedule by the successful bidder(s) from the date of receiving the Purchase Order (LPO).
	The LAN Installation must be delivered at identified KRA Stations at the times indicated in the delivery schedule by the successful bidder(s) from the date of receiving the Service Order (LSO).
	The requirements may be adjusted by giving a short notice.
3.12	Payment Terms The Kenya Revenue Authority (KRA) payment terms are that payment shall be made within thirty (30) days from the

The Kenya Revenue Authority (KRA) payment terms are that payment shall be made within thirty (30) days from the date of delivery and provision of all supporting documents. However, KRA may negotiate mutually acceptable payment terms with the successful tenderer.

3.13 Prices

Prices charged by the tenderer for goods delivered and services performed under the Contract shall not, with the exception of any price adjustments authorized in Special Conditions of Contract, vary from the prices by the tenderer in its tender. No Contract shall be varied upwards with twelve (12) months from the date of signing of the Contract.

3.17 **Liquidated Damages**

If the delivery date is extended (except by mutual consent) a penalty amounting to 0.5% of the total cost will be charged per day up to a maximum of thirty (30) days. No deliveries shall be accepted after the thirtieth working day in which case the LPO will automatically lapse and be deemed to have been cancelled at the close of business on the twentieth day. The Authority shall then be at liberty to realize the

performance bond. In this clause, "days" means calendar days.

3.18.1 **Resolutions of Disputes**

Any dispute, controversy or claim between the Parties arising out of this Contract or the breach, termination or invalidity thereof, unless settled amicably under the preceding paragraph of this Article within sixty (60) days after receipt by one Party of the other Party's request for such amicable settlement, shall be referred by either Party to arbitration in accordance with the UNCITRAL Arbitration Rules then obtaining. *The place of arbitration shall be Nairobi*. The arbitral tribunal shall have no authority to award punitive damages. In addition, unless otherwise expressly provided in this Contract, the arbitral tribunal shall have no authority to award interest. The parties shall be bound by any arbitration award rendered as a result of such arbitration as the final adjudication of any such controversy, claim or dispute.

3.19 **Language and Law**

The language of all correspondence and documents related to the bid is: *English*. Unless explicitly specified in the Technical Requirements section, the key passages of all accompanying printed literature in any other language must be translated into the above language.

SECTION V - TECHNICAL SPECIFICATIONS

5.1 General

5.1.1 The specifications describe the requirements for goods.

Tenderers must indicate on the specifications sheets whether the Goods offered comply with each specified requirement.

All the dimensions and capacities of the Goods to be supplied shall not be less than those required in these specifications. Deviations from the basic requirements, if any shall be explained in detail in writing with the offer, with supporting data such as calculation sheets, etc.

The procuring entity reserves the right to reject the products, if such deviations shall be found critical to the use and operation of the products.

Kenya Revenue Authority will require the selected Bidders to give an undertaking that any required changes during the period, will be incorporated in the tender as appropriate.

- 5.1.2 The tenderers are requested to present information along with their offers as follows:
 - (i) Shortest possible delivery period of each product/service

5.2 Particulars

Kenya Revenue is intending to procure Three (3) Years Framework Contract for Supply and Delivery of LAN Materials and Installation Services as detailed in the price schedule.

The orders will be on need basis for a period of thirty six (36) months starting from the date of signing contract and estimated annual quantities are the projected units.

TECHNICAL REQUIREMENTS:

1.0 BACKGROUND

Over the years, KRA has implemented Local Area Networks (LANs) in various stations countrywide.

These LANs in over 60 locations were initially installed to provide access to about 4500 staff. However, the number of staff has grown over time and currently stands at over 8000. This growth has not been accompanied by a corresponding upgrade in the Authority's LAN infrastructure, and for a while this has led to the installation of unstructured temporary LANs. To address the challenges arising out of the makeshift LANS, KRA intends to procure framework contracts for materials and installation services to support the implementation of critical LANs over a 3 year period.

The LAN infrastructure service procured by KRA under this three (3)-year framework contracts aims to address the following challenges;

- 1. The need to install a new LAN for an upcoming KRA station on short notice. The current practice of procuring LANs for new stations as a standalone is not sustainable given the time it takes to complete the procurement process.
- 2. The need to Revamp/upgrade/replace an old LAN as may be required.
- 3. The need to provide additional data points to expand an existing LAN in order to accommodate more users.

The Kenya Revenue Authority therefore intends to enter into a framework contract with eligible tenderers/supplies/contractors for;

- i) The supply and delivery of LAN materials and accessories on "AS AND WHEN REQUIRED" basis for a period of 3 years. The LAN materials and accessories will be procured under **Lot 1**, **Lot 2** and **Lot 3** and the scope is limited to supply and delivery only.
- Local Area Network (LAN) Installation services (**Labour only**) on "AS AND WHEN REQUIRED" basis for a period of 3 years. The Authority will procure this service under **Lot 4** and shall sign a Three (3) year framework contract with a suitable contractor to provide LAN installation services in any KRA station where the service is required during the contract period. Detailed description on the scope of works for this lot is provided in the technical specifications under **Lot 4**.

Minimum annual quantities have been provided as a guide but the quantities may vary based on the actual needs.

2.0 TECHNICAL SPECIFICATIONS

LOT I: STRUCTURED CABLING MATERIALS

1. FIBER CABLES

1.1 Minimum Technical Specifications for 12 Core Multimode Armored Fiber Cable

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years(bidder must specify brand)	
2.	Jacket characteristics & Material	Water Blocking Aramid Yarn Armored PVC	
3.	Mode of operation	Multimode	
4.	Core density	12 cores	
5.	Attenuation (Max)	3.50 dB/km @ 850nm	
6.	Standards	Optical and mechanical performance: IEC 60794-2, IEC 60794-2-20, ISO 11801, EN 50173-1	

1.2 Minimum Technical Specifications for 24 Core Multimode Armored Fiber Cable

	Feature	Minimum Requirements	Bidder's response
1.		Internationally recognized, matured brand, in existence for at least 10 years(bidder must specify brand)	

2.	Jacket	Water Blocking Aramid Yarn	
	characteristics & Material	Armored	
		PVC	
3.	Mode of operation	Multimode	
4.	Core density	24 cores	
5.	Attenuation (Max)	3.50 dB/km @ 850nm	
6.	Standards	Optical and mechanical performance: IEC 60794-2, IEC 60794-2-20, ISO 11801, EN 50173-1	

1.3 Minimum Technical Specifications for 12 Core Single Mode Armored Fiber Cable

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for	
		at least 10 years(bidder must specify brand)	
2.	Jacket	Water Blocking Aramid Yarn	
	characteristics & Material	Armored	
		PVC	
3.	Mode of operation	Single mode	
	operation		
4.	Core density	12 cores	
5.	Attenuation (Max)	3.50 dB/km @ 850nm	
	· · · /		

6.	Standards	Optical and mechanical performance: IEC 60794-2, IEC
		60794-2-20, ISO 11801, EN 50173-1

2. FIBER ODF

2.1 Minimum Technical Specifications for 12 Port Multimode Modular Fiber ODF

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand	
2.	Mode of operation	Multimode	
3.	Port density	12 ports	
4.	Form Factor	1HU	
5.	Adapter Support	Must support either LC or SC whichever is compatible with the supplied uplink fiber and switch port.	
6.	Accessories	Fibre optic adapters, blanks and Pigtail connectors	

2.2 Minimum Technical Specifications for 24 Port Multimode Modular Fiber ODF

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand	
2.	Mode of operation	Multimode	

3.	Port density	24 ports	
4.	Form Factor	1HU	
5.	Adapter Support	Must support either LC or SC whichever is compatible with the supplied uplink fiber and switch port.	
6.	Accessories	Fibre optic adapters, blanks and Pigtail connectors	

2.3 Minimum Technical Specifications for 12 Port Single-Mode Modular Fiber ODF

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand	
2.	Mode of operation	Single-Mode	
3.	Port density	12 ports	
4.	Form Factor	1HU	
5.	Adapter Support	Must support either LC or SC whichever is compatible with the supplied uplink fiber and switch port.	
6.	Accessories	Fibre optic adapters, blanks and Pigtail connectors	

3. FIBER SFP MODULES (SMALL FACTOR PLUGGABLE TRANSCEIVERS)

3.1 Minimum Technical Specifications for 1G Multimode SFP Transceiver Modules

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand (bidder must specify brand)	
2.	Mode of operation	Multimode	
3.	Compatibility	Must be compatible with Cisco switches	
4.	Form Factor	Small pluggable form factor	
5.	Capacity	1 Gigabyte (1G)	

3.2 Minimum Technical Specifications for 10G Multimode SFP Transceiver Modules

	Feature	Minimum Requirements	Bidder's response
1	Brand	Internationally recognized, matured brand (bidder must specify brand)	
2	Mode of operation	Multimode	
3	Compatibility	Must be compatible with Cisco switches	
4	Form Factor	Small pluggable form factor	
5	Capacity	10 Gigabyte (10G)	

3.3 Minimum Technical Specifications for 1G Single-Mode SFP Transceiver Modules

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand (bidder must specify brand)	
2.	Mode of operation	Single-Mode	
3.	Compatibility	Must be compatible with Cisco switches	
4.	Form Factor	Small pluggable form factor	
5.	Capacity	1 Gigabyte (1G)	

3.4 Minimum Technical Specifications for 10G Single-Mode SFP Transceiver Modules

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand (bidder must specify brand)	
2.	Mode of operation	Single-Mode	
3.	Compatibility	Must be compatible with Cisco switches	
4.	Form Factor	Small pluggable form factor	
5.	Capacity	10 Gigabyte (10G)	

4. FIBER PATCH CORDS

4.1 Minimum Technical Specifications for 1.5M SC-LC Multimode Fiber Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years.	
2.	Mode	Multimode OM3 50/125	
3.	Connector	Must be SC-LC	
4.	Length	1.5 m	

4.2 Minimum Technical Specifications for 3M SC-LC Multimode Fiber Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years.	
2.	Mode	Multimode OM3 50/125	
3.	Connector	Must be SC-LC	
4.	Length	3 m	

4.3 Minimum Technical Specifications for 3M LC-LC Multimode Fiber Patch cords

	Feature	Minimum Requirements	Bidder's response
1	Brand	Internationally recognized, matured brand, in existence for at least 10 years.	

