



Kenya Power

**TENDER NO. KP1/9A.2/OT/22/ICT/18-19 FOR
PROVISION OF SUPPORT AND MAINTENANCE
CONTRACT (SLA) FOR THE KENYA POWER ASTRO
RADIO TRUNKING SYSTEM**

JANUARY 2019

**ALL TENDERERS ARE ADVISED TO READ CAREFULLY THIS TENDER
DOCUMENT IN ITS ENTIRETY BEFORE MAKING ANY BID**

TENDER DOCUMENT FOR SERVICES

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SECTION I - INVITATION TO TENDER

DATE: JANUARY, 2019

TENDER NO.KP1/9A.2/OT/22/ICT/18-19 FOR PROVISION OF SUPPORT AND MAINTENANCE CONTRACT (SLA) FOR THE KENYA POWER ASTRO RADIO TRUNKING SYSTEM:

1.1 The Kenya Power & Lighting Company Limited hereinafter referred to KPLC invites bids from eligible Tenderers for Provision of Support And Maintenance Contract (SLA) For The Kenya Power Astro Radio Trunking System. Interested eligible Tenderers may obtain further information from the General Manager- Supply Chain, The Kenya Power & Lighting Company Ltd at Stima Plaza, 3rd Floor, Kolobot Road, P.O. Box 30099 – 00100 Nairobi, Kenya.

1.2 Obtaining tender documents.

1.2.1 Tender documents detailing the requirements may be obtained from the KPLC E-Procurement Portal .

1.2.2 Prospective bidders may also download the tender document from KPLC's website (www.kplc.co.ke) free of charge.

1.3 Submission of Tender documents

Completed Tenders are to be submitted in electronic format on the KPLC's E-procurement portal on the due date and time published on the portal. Tenderers are required to visit the portal from time to time for revised closing dates and addendums. The Tender is to be submitted **ONLINE** on or **before 12.02.2019 at 10:00am.**

1.4 Prices

Prices quoted should be inclusive of all taxes and delivery costs to the required site (where applicable) and must be in Kenya Shillings or a freely convertible currency in Kenya and shall remain valid for One Hundred & Eighty (180) days from the closing date of the tender.

Please note that prices indicated on the KPLC tendering portal should be exclusive of VAT.

1.5 Opening of submitted Tenders

Tenders will be opened promptly thereafter in the presence of the Tenderer's or their representatives who choose to attend in KPLC Auditorium at Stima Plaza, Kolobot Road, Parklands,

1.6 Pre-bid meeting

There will be a **mandatory pre-bid meeting** to be held at KPLC's premises, Stima Plaza, Auditorium, Kolobot Road, Nairobi, Kenya **at 10:00 am on 22.01.2019.**

SECTION II - TENDER SUBMISSION CHECKLIST

Tender Submission Format

Bidders are advised to clearly label their documents while uploading on the portal.

No.	Item	Tick Where Provided
1	Tender Security – Bank Guarantee or Letters of Credit (issued by Banks Licensed by the Central Bank of Kenya), Guarantee by a deposit taking Microfinance Institution, Sacco Society, the Youth Enterprise Development Fund or the Women Enterprise Fund.	
2	Declaration Form	
3	Duly completed Tender Form	
4	Certificate of Confirmation of Directors and Shareholding (C.R.12) for registered companies and if not a registered company a business name for those trading as a sole proprietor or a partnership registered under the Kenyan law or equivalent certification for foreign tenderers	
5*	Copy of PIN Certificate	
6*	Copy of Valid Tax Compliance Certificate	
7	Confidential Business Questionnaire (CBQ)	
8*	Certificate of Confirmation of Directors and Shareholding (C.R. 12) or equivalent (for foreign tenderers)	
14	Principals Authorization and warranty where applicable	
15	Names with full contact as well as physical addresses of previous customers of similar goods and reference letters from at least four (4) previous customers	
16	Statement on Deviations	
17	Price Schedule(s)	
18	Schedule of requirements duly filled indicating services offered	
19	Audited Financial Statements. The audited financial statements required must be those that are reported within eighteen (18) calendar months of the date of the tender document. (For companies or firms that are registered or incorporated within the last one calendar year of the Date of the Tender Document, they should submit certified copies of bank statements covering a period of at least six months prior to the date of the tender document. The copies should be certified by the Bank issuing	

	the statements. The certification should be original).	
20	Any other document or item required by the Tender Document. (The Tenderer shall specify such other documents or items it has submitted)	

***NOTES TO TENDERERS**

1. Valid Tax Compliance Certificate shall be one issued by the relevant tax authorities and valid for at least up to the tender closing date. All Kenyan registered Tenderers must provide a valid Tax Compliance Certificate.
2. All Kenyan registered Tenderers must provide the Personal Identification Number Certificate (PIN Certificate).
3. Foreign Tenderers must provide equivalent documents from their country of origin as regards Tax Compliance and PIN certificates OR statements certifying that the equivalent documentation is not issued in the Tenderer's country of origin. The Statement(s) that equivalent documentation is not issued by the Tenderer's country should be original and issued by the Tax authorities in the Tenderer's country of origin.

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SECTION III - INSTRUCTIONS TO TENDERERS (ITT)

3.1 Definitions

In this tender, unless the context or express provision otherwise requires: -

- a) *Any reference to any Act shall include any statutory extension, amendment, modification, re-amendment or replacement of such Act and any rule, regulation or order made there-under.*
- b) *“Date of Tender Document” shall be the **start date** specified on the KPLC tendering portal.*
- c) *“Day” means calendar day and “month” means calendar month.*
- d) *“KEBS” wherever appearing means the Kenya Bureau of Standards or its successor(s) and assign(s) where the context so admits.*
- e) *“KENAS” wherever appearing means the Kenya National Accreditation Service or its successor(s) and assign(s) where the context so admits*
- f) *“PPRA” wherever appearing means The Public Procurement Regulatory Authority or its successor(s) and assign(s) where the context so admits.*
- g) *Reference to “the tender” or the “Tender Document” includes its appendices and documents mentioned hereunder and any reference to this tender or to any other document includes a reference to the other document as varied supplemented and/or replaced in any manner from time to time.*
- h) *“The Procuring Entity” means The Kenya Power and Lighting Company Limited or its successor(s) and assign(s) where the context so admits (hereinafter abbreviated as KPLC).*
- i) *“The Tenderer” means the person(s) submitting its Tender for the supply, installation and commissioning (where applicable) of the goods in response to the Invitation to Tender.*
- j) *Where there are two or more persons included in the expression the “Tenderer”, any act or default or omission by the Tenderer shall be deemed to be an act, default or omission by any one or more of such persons.*
- k) *Words importing the masculine gender only, include the feminine gender or (as the case may be) the neutral gender.*
- l) *Words importing the singular number only include the plural number and vice-versa and where there are two or more persons included in the expression the “Tenderer” the covenants, agreements and obligations expressed to be made or performed by the Tenderer shall be deemed to be made or performed by such persons jointly and severally.*

- m) *KPLC’s “authorised person” shall mean its MD & CEO who is designated by the PPAD Act 2015 to exercise such power, authority or discretion as is required under the tender and any contract arising therefrom, or such other KPLC staff delegated with such authority.*
- n) *Citizen contractors-means a person/firm wholly owned and controlled by person(s) who are citizens of Kenya.*
- o) *Local contractors- a firm shall be qualified as a local contractor if it is registered in Kenya.*

3.2 Eligible Tenderers

3.2.1 A tenderer is eligible to bid for this contract only if the tenderer satisfies the following criteria—

- (a) the tenderer has the legal capacity to enter into a contract for procurement or asset disposal;
- (b) the tenderer is not insolvent, in receivership, bankrupt or in the process of being wound up;
- (c) the tenderer, if a member of a regulated profession, has satisfied all the professional requirements;
- (d) the tenderer and his or her sub-contractor, if any, is not debarred;
- (e) the tenderer has fulfilled tax obligations;
- (f) the tenderer has not been convicted of corrupt or fraudulent practices;
- and
- (g) is not guilty of any serious violation of fair employment laws and practices.

In addition, this Invitation to Tender is open to all Tenderers eligible as described in the **Appendix to Instructions to Tenderers**.

Successful Tenderers shall supply the goods in accordance with this tender and the ensuing contract.

- 3.2.2 In addition the tenderer shall be considered ineligible to bid, where in case of a corporation, private company, partnership or other body, the tenderer, their spouse, child or sub-contractor has substantial or controlling interest and is found to be in contravention of the provisions of section 3.2.1 above.
- 3.2.3 Despite the provisions of section 3.2.1 and 3.2.2, a tenderer having a substantial or controlling interest shall be eligible to bid where—
 - (a) such tenderer has declared any conflict of interest; and
 - (b) performance and price competition for that good, work or service is not available or can only be sourced from that tenderer.

- 3.2.4 For the purposes of this paragraph, any relative i.e. spouse(s) and child(ren) of any person mentioned in sub-paragraph 3.2.3 is also ineligible to participate in the tender. In addition, a Cabinet Secretary shall include the President, Deputy President or the Attorney General of GoK.
- 3.2.5 Tenderers shall provide the qualification information statement that the Tenderer (including 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 KPLC 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 to Tender.
- 3.2.6 Tenderers shall not be under declarations as prescribed at Section XIII.
- 3.2.7 Tenderers who are not under these declarations shall complete the Declaration Form strictly in the form and content as prescribed at Section XIII.
- 3.2.8 Those that are under the Declaration as prescribed at Section XIII whether currently or in the past shall not complete the Form. They will submit a suitable Form giving details, the nature and present status of their circumstances.

3.3 Joint Venture

- 3.3.1 Tenders submitted by a joint venture of two or more firms, as partners shall comply with the following requirements: -
- a) the Tender Form and in case of a successful tender, the Contract Agreement Form, shall be signed so as to be legally binding on all partners of the joint venture.
 - b) one of the partners shall be nominated as being lead contractor, and this authorization shall be evidenced by submitting a Power of Attorney signed by legally authorized signatories of all the partners.
 - c) The Power of Attorney which shall accompany the tender, shall be granted by the authorized signatories of all the partners as follows:-
 - (i.) for local bidders, before a Commissioner of Oaths or a Notary Public or Magistrate of the Kenyan Judiciary.
 - (ii.) for a foreign bidder, before a Notary Public, or the equivalent of a Notary Public, and in this regard the bidder shall provide satisfactory proof of such equivalence.
 - d) the lead contractor shall be authorized to incur liability and receive instructions for and on behalf of any and all the partners of the joint venture and the entire execution of the contract including payment shall be done exclusively with the lead contractor.

- 3.3.2 All partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms, and a relevant statement to this effect shall be included in the authorization mentioned in paragraph 3.3.1 (b) above as well as in the Form of Tender and the Contract Agreement Form (in case of the accepted tender).
- 3.3.3 A copy of the agreement entered into by the joint venture partners shall be submitted with the tender.

3.4 Cost of Tendering

- 3.4.1 The Tenderer shall bear all costs associated with the preparation and submission of its Tender, and KPLC will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

3.5 Contents of the Tender Document

- 3.5.1 The Tender Document comprises the documents listed below and Addendum (where applicable) issued in accordance with paragraph 3.7 of these Instructions to Tenderers: -
- a) *Invitation to Tender*
 - b) *Tender Submission Checklist*
 - c) *Instructions to Tenderers*
 - d) *Appendix to Instructions to Tenderers*
 - e) *Schedule of Requirements*
 - f) *Project Implementation Schedule*
 - g) *Price Schedule for Services*
 - h) *Evaluation Criteria*
 - i) *General Conditions of Contract*
 - j) *Special Conditions of Contract*
 - k) *Tender Form*
 - l) *Confidential Business Questionnaire Form*
 - m) *Tender Security Form*
 - n) *Manufacturer's Authorization Form*
 - o) *Manufacturer's Warranty*
 - p) *Declaration Form*
 - q) *Contract Form*
 - r) *Performance Security Form*
 - s) *Details of Service*
 - (i.) *General Requirements*
 - (ii.) *Specific Details of Services*

- 3.5.2 The Tenderer is expected to examine all instructions, forms, provisions, terms and specifications in the Tender Document. Failure to furnish all information required by the Tender Document or to submit a tender not substantially responsive to the Tender Document in every respect will be at the Tenderer's risk and may result in the rejection of its Tender.
- 3.5.3 All recipients of the documents for the proposed Contract for the purpose of submitting a tender (*whether they submit a tender or not*) shall treat the details of the documents as "Private and Confidential".

3.6 Clarification of Documents

A prospective Tenderer requiring any clarification of the Tender Document may notify the General Manager Supply Chain in writing and ensure receipt is acknowledged at KPLC's Physical address indicated on the Tender Document. KPLC 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 KPLC. Written copies of KPLC's response (*including an explanation of the query but without identifying the source of inquiry*) will be published and accessible to all prospective Tenderers on the KPLC's tendering portal.

3.7 Amendment of Documents

- 3.7.1 At any time prior to the deadline for submission of Tenders, KPLC, 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.
- 3.7.2 All prospective Tenderers that have registered in the portal for the Tender will be notified of the amendment(s) (*hereinafter referred to or otherwise known as addendum*) in writing and will be binding on them.
- 3.7.3 In order to allow prospective Tenderers reasonable time in which to take the amendment into account in preparing their Tenders, KPLC, at its discretion, may extend the deadline for the submission of Tenders.

3.8 Language of Tender

The Tender prepared by the Tenderer, as well as all correspondence and documents relating to the tender, exchanged between the Tenderer and KPLC, shall be written in English language. Any printed literature furnished by the Tenderer written in any other language shall be 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. The English translation shall be on the Tenderer's letterhead and

shall be signed by the duly authorized signatory signing the Tender and stamped with the Tenderer's stamp.

3.9 Documents Comprising the Tender

The Tender prepared and submitted by the Tenderers shall include but not be limited to all the following components: -

- a) *Declaration Form, Tender Form and a Price Schedule completed in compliance with paragraphs 3.2, 3.10, 3.11 and 3.12.*
- b) *Documentary evidence established in accordance with paragraph 3.13 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 3.14 that the services and any ancillary thereto to be provided by the Tenderer conform to the tender documents, and,*
- d) *Tender Security furnished in accordance with paragraph 3.17*
- e) *A detailed list of previous customers as prescribed for similar services on tender and their contact addresses shall be submitted with the Tender for the purpose of reference, or for evaluation where the Details of Service so dictate.*
- f) *And all other documents indicated in Section II (Tender Submission Checklist)*

3.10 Tender Form

The Tenderer shall complete and sign the Tender Form and all other documents furnished in the Tender Document, indicating the services to be performed, a brief description of the services, quantity (where applicable), and prices amongst other information required.

3.11 Tender Prices

- 3.11.1 The Tenderer shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total tender price of the services it proposes to provide under the contract.
- 3.11.2 Prices indicated on the Price Schedule shall be of all costs for the services including insurances, duties, Value Added Tax (V.A.T) and other taxes payable. No other basis shall be accepted for evaluation, award or otherwise.
- 3.11.3 Tender prices to be submitted (quoted) by the Tenderer shall remain fixed for the contract duration.
- 3.11.4 A price that is derived by a disclosed incorporation or usage of an international accepted standard formula shall be acceptable within the meaning of this paragraph.

3.12 Tender Currencies

- 3.12.1 For services that the Tenderer will provide from within or outside Kenya, the prices shall be quoted in Kenya Shillings, or in another freely convertible currency in Kenya. The currency quoted must be indicated clearly on the Price Schedule of Services.
- 3.12.2 The exchange rate to be used for currency conversion shall be the Central Bank of Kenya selling rate prevailing on the Tender closing date. *(Please visit the Central Bank of Kenya website).*

3.13 Tenderer's Eligibility and Qualifications

- 3.13.1 Pursuant to paragraph 3.2, the Tenderer shall furnish, as part of its Tender, documents establishing the Tenderer's eligibility to tender and its qualifications to perform the contract if its Tender is accepted.
- 3.13.2 The documentary evidence of the Tenderer's qualifications to perform the contract if its Tender is accepted shall be established to KPLC's satisfaction –
- a) *that, in the case of a Tenderer offering to perform the services under the contract which the Tenderer is not the Principal, the Tenderer has been duly authorized by the Manufacturer, Principal or Producer to provide the services. The authorization shall strictly be in the form and content as prescribed in the Manufacturer's or Principal's Authorization Form in the Tender Document*
 - b) *that the Tenderer has the financial capability necessary to perform the contract. The Tenderer shall be required to provide the documents as specified in the Appendix to Instructions to Tenderers including a current Tax Compliance Certificate issued by the relevant tax authorities.*
 - c) *that the Tenderer has the technical and production capability necessary to perform the contract.*
 - d) *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, spare parts and stocking obligations prescribed in the Conditions of Contract and or in the Details of Service.*
 - e) *that the Tenderer is duly registered and is a current member of a recognized body or institution accredited and or pertaining to that service.*
- 3.13.3 The Tenderer will furnish KPLC with a copy of the accreditation or recognition certificate as applicable. KPLC reserves the right to subject the certificate to authentication.
- 3.13.4 Tenderers with a record of unsatisfactory or default in performance obligations in any contract shall not be considered for evaluation or award. For the avoidance of doubt, this

shall include any Tenderer with unresolved case(s) in its obligations for more than two (2) months in any contract.

3.14 Conformity of Services to Tender Documents

3.14.1 The Tenderer shall furnish, as part of its tender, documents establishing the conformity to the Tender Document of all services that the Tenderer proposes to perform under the contract.

3.14.2 The documentary evidence of conformity of the services to the Tender Document may be in the form of literature, drawings, and data, and shall (where applicable) consist of: -

- a) *a detailed description of the essential technical and performance characteristics of the services whether in catalogues, drawings or otherwise,*
- b) *a list giving full particulars, including available source and current prices of spare parts, special tools and other incidental apparatus necessary for the proper and continuing performance of the services for a minimum period of two (2) years following commencement of the provision of the services to KPLC, and,*
- c) *duly completed Statement of Compliance to KPLC's Details of Service demonstrating substantial responsiveness of the service to those Details or, a statement of deviations and exceptions to the provisions of the Details of Service.*

3.14.3 For purposes of the documentary and other evidence to be furnished pursuant to subparagraphs 3.14.1, 3.14.2 and paragraph 3.15, the Tenderer shall note that standards for workmanship, material, and equipment, designated by KPLC in its Details of Service are intended to be descriptive only and not restrictive. The Tenderer may adopt higher standards in its Tender, provided that it demonstrates to KPLC's satisfaction that the substitutions ensure substantial equivalence to those designated in the Details of Service.

3.15 Demonstration(s), Inspection(s) and Test(s)

3.15.1 Where required in the tender, all Tenderers shall demonstrate ability of performance of the required service in conformity with the Details of Services.

3.15.2 KPLC or its representative(s) shall have the right to inspect/ test the Tenderer's capacity, equipment, premises, and to confirm their conformity to the tender requirements. This shall include the quality management system. KPLC's representative(s) retained for these purposes shall provide appropriate identification at the time of such inspection/ test.

3.15.3 KPLC shall meet its own costs of the inspection/ test. Where conducted on the premises of the Tenderer(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to KPLC.

3.15.4 Demonstration, Inspection/ Test Report(s) shall be completed upon conclusion of the inspection/ tests. This Report will be considered at time of evaluation and or award.

3.16 Warranty

- 3.16.1 Where required in the Tender, all Tenderers must also provide a Warranty that services to be rendered in the Tenderer's bid have no defect arising from manufacture, materials or workmanship or from any act or omission of the Tenderer that may develop under normal use or application of the services under the conditions obtaining in Kenya.
- 3.16.2 This warranty will remain valid for the period indicated in the special conditions of contract after the services, or any portion thereof as the case may be, have been rendered.

3.17 Tender Security

- 3.17.1 The Tenderer shall furnish, as part of its Tender, a tender security for the amount specified in the Appendix to Instructions to Tenderers. **The Original Tender Security, in a clearly labelled envelop, shall be deposited in the Tender Security Box on the 3rd Floor, Stima Plaza, entrance to procurement department on or before the opening date and time and receipt acknowledged by KPLC evidenced by a stamped copy.**
- 3.17.2 The tender security shall be either one or a combination of the following: -
- a) an original Bank Guarantee that is strictly in the form and content as prescribed in the Tender Security Form (Bank Guarantee) in the Tender Document.
 - b) For Local bidders, Standby Letters of Credit (LC). All costs, expenses and charges levied by all banks party to the LC shall be prepaid/borne by the Tenderer. The LC must contain all the mandatory conditions of payment to KPLC as prescribed in the Tender Security (Letters of Credit) provided in the Tender Document.
 - c) For Foreign bidders, Standby Letters of Credit (LC) confirmed by a bank in Kenya. All costs, expenses and charges levied by all banks party to the LC including confirmation charges shall be prepaid/borne by the Tenderer. The LC must contain all the mandatory conditions of payment to KPLC as prescribed in the Tender Security (Letters of Credit) provided in the Tender Document.
 - d) An original Guarantee by a deposit taking Microfinance Institution, Sacco Society, Youth Enterprise Development Fund or the Women Enterprise Fund, that is strictly in the form and content as prescribed in the Tender Security Form
- 3.17.3 The tender security is required to protect KPLC against the risk of the Tenderer's conduct which would warrant the security's forfeiture pursuant to paragraph 3.17.10.
- 3.17.4 The Tender Security shall be denominated in Kenya Shillings or in another freely convertible currency in Kenya. A Tender Security in form of a Bank Guarantee or a Standby Letter of Credit issued on behalf of local bidders, should be from a commercial bank licensed by the Central Bank of Kenya. A Tender Security in form of a Standby

Letter of Credit issued on behalf of foreign bidders by foreign banks, should be confirmed by a commercial bank licensed by the Central Bank of Kenya.

- 3.17.5 The Tender Security shall be valid for thirty (30) days beyond the validity of the tender.
- 3.17.6 KPLC shall seek authentication of the Tender Security from the issuing bank. It is the responsibility of the Tenderer to sensitize its issuing bank on the need to respond directly and expeditiously to queries from KPLC. The period for response shall not exceed five (5) days from the date of KPLC's query. Should there be no conclusive response by the bank within this period, such Tenderer's Tender Security may be deemed as invalid and the bid rejected.
- 3.17.7 Any Tender not secured in accordance with this paragraph will be rejected by KPLC as non-responsive, pursuant to paragraph 3.26.
- 3.17.8 The unsuccessful Tenderer's Tender Security will be released as promptly as possible, in any of the following circumstances: -
- a) *the procurement proceedings are terminated*
 - b) *KPLC determines that none of the submitted Tenders is responsive*
 - c) *a contract for the procurement is entered into.*
- 3.17.9 The successful Tenderer's Tender Security will be released upon the successful Tenderer's signing the contract, pursuant to paragraph 3.39 and furnishing an authentic Performance Security, pursuant to paragraph 3.40.
- 3.17.10 The Tender Security shall be forfeited –
- a) *if the Tenderer withdraws its Tender after the deadline for submitting Tenders but before the expiry of the period during which the Tenders must remain valid*
 - b) *if the Tenderer fails to enter into a written contract in accordance with paragraph 3.39*
 - c) *if the successful Tenderer fails to furnish the performance security in accordance with paragraph 3.40*
 - d) *if the Tenderer fails to extend the validity of the tender security where KPLC has extended the tender validity period in accordance with paragraph 3.18.*

3.18 Validity of Tenders

- 3.18.1 Tenders shall remain valid for one hundred and eighty (180) days after the date of tender opening as specified in the Invitation to Tender or as otherwise may be prescribed by KPLC, pursuant to paragraph 3.23. A Tender that is valid for a shorter period shall be rejected by KPLC as non-responsive.

3.18.2 In exceptional circumstances, KPLC may extend the Tender validity period. The extension shall be made in writing. The tender security provided under paragraph 3.17 shall also be extended. A Tenderer shall not be required nor permitted to modify its tender during the extended period

3.19 Alternative Offers

Only main offers shall be considered, as alternative offers are not acceptable.

3.20 Preparation and Signing of the Tender

3.20.1 The Tender shall be typed or written in indelible ink. It shall be signed by the Tenderer or a person or persons duly authorized to bind the Tenderer to the contract.

3.20.2 The authorization shall be indicated by a written Power of Attorney granted by the Tenderer to the authorized person before any of the following persons:-

a) *For local Tenderers, a Commissioner of Oaths or a Notary Public or a Magistrate of the Kenyan Judiciary.*

b) *For foreign Tenderers, a Notary Public in the country of the Tenderer.*

In either case above, the Power of Attorney shall accompany the Tender.

3.20.3 All pages of the Tender, including un-amended printed literature, shall be initialed by the person or persons signing the Tender and serially numbered.

3.20.4 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.

3.20.5 KPLC will assume no responsibility whatsoever for the Tenderer's failure to comply with or observe the entire contents of this paragraph 3.20.

3.20.6 Any Tender not prepared and signed in accordance with this paragraph may be rejected by KPLC as non-responsive, pursuant to paragraph 3.26.

3.21 Deadline for Submission of Tenders

3.21.1 Tenders must be received by KPLC by the date and time specified in KPLC's tendering portal in PDF form.

3.21.2 KPLC may, at its discretion, extend this deadline for submission of Tenders by amending the tender documents in accordance with paragraph 3.7, in which case all rights and obligations of KPLC and the Tenderer previously subject to the initial deadline, will therefore be subject to the deadline as extended.

3.22 Modification and Withdrawal of Tenders

3.22.1 The Tenderer may modify or withdraw its Tender after it has submitted, provided that the modification, including substitution or withdrawal of the Tender is received by KPLC prior to the deadline prescribed for submission of tenders.

3.22.2 No Tender may be modified after the deadline for submission of Tenders.

3.22.3 No Tender may be withdrawn in the interval between the deadline for submission of tenders and the expiration of the period during which the Tender must remain valid except where KPLC extends the initial validity period. Any withdrawal of a Tender during this interval shall result in forfeiture of the Tenderer's Tender Security except where KPLC extends the initial validity period.

3.23 Opening of Tenders

3.23.1 KPLC shall open all Tenders promptly at the date and time specified in the KPLC tendering portal and at the location specified in the Invitation to Tender or as may otherwise be indicated.

3.23.2 The Tenderer's names, tender modifications or withdrawals, the presence or absence of requisite Tender Security and such other details as KPLC, at its discretion, may consider appropriate, will be announced at the opening.

3.23.3 At the Tender opening, tender prices, discounts, and such other details as KPLC, at its discretion, may consider appropriate will be read out.

3.23.4 The Tenderers or their representatives may attend the opening and those present shall sign a register evidencing their attendance.

3.24 Process to be Confidential

3.24.1 After the opening of tenders, information relating to the examination, clarification, evaluation and comparisons of tenders and recommendations arising therefrom shall not be disclosed to a Tenderer or other person(s) not officially concerned with such process until conclusion of that process.

3.24.2 Conclusion of that process shall be deemed to have occurred, at the latest, by the date and time KPLC notifies the successful bidder(s). In any event, official disclosure by KPLC of any information upon conclusion of that process may only be to the unsuccessful bidders and may contain only the information permissible by law in summary form.

3.24.3 Any effort by a Tenderer to influence KPLC or any of its staff members in the process of examination, evaluation and comparison of tenders and information or decisions concerning the Tender may result in the disqualification of the Tenderer.

3.25 Clarification of Tenders and Contacting KPLC

3.25.1 To assist in the examination, evaluation and comparison of Tenders KPLC 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.

3.25.2 The Tenderer is required to provide timely clarification or substantiation of the information that is essential for effective evaluation of its qualifications. It is the responsibility of the Tenderer to provide in writing the clarification or substantiation

which should reach KPLC within five (5) days from the date of KPLC's query. Such writing may include by electronic mail, facsimile or postal mail. Should there be no conclusive response within this period, it shall result in the Tenderer's disqualification.

- 3.25.3 Save as is provided in this paragraph and paragraph 3.22 above, no Tenderer shall contact KPLC on any matter related to its Tender, from the time of the tender opening to the time the successful Tenderer is announced.
- 3.25.4 Any effort by a Tenderer to influence KPLC in its decisions on tender evaluation, tender comparison, tender recommendation(s) or signing of Agreement may result in the disqualification of the Tenderer.

3.26 Preliminary Evaluation and Responsiveness

- 3.26.1 Prior to the detailed Technical and Financial evaluation, KPLC will determine the substantial responsiveness of each Tender. For purposes of this tender, a substantially responsive Tender is one that conforms to the requirements of Preliminary Evaluation. KPLC's determination of a Tender's responsiveness is to be based on the contents of the Tender itself without recourse to extrinsic evidence.
- 3.26.2 KPLC will examine the Tenders to determine whether they conform to the Preliminary Evaluation Criteria set out in Section VI Evaluation Criteria.
- 3.26.3 Notwithstanding the contents of the foregoing sub-paragraphs, if a Tender is not substantially responsive, it will be rejected at the earliest stage of evaluation by KPLC and cannot subsequently be made responsive by the Tenderer by correction of any non-conformity.