2.	Mode	Multimode OM3 50/125	
3.	Connector	Must be LC-LC	
4.	Length	1 m	

4.4 Minimum Technical Specifications for 5M LC-LC Multimode Fiber Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years.	
2.	Mode	Multimode OM3 50/125	
3.	Connector	Must be LC-LC	
4.	Length	5m	

4.5 Minimum Technical Specifications for 1.5M SC-LC Single-Mode Fiber Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years.	
2.	Mode	Single mode OS1/OS2	
3.	Connector	Must be SC-LC	
4.	Length	1.5 m	

4.6 Minimum Technical Specifications for 3M SC-LC Single-Mode Fiber Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years.	
2.	Mode	Single mode OS1/OS2	
3.	Connector	Must be SC-LC	
4.	Length	2 m	

5. UTP Ethernet Cable

5.1 Minimum Technical Specifications for CAT 6 UTP Ethernet Cable

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years (bidder must specify brand)	
2.	Category	CAT 6 UTP	
3.	Size	4-Pair solid, Gauge: 24 AWG	
4.	Operating frequency	250 to 550 MHZ	
5.	Standards	TIA-568.2-D, IEC 61156-5, ISO/IEC 11801-1 Ed.1.0	

5.2 Minimum Technical Specifications for CAT 6A UTP Ethernet Cable

	Feature	Minimum Requirements	Bidder's response
6.	Brand	Internationally recognized, matured brand, in existence for at least 10 years (bidder must specify brand)	
7.	Category	CAT 6A UTP	
8.	Size	4-Pair solid, Gauge: 23 AWG	
9.	Operating frequency	500 t0 550 MHZ	
10	Standards	TIA/EIA 568 A/B, ISO/IEC 11801	

5.3 Minimum Technical Specifications for CAT 7 UTP Ethernet Cable

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years (bidder must specify brand)	
2.	Category	CAT 7 UTP	
3.	Shielding	4 separately foil-shielded pairs	
4.	Size	4-Pair solid, Gauge: 23 AWG	
5.	Operating frequency	600 MHZ	
6.	Standards	TIA/EIA 568 A/B, ISO/IEC 11801	

6. ETHERNET PATCH PANEL

6.1 Minimum Technical Specifications for CAT 6A 48-Port Ethernet Patch Panel

6.1	Minimum Technical Specifications for CAT 6A 48-Port Ethernet Patch Panel			
	Feature	Minimum Requirements	Bidder's response	
1.	Brand	Internationally recognized brand		
2.	Port Density	48 port		
3.	Cable Management	Rear Cable management bar installed		
4.	Labels	Printable labels MUST be available		
5.	Wiring	T568A/T568B compliant and easy to read		
6.	Contact materials	Plated phosphor bronze, stainless steel		
7.	Mounting	CEA-310-E 19-inch (482.6 mm) rack		
8.	Current rating	1.5 A		
9.	Contact resistance	20 mΩ		
10.	Insulation resistance	500 ΜΩ		
11.	Panel material	18 gauge cold rolled steel, black e-coated		
12.	Category and compatibility	CAT6A and downward compatible with CAT5e/CAT5		

6.2 Minimum Technical Specifications for CAT 6A 24-Port Ethernet Patch Panel

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized brand	
2.	Port Density	24 port	
3.	Cable Management	Rear Cable management bar installed	
4.	Labels	Printable labels MUST be available	
5.	Wiring	T568A/T568B compliant and easy to read	
6.	Contact materials	Plated phosphor bronze, stainless steel	
7.	Mounting	CEA-310-E 19-inch (482.6 mm) rack	
8.	Current rating	1.5 A	
9.	Contact resistance	$20~\mathrm{m}\Omega$	
10.	Insulation resistance	$500~\mathrm{M}\Omega$	
11.	Panel material	18 gauge cold rolled steel, black e-coated	
12.	Category and compatibility	CAT6A and downward compatible with CAT5e/CAT5	

6.3 Minimum Technical Specifications for CAT 7 48-Port Ethernet Patch Panel

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized brand	
2.	Port Density	48 port	
3.	Cable Management	Rear Cable management bar installed	
4.	Labels	Printable labels MUST be available	
5.	Wiring	T568A/T568B compliant and easy to read	
6.	Contact materials	Plated phosphor bronze, stainless steel	
7.	Mounting	CEA-310-E 19-inch (482.6 mm) rack	
8.	Current rating	1.5 A	
9.	Contact resistance	20 mΩ	
10.	Insulation resistance	$500~\mathrm{M}\Omega$	
11.	Panel material	18 gauge cold rolled steel, black e-coated	
12.	Category and compatibility	CAT6A and downward compatible with CAT5e/CAT5	

6.4 Minimum Technical Specifications for CAT 7 24-Port Ethernet Patch Panel

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized brand	
2.	Port Density	24 port	
3.	Cable Management	Rear Cable management bar installed	
4.	Labels	Printable labels MUST be available	
5.	Wiring	T568A/T568B compliant and easy to read	
6.	Contact materials	Plated phosphor bronze, stainless steel	
7.	Mounting	CEA-310-E 19-inch (482.6 mm) rack	
8.	Current rating	1.5 A	
9.	Contact resistance	$20~\mathrm{m}\Omega$	
10.	Insulation resistance	$500~\mathrm{M}\Omega$	
11.	Panel material	18 gauge cold rolled steel, black e-coated	
12.	Category and compatibility	CAT6A and downward compatible with CAT5e/CAT5	

6.5 Minimum Technical Specifications for 24-Port PoE Injector

0.3	William Technical Specifications for 24-1 of the injector			
	Feature	Minimum Requirements	Bidder's response	
1	Brand	Internationally recognized brand		
2	Port Density	24 output ports of 100/1000Mbps Auto-Negotiation RJ45 PoE ports (POWER+DATA OUT)		
3	Network Media	EIA/TIA-568 100 STP (maximum 100m) 1000BASE- T: UTP category 5, 5e, 6 cable (Max 100m)		
4	Connector type	RJ-45		
5	Standard	IEEE 802.3af PoE		
6	Input power	240V AC 50/60Hz		
7	Maxi Output Power	Per port 48V DC, 15.4 watts		
8	Panel size	1U (height)		

7. DATA OUTLETS

7.1 Minimum Technical Specifications for CAT 6A Single Gang Data Outlets

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years (bidder must specify brand and model)	
2.	Assembly	CAT 6 A double angled RJ45 outlet modules installed on Single gang face plates	
3.	Contact	20 mΩ	

	resistance		
4.	Insulation Resistance	500 MΩ	
5.	Current rating	1.5 A PoE , PoE+	
6.	Contact Materials	Plated phospher bronze, stainless steel	
7.	Plug compatibility	Compatible with RJ45 (8-position) plugs Should also be backward compatible to cat 5e	

7.2 Minimum Technical Specifications for CAT 6A Double Gang Data Outlets

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years (bidder must specify brand and model)	
2.	Assembly	CAT 6 A quadruple angled RJ45 outlet modules installed on double gang face plates	
3.	Contact resistance	20 mΩ	
4.	Insulation Resistance	500 MΩ	
5.	Current rating	1.5 A PoE , PoE+	

6.	Contact	Plated phospher bronze, stainless steel	
	Materials		
7.	Plug	Compatible with RJ45 (8-position) plugs	
	compatibility	Should also be backward compatible to cat 5e	

7.3 Minimum Technical Specifications for CAT 7 Single Gang Data Outlets

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years (bidder must specify brand and model)	
2.	Assembly	CAT 7 double angled RJ45 outlet modules installed on Single gang face plates	
3.	Contact resistance	$20 \text{ m}\Omega$	
4.	Insulation Resistance	500 MΩ	
5.	Current rating	1.5 A PoE , PoE+	
6.	Contact Materials	Plated phospher bronze, stainless steel	
7.	Plug compatibility	Compatible with RJ45 (8-position) plugs Should also be backward compatible to cat 5e	

7.4 Minimum Technical Specifications for CAT 7 Double Gang Data Outlets

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years (bidder must specify brand and model)	
2.	Assembly	CAT 7 quadruple angled RJ45 outlet modules installed on Single gang face plates	
3.	Contact resistance	20 mΩ	
4.	Insulation Resistance	$600~\mathrm{M}\Omega$	
5.	Current rating	1.5 A PoE , PoE+	
6.	Contact Materials	Plated phospher bronze, stainless steel	
7.	Plug compatibility	Compatible with RJ45 (8-position) plugs Should also be backward compatible to cat 5e	

8. ETHERNET PATCH CORDS

8.1 Minimum Technical Specifications for 1M CAT 6A Ethernet Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years, must be of the same specifications with the Ethernet cable (bidder must specify brand)	
2.	Category	CAT 6A 4-pair Ethernet cable	
3.	Length	1 M	
4.	Boot Color	With colour matching jacket/ boot to labelling on the faceplates	

8.2 Minimum Technical Specifications for 1.5M CAT 6A Ethernet Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years, must be of the same specifications with the Ethernet cable (bidder must specify brand)	
2.	Category	CAT 6A 4-pair Ethernet cable	
3.	Length	1.5 M	
4.	Boot Color	With colour matching jacket/ boot to labelling on the faceplates	

8.3 Minimum Technical Specifications for 3M CAT 6A Ethernet Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years, must be of the same specifications with the Ethernet cable (bidder must specify brand)	
2.	Category	CAT 6A 4-pair Ethernet cable	
3.	Length	3 M	
4.	Boot Color	With colour matching jacket/ boot to labelling on the faceplates	

8.4 Minimum Technical Specifications for 5M CAT 6A Ethernet Patch cords

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand, in existence for at least 10 years, must be of the same specifications with the Ethernet cable (bidder must specify brand)	
2.	Category	CAT 6A 4-pair Ethernet cable	
3.	Length	5 M	
4.	Boot Color	With colour matching jacket/ boot to labelling on the faceplates	

9. NETWORK CABINET

9.1 Minimum Technical Specifications for 22U Data Cabinet

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand	
2.	Form Factor	22 U floor standing standard data cabinet	
3.	Construction	Front door: with glass window	
		Rear door: high-flow mesh Both doors keyed locks for security	
		Heavy duty solid sides	
		Installed axial fan kits	
4.	Power outlets in the cabinet	6-Way universal PDU 3A/220 - 240 V AC earthed and fused with shutters	
5.	Cable manager	Installed with cable manager for both horizontal/backbone cabling and patch cords.	

9.2 Minimum Technical Specifications for 32U Data Cabinet

	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand	
2.	Form Factor	32 U floor standing standard data cabinet	
3.	Construction	Front door: with glass window Rear door: high-flow mesh	

		Both doors keyed locks for security	
		Heavy duty solid sides	
		Installed axial fan kits	
4.	Power outlets in the cabinet	6-Way universal PDU 3A/220 - 240 V AC earthed and fused with shutters	
5.	Cable manager	Installed with cable manager for both horizontal/backbone cabling and patch cords.	

9.3 Minimum Technical Specifications for 42U Data Cabinet

7.5		1 st. t B	Dill 4
	Feature	Minimum Requirements	Bidder's response
1.	Brand	Internationally recognized, matured brand	
2.	Form Factor	42 U floor standing standard data cabinet	
3.	Construction	Front door: with glass window	
		Rear door: high-flow mesh	
		Both doors keyed locks for security	
		Heavy duty solid sides	
		Installed axial fan kits	
4.	Power outlets	6-Way universal PDU 3A/220 - 240 V AC earthed	
	in the cabinet	and fused with shutters	
5.	Cable manager	Installed with cable manager for both	
		horizontal/backbone cabling and patch cords.	

10. TRUNKING

10.1 Minimum Technical Specifications for 200mmx50mm Partitioned Trunking

	Feature	Minimum Requirements	Bidder's response
1.	Material	Powder coated metal trunking with pre-punched fixing holes for permanent wall structures	
2.	Size	200mm by 50mm, two compartments	
3.	Length	2.4 M	
4.	Gauge	Heavy duty	

10.2 Minimum Technical Specifications for 100mmx50mm Partitioned Trunking

	Feature	Minimum Requirements	Bidder's response
1.	Material	Powder coated metal trunking with pre-punched fixing holes for permanent wall structures	
2.	Size	100mm by 50mm, two compartments	
3.	Length	2.4 M	
4.	Gauge	Heavy duty	

10.3 Minimum Technical Specifications for 200mmx50mm Curved Floor Partitioned Trunking

	Feature	Minimum Requirements	Bidder's response
1.	Material	Powder coated metal trunking with pre-punched fixing holes for permanent wall structures	

2.	Size	200mm by 50mm, two compartments	
3.	Length	2.4 M	
4.	Gauge	Heavy duty	

10.4 Minimum Technical Specifications for 100mmx50mm Curved Floor Partitioned Trunking

	Feature	Minimum Requirements	Bidder's response
1.	Material	Powder coated metal trunking with pre-punched fixing holes for permanent wall structures	
2.	Size	100mm by 50mm, two compartments	
3.	Length	2.4 M	
4.	Gauge	Heavy duty	

10.5 Minimum Technical Specifications for 200mm Service Plates/Knockouts

	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Width	200mm	
3.	Compatibility	Compatible with 100mm by 50mm trunking	
4.	Gauge	Heavy duty	

10.6 Minimum Technical Specifications for 100mm Service Plates/Knockouts

	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Width	100mm	
3.	Compatibility	Compatible with 200mm by 50mm trunking	
4.	Gauge	Heavy duty	