3.27 Minor Deviations, Errors or Oversights

- 3.27.1 KPLC may waive any minor deviation in a Tender that does not materially depart from the requirements of the goods and or services set out in the Tender Document.
- 3.27.2 Such minor deviation -
 - 3.27.2.1 shall be quantified to the extent possible,*
 - 3.27.2.2 shall be taken into account in the evaluation process, and,*
 - 3.27.2.3 shall be applied uniformly and consistently to all qualified Tenders duly received by KPLC.*
- 3.27.3 KPLC may waive errors and oversights that can be corrected without affecting the substance of the Tender.

3.28 Technical Evaluation and Comparison of Tenders

- 3.28.1 KPLC will further evaluate and compare the Tenders that have been determined to be substantially responsive, in compliance to the Details of Services set out in the Tender Document and as per the prescribed Evaluation Criteria.
- 3.28.2 The Operational Plan is a critical aspect of the Tender. KPLC requires that the Services shall be performed at the time specified in the Schedule of Requirements. KPLC's

evaluation of a tender will also take into account the Operational Plan proposed in the Tender. Tenderers offering to perform longer than KPLC's required delivery time will be treated as non-responsive and rejected.

3.29 Financial Evaluation

- 3.29.1 The financial evaluation and comparison shall be as set out in the Summary of Evaluation Process. The comparison shall be
- a) of the price including all costs as well as duties and taxes payable on all the materials to be used in the provision of the Services.
 - b) deviations in Payment Schedule from that specified in the Special Conditions of Contract
- 3.29.2 Where other currencies are used, KPLC will convert those currencies to the same currency using the selling exchange rate ruling on the date of tender closing provided by the Central Bank of Kenya.

3.30 Preferences

- 3.30.1 Subject to availability and realization of the applicable international or local standards, only such manufactured articles, materials or supplies wholly mined and produced in Kenya shall be subject to preferential procurement.
- 3.30.2 Despite the above provisions, preference shall be given to —
- (a) manufactured articles, materials and supplies partially mined or produced in Kenya or where applicable have been assembled in Kenya; or
 - (b) firms where Kenyans are shareholders.
- 3.30.3 The threshold for the provision under 3.30.2 (b) shall be above fifty-one percent of Kenyan shareholders.
- 3.30.1 In the evaluation of tenders, exclusive preference shall firstly be given to citizen contractors where the amount of the tender as evaluated is below Ksh. 500 Million in respect of works, goods and services.
- 3.30.2 Where a person is entitled to more than one preference scheme, the scheme with the highest advantage to the person shall be applied.
- 3.30.3 For purposes of this paragraph the Tenderer shall submit with its Tender, a valid copy of certificate of Confirmation of Directorships and Shareholding issued **and signed** by either the Registrar of Companies or Registrar of Business Names. This certificate must not be more than three (3) months old from the Date of the Tender Document. Kenya Power reserves the right to subject the certificate to authentication.

3.31 Debarment of a Tenderer

A Tenderer who gives false information in the Tender 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.

3.32 Confirmation of Qualification for Award

- 3.32.1 KPLC may confirm to its satisfaction whether the Tenderer that is selected as having submitted the lowest evaluated responsive tender is qualified to perform the contract satisfactorily.
- 3.32.2 The confirmation will take into account the Tenderer's financial, technical, and performance capabilities. It will be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to paragraph 3.13 as well as confirmation of such other information as KPLC deems necessary and appropriate. This may include factory, office and other facilities inspection and audits.
- 3.32.3 An affirmative confirmation will be a prerequisite for award of the contract to the Tenderer. A negative confirmation will result in rejection of the Tenderer's Tender, in which event KPLC will proceed to the next lowest evaluated responsive tender to make a similar confirmation of that Tenderer's capabilities to perform satisfactorily.

3.33 Award of Contract

- 3.33.1 KPLC will award the contract to the successful Tenderer whose Tender has been determined to be substantially responsive, compliant with the evaluation criteria and has been determined to be the lowest evaluated tender, and further, where deemed necessary, that the Tenderer is confirmed to be qualified to perform the contract satisfactorily.
- 3.33.2 Award will be done as indicated in the Appendix to Instructions to Tenderers.

3.34 Termination of Procurement Proceedings

- 3.34.1 KPLC may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 3.34.2 KPLC shall give prompt notice of the termination to the Tenderers, and, on request from any Tenderer, give its reasons for termination within fourteen (14) days of such request.

3.35 Notification of Award

- 3.35.1 Prior to the expiration of the period of tender validity, KPLC shall notify the successful Tenderer in writing that its Tender has been accepted.
- 3.35.2 The notification of award shall not constitute the formation of the contract until one is finally signed by both parties.
- 3.35.3 Simultaneously, and without prejudice to the contents of paragraph 3.25, on issuance of Notification of Award to the successful Tenderer, KPLC shall notify each unsuccessful Tenderer.

- 3.38.4 A notification of the tender outcome does not reduce the validity period for any tender security whether the Tenderer is successful or not, except where such tender security is officially released to the Bank and/or the Tenderer and such Bank discharged of all its obligations by KPLC prior to the expiry of its stated validity period.

3.36 Signing of Contract

- 3.36.1 At the same time as KPLC notifies the successful Tenderer that its Tender has been accepted, KPLC will send the Tenderer the Contract Agreement provided in the Tender Document together with any other necessary documents incorporating all agreements between the Parties.
- 3.36.2 Within fourteen (14) days of the date of notification of award, the successful Tenderer shall only sign the Contract Form and all the documents specified in that Form and return them to KPLC within that period of fourteen (14) days.
- 3.36.3 KPLC shall sign and date the Contract in the period between not earlier than fourteen (14) days from the date of notification of contract award. Further, KPLC shall not sign the contract until and unless the authentic performance security is received in accordance with paragraph 3.36.
- 3.36.4 Failure of the successful Tenderer to sign the Contract, the award shall be annulled, and its tender security forfeited in which event KPLC shall notify the next lowest evaluated Tenderer that its Tender has been accepted.
- 3.36.5 Paragraph 3.33 together with the provisions of this paragraph 3.35 will apply with necessary modifications with respect to the Tenderer notified under sub-paragraph 3.35.3.

3.37 Performance Security

- 3.37.1 Within fourteen (14) days of the date of notification of award from KPLC, the successful Tenderer shall furnish KPLC with a Performance Security which shall be either one or a combination of the following:
- a) an original Bank Guarantee that is strictly in the form and content as prescribed in the Performance Security Form (Bank Guarantee) in the Tender Document.
 - b) For Local bidders, Standby Letters of Credit (LC). All costs, expenses and charges levied by all banks party to the LC shall be prepaid/borne by the Tenderer. The LC must contain all the mandatory conditions of payment to KPLC as prescribed in the Tender Security (Letters of Credit) provided in the Tender Document.
 - c) For Foreign bidders, Standby Letters of Credit (LC) confirmed by a bank in Kenya. All costs, expenses and charges levied by all banks party to the LC including confirmation charges shall be prepaid/borne by the Tenderer. The LC must contain all the mandatory conditions of payment to KPLC as prescribed in the Tender Security (Letters of Credit) provided in the Tender Document.

3. 37.2 The Performance Security shall be issued by a commercial bank licensed by the Central Bank of Kenya. The bank must be located in Kenya.
3. 37.3 The Performance Security shall be the sum of ten percent (10%) of the contract value. It shall be in the currency of the contract price.
3. 37.4 KPLC shall seek authentication of the Performance Security from the issuing bank. It is the responsibility of the successful Tenderer to sensitize its issuing bank on the need to respond directly and expeditiously to queries from KPLC. The period for response shall not exceed three (3) days from the date of KPLC's query. Should there be no conclusive response by the Bank within this period, such successful Tenderer's Performance Security may be deemed as invalid.
3. 37.5 Failure of the successful Tenderer to furnish an authentic Performance Security, the award shall be annulled and the Tender Security forfeited, in which event KPLC may notify the next lowest evaluated Tenderer that its Tender has been accepted.
3. 37.6 Paragraph 3.35, 3.36 together with the provisions of this paragraph 3. 37 will apply with necessary modifications, and as far as circumstances permit, with respect to the Tenderer notified under sub-paragraph 3.37.5.

3.38 Corrupt or Fraudulent Practices

- 3.38.1 KPLC 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: -
- a) *“Corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of public official in the procurement process or in contract execution;*
 - b) *“Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of KPLC, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive KPLC of the benefits of free and open competition.*
3. 38.2 KPLC will nullify its notification of award if it determines that the Tenderer recommended has engaged in corrupt or fraudulent practices in competing for the contract in question.
3. 38.3 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 and or amend the provisions of the Instructions to Tenderers *hereinafter abbreviated as ITT*. Wherever there is a conflict between the provisions of the ITT and the Appendix, the provisions of the Appendix herein shall prevail over those of the ITT.

No.	ITT Reference Clause	Particulars of Appendix
1.	3.2.1 Eligible Tenderers	<i>All the tenderers with manufacturers principal Authorization are eligible to bid.</i>
2.	3.9 (e) Documents Comprising the Tender – List of Previous Customers	<i>The Tenderer shall submit at least four (4) names with full contact as well as physical addresses of previous customers of similar services and letters from the previous customers confirming completion of the contracts on schedule.</i>
3.	3.13.2 (a) Manufacturer’s / Principal’s Authorization	<i>Bidders to submit manufacturers principal authorization.</i>
4.	3.13.2 (b) Documentary evidence of financial capability	<i>The audited financial statements required must be those that are reported within eighteen (18) calendar months of the date of the tender document. (For companies or firms that are registered or incorporated within the last one calendar year of the Date of the Tender Document, they should submit certified copies of bank statements covering a period of at least six months prior to the date of the tender document. The copies should be certified by the Bank issuing the statements. The certification should be original).</i>
5.	3.13.2 (c) and (d) Documents of evidence of eligibility	<i>Confidential Business Questionnaire, copy of VAT, Registration Certificate, Copy of PIN Registration certificate, KRA Tax Compliance Certificate.</i>
6.	3.13.2 (e) Tenderer’s membership of a recognized or	<i>N/A</i>

	accredited institution.	
7.	3.14.2 (a) Catalogues, Brochures, Manufacturer's/ Principal's Drawings	<i>N/A</i>
8.	3.16.2 Warranty – Period of	<i>Warranty period of one (1) year.</i>
9.	3.17.1 Tender Security	<i>Tender Security of Ksh. 900,000.00</i>
10.	3.36.2 Mode of Award of Contract	<i>To the lowest evaluated bidder.</i>

SECTION V - PRICE SCHEDULE FOR SERVICES

MAINTENANCE CONTRACT

1. Preventive Maintenance

Bi – annual site visits to undertake preventive maintenance tasks as per Details of Service (Section X) and maintenance contract (Appendix II)

Item No.	Description	Unit of Measure	Quantity	Performance Start Date	Performance End Date	Unit price VAT Exclusive	Total price VAT Exclusive
1.	Kiganjo	Activity	4	Contract date	2 Years after contract sign off.		
2.	Nyeri Hill	Activity	4	Contract date	2 Years after contract sign off.		
3.	Nanyuki	Activity	4	Contract date	2 Years after contract sign off.		
4.	Lolldaiga Hills	Activity	4	Contract date	2 Years after contract sign off.		
5.	Nyambene Hill	Activity	4	Contract date	2 Years after contract sign off.		
6.	Karue hill	Activity	4	Contract date	2 Years after contract sign off.		
7.	Ol Donyo Sabuk Hill	Activity	4	Contract date	2 Years after contract sign off.		
8.	Mbondoni Hill	Activity	4	Contract date	2 Years after contract sign off.		

9.	NGUNI Hill	Activity	4	Contract date	2 Years after contract sign off.		
10.	NCC/Juja rd. MSO	Activity	4	Contract date	2 Years after contract sign off.		
11.	Ngong Hills	Activity	4	Contract date	2 Years after contract sign off.		
12.	Kilome hill	Activity	4	Contract date	2 Years after contract sign off.		
13.	Maparasha hill	Activity	4	Contract date	2 Years after contract sign off.		
14.	Mbui-Nzau hill	Activity	4	Contract date	2 Years after contract sign off.		
15.	Loitokitok	Activity	4	Contract date	2 Years after contract sign off.		
16.	Eburu	Activity	4	Contract date	2 Years after contract sign off.		
17.	Londiani Hill	Activity	4	Contract date	2 Years after contract sign off.		
18.	Nyahururu	Activity	4	Contract date	2 Years after contract sign off.		
19.	Narok	Activity	4	Contract date	2 Years after contract sign off.		

20.	Kipkabus	Activity	4	Contract date	2 Years after contract sign off.		
21.	Kapenguria	Activity	4	Contract date	2 Years after contract sign off.		
22.	Kabarnet	Activity	4	Contract date	2 Years after contract sign off.		
23.	Nandi Hills	Activity	4	Contract date	2 Years after contract sign off.		
24.	Surungai	Activity	4	Contract date	2 Years after contract sign off.		
25.	Maragoli	Activity	4	Contract date	2 Years after contract sign off.		
26.	Bondo	Activity	4	Contract date	2 Years after contract sign off.		
27.	Gembe	Activity	4	Contract date	2 Years after contract sign off.		
28.	Gucha	Activity	4	Contract date	2 Years after contract sign off.		
29.	Nyamira	Activity	4	Contract date	2 Years after contract sign off.		
30.	Osupuuko	Activity	4	Contract date	2 Years after contract sign off.		
31.	Migori	Activity	4	Contract date	2 Years		

					after contract sign off.		
32.	Kisii 132kV	Activity	4	Contract date	2 Years after contract sign off.		
33.	Vuria	Activity	4	Contract date	2 Years after contract sign off.		
34.	Taru	Activity	4	Contract date	2 Years after contract sign off.		
35.	Rabai 132kV	Activity	4	Contract date	2 Years after contract sign off.		
36.	Chasimba	Activity	4	Contract date	2 Years after contract sign off.		
37.	Kwale	Activity	4	Contract date	2 Years after contract sign off.		
38.	Ramisi	Activity	4	Contract date	2 Years after contract sign off.		
39.	Magharini	Activity	4	Contract date	2 Years after contract sign off.		
40.	Sokoke	Activity	4	Contract date	2 Years after contract sign off.		
41.	Witu	Activity	4	Contract date	2 Years after contract sign off.		
42.	Lamu	Activity	4	Contract date	2 Years after		

					contract sign off.		
43.	Mnazini	Activity	4	Contract date	2 Years after contract sign off.		
44.	Lessos	Activity	4	Contract date	2 Years after contract sign off.		
45.	Mua Hill	Activity	4	Contract date	2 Years after contract sign off.		
46.	Namanga	Activity	4	Contract date	2 Years after contract sign off.		
47.	Kabarnet	Activity	4	Contract date	2 Years after contract sign off.		
48.	Lanet	Activity	4	Contract date	2 Years after contract sign off.		
TOTAL							

Payment shall be after completion of a full round of preventive maintenance and submission of detailed report as per Details of Service under terms specified in the Special Conditions of Contract.