10.7 Minimum Technical Specifications for 200mm Curved Service Plates/Knockouts

	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Width	200mm	
3.	Compatibility	Compatible with 100mm by 50mm curved floor trunking	
4.	Gauge	Heavy duty	

10.8 Minimum Technical Specifications for 100mm Curved Service Plates/Knockouts

	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Width	100mm	
3.	Compatibility	Compatible with 200mm by 50mm curved floor trunking	
4.	Gauge	Heavy duty	

10.9 Minimum Technical Specifications for 150mmx50mm Partitioned Trunking

	Feature	Minimum Requirements	Bidder's response
1.	Material	Powder coated metal trunking with pre-punched fixing holes for permanent wall structures	
2.	Size	150mm by 50mm, two compartments	
3.	Length	2.4 M	
4.	Gauge	Heavy duty	

10.10 Minimum Technical Specifications for 150mm Service Plates/Knockouts

	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Width	150mm	
3.	Compatibility	Compatible with 100mm by 50mm trunking	
4.	Gauge	Heavy duty	

10.11 Minimum Technical Specifications for 230mm Service Plates/Knockouts. Customized colour (White)

	Francisco Minimo Deminimo de Dillora como de		
	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Colour	White (Sample will be provided)	
3.	Width	230mm	
4.	Compatibility	Compatible with 100mm by 50mm trunking	
5.	Gauge	Heavy duty	

10.12 Minimum Technical Specifications for 200mm Service Plates/Knockouts. Customized colour (White)

	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Colour	White (Sample will be provided)	
3.	Width	200mm	
4.	Compatibility	Compatible with 100mm by 50mm trunking	
5.	Gauge	Heavy duty	

10.13 Minimum Technical Specifications for 200mm Service Plates/Knockouts. Customized colour (Brown)

	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Colour	Brown (Sample will be provided)	
3.	Width	200mm	
4.	Compatibility	Compatible with 100mm by 50mm trunking	
5.	Gauge	Heavy duty	

10.14 Minimum Technical Specifications for 200mm Curved Service Plates/Knockouts

	Feature	Minimum Requirements	Bidder's response
1.	Material	Metallic and same color as trunking	
2.	Width	150mm x150mm	
3.	Height	500mm	

4.	Mounting	Floor	
5.	Outlets	4 twin outlets and 4 singles	
6.	Compatibility	Compatible with 200mm by 50mm curved floor trunking	
7.	Gauge	Heavy duty	

10.15 Minimum Technical Specifications for 75mmx25mm Partitioned Trunking

	Feature	Minimum Requirements	Bidder's response
1.	Material	Powder coated metal trunking with pre-punched fixing holes for permanent wall structures	
2.	Size	200mm by 50mm, two compartments	
3.	Length	1.2 M	
4.	Gauge	Heavy duty	

11. PERFORATED CABLE TRAYS

11.1 Minimum Technical Specifications for 100mmx50mm Perforated cable trays

	Feature	Minimum Requirements	Bidder's Response
1.	Material	Perforated galvanized tray	
2.	Length	2.4 M	
3.	Size	100mm by 50mm	
4.	Gauge	2mm thick	

11.2 Minimum Technical Specifications for 200mmx50mm Perforated cable trays

	Feature	Minimum Requirements	Bidder's Response
1.	Material	Perforated galvanized tray	
2.	Length	2.4 M	
3.	Size	200mm by 50mm	
4.	Gauge	2mm thick	

12 PATTRESS BOX

12.1 Minimum Technical Specifications for Single Gang Pattress Box

	Feature	Minimum Requirements	Bidder's Response
1.	Size	150mm x 75mm x 35mm	
2.	Material	Brushed Steel or powder coated steel.	
3.	Assembly	Single Gang complete with screws	

12.2 Minimum Technical Specifications for Double Gang Pattress Box

	Feature	Minimum Requirements	Bidder's Response
1.	Size	75mm x 75mm x 35mm	
2.	Material	Brushed Steel or powder coated steel.	
3.	Assembly	Double Gang complete with screws	

LOT II: TECHNICAL SPECIFICATIONS FOR ACTIVE EQUIPMENT AND UPS

1. SWITCHES

1.1 MANAGED SWITCHES

1.1.1 Minimum Technical Specifications for 48-Port Managed Access Switch

	Feature	Minimum Requirements	Bidder's Response
1.	General	Enterprise standalone, High-density, High performance,	
1.	Descriptive Requirement	Gigabit Ethernet switch. Layer 2 switching and basic routing to be supported.	
		The switch <u>MUST</u> provide a seamless integration with the existing KRA network.	
2.	Model and Technology	Mature internationally recognized brand, in existence for at least 10 years (bidder must specify brand, model and series). The device <u>MUST NOT</u> be a product that has/is reaching end of life support/end of sale in two years' time.	
3.	Network Ports	48 PoE+ Ethernet 10/100/1000 ports, 4 - SFP transceiver-based Gigabit Ethernet ports.	
4.	Routing and Layer 3 Features	Must support Advanced Layer 3 capabilities including OSPF, EIGRP, ISIS, RIP and routed access	
5.	Other Features	Must support (IPv4 and IPv6) features, advanced quality of service (QoS), rate limiting, Access Control Lists (ACLs)	

6.	Compliance	IEEE 802.1Q, 802.1p, 802.3x
		Ethernet: IEEE 802.3, 10BaseT, and 10BaseFL
		PoE+
		Fast Ethernet: IEEE 802.3u, 100BaseTX, 10BaseFX
		Gigabit Ethernet: IEEE 802.3z.
		Compatible with different vendors' network equipment e.g. 3com, Nortel, Cisco.
7.	Network Monitoring	Compliant with IEEE SNMP standards. Capable of monitoring the Network up to Node Level. Management by a well-known and developed proprietary OS.
8.	Spanning Tree Protocol Technology	Support for Spanning Tree Protocol Technology
9.	VLAN support	Compliant with IEEE 802.1Q standards- should support VLANS/Network Segmentation.
10.	Security	Port Level Security e.g. Port Filtering, Access Control Lists, Policy based routing etc. Management by a recognized proprietary operating system.
11.	Operation	Auto negotiating on all ports automatically selects half- or full-duplex transmission mode to optimize bandwidth.
		Can support converged wired and wireless access.
		Per-port broadcast, multicast, and unicast storm control prevents faulty end stations from degrading overall systems performance.

12.	Software IOS release	Should be delivered with the latest version and supported IOS release
13.	Power input	Dual power supply units
		240 VAC, 50-60 Hz
14.	Fan	Dual fan modules, field-replacable
15.	Warranty & Support	Minimum 3 years on Parts, labour and software and next business day replacement for any hardware failure that may occur. In addition, the equipment <u>MUST</u> include the manufacturer's premier technical support services that include:
		Accelerated hardware replacement options, Operating system updates, Access to Manufacturer's technical assistance team, Online troubleshooting / support tools and proactive problem diagnosis services.

1.1.2 Minimum Technical Specifications for 24-Port Managed Access Switch

	Feature	Minimum Requirements	Bidder's Response
1.	General Descriptive	Enterprise standalone, High-density, High performance, Gigabit Ethernet switch. Layer 2 switching and basic	
	Requirement	routing to be supported.	
		The switch <u>MUST</u> provide a seamless integration with the existing KRA network.	
	N/ 11 1		
2.	Model and Technology	Mature internationally recognized brand, in existence for at least 10 years (bidder must specify brand, model	
	recimology	and series). The device <u>MUST NOT</u> be a product that	
		has/is reaching end of life support/end of sale in two	
		years' time.	
3.	Network Ports	24 PoE+ Ethernet 10/100/1000 ports, 4 - SFP	
		transceiver-based Gigabit Ethernet ports.	
4.	8	Must support Advanced Layer 3 capabilities including	
	Layer 3 Features	OSPF, EIGRP, ISIS, RIP and routed access	
5.	Other Features	Must support (IPv4 and IPv6) features, advanced quality of service (QoS), rate limiting, Access Control	
	reatures	Lists (ACLs)	
6.	Compliance	IEEE 802.1Q, 802.1p, 802.3x	
		Ethernet: IEEE 802.3, 10BaseT, and 10BaseFL	
		PoE+	
		Fast Ethernet: IEEE 802.3u, 100BaseTX, 10BaseFX	

		Gigabit Ethernet: IEEE 802.3z.	
		Compatible with different vendors' network equipment e.g. 3com, Nortel, Cisco.	
7.	Network Monitoring	Compliant with IEEE SNMP standards. Capable of monitoring the Network up to Node Level. Management by a well-known and developed proprietary OS.	
8.	Spanning Tree Protocol Technology	Support for Spanning Tree Protocol Technology	
9.	VLAN support	Compliant with IEEE 802.1Q standards- should support VLANS/Network Segmentation.	
10.	Security	Port Level Security e.g. Port Filtering, Access Control Lists, Policy based routing etc. Management by a recognized proprietary operating system.	
11.	Operation	Auto negotiating on all ports automatically selects half- or full-duplex transmission mode to optimize bandwidth.	
		Can support converged wired and wireless access.	
		Per-port broadcast, multicast, and unicast storm control prevents faulty end stations from degrading overall systems performance.	
12.	Software IOS release	Should be delivered with the latest version and supported IOS release	
13.	Power input	Dual power supply units	

		240 VAC, 50-60 Hz	
14.	Fan	Dual fan modules, field-replacable	
15.	Warranty & Support	Minimum 3 years on Parts, labour and software and next business day replacement for any hardware failure that may occur. In addition, the equipment <u>MUST</u> include the manufacturer's premier technical support services that include: Accelerated hardware replacement options, Operating system updates, Access to Manufacturer's technical	
		assistance team, Online troubleshooting / support tools and proactive problem diagnosis services.	

1.2 UNMANAGED SWITCHES

1.2.1 Minimum Technical Specifications for 8-Port Unmanaged Switch

	Feature	Minimum Requirements	Bidder's Response
1.	Model and Technology	Mature internationally recognized brand, in existence for at least 10 years (bidder must specify brand and model).	
2.	Network Ports	8*10/100Mbps auto-negotiation RJ45 ports, supports auto	

		MDI/MDIX	
3.	Compliance	IEEE 802.3x flow control provides reliable data transfer	
4.	Form factor	Desktop/wall-mounting design	
5.	Other Features	Plug and play, no configuration required	

1.2.2 Minimum Technical Specifications for 8-Port Unmanaged POE Switch

	Feature	Minimum Requirements	Bidder's Response
1.	Model and	Mature internationally recognized brand, in existence for at	
	Technology	least 10 years (bidder must specify brand and model).	
2.	Network Ports	8 PoE+ 10/100/1000Mbps auto-negotiation RJ45 ports, supports auto MDI/MDIX	
3.	Compliance	IEEE 802.3x flow control provides reliable data transfer	
4.	PoE+	Must have Power over Ethernet capability, to support high- powered devices such as wireless Access Points (APs), IP Cameras or IP Phones	
5.	Form factor	Desktop/wall-mounting design	
6.	Other Features	Plug and play, no configuration required	