2. Curative Maintenance

Provide comprehensive support and repairs/replacement of faulty parts for the entire system as detailed in the schedule of requirements and Service Level Agreement.

Item No.	Description	Unit of Measure	Quantity	Performance Start Date	Performance End Date	Unit price VAT Exclusive (per annum)	Total price VAT Exclusive (per annum)
1.	Comprehen	Activity	1	Contract date	2 Years after		

	sive Support				contract sign off.		
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Note

1. Consumables and board components used in the support and repairs are NOT to be charged separately and will be provided by the supplier.
2. Any unrepairable part that must be replaced shall be sourced at prices listed in with the concurrence of KPLC as stipulated in the Details of Service and such parts must be returned to KPLC.

SPARES PRICE LIST

Item No.	Description	Unit of Measure	Quantity	Performance Start Date	Performance End Date	Unit price VAT Exclusive
1.	Motorola GCP 8000	Pc	1	Contract date	2 Years after contract sign off.	
2.	Hewlett-Packard 2610	Pc	1	Contract date	2 Years after contract sign off	
3.	Motorola GGM 8000	Pc	1	Contract date	2 Years after contract sign off	
4.	Motorola GTR 8000 Amplifier	Pc	1	Contract date	2 Years after contract sign off	
5.	Motorola GTR 8000 Receiver	Pc	1	Contract date	2 Years after contract sign off	
6.	8 dBi Antenna	Pc	1	Contract date	2 Years after contract sign off	
7.	½ Inch Heliac	Meter	1	Contract date	2 Years after	

	Cable				contract sign off	
8.	5 Channel VHF Transmit Combiner	Pc	1	Contract date	2 Years after contract sign off	
9.	Cambium PTP 650	Pc	1	Contract date	2 Years after contract sign off	
10.	NIDU E1 Interface	Pc	1	Contract date	2 Years after contract sign off	
11.	DC-AC 1UDC+ Inverter Module	Pc	1	Contract date	2 Years after contract sign off	
12.	Gammatronic™1UD C+ Modular Rectifier	Pc	1	Contract date	2 Years after contract sign off	
13.	Motorola Voice Processing Module B1933	Pc	1	Contract date	2 Years after contract sign off	
14.	Master Site Core 48Port LAN Switch HP 3800 Part No. CLN1858	Pc	1	Contract date	2 Years after contract sign off	
15.	Core Routers Motorola	Pc	1	Contract date	2 Years after contract sign off	

	S6000					
16.	VHF Isolators	Pc	1	Contract date	2 Years after contract sign off	

Notes

- 1. The prices shall be DDP and valid and fixed for two years from Contract effective date.**
- 2. Particular spares shall be supplied as and when required by Kenya Power. The price list attached shall be subject to negotiation with the winning bidder if KPLC deems it necessary.**

Date:

Tender Number and Name:

To:

The Kenya Power & Lighting Company Limited,
Stima Plaza,
Kolobot Road, Parklands,
P.O Box 30099 – 00100,
Nairobi, Kenya.

Dear Sirs and Madams,

Having read, examined and understood the Tender Document including all Addenda, receipt of which we hereby acknowledge, we, the undersigned Tenderer, offer to provide(*insert services description*) for the sum of.....(*total tender price in words and figures*) or such other sums as may be ascertained in accordance with the schedule of prices inserted by me/ us above.

Name of Tenderer

Name and Designation of authorised person signing the Tender

Signature of authorised person signing the Tender

Stamp of Tenderer

SECTION VI - EVALUATION CRITERIA

Evaluation of duly submitted tenders will be conducted along the following stages: -

6.1 Part 1 - Preliminary Evaluation Under Paragraph 3.28 of the ITT. These are mandatory requirements. This shall include confirmation of the following:-

6.1.1 *Submission of Tender Security - Checking its validity, whether it is Original; whether it is issued by a local bank/institution; whether it is strictly in the format required in accordance with the sample Tender Security Form(s).*

6.1.2 *Submission of Declaration Form(s) duly completed and signed.*

6.1.3 *Submission and considering Tender Form duly completed and signed.*

6.1.4 *Submission and considering the following:-*

6.1.4.1 *For Local Tenderers*

- a) *Company or Firm's Registration Certificate*
- b) *PIN Certificate.*
- c) *Valid Tax Compliance Certificate.*
- d) *Business Permit from county government.*

6.1.4.2 *For Foreign Tenderers*

- a) *Company or Firm's Registration Certificate*
- b) *PIN Certificate or its equivalent in the country of bidder or a statement from the tax authorities in the Tenderer's country of origin indicating that such certificate or its equivalent is not issued.*
- c) *Valid Tax Compliance Certificate or its equivalent in the country of bidder or a statement from the tax authorities in the Tenderer's country of origin indicating that such certificate or its equivalent is not issued.*

6.1.5 *That the Tender is valid for the period required.*

6.1.6 *Submission and considering the Confidential Business Questionnaire:-*

- a) *Is fully filled.*
- b) *That details correspond to the related information in the bid.*
- c) *That the Tenderer is not ineligible as per paragraph 3.2 of the ITT.*

6.1.7 *If required in the Tender Document, submission of the following-*

- a) *Commentary of Compliance to the Details of Service*
- b) *Manufacturer's/ Principal's Authorisation*

- 6.1.8 *Record of unsatisfactory or default in performance obligations in any contract shall be considered. This shall include any Tenderer with unresolved case(s) in its performance obligations for more than two (2) months in any contract.*
- 6.1.9 *Notwithstanding the above, considering any outstanding orders/Supplier Performance Review Scheme (SPRS) where applicable and the performance capacity indicated by the Tenderer.*

Tenders will proceed to the Technical Evaluation Stage only if they qualify in compliance with Part 1 above, Preliminary Evaluation under Paragraph 3.28.

6.2 Part II – Technical Evaluation and Comparison of Tenders Under Paragraph 3.30 of the ITT. These are mandatory requirements.

6.2.1 Verification of the following information:

- a) *Manufacturer's or Principal's Authorization.*
- b) *Submitted with the Tender –*
 - (i) *Manufacturer's or Principal's authorization*
 - (ii.) *Commentary of Compliance to the Details of Service.*
 - (iv.) *Any other details required of the Tender.*

6.2.2 Detailed Evaluation

6.2.2.1 Tenderers shall be expected to indicate full compliance to Details of Service.

6.2.2.2 Evaluation of Demonstration of ability of the offered service, to comply with the Details of Service (where required).

6.2.2.3 Identifying and determining any deviation(s) from the requirements; errors and oversights.

6.2.2.4 Confirmation of compliance of previous contract(s) in accordance with its/ their terms and conditions where applicable.

NO.	EVALUATION CRITERIA	SCORING
7.2.1	<p>Previous experience</p> <p><i>Details of similar Contracts undertaken successfully within the last 5 years and evidenced by letters of reference from clients or completion certificates for the respective projects.</i></p>	<p>2 Contracts – 10 Marks</p> <p>1 Contract – 5 Marks</p>
7.2.2	<p>Qualifications</p> <p><i>Qualified Key personnel who will actively be involved in the proposed contract. Evidence of registration with relevant professional/regulatory bodies. (Provide detailed recently signed CVs accompanied by relevant academic and professional certificates. Telephone contacts must be provided)</i></p>	<p>Academic qualifications in Telecommunications (1mark for each staff maximum 3 marks)</p> <p>Registration (1mark for each staff maximum 3 marks)</p> <p>Experience in radio communication systems (2 marks for each staff maximum 4 marks)</p>
7.2.3	<p>Equipment</p> <p><i>Give a list and type of relevant equipment owned by the company evidenced by ownership documents. Where not owned by the company, provide documentary evidence of leased equipment as required under clause 6.2.1</i></p>	<p>4 wheel drive motor vehicle (2 marks for each vehicle maximum 4 marks)</p> <p>Radio frequency test equipment (eg spectrum analyzers, signal generators etc) (2 marks for each equipment maximum 12 marks)</p> <p>Personal protective equipment (safety belts, helmets, overalls, safety boots) for communication tower work (2 marks for each set maximum 4 marks)</p>
7.2.5	<p><i>Statement on compliance with details of service</i></p>	<p>Full compliance – 5 marks</p>

7.2.6	<p>Telecommunications Contractor</p> <p><i>i) Registration with CAK for the respective Category/Class</i></p> <p><i>ii) Certificate of Registration under Company's Act</i></p> <p><i>iii) Valid Tax Compliance Certificate</i></p>	<p>CAK registration – 5 marks</p> <p>Company registration – 2 marks</p> <p>Tax compliance – 3 marks</p>
7.2.7	<p>Proof of training/experience of key personnel to work on Motorola radio systems.</p>	<p>2.5 marks per staff up to a max of 10 marks</p>
7.2.8	<p>Proof of a Local Service Centre</p> <p><i>Provide evidence in the form of accreditation certificates or photographs. Include a statement on the workshop area, number of full time technical staff in the workshop/service centre and the length of time the service centre has been in operation.</i></p>	<p>Workshop area</p> <p><i>less than 500 sq ft – 2.5 marks</i></p> <p><i>more than 500 sq ft – 5 marks</i></p> <p>Workshop staff</p> <p><i>2.5 marks per staff up to a max of 5 marks</i></p> <p>Length of service</p> <p><i>less than 1 year – 2.5 marks</i></p> <p><i>more than 1 year – 5 marks</i></p>
7.2.9	<p>Manufacturer's Authorization</p> <p><i>Provide evidence of authorization from Motorola or its authorized agent to resell and/or service its products.</i></p>	<p>Resellers or service agent agreement/authorization – 10 marks</p> <p>Authorization for service, resell and back to back contract with manufacturer for support – 20 marks</p>

Note - Bidders who score 75 marks and above in the technical evaluation shall proceed to financial evaluation.

6.3 Part III – Financial Evaluation Criteria Under Paragraph 3.31 of the ITT. These are mandatory requirements.

6.3.1 This will include the following: -

- a) *Confirmation of the authenticity and sufficiency of the submitted Tender Security.*
- b) *Confirmation of and considering Price Schedule duly completed and signed.*
- c) *Checking that the Tenderer has quoted prices based on all costs including duties and taxes*
- d)* *Checking submission of audited financial statements required which must be those that are reported within eighteen (18) calendar months of the date of the tender document.*
- e) *Conducting a financial comparison, including conversion of tender currencies into one common currency,*
- f) *Taking into account the cost of any deviation(s) from the tender requirements,*
- g) *Considering information submitted in the Confidential Business Questionnaire against other information in the bid including: -*
 - a) *Declared maximum value of business*
 - b) *Shareholding and citizenship for preferences where applicable.*
- h) *Apply Exclusive margin of preference, where applicable as per Clause 3.32 of the tender document*

6.3.2 Confirming the following: -

6.3.2.1 that the Supplier's offered Delivery Schedule meets KPLC's requirements.

6.3.2.2 that the Supplier's offered Terms of Payment meets KPLC's requirements.

6.4 The Successful Tenderer shall be the one with the lowest evaluated price.

***NOTES: -**

1. For purposes of evaluation, the exchange rate to be used for currency conversion shall be the selling exchange rate prevailing on the date of tender closing provided by the Central Bank of Kenya. (Visit the Central Bank of Kenya website).
2. Total tender value means the Tenderer's total tender price inclusive of Value Added Tax (V.A.T) for the services it offers to provide.
3. For companies or firms that are registered or incorporated within the last one calendar year of the Date of the Tender Document, they should submit certified copies of bank statements covering a period of at least six months prior to the date of the tender

document. The copies should be certified by the Bank issuing the statements. The certification should be original.

TABLE OF CLAUSES ON GENERAL CONDITIONS OF CONTRACT

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SECTION VII – GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract *hereinafter referred abbreviated as the GCC* shall form part of the Conditions of Contract in accordance with the law and KPLC’s guidelines, practices, procedures and working circumstances. The provisions in the GCC will apply unless an alternative solution or amendment is made under other parts of the Contract including the Special Conditions of Contract.

7.1 Definitions

In this contract, the following terms shall be interpreted as follows: -

- a) *“Day” means calendar day and “month” means calendar month.*
- b) *“The Contract” means the agreements entered into between KPLC and the Contractor, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.*
- c) *“The Contract Price” means the price payable to the Contractor under the contract for the full and proper performance of its contractual obligations.*
- d) *“The Services” means services or art thereof to be provided by the Contractor and includes all of the materials and incidentals, which the Contractor is required to perform and provide to KPLC under the contract.*
- e) *“The Procuring Entity” means The Kenya Power and Lighting Company Limited or its successor(s) and assign(s) where the context so admits (hereinafter abbreviated as KPLC).*
- f) *“The Contractor” means the individual or firm providing the services under this contract or his/ her/ its permitted heir(s), personal representative(s), successor(s) or permitted assign(s) where the context so admits. For the avoidance of doubt this shall mean the successful Tenderer(s) pursuant to the tender.*
- g) *Wherever used in the contract, “performance” shall be complete or be deemed to be complete, unless the circumstances indicate otherwise, when the services have been performed in accordance with the Contract and where KPLC does not signify its approval to the Contractor, but without giving notice of dissatisfaction, on the expiration of thirty (30) days from date of documented completion of performance of the service.*
- h) *Supplier Rating Performance Scheme (SPRS) means the continuous evaluation of the Supplier’s performance of the contract based on the parameters of timely delivery, quality of service, frequency of communication, timely response, innovation, dispute resolution.*

7.2 Application

These General Conditions shall apply to the extent that provisions of other parts of the contract do not supersede them.

7.3 Standards

The Services supplied under this contract shall conform to the standards mentioned in the Details of Service.

7.4 Supplier Performance Rating Scheme

- 7.4.1 KPLC shall use a Supplier Performance Rating Scheme (SPRS) to measure the annual performance of the Supplier's obligations and its conduct of the contract.
- 7.4.2 The Scheme will be updated periodically commencing with the date of execution of the contract by both parties. KPLC shall provide the Supplier with a copy of the SPRS report.
- 7.4.3 KPLC shall consider the Supplier's overall performance at the end of the performance period.
- 7.4.4 At the request of either party, the parties shall discuss and conclude deliberations on the annual SPRS report. At any such meetings and/or for the purposes of the deliberations, KPLC Supply Chain – Procurement Department shall appoint the Chairperson as well as the Secretariat.
- 7.4.5 The SPRS measures shall be according to Supplier Performance Rating Form in Section XXVI
- 7.4.6 A KP1, KP2 & KP3 assessment of the Supplier on the SPRS will be a consideration for continued engagement between the parties in the subsequent year. A KP4 assessment of the Supplier shall be a termination event.