2. UNINTERRUPTED POWER SUPPLY (UPS)

2.1 Minimum Technical Specifications for 1.5KVA Rack-mounted UPS

	Feature	Minimum Requirement	Bidders Response	
	Output			
1.	Output Power Capacity	900 Watts / 1500 VA		
2.	Max Configurable Power	900 Watts / 1500 VA		
3.	Nominal Output Voltage	230V		
4.	Output Voltage Distortion	Less than 5% at full load		
5.	Output Frequency (sync to mains)	47 - 53 Hz for 50 Hz nominal, 57 - 63 Hz for 60 Hz nominal		
6.	Topology	Line interactive		
7.	Waveform Type	Stepped approximation to a Sine wave		
8.	Output Connections	Four (4) IEC 320 C13 Two (2) IEC jumpers		
		Input		
9.	Nominal Input Voltage	230V		
10.	Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)		
11.	Input Connections	IEC-320 C14		
12.	Battery Type	Maintenance free sealed lead-acid with suspended electrolyte, leak proof		
13.	Input voltage range for	180 - 287V		

	main operations		
14.	Input voltage	170 - 300V	
	adjustable range for		
	mains operation		
	Typical recharge time	3 hour(s)	
16.	Typical Backup Time	20.9 minutes (432.5 Watts)	
	at Half Load		
17.	Typical Backup Time	7.6 minutes (865 Watts)	
	at Full Load		
	L	Communications & Mar	nagement
18.	Interface Ports	RJ-45 Serial, USB	
19.	Control panel	Multi-function LCD status and control console	
20.	Audible Alarm	Alarm when on battery : distinctive low	
		battery alarm : configurable delays	
		Surge Protection and I	Filtering
21.	Surge energy rating	459Joules	
22.	Filtering	Full time multi-pole noise filtering : 0.3%	
		IEEE surge let-through: zero clamping	
		response time : meets UL 1449	
23.	Data Line filtering	RJ-45 modem/Fax/DSL/10-100 Base-T	
		protection	
24.	Standard Warranty	2 years repair or replace	
25.	Accessories	Power cords (at least 1.83M), CD with	
		software, Documentation CD, Rack Mounting	
		brackets, Smart UPS signaling RS-232 cable,	
1		USB cable, User Manual	

2.2 Minimum Technical Specifications for 2KVA Rack-mounted UPS

	Feature	Minimum Requirement	Bidders Response	
	Output			
1.	Output Power Capacity	1.3 kWatts / 2000 VA		
2.	Max Configurable Power	1.3 kWatts / 2000 VA		
3.	Nominal Output Voltage	230V		
4.	Output Voltage Distortion	Less than 5%		
5.		47 - 53 Hz for 50 Hz nominal, 57 - 63 Hz for 60 Hz nominal		
6.	Topology	Line interactive		
7.	Waveform Type	Stepped approximation to a Sine wave		
8.		Four (4) IEC 320 C13 Two (2) IEC jumpers		
		Input		
9.	Nominal Input Voltage	230V		
10.	Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)		
11.	Input Connections	IEC-320 C14		
12.		Maintenance free sealed lead-acid with suspended electrolyte, leak proof		
13.	Input voltage range for main operations	180 - 287V		
14.	•	175 - 297V		

	adjustable range for		
	mains operation		
15.		3 hour(s)	
		20.9 minutes (432.5 Watts)	
	at Half Load		
17.	21	7.6 minutes (865 Watts)	
	at Full Load		
		Communications & Mar	nagement
18.	Interface Ports	RJ-45 Serial, USB	
19.	Control panel	Multi-function LCD status and control console	
20.	Audible Alarm	Alarm when on battery : distinctive low	
		battery alarm : configurable delays	
		Surge Protection and I	liltering
01	Surge energy rating	300Joules	
21.	Surge energy rating	goodonies	
22.	Filtering	Full time multi-pole noise filtering : 0.3%	
		IEEE surge let-through : zero clamping	
		response time : meets UL 1449	
23.	Data Line filtering	RJ-45 modem/Fax/DSL/10-100 Base-T	
		protection	
24.	Standard Warranty	2 years repair or replace	
25.	Accessories	Power cords (at least 1.83M), CD with	
		software, Documentation CD, Rack Mounting	
		brackets, Smart UPS signaling RS-232 cable,	
		USB cable, User Manual	

LOT III: TECHNICAL SPECIFICATIONS FOR ACCESSORIES AND TOOLS

1. ACCESSORIES

	Feature	Minimum Requirement	Bidders Response
1.1	Ethernet Connector	rs	
1.1.1	RJ45 Cat 6 connectors	RJ45 Cat 6 connectors (Packet containing 1000 pieces)	
1.1.2	RJ45 Cat 6A connectors	RJ45 Cat 6A connectors (Packet containing 1000 pieces)	
1.2	Cable Ties		
1.2.1	Cable Ties 150mm	150mm cable ties (Packet containing 100 pieces)	
1.2.2	Cable Ties 200mm	200mm cable ties (Packet containing 100 pieces)	
1.2.3	Cable Ties 250mm	250mm cable ties (Packet containing 100 pieces)	
1.2.4	Cable Ties 300mm	300mm cable ties (Packet containing 100 pieces)	
1.3	Wall Plugs		
1.3.1	1 inch wall plugs	1 inch wall plugs (Packet containing 100 pieces)	
1.3.2	2 inch wall plugs	2 inch wall plugs (Packet containing 100 pieces)	
1.3.3	3 inch wall plugs	3 inch wall plugs (Packet containing 100 pieces)	
1.4	Screws		•
1.4.1	1 inch screws	1 inch screws (Packet containing 100 pieces)	

1.4.2	2 inch screws	2 inch screws (Packet containing 100 pieces)
1.4.3	3 inch screws	3 inch screws (Packet containing 100 pieces)
1.5	Nuts & Bolts	
1.5.1	Rawl bolts 10mm	Rawl bolts 10 mm (Packet containing 100 pieces)
1.5.2	Rawl bolts 13mm	Rawl bolts 13 mm (Packet containing 100 pieces)
1.5.3	Cage nuts and bolts	Cage nuts and bolts (size 10) (Packet containing 1000 pieces)

2. <u>TOOLS</u>

	Tool	Minimum Requirement	Bidders Response
		Should be in a case or bag and contain the following	
2.1	Crimping kit	-Mini pliers 5 inches -Mini-ramp nose pliers 5 inches -Screwdriver –Star -Screwdriver –Flat -Clamp tool for an RJ45 connector -Wire stripper -Network terminal tester -Clamp forceps	
		-9 volt battery	
2.2	Tone tracer	1. Transmitter specifications Tone frequency: 455KHz	

		Max. distance of transmission: 2 km
		Max. distance of cable map:300m
		Max. working current: Less than 70mA
		Tone mode:2 Tone adjustable
		Compatible connectors:RJ11, RJ45, BNC, USB
		Max. Signal voltage: 15Vp-p
		Function and faults LCD display: LCD display (wiremap,
		Tone, short, No adapter, Low battery)
		Cable map indication: LCD (#1-#8)
		Shielded indication: LCD (#9)
		Voltage protection: AC 60V/DC
		2. Remote receiver specifications
		Frequency:455KHz
		The Max. working current: Less than 70mA
		Compatible connectors:RJ11, RJ45, BNC, USB
		Remote identifier:8pcs
		Batteries included
		Should be in a case or bag and contain the following:-
		1. Fiber light torch
		-Wavelength: 650+/-10nm
		Wavelength. 656 17 Tohm
2.3	Fibre light	- Fiber mode: 2.5 mm Universal
2.3	source tester	- Output power: 30mW
		- Inspection distance: 15KM
		- Electrical source: Batteries (included)
		- Working time of batteries: More than 15 hours
		- Operating Temperature: -10 to 60 °c
		- Storage Temperature: -20 to 70 °c
		2000 100 100 100 100 100 100 100 100 100

		T
	- Material of shell: Aluminum-alloy	
	- Dimension: Diameter (27 to 32)*(160 to 175)mm	
	2. Fiber Optic Handle Optical Power Meter	
	-Calibration Wavelength(nm): 850~1625	
	-Detector type: InGaAs	
	-Measurement Range(dBm): -70,+10dBm	
	-Uncertainty (dB): +0.2(5%)	
	-linearity (dB): 0.01	
	-Display resolution(dB): 0.03	
	-Frequency ID Hz: 270 330 1K 2K	
	-Wave ID nm: 850, 980, 1300, 1310, 1490, 1550, 1625	
	-Connector: FC/SC/ Interchangeable	
	-Operation Temperature: -10 to 60 °c	
	3. FC to LC Male to Female Hybrid Fiber	
	- This is a FC-LC 2.5mm to 1.25 adapters for visual fault	
	locator.	
	- It fits all 2.5mm size hole; it meets all specifications for manufacturers out there	
	-It simply plugs to the 2.5mm hole to converts it to a 1.25	
	hole Insertion Lossy 0.20dP. Moting Durchility: 500	
	-Insertion Loss: 0.20dB, Mating Durability: 500-	
	Receptacle Retention force : 1N - 2.5N -1 year warranty	
	-1 year warranty	
	- Multifunctional Tester: OTDR, OPM, OLS, VFL in one	
2.4 Fibre testing	item	
kit (OTDR)	- Support Editing: Edit file name and line numbers via	
	keyboard entry	

		- Save data in the format of Sor - Standard Interface: Designed with SC/UPC port - Rechargeable Type: 4400mAh electricity -Wavelength: 1310/1550nm - Dynamic Range: 22/20dB - Measure distances: 0-60km - Fiber type: SM and MM - Type of Connectors: FC/PC; SC/PC - Peak Value of laser: >=30mW - UOM of Measurement: Meter, Feet, Milk - Dead Zone of Relection Event: 2m - Dead Zone of attenuation Event: 12m - Accuracy Distance (Redlection Event): About+_(1m+2/10(-4)*distance) - Number of test records saved: 100 1 year warranty	
2.5	LED flash light	 Aluminum build Zoom in and out Water, shock and weather resistant Attack head to protect lens Modes: low, medium, high and strobe 1000 lumens Maximum diameter: 4cm Batteries included 1 year warranty 	
2.6	Labeling kit	-Internationally recognized brand -16 character graphic LCD screen -Handheld	

		-QWERTY keyboard	
		-Inbuilt cutter	
		- 10 fonts	
		- 15 Memory slots - 20 mm/second printing speed	
		- Text modes: sequential numbering, vertical and reverse	
		- Tape widths: 3.5mm, 6mm, 9mm, 12mm	
		- Should be delivered with five (5) 12mm label tapes	
		- Pouch included	
		-1 year warranty	
		-Internationally recognized brand	
		-Visible red laser beam	
		-Measuring range:50m	
		- Measuring angles : 360 degrees	
2.7	Laser tape measure	-Illuminated colour display with automatic alignment and overview of all functions of the rangefinder	
		-measuring accuracy \pm 1.5 mm and \pm 0.2 degree	
		- Batteries included	
		-Pouch included	
		-1 year warranty	
2.8	Screw driver set	Case of interchangeable tips. Should include but not limited to:-	

		-1* Precision screwdriver handle
		- 1* 115mm extension bar
		-1* mini magnetic/diamagnetic
		- 48* 5/32" (3.97 mm) *28mm CR-V bits:
		-5* Phillips (PH000, PH00, PH0, PH1, PH2)
		-5* Slotted (1.5, 2.0, 3.0, 3.5, 4.0mm)
		-3* Pozi (PZ0, PZ1, PZ2)
		-8* Hex (0.9, 1.3, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm) - 7* Hex (1/16 (1.59 mm), 5/64 (1.98 mm), 3/32 (2.38 mm), 7/64 (2.78 mm), 1/8 (3.18 mm), 9/64 (3.57 mm), 5/32inch (3.97 mm)),
		-7* Torx (T2, T3, T4, T5, T6, T7, T8)
		-4* Torx Tamper-proof (TT9, TT10, TT15, TT20)
		-2* Square (S1, S2), 2* Triangle (TA18, TA27)
		-3* Pentalobe (0.8, 1.2, 2.0)
		-1* Tri-point (Y000)
		-1* Spanner (SP6
		-Internationally recognized brand
	Drill set	-Lithium ion Battery powered
2.9	cordless 24volts	-Voltage:18 to 24 volts
	24 voits	-2 Speed
		-Front LED light

-At least 12 inserts bits -2 batteries -Charger -Compact case -1 year warranty -Internationally recognized brand -Rotary hammer drill -Lithium ion Battery powered -Voltage:36 to 60 volts -Mode: Hammer, chisel and drilling -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case -I year warranty			-Adjustable torque	
-Charger -Compact case -1 year warranty -Internationally recognized brand -Rotary hammer drill -Lithium ion Battery powered -Voltage:36 to 60 volts -Mode: Hammer, chisel and drilling -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case			-At least 12 inserts bits	
2.10 Prill set cordless 48volts -Compact case -1 year warranty -Internationally recognized brand -Rotary hammer drill -Lithium ion Battery powered -Voltage:36 to 60 volts -Mode: Hammer, chisel and drilling -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case			-2 batteries	
2.10 Drill set cordless 48volts Drill set -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case			-Charger	
2.10 Prill set cordless 48volts -Internationally recognized brand -Rotary hammer drill -Lithium ion Battery powered -Voltage:36 to 60 volts -Mode: Hammer, chisel and drilling -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case			-Compact case	
-Rotary hammer drill -Lithium ion Battery powered -Voltage:36 to 60 volts -Mode: Hammer, chisel and drilling -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case			-1 year warranty	
2.10 Drill set cordless 48volts -Voltage:36 to 60 volts -Mode: Hammer, chisel and drilling -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case				
2.10 Drill set cordless 48volts -Mode: Hammer, chisel and drilling -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case			-Lithium ion Battery powered	
2.10 Drill set cordless 48volts -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case			-Voltage:36 to 60 volts	
2.10 cordless 48volts -Front LED light -Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case		cordless	-Mode: Hammer, chisel and drilling	
-Keyless chuck design -At least 12 inserts bits -2 *4Amp batteries -Charger -Compact case	2.10			
-2 *4Amp batteries -Charger -Compact case			-Keyless chuck design	
-Charger -Compact case			-At least 12 inserts bits	
-Compact case			-2 *4Amp batteries	
_1 year warranty			-Compact case	
-1 year warranty			-1 year warranty	
-Internationally recognized brand	2.11			
-Rotary hammer drill		Hammer Drill set light duty		
2.11 -0 Milp motor				
-Concrete hole :0.5 inch -Torque:160				
-Mode: Hammer and drilling				

		-Keyless chuck design	
		-At least 12 inserts bits	
		-Compact case	
		-1 year warranty	
		-Internationally recognized brand	
		-Rotary hammer drill	
		-8 Amp motor	
		-Concrete hole :1 inch -Impact energy ft/lbs: 2	
2.12	Hammer Drill		
	set heavy duty	-Mode: Hammer, chisel and drilling -Keyless chuck design	
		-At least 12 inserts bits -Compact case	
		-1 year warranty	
2.13	Concrete drill	-12 set	
	bit set	5, 6, 7, 8 (2 pieces), 9, 10 (2 pieces), 12, 20, 25, 30mm	
2.14	Steel drill bits	-6 set	
2.14	set	3, 4, 5, 7, 8, 10 mm	
		-Air Speed of 203 MPH	
2.15		-Variable speed control dial and trigger (0-16,000 RPM)	
	Blower	-Air volume of 145 cfm	
		-Two tools in one; quickly converts to a vacuum for added versatility	
		-lock-on button	

2.16	Small Hacksaw	Six (6) inch metal hack saw with 6 blades
2.17	Medium Hacksaw	Twelve (12) inch metal hack saw with 6 blades
2.18	Small Electric grinder	-Internationally recognized brand -10 amp motor -Diameter: 4inches -At least 3 cutting disc -Compact case -1 year warranty
2.19	Medium Electric grinder	-Internationally recognized brand -13 amp motor -Diameter: 5 inches -At least 3 cutting disc -Compact case -1 year warranty
2.20	Cutting discs	Cutting disc compatible with the above grinders
2.21	Torx set	-12 set - T10 to T45
2.22	Allen keys	-12 set
2.23	Square Ruler	-Metallic -20x45cm -inches and centimeters
2.24	Spirit level	-Easy-to-read angled, illuminated, rotating flip display

	(Digital)	making it the ideal digital level for dark working areas	
		-The display automatically rotates with you for ease of use in difficult tasks	
		-Accuracy: level is at 0° or 90° ±0.05°	
		-Memory: The inclinometer should offer a hold/copy button to transfer target	
		- IP54 protection	
		-Batteries included	
2.25	Steel cutter	-Heavy duty steel sheet shears	
		-Claw hammer	
2.26	Hammer	-12 to 14 inch	
2.26		-All metal	
		-Rubber ergonomic grip	
		-Aluminum and foldable	
	Networking Ladder small	-150kg load	
2.27		-5 steps tread	
		-100 cm	
		-Slip-resistant ribbed platform	
	Networking Ladder medium	-Aluminium and foldable	
2.28		-150kg load	
2.20		-8 steps tread	
		-160 cm	

		-Slip-resistant ribbed platform	
2.29	Networking Ladder large	-Foldable telescopic aluminum -150kg load -2x8 steps -Slip-resistant ribbed platform -Closed length: 90cm - Velcro storage straps -Herringbone length:2.5m -Vertical length:5m -less than 20kgs	
2.30	Networking Ladder extra large	-6in1 Foldable aluminum -150kg load -Adjustable into 4 different positions, including step ladder position, straight ladder position, stand-off ladder position, and scaffold position -16 steps -Slip-resistant ribbed platform -Closed length: 140cm - Velcro storage straps -Vertical length:5m -less than 22kgs	
2.31	Vacuum sucker/ lifter	-Size: (12to15)x(4to6)x(2.5to3.5) inches -Material: Steel and Rubber -Heavy duty construction and thick rubber cups -Dual mechanism -Capacity:100kgs	
2.32	Trolley	-2x3 ft flatbed -Iron frame -250 kgs load	

		-1m high handle
		-4 all directional lockable wheels
		-2year warranty
		- Heavy duty cable reel
		- 25m lead
	Woundable	- Four(4) 13Amp sockets
2.33	4way power extension	- Open drum cable reel Complies with all British Standards
	cable (25m)	- Fitted with a sturdy steel frame and carry handle
		- Thermal cut out
		- Maximum load Unwound 3120 Watts
		- Heavy duty cable reel
		- 50m lead
	Woundable	- Four (4) 13Amp sockets
2.34	4way power extension cable (50m)	- Open drum cable re reel Complies with all British Standards
		- Fitted with a sturdy steel frame and carry handle
		- Thermal cut out
		- Maximum load Unwound 3120 Watts
2.35	Tape measure (10m)	-Woundable 10m tape.
2.36	Dust coats	-Poplin fabric

		-KRA logo embroidered above the left breast pocket
		-4 front pockets
		-Knee length
		- Design will provided
		-Poplin fabric
		-KRA logo embroidered above the left breast pocket
		-Long sleeved with shirt cuffs
		-2 snaps on collar
		-2 chest pockets (pencil division on left pocket)
		-2-way brass zipper front closure
		-2 front pockets
		-Double stitches on waistband with elastic on back
2.37	Overalls	-Telescopic back for comfort
		-2 cargo pleated pockets -1 carpenter's pocket on the left leg -Hammer loop on the left leg
		-High resistance thread
		-Bar-tacked at all stress points
		-Reinforced front legs
		-Side opening to reach trousers' pockets
		-Design will be provided

		-60ft nylon tape	
	Draw wire	-Woundable	
2.38		-Flexible non-corrosive tip	
		-Non-slip handle and fingertip grooves provide secure grip for added handling comfort	
		-Oversized handle opening accommodates large, gloved hands	
		-Large handle increases stability for better winding control	
		-Durable handle withstands rugged job site conditions	
		-Textured case surface provides positive grip	
		-Impact-resistant plastic case	
		-25 ft. Drop Resistant Test	

LOT IV: TECHNICAL SPECIFICATIONS FOR THE LAN INSTALLATION SERVICES (LABOUR ONLY)

THE SCOPE OF WORKS

The successful bidders shall be required to carry out the following works during the Three (3) year framework contract period;

- 1. Installation of new LANs for upcoming KRA stations on short notice.
- 2. Revamping/upgrading/replacing an old LAN as may be required.
- 3. Installation of additional data points to expand an existing LAN to accommodate more users.

The structured cabling activities include, but not limited to, the installation of metal trunkings, pulling and termination of UTP cables, cable

management, labeling etc. The fiber works primarily entail the installation of indoor fiber cables to interconnect floors within the same building. However, there may be few occasions where outdoor fiber cable needs to be installed to extend connectivity services to another operational area within the KRA station.

It is important to note that this is a general description of the scope of works for the three (3) year framework contract. However, each site will have its own set of requirements and unique scope of works. The installation exercise will be handled in a case by case basis. Before the contractor is given the LSO for a specific site, KRA Network Engineers shall carry out a site survey to determine the actual technical requirements for the site, prepare a LAN design and establish the materials needed to install the LAN. The successful bidder shall therefore be provided with the actual scope of works, materials required and a LAN design for each site before the commencement of the installation works. The contractor is thus required to install the LANs professionally in accordance with the provided designs and/or as per the instructions of the KRA Network Engineer on site.

1. Minimum Technical Specifications for LAN Installation, Testing, Commissioning, Labeling, Drawings and Documentation.

No	Feature	Minimum Requirements	Bidder's Response
1.	Trunking	The metal trunkings must be installed neatly as per the LAN design and the engineer's instructions. All cables must run through the trunkings.	
2.	Horizontal cabling	The horizontal cabling should be done neatly and professionally as per the LAN design and the engineer's instructions on site.	
3.	Vertical cabling	The backbone is typically done using fiber. Installation of fiber should be carried out according to the instructions of the network engineer on site. At least 4 cores must be terminated for each side of a cable (i.e. 8 terminations for both sides).	

4.	Tools & accessories	The contractor must have all the tools and accessories required to install and test Local area Networks (LANs).	
5.	Quality of works	The contractor is required to provide high standard installation service and quality workmanship. Cable management must also be neatly done.	
6.	Warranty	The defect liability period shall be one (1) year. The contractor will be required to return to site and rectify any defects that may occur within the defect liability period at no extra cost to the Authority.	
7.	Drawings and documentation	On completion of the works the contractor <u>MUST</u> provide all the relevant documentation and the LAN schematic diagram for each site.	
8.	Labeling	All the data points and ports on the Patch panels must be well labeled with Printed labels. The patch cords must also be labeled on both ends to match port numbers.	
9.	Testing and Commissioning	The Contractor is required to carry out professional test and provide results both in printed and in soft copy. A joint test and commissioning will be carried out by KRA and the contractor.	

	SECTION VI - SCHEDULE OF REQUIREMENTS					
(a)	Procurement Item					
No.	Description	Delivery schedule				
1.	THREE (3) YEARS FRAMEWORK CONTRACT FOR SUPPLY AND DELIVERY OF LAN MATERIALS AND INSTALLATION SERVICES	Two (2) weeks after issuance of LPO/LSO				

(b) Instructions on Submission of Bids

The Tenderer must submit combined technical and financials document:

Section Document

- A Duly filled, Signed and Stamped Form of Tender
- Tender Security of KES. 500,000 valid for 365 days from tender closing date (i.e 3rd June 2021)
- Duly Filled, Signed and Stamped Confidential Business Questionnaire.
- Power of Attorney (Sole Proprietors exempted).
- Manufacturer/Dealer Authorization Letter for all Active Devices (Lot 2).
- Attach a copy of Certificate of Incorporation or Business Registration Certificate.
- Current Reference Letter from Bank (not older than six (6) months).
- Valid Tax Compliance Certificate.
- Key Staff Competency profiles
- Relevant Reference Sites
- Technical Proposal Submission
- Form of Tender and Price Schedule

(c) Tender Responsiveness Criteria

(a)	Description of Criteria							
			Submission of Tender Documents					
	Duly filled, Signed and Stamped Form of Tender							
	• Tender Security of KES. 500,000 valid for 365 days from tender closing date (i. June 2021)							
	• D	ouly Filled, Signed	and Stamped Confidential Business Questionnaire	e.				
	• P	ower of Attorney (Sole Proprietors exempted).					
	• N	Ianufacturer/Deale	r Authorization Letter for all Active Devices (Lot	2).				
			Company Profile					
	• A	attach a copy of Ce	rtificate of Incorporation or Business Registration	Certifica	ite.			
		_	Proof of Financial Resources					
	Subm		I attended to the Double (not all double on air (6) months)					
		ourrent Reference	Letter from Bank (not older than six (6) months).					
	Subm	it: Valid Tax Com	Social Obligations pliance Certificate.					
			^					
(b)	Vend	or Evaluation Cri	teria					
	The fo	ollowing criteria w	ill be used in the evaluation of all potential supplie	ers.				
			ed will be evaluated for suitability and awarded a 30% of the total tender evaluation.	l marks	which will			
	No	Feature	Minimum Requirements	Score	cut-off			
	1	Key Personnel	The key personnel must have the requisite academic qualifications, professional and Technical skills and experience. The proposed key personnel must include at least 3 Staff with Academic Certificates in Electrical and Electronic Engineering/Computer science or other related degrees. The proposed staff must equally have Cisco Certified Network Associate (CCNA) certifications or higher Certification.	15	10			
			Attach CVs, copies of academic certificates and Valid CCNA certifications for the three (3) key personnel.					