7.5 Use of Contract Documents and Information

- 7.5.1 The Contractor shall not, without KPLC's prior written consent, disclose the contract, or any provision thereof or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of KPLC in connection therewith, to any person other than a person employed by the Contractor in the performance of the contract.
- 7.5.2 The Contractor shall not, without KPLC's prior written consent, make use of any document or information enumerated in clause 7.5.1 above.
- 7.5.3 Any document, other than the contract itself, enumerated in clause 7.5.1 shall remain the property of KPLC and shall be returned (including all copies) to KPLC on completion of the Contractor's performance under the contract if so required by KPLC.

7.6 Patent Rights

The Contractor shall indemnify KPLC against all third-party claims of infringement of patent, trademark, or industrial design rights arising from provision of the services or any part thereof.

7.6 Performance Security

- 7.6.1 Within fourteen (14) days of the date of the notification of contract award, the Contractor shall furnish to KPLC the Performance Security which shall be either one or a combination of the following: -
- a) an original Bank Guarantee that is strictly in the form and content as prescribed in the Performance Security Form (Bank Guarantee) in the Tender Document.
 - b) Confirmed Standby Letters of Credit (LC). All costs, expenses and charges levied by all banks party to the LC including confirmation charges shall be prepaid by the successful Tenderer. Certain mandatory conditions of the LC shall be as prescribed in the Performance Security Form (LC) in the Tender Document.
- 7.6.2 The Performance Security shall be issued by a commercial bank licensed by the Central Bank of Kenya. The bank must be located in Kenya.
- 7.6.3 The Performance Security shall be the sum of ten percent (10%) of the contract price. It shall be in the currency of the contract price.
- 7.6.4 Failure of the Contractor to furnish the Performance Security, the award shall be annulled, and the Tender Security forfeited, in which event KPLC may notify the next lowest evaluated Tenderer that its Tender has been accepted.
- 7.6.5 The proceeds of the Performance Security shall be payable to KPLC as compensation for any loss resulting from the Contractor's failure to comply with its obligations in accordance with the contract without KPLC being required to demonstrate the loss it has suffered.
- 7.6.6 The Performance Security shall be valid for a minimum of sixty (60) days after satisfactory delivery for both Foreign and Local Contractors.
- 7.6.7 KPLC shall seek authentication of the Performance Security from the issuing bank. It is the responsibility of the Contractor to sensitize its issuing bank on the need to respond directly and expeditiously to queries from KPLC. The period for response shall not exceed three (3) days from the date of KPLC's query. Should there be no conclusive response by the Bank within this period, such Contractor's Performance Security may be deemed as invalid and the Contract nullified, unless information to the contrary is received by KPLC two (2) days before the expiry of the Contractor's Tender Security.
- 7.6.8 Subject to the provisions of this contract, the Performance Security will be discharged by KPLC and returned to the Contractor not earlier than thirty (30) days following the date of completion of the Contractor's obligations under the contract, including any warranty obligations, under the contract.

7.7 Inspection and Tests

- 7.7.1 KPLC or its representative(s) shall have the right to inspect and/or to test the services to confirm their conformity to the contract specifications. KPLC shall notify the Contractor in writing in a timely manner, of the identity of any representative(s) retained for these purposes. Such visit and or inspection/ test shall in no way prejudice KPLC's rights and privileges.
- 7.7.2 In appropriate circumstances, Inspection/ Test Report(s) shall be completed upon conclusion of the inspection/ tests.
- 7.7.3 The inspections and tests may be conducted in the premises of the Contractor or its subcontractor(s). If conducted on the premises of the Contractor 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 KPLC.
- 7.7.4 Should any inspected or tested services fail to conform to the specifications, KPLC may reject the Service(s), and the Contractor shall either replace or remedy the rejected services or make alterations necessary to meet specification requirements free of cost to KPLC.
- 7.7.5 KPLC's right to inspect, test and where necessary, reject the services after provision shall in no way be limited or waived by reason of the services having previously been inspected, tested and passed by KPLC or its representative(s) prior to the services performance / delivery.
- 7.7.6 For the avoidance of doubt, any acknowledgement by KPLC on the Contractor's or subcontractor's document shall not be conclusive proof or evidence of satisfactory performance without duly authorized approval by KPLC.
- 7.7.7 Nothing in this clause 7.7 shall in any way release the Contractor from any warranty or other obligations under this Contract.

7.8 Packaging and Labelling

- 7.8.1 Where applicable, the Contractor shall provide such packaging of the material and equipment as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract.
- 7.8.2 The method of packaging, labeling and marking shall comply strictly with such special requirements as shall be specified and attached to the Contract and particular Order.
- 7.8.3 The labelling, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract.
- 7.8.4 The materials and equipment shall be packed in good condition suitable for sea/air/road/rail dispatch. Hazard in transit to the final destination shall include rough handling and storage in tropical conditions.

7.8.5 The Contractor shall enclose a packing list in each package and all documents relating to the Order shall show the Tender reference number and name against the items or package indicating the supplier or supplier's agent as the consignee.

7.9 Delivery and Documents for Materials/ Equipment

7.9.1 Where applicable, delivery of the materials/ equipment shall be made by the Contractor to the place and in accordance with the terms specified by KPLC in its Schedule of Requirements or as may be otherwise indicated.

7.9.2 The Contractor shall notify KPLC of the full details of the delivered materials/ equipment by delivering the materials/ equipment with a full set of the following documents: -

- a) *Contractor's invoice showing the materials/ equipment description, quantity, unit price and total price*
- b) *Delivery note*
- c) *Packing list identifying contents of each package*

7.9.3 It is the responsibility of the Contractor to ensure that the delivery documents are received by KPLC at the designated delivery point at the time of delivery.

7.10 Insurance

7.10.1 The Contractor shall be responsible for and keep in force current appropriate insurance covers for its property and persons engaged in the performance and or provision of the Services under the contract.

7.10.2 The Contractor shall (*except in respect to losses, injuries or damage resulting from any act or neglect of KPLC*) indemnify and keep indemnified KPLC against all losses and claims for injuries or damage to any person or property whatsoever which may arise out of or in consequence of the contract and against all claims, demands, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof or in relation thereto.

7.11 Payment

7.11.1 Payments shall be made promptly by KPLC and shall not be less than thirty (30) days from completion of satisfactory performance and submission of invoice together with other required and related documents or as otherwise prescribed in the contract.

7.11.2 Payment shall primarily be through KPLC's cheque or Real Time Gross Settlement (RTGS) or telegraphic transfer. Where applicable, a copy of a valid Performance Security, stamped, certified as authentic by KPLC, shall form part of the documents to be presented to KPLC before any payment is made.

7.11.3 A Contractor who requests for a Letter of Credit (*hereinafter abbreviated as LC*)–

- a) *Shall meet the LC bank charges levied by its bank while KPLC shall meet the LC bank charges levied by its bank.*
- b) *Any extension and or amendment charges and any other costs that may result from the Contractor's delays, requests, mistakes or occasioned howsoever by the Contractor shall be to the Beneficiary's account.*
- c) *The maximum number of extensions and amendments shall be limited to two (2).*
- d) *Notwithstanding sub-clause 7.11.3 (a), should the Contractor require a confirmed LC, then all confirmation and any other related charges levied by both the Contractor's and KPLC's bank shall be to the Beneficiary's account.*
- e) *The LC shall be opened only for the specific Order within the validity period of the contract.*
- f) *LCs shall be partial for partial performance or full for whole performance as per the contract.*
- g) *The Contractor shall be required to submit a proforma invoice for each lot*

for use in the placement of order and opening of the LC. The proforma invoice shall be on total all-inclusive costs basis.
- h) *A copy of the Performance Security, stamped and certified as authentic by KPLC, whose expiry date should not be less than sixty (60) days from the LC expiry date, shall form part of the documents to be presented to the Bank before any payment is effected.*

7.11.4 KPLC shall have the sole discretion to accept or decline any Contractor's payment request through Letters of Credit without giving any reason for any decline.

7.12 Interest

Interest payment by KPLC is inapplicable in the contract.

7.13 Prices

7.13.1 Subject to clause 7.14 herein below, prices charged by the Contractor for services performed under the contract shall be fixed for the period of the contract with no variations.

7.13.2 A price that is derived by a pre-disclosed incorporation or usage of an internationally accepted standard formula shall not be deemed to be a price variation within the meaning of this clause.

7.14 Variation of Contract

KPLC and the Supplier may vary the contract only in accordance with the following: -

- a) *the quantity variation of services shall not exceed twenty percent (20%) of the original contract quantity.*
- b) *The cumulative value variation shall not exceed twenty five percent (25%) of the original contract value.*
- c) *the quantity variation must be executed within the period of the contract.*

7.15 Assignment

The Contractor shall not assign in whole or in part its obligations to perform under this contract, except with KPLC's prior written consent.

7.16 Subcontracts

- 7.16.1 The Contractor shall notify KPLC in writing of all subcontracts awards under this contract if not already specified in the tender. Such notification, in the original tender or obligation under the Contract shall not relieve the Contractor from any liability or obligation under the Contract.
- 7.16.2 In the event that an award is given and the contract is sub-contracted, the responsibility and onus over the contract shall rest on the Contractor who was awarded.

7.17 Termination of Contract

- 7.17.1 KPLC may, without prejudice to any other remedy for breach of contract, by written notice sent to the Contractor, terminate this contract in whole or in part due to any of the following: -
 - a) *if the Contractor fails to perform any or all of the services within the period(s) specified in the contract, or within any extension thereof granted by KPLC.*
 - b) *if the Contractor fails to perform any other obligation(s) under the contract.*
 - c) *if the Contractor, in the judgment of KPLC has engaged in corrupt or fraudulent practices in competing for or in executing the contract.*
 - d) *by an act of force majeure.*
 - e) *if the Contractor becomes insolvent or bankrupt*
 - f) *if the Contractor has a receiving order issued against it, compounds with its creditors, or an order is made for its winding up (except for the purposes of its amalgamation or reconstruction), or a receiver is appointed over its or any part of its undertaking or assets, or if the Contractor suffers any other analogous action in consequence of debt.*
 - g) *if the Contractor abandons or repudiates the Contract.*
- 7.17.2 In the event that KPLC terminates the contract in whole or in part, it may procure, upon such terms and in such manner as it deems appropriate, services similar to those

undelivered or not rendered, and the Contractor shall be liable to KPLC for any excess costs for such similar services and or any other loss PROVIDED that the Contractor shall not be so liable where the termination is for convenience of KPLC.

- 7.17.3 The Parties may terminate the Contract by reason of an act of *force majeure* as provided for in the contract.
- 7.17.4 The Contract may automatically terminate by reason of an act of *force majeure* as provided for in the Contract.

7.18 Liquidated Damages

Notwithstanding and without prejudice to any other provisions of the contract, if the Contractor fails to perform any or all of the services within the period specified in the contract, KPLC shall, without prejudice to its other remedies under the contract, deduct from the contract prices, liquidated damages sum equivalent to 0.5% of the performance price per day of delay of the delayed due services up to a maximum of ten percent (10%) of the performance price of the delayed due services.

7.19 Warranty

- 7.19.1 Where applicable, the Contractor warrants that the Services provided under the contract are of the highest quality or current specification and incorporate all recent improvements unless provided otherwise in the contract. The Contractor further warrants that any materials/ equipment provided under this contract shall have no defect arising from manufacture, materials or workmanship or from any act or omission of the Contractor that may develop under normal use of the materials/ equipment provided under the conditions obtaining in Kenya.
- 7.19.2 This warranty will remain valid for the period indicated in the special conditions of contract after the goods, or any portion thereof as the case may be, have been delivered to the final destination indicated in the contract.
- 7.19.3 KPLC shall promptly notify the Contractor in writing of any claims arising under this Warranty.
- 7.19.4 Upon receipt of such a notice, the Contractor shall, with all reasonable speed, remedy the defective services without cost to KPLC.
- 7.19.5 If the Contractor having been notified, fails to remedy the defect(s) within a reasonable period, KPLC may proceed to take such remedial action as may be necessary, at the Contractor's risk and expense and without prejudice to any other rights which KPLC may have against the Contractor under the contract.

7.20 Resolution of Disputes

- 7.20.1 KPLC and the Contractor may make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.
- 7.20.2 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 resort to resolution before a recognized local forum for the resolution of disputes.

7.21 Language and Law

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

7.22 Waiver

Any omission or failure by KPLC to exercise any of its rights or enforce any of the penalties arising from the obligations imposed on the Contractor shall in no way, manner or otherwise howsoever, alter, amend, prejudice, vary, waive or be deemed to alter, amend, prejudice, vary, waive or otherwise whatsoever any of KPLC's powers and rights as expressly provided in and as regards this contract.

7.23 Force Majeure

- 7.23.1 Force majeure means any circumstances beyond the control of the parties, including but not limited to:
- a) *war and other hostilities (whether war be declared or not), invasion, act of foreign enemies, mobilization, requisition or embargo;*
 - b) *ionizing radiation or contamination by radio-activity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosives or other hazardous properties of any explosive nuclear assembly or nuclear components thereof;*
 - c) *rebellion, revolution, insurrection, military or usurped power & civil war;*
 - d) *riot, commotion or disorder except where solely restricted to employee's servants or agents of the parties;*
 - e) *un-navigable storm or tempest at sea.*
- 7.23.2 Notwithstanding the provisions of the contract, neither party shall be considered to be in default nor in breach of its obligations under the Contract to the extent that performance of such obligations is prevented by any circumstances of *force majeure* which arise after the contract entered into by the parties.

- 7.23.3 If either party considers that any circumstances of *force majeure* are occurring or have occurred which may affect performance of its obligations it shall promptly notify the other party and provide reasonable proof of such circumstances.
- 7.23.4 Upon the occurrence of any circumstances of *force majeure*, the Contractor shall endeavour to continue to perform its obligations under the contract so far as is reasonably practicable. The Contractor shall notify KPLC of the steps it proposes to take including any reasonable alternative means for performance, which is not prevented by *force majeure*. The Contractor shall not take any such steps unless directed so to do by KPLC.
- 7.23.5 If the Contractor incurs additional costs in complying with KPLC's directions under sub clause 7.23.4, then notwithstanding the provisions of the contract, the amount thereof shall be agreed upon with KPLC and added to the contract price.
- 7.23.6 If circumstances of *force majeure* have occurred and shall continue for a period of twenty-one (21) days then, notwithstanding that the Contractor may by reason thereof have been granted an extension of time for performance of the contract, either party shall be entitled to serve upon the other seven (7) days' notice to terminate the contract. If at the expiry of the period of twenty-eight (28) days, *force majeure* shall still continue, the contract shall terminate.

SECTION VIII – SPECIAL CONDITIONS OF CONTRACT

The Special Conditions of Contract *hereinafter abbreviated as SCC* shall form part of the Conditions of Contract. They are made in accordance with the law and KPLC’s guidelines, practices, procedures and working circumstances. They shall amend, add to and vary the GCC. The clauses in this section need not therefore, be completed but must be completed by KPLC if any changes to the GCC provisions are deemed necessary. Whenever there is a conflict between the GCC and SCC, the provisions of the SCC shall prevail over those in the GCC.

No.	GCC Reference Clause	Particulars of SCC
1.	7.11.1 Terms of Payment	<p><i>5% advance upon signing of the contract with bank guarantee of the same value. 80% quarterly payment after completion of scheduled periodic maintenance and submission of a detailed reports on maintenance and repair services signed by KPLC and vendor. 15% to be paid after completion of the contract and upon submission of report showing that all outstanding issues have addressed and confirmed by KPLC.</i></p> <p><i>Payment for spares delivered shall be 30 days after invoicing.</i></p>
2.	7.19.2 Warranty – Period Of	<p><i>Warranty period shall be one (1) year for spares delivered.</i></p>

SECTION IX - TENDER FORM

Date:

Tender No.

To:

The Kenya Power & Lighting Company Limited,
 Stima Plaza,
 Kolobot Road, Parklands,
 P.O Box 30099 – 00100,
Nairobi, Kenya.

Ladies and Gentlemen,

1. Having read, examined and understood the Tender Document including all Addenda, the receipt of which is hereby duly acknowledged, we, the undersigned Tenderer, offer to perform, deliver, install and commission (*the latter two where applicable*) (*insert services description*) in accordance and conformity with the said tender document and in particular the Schedule of Prices that are made part of this Tender.
2. We undertake, if our Tender is accepted, to perform and provide the services in accordance with the Schedule of Requirements.
3. If our Tender is accepted, we will obtain the guarantee of a bank in a sum of equivalent to ten percent (10%) of the contract price for the due performance of the contract, in the form(s) prescribed by The Kenya Power & Lighting Company Limited.
4. We agree to abide by this Tender for a period of.....days (**Tenderer please indicate validity of your Tender**) from the date fixed for tender opening as per the Tender Document, 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 not constitute a contract, between us. The contract shall be formed between us when both parties duly sign the written contract.
6. We understand that you are not bound to accept any Tender you may receive.

Yours sincerely,

Name of Tenderer

Signature of duly authorised person signing the Tender

Name and Designation of duly authorised person signing the Tender

Stamp or Seal of Tenderer

***NOTES:**

1. KPLC requires a validity period of at least One Hundred & Eighty (180) days.
2. This form must be duly signed, stamped and/or sealed.

SECTION X – CONFIDENTIAL BUSINESS QUESTIONNAIRE FORM

All Tenderers are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2 (c), whichever applies to your type of business. You are advised that it is a serious offence to give false information on this form.

<p>Part 1 – General</p> <p>Business Name.....</p> <p>Location of business premises.....</p> <p>Plot No.Street/ Road</p> <p>Postal Address Postal Code</p> <p>Tel No.....</p> <p>Facsimile.....</p> <p>Mobile and/ or CDMA No.....</p> <p>E-mail:.....</p> <p>Nature of your business</p> <p>Registration Certificate No.....</p> <p>Maximum value of business which you can handle at any time KSh.....</p> <p>Name of your BankersBranch... ..</p> <p>*Names of Tenderer’s contact person(s)</p> <p>Designation of the Tenderer’s contact person(s)</p> <p>Address, Tel, Fax and E-mail of the Tenderer’s contact person(s)</p> <p>.....</p> <p>.....</p>
--

Part 2 (a) Sole Proprietor

Your name in full

NationalityCountry of origin

*Citizenship details.....

Part 2 (b) Partnership

Give details of partners as follows: -

Names	Nationality	*Citizenship Details	Shares
1.....			
2.....			
3.....			
4.....			
5.....			

Part 2 (c) Registered Company

Private or Public

State the nominal and issued capital of company-

Nominal KSh.....

Issued KSh.....

Give details of all directors as follows

Name	Nationality	*Citizenship Details	Shares
1.....			
2.....			
3.....			
4.....			

Name of duly authorized person to sign for and on behalf of the Tenderer

.....

Designation of the duly authorized person.....

Signature of the duly authorized person.....

***NOTES TO THE TENDERERS ON THE QUESTIONNAIRE**

1. *The address and contact person of the Tenderer provided above shall at all times be used for purposes of this tender.*
2. *If a Kenyan citizen, please indicate under “Citizenship Details” whether by birth, naturalization or registration.*
3. *The details on this Form are essential and compulsory for all Tenderers. **Failure to provide all the information requested shall lead to the Tenderer’s disqualification.***
4. *For foreign Tenderers please give the details of nominal and issued share capital in the currency of the country of origin of the Tenderer.*

SECTION XI A - TENDER SECURITY FORM – (BANK GUARANTEE)

(To Be Submitted On Bank’s Letterhead)

Date:

To:

The Kenya Power & Lighting Company Limited,
Stima Plaza,
Kolobot Road, Parklands,
P.O Box 30099 – 00100,
Nairobi, Kenya.

WHEREAS (name of the Tenderer) (hereinafter called “the Tenderer”) has submitted its Tender dated for the supply, installation and commissioning of..... (please insert KPLC tender no. and name) (hereinafter called “the Tender”);

KNOW ALL PEOPLE by these presents that **WE**.....ofhaving our registered office at.....(hereinafter called “the Bank”), are bound unto The Kenya Power and Lighting Company Limited (hereinafter called “KPLC” which expression shall where the context so admits include its successors-in-title and assigns) in the sum of for which payment well and truly to be made to the said KPLC, the Bank binds itself, its successors, and assignees by these presents.

We undertake to pay you, upon your first written demand declaring the Tenderer to be in breach of the tender requirements and without cavil or argument, the entire sum of this guarantee being (amount of guarantee) as aforesaid, without you needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This tender guarantee will remain in force up to and including thirty (30) days after the period of tender validity, and any demand in respect thereof should reach the Bank not later than the date below.

This guarantee is valid until theday of.....20.....

EITHER

SEALED with the)

COMMON SEAL)

of the said BANK)

thisday)

of20....)

in the presence of :-)

_____)

and in the presence of:-)

_____)

BANK SEAL

OR

SIGNED by the **DULY AUTHORISED REPRESENTATIVE(S)/ ATTORNEY(S)** of the **BANK**

Name(s) and Designation of duly authorised representative(s)/ attorney(s) of the Bank

Signature(s) of the duly authorised person(s)

NOTES TO TENDERERS AND BANKS

1. *Please note that no material additions, deletions or alterations regarding the contents of this Form shall be made to the Tender Security to be furnished by the Tenderer. If any are made, the Tender Security shall not be accepted and shall be rejected by KPLC. For the avoidance of doubt, such rejection will be treated as non-submission of the Tender Security where such Security is required in the tender.*
2. *It is the responsibility of the Tenderer to sensitize its issuing bank on the need to respond directly and expeditiously to queries from KPLC. The period for response shall not exceed three (3) days from the date of KPLC's query. Should there be no conclusive*

response by the Bank within this period, such Tenderer's Tender Security shall be deemed as invalid and the bid rejected.

- 3. *The issuing bank should address its response or communication regarding the bond to KPLC at the following e-mail address – “guarantees@kplc.co.ke”***
4. *The Tender validity period is One Hundred & Eighty (180) days as set out in the Invitation to Tender (at Section I of the Tender document) or as otherwise may be extended by KPLC. Therefore, the Tender Security must at all times be valid for at least 30 days beyond the tender validity period.*

SECTION XI B - TENDER SECURITY FORM (SACCO SOCIETY, DEPOSIT TAKING MICRO FINANCE INSTITUTIONS, WOMEN ENTERPRISE FUND & YOUTH ENTERPRISE FUND)

(To Be Submitted On Institutions Letterhead)

Date:

To:

The Kenya Power & Lighting Company Limited,
Stima Plaza,
Kolobot Road, Parklands,
P.O Box 30099 – 00100,
Nairobi, Kenya.

WHEREAS.....(hereinafter called “the Contractor”) has undertaken, in pursuance of your Tender Number.....(*reference number of the Tender*) and its Tender dated(*insert Contractor’s date of Tender taken from the Tender Form*) to supply(*description of the Works*) (hereinafter called “the Contract);

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with an Institution’s guarantee by an acceptable Institution for the sum specified therein as security for compliance of the Contractor’s performance obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor a Guarantee;

THEREFORE WE HEREBY AFFIRM that we are Guarantors and responsible to you, on behalf of the Contractor, up to a total of..... (*amount of the guarantee in words and figures*) and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract and without cavil or argument, any sum or sums within the limits of (*amount of guarantee*) as aforesaid, without you needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until theday of.....20....

EITHER

SEALED with the)
COMMON SEAL)

of the said **INSTITUTION**)

)

thisday)

)

INSTITUTION SEAL

of20....)

in the presence of :-)

)

_____)

)

and in the presence of:-)

)

_____)

OR

SIGNED by the **DULY AUTHORISED REPRESENTATIVE(S)/ ATTORNEY(S)** of the **INSTITUTION**

Name(s) and Designation of duly authorised representative(s)/ attorney(s) of the **Institution**.

Signature(s) of the duly authorised person(s)

NOTES TO SUPPLIERS AND INSTITUTIONS

1. *Please note that no material additions, deletions or alterations regarding the contents of this Form shall be made to the Tender Security to be furnished by the Tenderer. If any are made, the Tender Security shall not be accepted and shall be rejected by KPLC. For the avoidance of doubt, such rejection will be treated as non-submission of the Tender Security where such Security is required in the tender.*
2. *It is the responsibility of the Tenderer to sensitize its issuing institution on the need to respond directly and expeditiously to queries from KPLC. The period for response shall*

not exceed three (3) days from the date of KPLC's query. Should there be no conclusive response by the institution within this period, such Tenderer's Tender Security shall be deemed as invalid and the bid rejected.

- 3. *The issuing institution should address its response or communication regarding the Tender Security to KPLC at the following e-mail address – “guarantees@kplc.co.ke”***
- 4. *The Tender validity period is One Hundred & Eighty (180) days as set out in the Invitation to Tender (at Section I of the Tender document) or as otherwise may be extended by KPLC. Therefore, the Tender Security must at all times be valid for at least 30 days beyond the tender validity period.***

SECTION XI C - TENDER SECURITY – (LETTERS OF CREDIT)

The Mandatory Conditions to be included in the Letters are in two parts, A and B.

Part A

Form of Documentary credit - “Irrevocable Standby”

Applicable rules - “Must be UCP Latest Version” i.e. UCP 600 (2007 REVISION) ICC Publication No. 600.

Place of expiry - At the counters of the advising bank.

The SBLC should be available – “By Payment”

Drafts should be payable at - “SIGHT”

Documents required -

1. Beneficiary’s signed and dated statement demanding for payment under the letter of credit no..... *(Insert LC No.)* as.....*(Name of applicant)* (hereinafter called the “Tenderer”) indicating that the “Tenderer” has defaulted in the obligations of the Tenderer as stated by the Beneficiary.
2. The Original Letter of Credit and all amendments, if any.

Additional Conditions -

1. All charges levied by any bank that is party to this documentary credit are for the account of the applicant.
2. There should be no conditions requiring compliance with the specific regulations or a particular country’s Law and regulations.

Charges - All bank charges are for the account of the applicant.

*Confirmation instructions – (See notes below)

Part B

The proceeds of these Letters are payable to KPLC -

- a) if the Tenderer withdraws its Tender after the deadline for submitting Tenders but before the expiry of the period during which the Tenders must remain valid.
- b) if the Tenderer fails to enter into a written contract in accordance with the Tender Document

- c) if the successful Tenderer fails to furnish the performance security in accordance with the Tender Document.
- d) if the Tenderer fails to extend the validity of the tender security where KPLC has extended the tender validity period in accordance with the Tender Document.

NOTES TO TENDERERS AND BANKS.

1. *Please note that should the Tender Security (LC) omit any of the above conditions the LC shall not be accepted and shall be rejected by KPLC. For the avoidance of doubt, such rejection will be treated as non-submission of the LC where such LC is required in the Tender.*
2. *It is the responsibility of the Tenderer to sensitize its issuing bank on the need to respond directly and expeditiously to any queries from KPLC. The period for response shall not three (3) days from the date of KPLC's query. Should there be no conclusive response by the Bank within this period, such Tenderer's Tender Security shall be deemed as invalid and the bid rejected.*
3. ***The issuing bank should address its response or communication regarding the bond to KPLC at the following e-mail address – “guarantees@kplc.co.ke”***
4. *The Tender validity period is One Hundred & Eighty (180) days as set out in the Invitation to Tender (at Section I of the Tender document) or as otherwise may be extended by KPLC. Therefore, the Tender Security must at all times be valid for at least 30 days beyond the tender validity period.*
5. *All Guarantees issued by foreign banks must be confirmed by a local bank in Kenya.*

SECTION XII - MANUFACTURER’S/ PRINCIPAL’S AUTHORIZATION FORM

(To Be Submitted On Manufacturer’s/ Principal’s/ Producer’s Letterhead)

To:

The Kenya Power & Lighting Company Limited,
Stima Plaza,
Kolobot Road, Parklands,
P.O Box 30099 – 00100,
Nairobi, Kenya.

WHEREAS WE(*name of the manufacturer/ principal*) who are established and reputable manufacturers/ principal of
(*name and description of the services*) having offices or factories at (*full address and physical location of offices or factory(ies)*) do hereby confirm that
(*name and address of Contractor*) is authorized by us to transact in the services required against your Tender (*insert reference number and name of the Tender*) in respect of the above services.

WE HEREBY extend our full guarantee and warranty as per the Conditions of Contract for the services offered for provision by the above firm against the Invitation to Tender.

DATED THIS..... DAY OF.....20.....

Signature of duly authorised person for and on behalf of the Manufacturer/ Principal.

Name and Designation of duly authorised person signing on behalf of the Manufacturer/ Principal.

NOTES TO TENDERERS & MANUFACTURERS/ PRINCIPALS/ PRODUCERS

Only a competent person in the service of the Manufacturer/ Principal should sign this letter of authority.