				I
		Academic qualifications and professional certifications i) Degree or Post Graduate in Electrical & Electronics Engineering/Computer science or related field and valid CCNA or higher Certification		
		ii) Diploma Electrical &Electronics Engineering/Computer science or related field and valid CCNA or higher Certification		
		iii) Certificate in Electrical &Electronics Engineering/Computer science or related field and valid CCNA or higher Certification		
		iv) Any course without valid CCNA0 mark		
		Staff Technical experience.		
		Additionally, each key personnel should possess technical experience in the design and Installation of Local Area Networks (LANs).		
		3 years and above. 2 marks 2 to 3 years. 1 mark Below 2 years. 0 mark		
2	Firm's General Experience	The bidder should have a minimum of 5 years' experience in the supply and delivery of LAN materials or Installation, testing and commissioning of Local Area Networks (LANs).	6	4
		5 years and above. 6 marks 3 to 5 years. 4 marks 2 to 3 years. 2 marks Below 2 years. 0 mark		
		Bidders are required to fill the attached Bidders Reference Site Form, Contracts Completed in the Last Five (5) Years Form and Schedule of		

		Ongoing Projects Form in Pages 89, 91 and 92 respectively.		
3	Firm's Relevant works experience	Proof of satisfactory service for three (3) - previously executed Enterprise LAN works within the last five (5) years. Submit reference letters supported by either a copy of signed Contract or signed Service Order or Completion Certificate from three clients. 1) Each reference letter supported by either a copy of signed Contract or signed Service Order or Completion Certificate	9	6
			30	20

(d) Overall Tender Evaluation Criteria

The tender evaluation criteria is weighted as follows; -

Criteria	Maximum Score/Requirement	Cut Off Mark
Tender Responsiveness	Mandatory	Met
Vendor Evaluation	30	20
Technical Specifications	Pass/Fail	Met
Financial Evaluation	Award shall be to the bid with the lowest Lot.	evaluated price per

BIDDERS REFERENCE SITE FORM

PROJECT SUMMARY FOR EACH REFERENCE SITE

Please provide the following information on the listed reference clients;

1.	Entity/Client Name:
2.	Brief description of the clients business:
3.	Brief description of the project:
4.	Duration of project implementation (dates):
5.	Value of the project:
6.	Contacts of referee:
7.	Contact person:
8.	Title:
9.	Telephone Contact: E-Mail Address:
10.	Signed and stamped/sealed by bidder:
11.	Name of the Authorized Person:
12.	Designation:

KEY PERSONNEL

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

NAME	PROPOSED POSITION	YEARS OF EXPERIENCE (GENERAL)	YEARS OF EXPERIENCE IN PROPOSED POSITION
1.			
2.			
3.			

I certify that the above information is correct.					
Title	Signature	Date			

CONTRACTS COMPLETED IN THE LAST FIVE (5) YEARS FORM

Work performed on works of a similar nature, complexity and volume over the last 8 years.

PROJECT NAME	NAME OF CLIENT	TYPE OF WORK AND YEAR OF COMPLETION	VALUE OF CONTRACT (Kshs.)

I certify that the above work	as were successfully carried	out and completed by	y ourselves.
Title	Signature		Date

SCHEDULE OF ON-GOING PROJECTS FORM

Details of on-going or committed projects, including expected completion date.

PROJECT NAME	NAME OF CLIENT	CONTRACT SUM	% COMPLETE	COMPLETION DATE

I certify that the above works are currently being carried out by ourselves.						
Title	Signature		Date			

DETAILS OF LITIGATIONS OR ARBITRATION PROCEEDINGS IN WHICH THE TENDERER IS INVOLVED AS ONE OF THE PARTIES

•			
•			
•			
1			
•	 		
•	 		
•			
•			
•			
•			

SECTION VII- PRICE SCHEDULE FOR GOODS AND SERVICES IN KSHS

1.0 BILL OF QUANTITIES FOR FRAMEWORK CONTRACT FOR THE SUPPLY AND DELIVERY OF NETWORK (LAN) MATERIALS, ACCESSORIES AND INSTALLATION (LABOUR) SERVICES.

LOT 1: PRICE SCHEDULE FOR STRUCTURED CABLING MATERIALS

NO.		Item Description	Unit	Minimum Annual Quantities	Unit Price (Kshs)	Total Annual Cost (Kshs)	3 years Total cost(Kshs)				
1.	1.0	FIBRE CABLES									
	1.1.0	1.1 MULTI-MODE(MM) FIBRE CABLE									
	1.1.1	12 Cores MM fibre cable	Metre	1200							
	1.1.2	24 Cores MM fibre cable	Metre	400							
	1.2.0	SINGLE MODE(SM) FIBRE CABLE	I				-1				
	1.2.1	12 Cores SM fibre cable	Metre	1800							
2.	2.0	FIBRE ODF									
	2.1.0	MULTI-MODE(MM) ODF									
	2.1.1	MM ODF 12 Ports with Accessories(fibre Optic adapters and Pigtail connectors)	No.	12							
	2.1.2	MM ODF 24 Ports with Accessories(fibre Optic adapters and Pigtail connectors)	No.	4							
	2.2.0	SINGLE-MODE(SM) ODF	1								

2.2.1	SM ODF 12 Ports with Accessories(fibre Optic	No.	12					
	adapters and Pigtail connectors)							
3.0	FIBRE SFP MODULES (SMALL FACTOR PL	UGGABLE 7	TRANSCEIVER	S)				
3.1.0	MULTI-MODE SFPS							
3.1.1	Multi-mode fibre SFP Modules 1G	No.	12					
3.1.2	Multi-mode fibre SFP Modules 10G	No.	8					
3.2.0	SINGLE-MODE SFP		 		I			
3.2.1	Single-mode fibre SFP Modules 1G	No.	6					
3.2.2	Single-mode fibre SFP Modules 10G	No.	4					
4.0	FIBRE PATCH CORDS	<u>l</u>	I	l I				
4.1.0	MULTIMODE FIBRE PATCH CORDS							
4.1.1	MM SC-LC 1.5M fibre patch cords	No	30					
4.1.2	MM SC-LC 3M Fibre patch cords	No	4					
4.1.3	MM LC-LC 3M Fibre patch cords	No	4					
4.1.4	MM LC-LC 5M Fibre patch cords	No	2					
4.2.0	SINGLE MODE FIBRE PATCH CORDS		I	I				
4.2.1	SM SC-LC 1.5M fibre patch cords	No	16					
4.2.2	SM SC-LC 3M Fibre patch cords	No	4					
5.0	UTP ETHERNET CABLE	<u> </u>	L		l			
5.1	Cat 6 UTP cable (Roll)	No	15					
5.2	Cat 6A UTP cable (Roll)	No	236					
	3.0 3.1.0 3.1.1 3.1.2 3.2.0 3.2.1 3.2.2 4.0 4.1.1 4.1.2 4.1.3 4.1.4 4.2.0 4.2.1 4.2.2 5.0 5.1	adapters and Pigtail connectors) 3.0 FIBRE SFP MODULES (SMALL FACTOR PL 3.1.0 MULTI-MODE SFPS 3.1.1 Multi-mode fibre SFP Modules 1G 3.1.2 Multi-mode fibre SFP Modules 10G 3.2.0 SINGLE-MODE SFP 3.2.1 Single-mode fibre SFP Modules 1G 3.2.2 Single-mode fibre SFP Modules 10G 4.0 FIBRE PATCH CORDS 4.1.0 MULTIMODE FIBRE PATCH CORDS 4.1.1 MM SC-LC 1.5M fibre patch cords 4.1.2 MM SC-LC 3M Fibre patch cords 4.1.3 MM LC-LC 3M Fibre patch cords 4.1.4 MM LC-LC 5M Fibre patch cords 4.2.0 SINGLE MODE FIBRE PATCH CORDS 4.2.1 SM SC-LC 1.5M fibre patch cords 4.2.2 SM SC-LC 3M Fibre patch cords 5.0 UTP ETHERNET CABLE 5.1 Cat 6 UTP cable (Roll)	3.0 FIBRE SFP MODULES (SMALL FACTOR PLUGGABLE TO SINGLE SFP MODULES (SMALL FACTOR PLUGGABLE TO SINGLE-MODE SFP Modules 1G No. SINGLE-MODE SFP Modules 10G No. Single-mode fibre SFP	adapters and Pigtail connectors	adapters and Pigtail connectors) 3.0 FIBRE SFP MODULES (SMALL FACTOR PLUGGABLE TRANSCEIVERS) 3.1.0 MULTI-MODE SFPS 3.1.1 Multi-mode fibre SFP Modules 1G No. 12 3.1.2 Multi-mode fibre SFP Modules 10G No. 8 3.2.0 SINGLE-MODE SFP 3.2.1 Single-mode fibre SFP Modules 1G No. 6 3.2.2 Single-mode fibre SFP Modules 10G No. 4 4.0 FIBRE PATCH CORDS 4.1.0 MULTIMODE FIBRE PATCH CORDS 4.1.1 MM SC-LC 1.5M fibre patch cords No 30 4.1.2 MM SC-LC 3M Fibre patch cords No 4 4.1.3 MM LC-LC 3M Fibre patch cords No 4 4.1.4 MM LC-LC 5M Fibre patch cords No 2 4.2.0 SINGLE MODE FIBRE PATCH CORDS 4.2.1 SM SC-LC 1.5M fibre patch cords No 16 4.2.2 SM SC-LC 3M Fibre patch cords No 4 5.0 UTP ETHERNET CABLE 5.1 Cat 6 UTP cable (Roll) No 15			

	5.3	Cat 7 UTP cable (Roll)	No	10							
6.	6.0	ETHERNET PATCH PANEL									
	6.1	Cat 6A patch panel, T568A/B, 48-Port	No	40							
	6.2	Cat 6A patch panel, T568A/B, 24-Port	No	15							
	6.3	Cat 7 patch panel, T568A/B, 24-Port	No	4							
	6.4	Cat 7 patch panel, T568A/B, 48-Port	No	6							
	6.5	Rack mount 24-port (outputs) PoE Injector	No	3							
7.	7.0	DATA OUTLETS									
	7.1	Cat 6A Single outlet modules(RJ45)	No	100							
	7.2	Cat 6A double outlet modules(RJ45)	No	650							
	7.3	Cat 7 single outlet modules(RJ45)	No	20							
	7.4	Cat 7 double outlet modules(RJ45)	No	40							
8.	8.0	ETHERNET PATCH CORDS									
	8.1	1M Cat 6A UTP modular stranded T568A/B Patch cords with colour matching jacket/ boot	No	1200							
	8.2	1.5M Cat 6A UTP modular stranded T568A/B Patch cords with colour matching jacket/ boot	No	300							
	8.3	3M Cat 6A UTP modular stranded T568A/B Patch cords with colour matching jacket/ boot	No	1500							
	8.4	5M Cat 6A UTP modular stranded T568A/B Patch cords with colour matching jacket/ boot	No	100							