SECTION XIII - DECLARATION FORM

Date _____

To:

The Kenya Power & Lighting Company Limited,
P.O Box 30099 – 00100,
Stima Plaza, Kolobot Road, Parklands,
Nairobi,
KENYA.

Ladies and Gentlemen,

The Tenderer i.e. (full name and complete physical and postal address) _____
_____ declare the following: -

- a) That I/ We have not been debarred from participating in public procurement by anybody, institution or person.
- b) That I/ We have not been involved in and will not be involved in corrupt and fraudulent practices regarding public procurement anywhere.
- c) That I/We or any director of the firm or company is not a person within the meaning of paragraph 3.2 of ITT (Eligible Tenderers) of the Instruction to Tenderers.
- d) That I/ We are not insolvent, in receivership, bankrupt or in the process of being wound up and is not the subject of legal proceedings relating to the foregoing.
- e) That I/We do hereby confirm that all the information given in this tender is accurate, factual and true to the best of our knowledge.
- f) That I/ We are not associated with any other Tenderer participating in this tender.

Yours sincerely,

Name of Tenderer

Signature of duly authorised person signing the Tender

Name and Designation of duly authorised person signing the Tender

Stamp or Seal of Tenderer

SECTION XIV – DRAFT LETTER OF NOTIFICATION OF AWARD

To:

(Name and full address of the Successful Tenderer).....

Dear Sirs/ Madams,

RE: NOTIFICATION OF AWARD OF TENDER NO.

We refer to your Tender dated..... and are pleased to inform you that following evaluation, your Tender has been accepted as follows: -

.....
.....

This notification does not constitute a contract. The formal Contract Agreement, which is enclosed herewith shall be entered into upon expiry of fourteen (14) days from the date hereof pursuant to the provisions of the Public Procurement and Asset Disposal Act, 2015 *(or as may be amended from time to time or replaced)*.

Kindly sign, and seal the Contract Agreement. Further, initial and stamp on all pages of the documents forming the Contract that are forwarded to you with this letter. Thereafter return the signed and sealed Contract together with the documents to us within fourteen (14) days of the date hereof for our further action.

We take this opportunity to remind you to again note and strictly comply with the provisions as regards the Tender Security, Signing of Contract and Performance Security as stated in the Instructions to Tenderers.

We look forward to a cordial and mutually beneficial business relationship.

Yours faithfully,

FOR: THE KENYA POWER & LIGHTING COMPANY LIMITED

GENERAL MANAGER, SUPPLY CHAIN

Enclosures

SECTION XV – DRAFT LETTER OF NOTIFICATION OF REGRET

To: *(Name and full address of the Unsuccessful Tenderer)*..... **Date:**

Dear Sirs/ Madams,

RE: NOTIFICATION OF REGRET IN RESPECT OF TENDER NO.

We refer to your Tender dated..... and regret to inform you that following evaluation, your Tender is unsuccessful. It is therefore not accepted. The brief reasons are as follows:-

1.
2.
3. etc...

The successful bidder was _____.

However, this notification does not reduce the validity period of your Tender Security. In this regard, we request you to relook at the provisions regarding the Tender Security, Signing of Contract and Performance Security as stated in the Instructions to Tenderers.

You may collect the tender security from our *Legal Department (Guarantees Section), on the 2nd Floor, Stima Plaza, Kolobot Road, Parklands, Nairobi* only after expiry of twenty five (25) days from the date hereof on Mondays and Wednesdays ONLY between 9.00 a.m to 12.30 pm and 2.00p.m to 4.00p.m.

It is expected that by that time KPLC and the successful bidder will have entered into a contract pursuant to the Public Procurement and Asset Disposal Act, 2015 *(or as may be amended from time to time or replaced)*. When collecting the Security, you will be required to produce the original or certified copy of this letter.

We thank you for the interest shown in participating in this tender and wish you well in all your future endeavours.

Yours faithfully,

FOR: THE KENYA POWER & LIGHTING COMPANY LIMITED

GENERAL MANAGER, SUPPLY CHAIN

SECTION XVI - CONTRACT AGREEMENT FORM

THIS AGREEMENT made this.....day of.....**20.... BETWEEN THE KENYA POWER & LIGHTING COMPANY LIMITED**, a limited liability company duly incorporated under the Companies Act, Chapter 486 of the Laws of Kenya, with its registered office situated at Stima Plaza, Kolobot Road, Parklands, Nairobi in the Republic of Kenya and of Post Office Box Number 30099-00100, Nairobi in the Republic aforesaid (*hereinafter referred to as the "KPLC"*) of the one part,

AND

..... (*Contractor's full name and principal place of business*) a duly registered entity according to the laws of..... (*state country*) and of Post Office Box Number/Physical Address(*full address physical and postal of Contractor*) in the Republic aforesaid, (*hereinafter referred to as the "Contractor"*) of the other part;

WHEREAS KPLC invited tenders for certain services, that is to say for (*KPLC Supply Chain – Procurement Department insert description of services*) under Tender Number..... (*KPLC Supply Chain – Procurement Department insert tender number*)

AND WHEREAS KPLC has accepted the Tender by the Contractor for the services in the sum of(*KPLC Supply Chain – Procurement Department specify the total amount in words which should include any payable taxes, duties and insurance where applicable e.g. Value Added Tax*) (*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 and the Tender Document.
2. Unless the context or express provision otherwise requires: -
 - a) reference to "this Agreement" includes its recitals, any schedules and documents mentioned hereunder and any reference to this Agreement or to any other document includes a reference to the other document as varied supplemented and or replaced in any manner from time to time.
 - b) any reference to any Act shall include any statutory extension, amendment, modification, re-amendment or replacement of such Act and any rule, regulation or order made thereunder.

- c) words importing the masculine gender only, include the feminine gender or (as the case may be) the neutral gender.
 - d) words importing the singular number only include the plural number and vice-versa and where there are two or more persons included in the expression the “*Contractor*” the covenants, agreements obligations expressed to be made or performed by the Contractor shall be deemed to be made or performed by such persons jointly and severally.
 - e) where there are two or more persons included in the expression the “*Contractor*” any act default or omission by the Contractor shall be deemed to be an act default or omission by any one or more of such persons.
3. In consideration of the payment to be made by KPLC to the Contractor as hereinbefore mentioned, the Contractor hereby covenants with KPLC to perform and provide the services and remedy any defects thereon in conformity in all respects with the provisions of the Contract.
 4. KPLC hereby covenants to pay the Contractor in consideration of the proper performance and provision of the services 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.
 5. The following documents shall constitute the Contract between KPLC and the Contractor and each shall be read and construed as an integral part of the Contract: -
 - a) this Contract Agreement
 - b) the Special Conditions of Contract as per the Tender Document
 - c) the General Conditions of Contract as per the Tender Document
 - d) the Price Schedules submitted by the Contractor and agreed upon with KPLC.
 - e) the Details of Service as per KPLC’s Tender Document
 - f) the Schedule of Requirements
 - g) KPLC’s Notification of Award dated.....
 - h) the Tender Form signed by the Contractor
 - i) the Declaration Form signed by the Contractor/ successful Tenderer
 - j) the Warranty
 - h) project implementation schedule
 6. In the event of any ambiguity or conflict between the contract documents listed above, the order of precedence shall be the order in which the contract documents are listed in 5 above except where otherwise mutually agreed in writing.

7. The Commencement Date shall be the working day immediately following the fulfillment of all the following: -
- a) Execution of this Contract Agreement by KPLC and the Contractor.
 - b) Issuance of the Performance Bond by the Contractor and confirmation of its authenticity by KPLC.
 - c) Issuance of the Official Order by KPLC to the Contractor.
 - d) Where applicable, Opening of the Letter of Credit by KPLC.
8. The period of contract validity shall begin from the Commencement date and end on either -
- a) sixty (60) days after the last date of the agreed performance schedule, or,
 - b) where a Letter of Credit is adopted as a method of payment, sixty (60) days after the expiry date of the Letter of Credit or the expiry date of the last of any such opened Letter of Credit whichever is later.
- Provided that the expiry period of the Warranty shall be as prescribed and further provided that the Warranty shall survive the expiry of the contract.
9. It shall be the responsibility of the Contractor to ensure that its Performance Security is valid at all times during the period of contract validity and further is in the full amount as contracted.
10. Any amendment, change, addition, deletion or variation howsoever to this Contract shall only be valid and effective where expressed in writing and signed by both parties.
11. No failure or delay to exercise any power, right or remedy by KPLC shall operate as a waiver of that right, power or remedy and no single or partial exercise of any other right, power or remedy.
12. Notwithstanding proper completion of performance or parts thereof, all the provisions of this Contract shall continue in full force and effect to the extent that any of them remain to be implemented or performed unless otherwise expressly agreed upon by both parties.
13. Any notice required to be given in writing to any Party herein shall be deemed to have been sufficiently served, if where delivered personally, one day after such delivery; notices by electronic mail shall be deemed to be served one day after the date of such

transmission and delivery respectively, notices sent by post shall be deemed served seven (7) days after posting by registered post (*and proof of posting shall be proof of service*), notices sent by courier shall be

deemed served two (2) days after such receipt by the courier service for Local Suppliers and five (5) days for Foreign Suppliers.

14. For the purposes of Notices, the address of KPLC shall be Company Secretary, The Kenya Power & Lighting Company Limited, 7th Floor, Stima Plaza, Kolobot Road, Post Office Box Number 30099-00100, Nairobi, Kenya. The address for the Contractor shall be the Contractor's address as stated by it in the Confidential Business Questionnaire provided in the Tender Document.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Kenya the day and year first above written.

SIGNED for and on behalf
of **KPLC**

MANAGING DIRECTOR & CEO

and in the presence of:-

COMPANY SECRETARY

SEALED with the **COMMON SEAL**
of the **CONTRACTOR**
in the presence of:-

DIRECTOR

Affix Contractor's Seal here

DIRECTOR'S FULL NAMES

and in the presence of:-

DIRECTOR/ COMPANY SECRETARY

DIRECTOR/ COMPANY SECRETARY'S FULL NAMES

DRAWN BY: -

Jude Ochieng,

Advocate,

C/o The Kenya Power & Lighting Company Limited,

7th Floor, Stima Plaza,

Kolobot Road, Parklands,

Post Office Box Number 30099-00100,

NAIROBI, KENYA,

Telephones: + 254-20-3201000/ 731

SECTION XVII A - PERFORMANCE SECURITY FORM (BANK GUARANTEE)

(To Be Submitted On Bank’s Letterhead)

Date:

To:

The Kenya Power & Lighting Company Limited,
Stima Plaza,
Kolobot Road, Parklands,
P.O Box 30099 – 00100,
Nairobi, Kenya.

WHEREAS.....(hereinafter called “the Supplier”) has undertaken, in pursuance of your Tender Number.....(*reference number of the Tender*) and its Tender dated(*insert Supplier’s date of Tender taken from the Tender Form*) to supply(*description of the goods*) (hereinafter called “the Contract);

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a bank guarantee by an acceptable bank for the sum specified therein as security for compliance of the Supplier’s performance obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Supplier a guarantee;

THEREFORE WE HEREBY AFFIRM that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total sum of..... (*amount of the guarantee in words and figures*) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of
(*amount of guarantee*) as aforesaid, without you needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until theday of.....20....

EITHER

SEALED with the)
COMMON SEAL)
of the said **BANK**)

)

thisday) _____

) BANK SEAL

of20....)

in the presence of :-)

)

_____)

)

and in the presence of:-)

)

_____)

OR

SIGNED by the **DULY AUTHORISED REPRESENTATIVE(S)/ ATTORNEY(S)** of the **BANK**

Name(s) and Designation of duly authorised representative(s)/ attorney(s) of the Bank

Signature(s) of the duly authorised person(s)

NOTES TO SUPPLIERS AND BANKS

1. *Please note that no material additions, deletions or alterations regarding the contents of this Form shall be made to the Performance Security Bond (the Bond) to be furnished by the successful Tenderer/ Supplier. If any are made, the Bond may not be accepted and shall be rejected by KPLC. For the avoidance of doubt, such rejection will be treated as non-submission of the Bond where such Bond is required in the tender and Contract.*

2. *KPLC shall seek authentication of the Performance Security from the issuing bank. It is the responsibility of the Supplier to sensitize its issuing bank on the need to respond directly and expeditiously to queries from KPLC. The period for response shall not exceed five (5) days from the date of KPLC’s query. Should there be no conclusive*

response by the Bank within this period, such Supplier's Performance Security may be deemed as invalid and the Contract nullified.

3. ***The issuing Bank should address its response or communication regarding the bond to KPLC at the following e-mail address – “guarantees@kplc.co.ke”***

SECTION XVII B - PERFORMANCE SECURITY (LC)

Mandatory Conditions that should appear on the Performance Security (LC).

Form of Documentary credit - “Irrevocable Standby”

Applicable rules - “Must be UCP Latest Version” i.e. UCP 600 (2007 REVISION) ICC Publication No. 600.

Place of expiry - At the counters of the advising bank.

The SBLC should be available – “By Payment”

Drafts should be payable at - “SIGHT”

Documents required -

1. Beneficiary's signed and dated statement demanding for payment under the letter of credit no..... *(Insert LC No.)* as.....*(Name of Applicant)* (hereinafter called the “Supplier”) indicating that the “Supplier” has defaulted in the performance and adherence to and performance of the contract between the Beneficiary and the Supplier.
2. The Original Letter of Credit and all amendments, if any.

Additional Conditions -

1. All charges levied by any bank that is party to this documentary credit are for the account of the Applicant.
2. (Include) that there should be no conditions requiring compliance with the specific regulations or a particular country's laws and regulations.

Charges - All bank charges are for the account of the Applicant.

Confirmation instructions – (See notes below)

NOTES TO SUPPLIERS AND BANKS

1. *Please note that should the Performance Security (LC) omit any of the above conditions the LC shall not be accepted and shall be rejected by KPLC. For the avoidance of doubt, such rejection will be treated as non-submission of the LC where such LC is required in the tender and Contract.*
2. *KPLC may seek authentication of the Performance Security (LC) from the issuing bank. It is the responsibility of the Supplier to sensitize its issuing bank on the need to respond directly and expeditiously to queries from KPLC. The period for response shall not exceed three (3) days from the date of KPLC's query. Should there be no conclusive response by the Bank within this period, such Supplier's Performance Security (LC) may be deemed as invalid and the Contract nullified.*
3. *The issuing bank should address its response or communication regarding the bond to KPLC at the following e-mail address – “guarantees@kplc.co.ke”*
4. *All Guarantees issued by foreign banks must be confirmed by a local bank in Kenya.*

SECTION XVIII – SUBCONTRACTORS

(INFORMATION TO BE PROVIDED BY THE TENDERER)

As per the requirements of Clause 7.23 of General Conditions of Contract, following is a list of subcontractors and the portions of the Work to be subcontracted:

No.	Subcontractor	Address	Brief Description of the Works to be Subcontracted	% works subcontracted

SECTION XIX - PREVIOUS EXPERIENCE WITH SIMILAR WORK**(INFORMATION TO BE PROVIDED BY THE TENDERER)**

As required by Section 3.13.3(d) of the Instructions To Tenderers, following is a list of work that the Tenderer has previously performed which is similar to that described in the Request for Proposal:

No.	Description	Customer Name & Contacts	Date of Supply

SECTION XX - SUPPLIER EVALUATION FORM

(This form is for information only and not to be filled in by any bidder. It is for official use by KPLC to evaluate performance of Suppliers during the contract period)

Name of Firm.....Date.....