9.	9.0	NETWORK CABINET								
	9.1	22U Free standing Cabinet with lockable door	No.	47						
	9.2	32U Free standing Cabinet with lockable door	No.	7						
	9.3	42U Free standing Cabinet with lockable door	No.	1						
10.	10.0	TRUNKING								
	10.1	200mm x50 mm Partitioned Metal trunks in Lengths of 2.4 Meters	No.	800						
	10.2	100mm x50 mm Partitioned Metal trunks in Lengths of 2.4 Meters	No.	170						
	10.3	200mm x50 mm Curved floor Partitioned Metal trunks in Lengths of 2.4 Meters	No.	20						
	10.4	100mm x50 mm Curved floor Partitioned Metal trunks in Lengths of 2.4 Meters	No.	10						
	10.5	200mm service plates/knockouts	No.	675						
	10.6	100mm service plates/knockouts	No.	50						
	10.7	200mm curved service plates/knockouts	No.	20						
	10.8	100mm curved service plates/knockouts	No.	5						
	10.9	150mm x50 mm Partitioned Metal trunks in Lengths of 2.4 Meters	No.	48						
	10.10	150mm service plates/knockouts	No.	24						
	10.11	230mm service plates/knockouts. Customized colour (White)	No.	60						
	10.12	200mm service plates/knockouts. Customized	No.	45						

		colour (White)							
	10.13	200mm service plates/knockouts. Customized colour (Brown)	No.	45					
	10.14	150mm Pedestal trunking	No.	140					
	10.15	75mm x25 mm Partitioned Metal trunks in Lengths of 1.2 Meters	No.	230					
11.	11.0	PERFORATED CABLE TRAYS							
	11.1	100mm x50 mm perforated cable tray in Lengths of 2.4 Meters	No.	180					
	11.2	200mm x50 mm perforated cable tray in Lengths of 2.4 Meters	No.	25					
12	12.0	PATTRESS BOX							
	12.1	Single gang pattress box	No.	10					
	12.2	Double gang pattress box	No.	30					
		SUB-TOTAL	I		<u> </u>				
		VAT							
		GRAND TOTAL							

LOT 2: PRICE SCHEDULE FOR ACTIVE EQUIPMENT AND UPS

NO.		Item Description	Unit	Minimum Annual Quantities	Unit Price (Kshs)	Total Annual Cost (Kshs)	3 years Total cost(Kshs)
1.	1.0	ACTIVE EQUIPMENT					
	1.1.0	SWITCHES					
	1.1.1.0	MANAGED SWITCHES					
	1.1.1.1	48-ports PoE switch	No.	2			
	1.1.1.2	24-ports PoE switch	No.	5			
	1.2.1.0	UNMANAGED SWITCHES	I				
	1.2.1.1	8-Port unmanaged switch	No.	10			
	1.2.1.2	8-Port unmanaged PoE switch	No.	15			
2	2.0	UPS	I				
	2.1	1.5KVA Rack-mounted UPS	No.	60			
	2.2	2KVA Rack-mounted UPS	No.	5			
		SUB-TOTAL	I				
		VAT					
		GRAND TOTAL					

LOT 3: PRICE SCHEDULE FOR ACCESSORIES AND TOOLS

О.		Item Description	Unit	Minimum Annual Quantities	Unit Price (Kshs)	Total Annual Cost (Kshs)	3 years Total cost(Kshs)				
1	1.0	OTHER ACCESSORIES									
1	1.1.0	ETHERNET CONNECTORS									
1	1.1.1	RJ45 Cat 6 connectors (Packet containing 1000 pieces)	No.	5							
1	1.1.2	RJ45 Cat 6A connectors (Packet containing 1000 pieces)	No.	2							
1	1.2.0	CABLE TIES	1			- L					
1	1.2.1	150mm cable ties (Packet containing 100 pieces)	No.	25							
1	1.2.2	200mm cable ties (Packet containing 100 pieces)	No.	20							
]	1.2.3	250mm cable ties (Packet containing 100 pieces)	No.	15							
1	1.2.4	300mm cable ties (Packet containing 100 pieces)	No.	10							
1	1.3.0	WALL PLUGS									
1	1.3.1	1 inch wall plugs (Packet containing 100 pieces)	No.	10							
]	1.3.2	2 inch wall plugs (Packet containing 100 pieces)	No.	10							
1	1.3.3	3 inch wall plugs (Packet containing 100 pieces)	No.	10							
1	1.4.0	SCREWS									

	1.4.1	1 inch screws (Packet containing 100 pieces)	No.	10	
	1.4.2	2 inch screws (Packet containing 100 pieces)	No.	10	
	1.4.3	3 inch screws (Packet containing 100 pieces)	No.	10	
	1.5.0	NUTS & BOLTS			
	1.5.1	Rawl bolts 10 mm (Packet containing 100 pieces)	No.	1	
	1.5.2	Rawl bolts 13 mm (Packet containing 100 pieces)	No.	1	
	1.5.3	Cage nuts and bolts (size 10) (Packet containing 1000 pieces)	No.	2	
2.	2.0	TOOLS			
	2.1	Crimping kit	No.	5	
	2.2	Tone tracer	No.	5	
	2.3	Fibre light source tester	No.	3	
	2.4	Fibre testing kit (OTDR)	No.	1	
	2.5	LED flash light	No.	3	
	2.6	Labelling kit	No.	3	
	2.7	Laser tape measure	No.	3	
	2.8	Screwdriver set	No.	5	
	2.9	Drill set cordless 24volts	No.	2	
	2.10	Drill set cordless 48volts	No.	1	
	2.11	Hammer Drill set light duty	No.	2	

2.12	Hammer Drill set heavy duty	No.	1	
2.13	Concrete drill bit set	No.	3	
2.14	Steel drill bits set	No.	3	
2.15	Blower	No.	2	
2.16	Small Hacksaw	No.	3	
2.17	Medium Hacksaw	No.	3	
2.18	Small Electric grinder	No.	2	
2.19	Medium Electric grinder	No.	2	
2.20	Cutting discs	No.	5	
2.21	Torx set	No.	1	
2.22	Allen keys	No.	1	
2.23	Square Ruler	No.	2	
2.24	Spirit level	No.	2	
2.25	Steel cutter	No.	2	
2.26	Hammer	No.	2	
2.27	Networking Ladder small	No.	1	
2.28	Networking Ladder medium	No.	1	
2.29	Networking Ladder large	No.	1	
2.30	Networking Ladder extra large	No.	1	
2.31	Vacuum sucker/ lifter	No.	2	

Trolley	No.	3				
Woundable 4way power extension cable (25m)	No.	4				
Woundable 4way power extension cable (50m)	No.	1				
Tape measure (10m)	No.	5				
Dust coats	No.	10				
Overalls	No.	5				
Draw wire	No.	5				
SUB-TOTAL						
VAT						
GRAND TOTAL						
	Woundable 4way power extension cable (25m) Woundable 4way power extension cable (50m) Tape measure (10m) Dust coats Overalls Draw wire SUB-TOTAL VAT	Woundable 4way power extension cable (25m) Woundable 4way power extension cable (50m) No. Tape measure (10m) No. Dust coats No. Overalls No. Draw wire No. SUB-TOTAL VAT	Woundable 4way power extension cable (25m) No. 4 Woundable 4way power extension cable (50m) No. 1 Tape measure (10m) No. 5 Dust coats No. 10 Overalls No. 5 Draw wire No. 5 SUB-TOTAL VAT	Woundable 4way power extension cable (25m) No. 4 Woundable 4way power extension cable (50m) No. 1 Tape measure (10m) No. 5 Dust coats No. 10 Overalls No. 5 Draw wire No. 5 SUB-TOTAL VAT		

LOT 4: PRICE SCHEDULE FOR THE LAN INSTALLATION SERVICES (LABOUR ONLY).

The successful bidder in this lot will be required to provide LAN installation services during the entire Three (3) years contract period, in any KRA site located in any of the 47 counties where the service is required. Bidders should therefore factor in their bid prices all costs including their staff travel cost, food, accommodations and per diem allowances if any.

NO.		Item Description	Unit	Minimum Annual Quantities	Unit Price (Kshs)	Total Annual Cost (Kshs)	3 years Total cost(Kshs)
1.	1.0	TRUNKING					
	1.1.0	INSTALLATION COST FOR METAL TRUNK	ING & CAE	LE TRAYS			
	1.1.1	2.4 metres, 200mm x 50mm heavy duty metal trunking	No.	800			
	1.1.2	2.4 metres, 100mm x 50mm heavy duty metal trunking	No.	170			
	1.1.3	2.4 metres, 200mm x 50mm heavy duty curved floor metal trunking	No.	20			
	1.1.4	2.4 metres, 100mm x 50mm heavy duty curved floor metal trunking	No.	10			
	1.1.5	200mm service plates/knockouts	No.	675			
	1.1.6	100mm service plates/knockouts	No.	50			
	1.1.7	200mm curved service plates/knockouts	No.	20			
	1.1.8	100mm curved service plates/knockouts	No.	5			

	1.2.0	PERFORATED CABLE TRAYS			
	1.2.1.1	100mm x50 mm perforated cable tray in Lengths of 2.4 Meters	No.	5	
	1.2.1.2	200mm x50 mm perforated cable tray in Lengths of 2.4 Meters	No.	25	
	1.3.0	PATTRESS BOX			
	1.3.1.1	Single gang pattress box	No.	10	
	1.3.1.2	Double gang pattress box	No.	30	
2.	2.0	LAN STRUCTURED CABLING		<u> </u>	
		UTP CABLE INSTALLATION COST			
	2.1	Pulling the UTP cable per metre	M	75,030	
	2.2	Termination of UTP cable on the user-end	No.	1500	
	2.3	Termination of UTP cable on the patch panel side	No.	1500	
	2.4	Cabinet assembly	No.	65	
	2.5	Cabinet mounting	No.	65	
	2.6	Patch panel installation	No.	65	
	2.7	Mounting of Routers/Switches/UPS in the cabinet	No.	220	
	2.8	Patching and cable management per 24-port LAN	No.	65	
	2.9	Testing of data points and documentation (fluke test result)	No.	1500	

	2.10	Labelling of data points	No.	1500				
	2.1.1	LAN schematic drawings per floor	No.	130				
	2.12	Repairing faulty data points	No.	100				
	2.13	Removing old LAN cabling per floor	No.	20				
	2.14	Migration of equipment between cabinets	No.	15				
		(Router, switch. Patch panel, cable organiser, UPS)						
3	3.0	FIBER WORKS		<u> </u>				
		INSTALLATION OF FIBRE						
	3.1	Pulling MM fibre cable per metre (indoor)	M	1600				
	3.2	Pulling SM fibre cable per metre (outdoor)	M	1800				
	3.3	Termination of MM fibre cable per core	No.	72				
	3.4	Termination of SM fibre cable per core	No.	20				
	3.5	Installation of MM ODF with accessories(pigtails and Adaptors)	No.	16				
	3.6	Installation of SM ODF with accessories(pigtails and Adaptors)	No.	12				
	3.7	Installation of transceivers modules in the switches	No.	30				
	3.8	Patching and testing of each pair	No.	60				
	3.9	Labelling of each pair	No.	40				
	3.10	Repairing a faulty fibre cable per core	No.	40				

3.11	Civil works (1.2 M depth cable trench, installing a conduit, backfilling) per metre	No.	40			
4	MISCELLANEOUS					
4.1	Wall drilling per wall	No.	120			
4.2	Generator hiring	Hours	40			
SUB-TO	OTAL					
CONTI	NGENCY (5%)					
GRANI	OTOTAL					
	4 4.1 4.2 SUB-TO CONTI	conduit, backfilling) per metre 4 MISCELLANEOUS 4.1 Wall drilling per wall	conduit, backfilling) per metre 4 MISCELLANEOUS 4.1 Wall drilling per wall 4.2 Generator hiring SUB-TOTAL CONTINGENCY (5%)	conduit, backfilling) per metre 4 MISCELLANEOUS 4.1 Wall drilling per wall 4.2 Generator hiring No. 120 4.0 SUB-TOTAL CONTINGENCY (5%)	conduit, backfilling) per metre 4 MISCELLANEOUS 4.1 Wall drilling per wall 4.2 Generator hiring No. 120 Hours 40 SUB-TOTAL CONTINGENCY (5%)	conduit, backfilling) per metre 4 MISCELLANEOUS 4.1 Wall drilling per wall 4.2 Generator hiring Hours WB-TOTAL CONTINGENCY (5%)

Tender's Signature	Official Stamp	
Date		

SECTION VIII - STANDARD FORMS

Notes on the Sample Forms

- 1 Form of Tender- The form of tender must be completed by the tenderer and submitted with the tender documents. It must also be duly signed by duly authorized representatives of the tenderer.
- 2 Confidential Business Questionnaire Form This form must be completed by the tenderer and submitted with the tender documents.
- 3 Tender Securing declaration form When required by the tender documents the tender shall provide the tender securing declaration r in the form included herein any another format acceptable to the procuring entity.
- 4 *Contract Form*-The Contract Form shall not be completed by the tenderer at the time of submitting the tender. The Contract Form shall be completed after contract award and should incorporate the accepted contract price.
- 5 Bank Guarantee for Advance Payment Form— When Advance payment is requested for by the successful bidder and agreed by the procuring entity, this form must be completed fully and duly signed by the authorized officials of the bank.
- 6 *Manufacturers Authorization Form* When required by the ender documents this form must be completed and submitted with the tender documents. This form will be completed by the manufacturer of the goods where the tenderer is an agent.

8.1 FORM OF TENDER
Date
Tender No
To: KENYA REVENUE AUTHORITY
P. O. BOX 48240 – 00100, NAIROBI.
Gentlemen and/or Ladies:
1 II. da a anno la distanta de la comunitation de la distanta
1. Having examined the tender documents including Addenda
Nos
LOT 1 THREE (3) YEARS FRAMEWORK CONTRACT FOR THE SUPPLY AND
DELIVERY OF STRUCTURED CABLING MATERIALS in conformity with the said
tender documents for the sum of
tender documents for the sum of
(total tender amount in words and figures)
(total telider unloant in words and figures)
LOT 2 THREE (3) YEARS FRAMEWORK CONTRACT FOR THE SUPPLY AND
DELIVERY OF ACTIVE EQUIPMENT AND UPS in conformity with the said tender
documents for the sum of
documents for the sum of
(total telider almount in words and figures)
LOT 3 THREE (3) YEARS FRAMEWORK CONTRACT FOR THE SUPPLY AND
DELIVERY OF ACCESSORIES AND TOOLS in conformity with the said tender
documents for the sum of
documents for the sum of
(total telider amount in words and figures)
LOT 4 THREE (3) YEARS FRAMEWORK CONTRACT FOR THE SUPPLY AND
DELIVERY OF LAN INSTALLATION SERVICES (LABOUR ONLY) in conformity
with the said tender documents for the sum of
with the said tender documents for the sum of
(total tender amount in words and figures)
(total tender amount in words and figures)
or such other sums as may be ascertained in accordance with the Schedule of Prices
attached herewith and made part of this Tender.
2. We undertake, if our Tender is accepted, to deliver install and commission the
equipment in accordance with the delivery schedule specified in the Schedule of
Requirements.
I

3. If our Tender is accepted, we will obtain the guarantee of a bank in a sum of
equivalent to percent of the Contract Price for the due performance of
the Contract, in the form prescribed by
entity).
4. We agree to abide by this Tender for a period of 335 days from the date fixed for
tender opening of the Instructions to tenderers, and it shall remain binding upon us and
may be accepted at any time before the expiration of that period.
5. This Tender, together with your written acceptance thereof and your notification
of award, shall constitute a Contract, between us. Subject to signing of the Contract by
the parties.
6. We understand that you are not bound to accept the lowest or any tender you may
receive.
Dated this day of 20
[signature] [in the capacity of]
Duly authorized to sign tender for an on behalf of



8.2 CONFIDENTIAL BUSINESS QUESTIONNAIRE FORM

You are requested to give the particulars indicated in Part 1; either Part 2(a), 2(b) or 2 (c) whichever applied to your type of business; and Part 3.

You are advised that it is a serious offence to give false information on this form.

	8-11-11-11-11-11-11-11-11-11-11-11-11-11
	Part 1 – General
1.1	Business Name
1.2	Location of Business Premises.
1.3	Plot No Street/Road
	Postal Address Tel No. Fax E mail
1.4	Nature of Business
1.5	Registration Certificate No.
1.6	Maximum Value of Business which you can handle at any one time – Kshs.
1.7	Name of your Bankers
	Part 2 (a) – Sole Proprietor
2a.1	Your Name in Full
2a.2	Nationality
	Citizenship Details
	Part 2 (b) Partnership

2b.1	Given details of Partners as follows:
2b.2	Name Nationality Citizenship Details Shares
	1
	2
	3
	3
	4
	Part 2 (c) – Registered Company
2c.1	Private or Public
2c.2	State the Nominal and Issued Capital of Company-
	Nominal Kshs.
	Issued Kshs.
2c.3	Given details of all Directors as follows
20.5	Name Nationality Citizenship Details Shares
	1
	2.
	3.
	4.
	5
	Part 3 – Eligibility Status
3.1	Are you related to an Employee, Committee Member or Board Member of Kenya
	Revenue Authority? Yes No
3.2	If answer in '3.1' is YES give the relationship.
3.3	Does an Employee, Committee Member, Board Member of Kenya Revenue Authority sit
	in the Board of Directors or Management of your Organization, Subsidiaries or Joint

	Ventures? Yes No
3.4	If answer in '3.3' above is YES give details.
3.5	Has your Organization, Subsidiary Joint Venture or Sub-contractor been involved in the past directly or indirectly with a firm or any of it's affiliates that have been engaged by Kenya Revenue Authority to provide consulting services for preparation of design, specifications and other documents to be used for procurement of the goods under this invitation? YesNo
3.6	If answer in '3.5' above is YES give details.
3.7	Are you under a declaration of ineligibility for corrupt and fraudulent practices? YES No
3.8	If answer in '3.7' above is YES give details:
3.9	(a) Have you offered or given anything of value to influence the procurement process? YesNo
	Have you been requested to pay any inducement to any member of the Board,
	Management, Staff and/or employees and/or agents of Kenya Revenue Authority, which is the procuring entity?
	YesNo
	(c) Have your servants and/or agents offered any inducement to any member of the

Board, Management, Staff and/or employees and/or agents of Kenya Revenue Authority.
YesNo
If answer in '3.9' a, b or c above is YES give details:
Date Signature of Candidate

• If a Kenya Citizen, indicate under "Citizenship Details" whether by Birth, Naturalization or registration.

8.3 <u>TENDER SECURING FORM</u>

Wherea	is[name of the tenderer]
THE CO	ONDITIONS of this obligation are:-
	If the tenderer withdraws its Tender during the period of tender validityed by the tenderer on the Tender Form; or
	If the tenderer, having been notified of the acceptance of its Tender by the ng entity during the period of tender validity:
(a)	fails or refuses to execute the Contract Form, if required; or
(b)	fails or refuses to furnish the performance security in accordance with the Instructions to tenderers;
of its fi demand amoun	dertake to pay to the Procuring entity up to the above amount upon receipt rst written demand, without the Procuring entity having to substantiate its d, provided that in its demand the Procuring entity will note that the claimed by it is due to it, owing to the occurrence of one or both of the two ons, specifying the occurred condition or conditions.
after th	nder guarantee will remain in force up to and including thirty (30) days e period of tender validity, and any demand in respect thereof should reach k not later than the above date.
[signat	ure of the bank]
- 0	d accordinaly if provided by Insurance Company)
$1\Delta IIICIU$	i accoratituta ti bi oviaca ba fiisarance Contbana)

8.4 CONTRACT FORM
TENDER REF No: KRA/HQS/NCB-075/2019-2020
FRAMEWORK CONTRACT FOR THREE (3) YEARS FRAMEWORK
CONTRACT FOR SUPPLY AND DELIVERY OF LAN MATERIALS AND
INSTALLATION SERVICES
THIS AGREEMENT made the day of 20 between Kenya
Revenue Authority [name of Procurement entity] of Kenya [country of Procurement entity]
(hereinafter called "the Procuring entity) of the one part and
tenderer] of
the other part;
WHEREAS the Procuring entity invited tenders (supply of clean drinking water] and has
accepted a tender by the tenderer for the supply of those clean drinking water in the sum of
[contract price in words and
figures] (Hereinafter called "the Contract Price).
NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:
1. In this Agreement words and expressions shall have the same meanings as are
respectively assigned to them in the Conditions of Contract referred to:
2. The following documents shall be deemed to form and be read and construed as part of
this Agreement viz:
(a) the Tender Form and the Price Schedule submitted by the tenderer
(b) the Schedule of Requirements
(c) the Technical Specifications
(d) the General Conditions of Contract
(e) the Special Conditions of contract; and
(f) the Procuring entity's Notification of Award
(1) the Freeding entity 5 Notification of Fival a
3. In consideration of the payments to be made by the Procuring entity to the tenderer as
hereinafter mentioned, the tender hereby covenants with the Procuring entity to provide the
goods and to remedy defects therein in conformity in all respects with the provisions of the
Contract
4 TTI TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4. The Procuring entity hereby covenants to pay the tenderer in consideration of the
provisions of the goods 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 their respective laws the day and year first above written.
Signed, sealed, delivered by the (for the Procuring entity
Signed, sealed, delivered by the (for the tenderer in the
presence of
•
(Amend accordingly if provided by Insurance Company)

8.5 BANK GUARANTEE FOR ADVANCE PAYMENT FORM

To Kenya	a Revenue Authority
[name of tend	der]
Gentlemen ar	nd/or Ladies:
which amendtenderer](her guarantee to	e with the payment provision included in the Special Conditions of Contract described the General Conditions of Contract to provide for advance payment
tenderer, agree as surety me whatsoever ri	[bank or financial institutions], as instructed by the ee unconditionally and irrevocably to guarantee as primary obligator and not erely, the payment to the Procuring entity on its first demand without ight of objection on our part and without its first claim to the tenderer, in the exceeding
Contract to b made between	gree that no change or addition to or other modification of the terms of the e performed there-under or of any of the Contract documents which may be not the Procuring entity and the tenderer, shall in any way release us from any rethis guarantee, and we hereby waive notice of any such change, addition, or
_	ee shall remain valid in full effect from the date of the advance payment the tenderer under the Contract until
Yours truly,	
Signature and	l seal of the Guarantors
	[name of bank or financial institution]
	[address]
	[date]

8.6 MANUFACTURER'S AUTHORIZATION FORM

To Kenya Revenue Author	ority
manufacturer] who are established in a manufacturer	[name of the blished and reputable manufacturers of
•	guarantee and warranty as per the General Conditions of ed for supply by the above firm against this Invitation for signature for and on behalf of manufacturer]

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent.

8.7 LETTER OF NOTIFICATION OF AWARD

Kenya Revenue Authority P.O Box 48240 – 00100, Nairobi.

То:	
RE: Tender No	
Tender Name	
This is to notify that the contbeen awarded to you.	ract/s stated below under the above mentioned tender have

- 1. Please acknowledge receipt of this Letter of Notification signifying your Acceptance.
- 2. The Contract/contracts shall be signed by the parties within 30 days of the date of this letter but not earlier than 14 days from the date of the letter.
- 3. You may contact the officer(s) whose particulars appear below on the subject matter of this Letter of Notification of Award.

Deputy Commissioner, Procurement & Supplies Services, Haile Selassie Avenue, Times Tower, 23RD FLOOR

Telephone: +254-020-2817022 Facsimile: +254-020-215809

FOR: Commissioner-General