Category of Product/Service (e.g. Conductors

Period of evaluation.....

1. COST OF SERVICE/PRODUCT	Rating guidelines				Supplier Score	Procurement Score	User Score	Comments	Totals
	Did the vendor assist in or advice on ways of reducing the costs?	YES:4	PARTIALLY:2	NO: 0					10
	How closely did your final costs correspond to your expectation at the beginning of the project/tender?	YES:2	PARTIALLY:1	NO: 0					10.00%
	Did the company stick to the agreed transaction/contract rates?	YES:4	PARTIALLY:2	NO: 0					
									Totals
2.ON TIME DELIVERY OF PRODUCT OR SERVICE									
	Did the vendor perform work in compliance with contract terms and agreements?	YES:6	PARTIALLY:3	NO: 0					10
	Was the vendor prompt and effective in correction of situations and conditions?	YES:2	PARTIALLY:1	NO: 0					10.00%
	Are you able to track service level agreements and determine duration of incidents from the vendor?	YES:2	PARTIALLY:1	NO: 0					
									Totals
3. FLEXIBILITY TO RESPOND TO UNEXPECTED DEMAND OF SERVICE									
	Was the vendor willing to change their product/service on special needs?	YES:6	PARTIALLY:3	NO: 0					6
									6.00%
4. QUALITY									Totals
	When performing their duties, was there - rework or returns caused by non-conformance to quality?	NO:6	PARTIALLY:3	YES: 0					14
	Was the quality of service delivered equal to KPLC minimum requirements?	YES:8	PARTIALLY:4	NO:0					14.00%
									Totals
5.RESPONSIVENESS									
	Was the vendor well responsive to information requests, issues, or problems that arose in the course of service?	YES:2	PARTIALLY:1	NO: 0					14
	Was the vendor open to feedback on low quality of service levels and willing to act on this?	YES:6	PARTIALLY:3	NO: 0					14.00%
	Is it easy to reach staff members of suppliers in case of a request or query? (are communication channels clear?)	YES:6	PARTIALLY:3	NO: 0					
									Totals
6. CUSTOMER SUPPORT									
	Did the vendor offer effective customer support?	YES:10	PARTIALLY:4	NO: 0					18
	In case of reported problems/issues, were there follow ups by the vendor	YES:8	PARTIALLY:4	NO: 0					18.00%

	to ensure the problem is fully resolved during support?								
7. COMMUNICATION SKILLS	Rating guidelines								Totals
	Are you satisfied with the attitude, courtesy, and professionalism of this vendor's staff? Written or spoken?	YES:2	PARTIALLY:1	NO: 0					6
	Are the vendor's staff well equipped and skilled in handling requests / issues? Are you rotated too much among staff on an issue?	YES:4	PARTIALLY:2	NO: 0					6.00%
8. DOCUMENTATION AND ACCOUNTING	Rating guidelines								Totals
	Are you satisfied with how the Vendor presents documentation (invoices & licenses etc) when required to do so, to necessitate finalization of contract renewals and payments?	YES:6	PARTIALLY:3	NO: 0					10
	Was problem documentation (incident reports) presented promptly by the vendor and was it complete?	YES:4	PARTIALLY:2	NO: 0					10.00%
9. VALUE ADD	Rating guidelines								Totals
	Did the vendor go over and above in optimizing service delivery process for effective services delivery?	YES:6	PARTIALLY:3	NO: 0					12
	Did the vendor go over and above and offer training or knowledge to assist with better systems support?	YES:6	PARTIALLY:3	NO: 0					12.00%
									Totals
									Score:
Totals									100.0
Maximum Score									100.00%
VENDOR'S TOTAL SCORE									
VENDOR'S PERCENTAGE SCORE									
ISSUES FOR FOLLOW UP -									
Evaluation Done									
by: Name Department Date									
Checked/Validated									
by									

Score in Percentage %

PERFORMANCE LEVEL DEFINATION;

≥75% - KP1 GREEN

50% - KP2 AMBER

25% - KP3 YELLOW

≥25% - KP4 RED

RATING: 75% - V Good, 50% - Good, 25% - Fair, Below 25% - Poor

RECOMMENDATION

		Status	Tick as appropriate
1	Grant supplier preferred status	KP1	
2	Work with supplier or develop and improve supplier	KP2 & KP3	
3	Abandon / switch suppliers	KP4	

Name:.....Sign:.....Date:.....

Name:.....Sign:.....Date:.....

Name:.....Sign:.....Date:.....

SECTION XI - THE DETAILS OF SERVICES

The Details of Services describe the basic requirements for services. In addition to the information and documentation in the Tender Document regarding the technical aspects of this tender, all Tenderers shall comply with the following -

PART A - GENERAL REQUIREMENTS

1. Technical documentation shall be in English language. The specific services on offer shall be marked clearly for the services they intend to provide.
2. Deviations from the basic requirements, if any, shall be explained in detail in writing with the offer, with supporting data including calculation sheets, detailed drawings and certified test reports. KPLC reserves the right to reject the services if such deviations shall be found critical to the use and operation of the services.
3. The Contractor shall submit a Commentary on the Details of Service as well as Commentary of Compliance to the Details of Service. In submitting the Commentaries the Contractors and or Manufacturers/ Principals should provide cross-references to the documents submitted.
4. The Commentaries shall be in table form, and shall cover in detail, all clauses of the Detail(s).
5. Detailed contact information including title, e-mail, facsimile, telephone or any other form of acceptable communication of the certification or recognition and standards body used shall be provided.
6. Where Certificates and their Reports and are translated into English, all pages of the translations must be signed and stamped by the certifying authority.
7. The Manufacturer's/ Principal's Declaration of Conformity to reference standards and copies of quality management certifications including valid and current ISO certifications shall be submitted for evaluation.
8. In all cases where the level of galvanizing and painting is not specifically stated in the Details, the general requirement shall be for a uniform coating of thickness not less than 80 microns.

9. Contractors are required to provide information on proper representative(s) and or workshop for back-up service and or repair and maintenance including their names, telephone, facsimile, e-mail, physical and postal addresses, along with their offers.

PART B – SPECIFIC DETAILS OF SERVICE (SDS)

MAINTENANCE CONTRACT FOR RADIO SYSTEMS

1.1 Background

The Kenya Power and Lighting Company Ltd owns and operates the power sub-transmission and distribution system in Kenya. The distribution network is divided into five regions namely, Nairobi, Central Rift, Mt. Kenya, West Kenya and Coast regions. VHF Radio communication is used for operations to ensure system operators are safe. Reliable and effective communication also enhances power supply restoration time.

1.2 Objective

The objective is to offer Support and Maintenance services for Kenya Power Astro Radio trunking systems.

1.3 Service Definitions

1.3.1 Infrastructure, 1st Echelon Services - Service such as: Receiving and recording network faults, Identification of problems by utilizing network tools, keeping records of faults, diagnosing and localization of network malfunction network components, correcting and/or modifying system parameters settings, generate statistics and reports, escalating network faults to Field engineers – Service normally provided by local and authorized technical staff.

1.3.2 Infrastructure, 2nd Echelon Services - Service such as: System Level diagnostics, Board Swap & optimization – Service normally provided by local and authorized technical staff.

1.3.3 Infrastructure, 3rd Echelon Services - Service such as: Solving System Level failures, Boards Repairs down to component level, Telephone technical Support, remote access support. Service to be provided by the supplier or at manufacturer’s facility.

1.3.4 Radio/Subscriber, 1st – 2nd Echelon Services - Service such as: Programming of radio parameters and software, verification of housing, replacement of knobs, batteries and antennas, mechanical repair, performance tests or product exchange and replacement of defective accessory items and board level diagnostics – Service normally provided by local and authorized technical staff.

1.3.5 Radio/Subscriber, 3rd – 4th Echelon Services - Service such as: Repairs down to Component level repair of defective, misplaced or dry joint of IC and/or other internal module, computerized alignment to radio and utilizing of special programming software for “Flashing” radios – Service to be provided at supplier’s facility.

1.3.6 FRU - Field Replacement Unit (local spare parts).

GENERAL INFORMATION

2.1 General Requirements

The Contractor shall bear full responsibility that he has understood the operation of the system. No deviations shall be made from this specification and standards unless waived or modified in writing by the Employer. The Contractor shall obtain from its sub-contractor a statement as to compliance with this specification without exception and/or if there are any exceptions, these shall be described in detail and included in the Contractor's Tender. The Contractor shall add a statement that no other exceptions are taken to this specification.

2.2 Codes and Standards

The service delivered shall be in accordance with, but not limited to, the latest issues of the applicable standards in effect at time of signing the contract unless otherwise stated in this specification. The instruments and all equipment used shall be manufactured, calibrated and tested to latest editions of appropriate standards and meet the requirements of the following bodies:

- Federal Communications Commission (FCC)
- European Standards Commission
- International Telecommunications Union (ITU)
- International Electrotechnical Commission (IEC)
- Union Internationale des Chemins de Fer (UIC)
- International Radio Consultative Committee (CCIR)
- Institution of Electrical Engineers of Great Britain (IEE) and any Kenya amendments thereto.
- Communications Authority of Kenya (CAK)
- Kenya Bureau of Standards (KEBS)
- National Environmental Management Authority (NEMA)
- Kenya Power and Lighting Company (KPLC)
- Bye-Laws of the Local Authority(s)
- Other regulations applicable to the installations in Kenya

These codes and standards set forth the minimum requirements which may be exceeded by the Contractor if, in the Contractor's judgement and Employer's acceptance, superior or more economic.

In addition to the applicable standards, the Contractor shall comply with all applicable international, national and local laws, codes, regulations, statutes and ordinances. The Contractor shall comply with the standards applicable in the country of origin for all materials as if the installation was being done in that country.

The materials and services furnished shall comply with and not prevent the Employer's compliance with all applicable standards of the local codes.

In the event of any apparent conflict among standards or these specifications, the Contractor shall refer the conflict to the Employer for written resolution.

2.3 Type Approval

All communication equipment installed in KPLC must be of type approved by the Communications Authority of Kenya (CAK).

1. SYSTEM DESCRIPTION

The radio system for the Kenya Power comprises 3 APCO-25 networks. The APCO-25 repeater sites are connected to the master site switches in Lessos, Nairobi NCC (with a back-up at Kiganjo) and Rabai via Ethernet/E1 link connections using Point to Point radios and utilizing the F/O backbone in some segments. The 3 systems serve West Kenya /North Rift, Nairobi/Central Rift/Mt. Kenya and Coast regions respectively.

The full system components are detailed in Appendix 1.

2.SCOPE OF MAINTENANCE SERVICES

4.1 Remedial Maintenance

1. 24x7 remote technical support:

The Supplier shall provide a central contact point whose objective is to support all of these system issues or faults. This call centre will be approached whenever required.

The Call Center shall operate during normal Working hours 8.00.-17.00. However, high Severity level failures (Severity 1-2) will be supported by on-call engineers, 24 hours a day, 365 days a year.

Every call will be logged and given a unique number to ensure traceability and to maintain a log of activities, including time taken from opening to closure of every request for service, which will be received.

The call details will be assigned to appropriate personnel who will then take initial ownership to rectify the system fault.

2. Emergency on-site intervention:

In the case of “System Down” when failure can’t be fixed locally, nor via remote access, the Supplier will immediately liaise with the manufacturer or technical partner to assist local technical staff to rectify major system faults, which categorized as a Severity 1 failure (no communication).

3. Equipment Repairs:

The Supplier will either repair all repairable boards, modules and radios down to component level regardless of the frequency of failures or the number of failed units.

The boards/modules and radios will be tested and repaired by qualified technical personnel.

4. FRUs (Field Replacement Units):

Supplier shall provide KPLC with a list of critical items to improve the service. The same items will be held by the supplier or KPLC as dedicated spare parts for this contract. The supplier shall replace faulty items at prices agreed in the tender except as stipulated in clauses 5.6 to 5.8 below.

4.2 Preventive Maintenance

1. SW(software) Upgrade

To provide minor software upgrades, known as “patch releases”, which may include commercial Operating Software (“OS”) and application software patches and service pack updates when and if available. This however will not include major software upgrade for the existing MSO.

2. Drive Test and Optimization

In case of coverage issues and related performance de-gradation of the system the supplier engineer will conduct a drive test in the coverage area as part of the periodical visit and will issue a report advising on course of actions required for optimizing the system, for reaching to the highest RF coverage performance.

3. Performance Reports

Using statistical information generated by the customer’s own network, Performance Management Reports for the system shall be collected, data including (but not limited to) zone, site, and radio usage. The data is then summarized and carefully analysed to spot trends, such as consistent busies, to help customers make informed operational decisions based on system performance. This is to be done twice a year.

4. Periodical Health Checks & Preventive Maintenance

Supplier shall have an expert travelling and visit the customer premises once every 6months, 2 times a year. During his working travel the expert will perform a technical check-up of the entire system, assist local distributor in providing preventive maintenance to the system and provide/define remedy actions to the major system faults will be found. At the end of service the expert will generate a detailed report which will summarize all actions taken. The actions taken shall include, but not limited to, the list below;

ACTION	EXPECTED OUTCOME
Cleaning	Perform cabinet and floor cleaning.
Physical inspection	Verify and correct labelling, cable management, wiring connections and grounding.
Power Supply Test	Test and record all supply voltages, test battery autonomy.
Equipment Test	Check and verify all equipment operation

	and clear any alarms.
Radio frequency Test	Measure all signal levels (both transmit and receive) and adjust where necessary.
Antenna Test	Check antenna feeder cable parameters where applicable.
Data Back-ups	Perform back-up from applicable servers and furnish KPLC with the storage media.

5. SUPPLIER'S OBLIGATIONS

- 5.1 Throughout the period of this contract, the Supplier shall provide support, in relation to the hardware and/or software support.
- 5.2 The Supplier shall provide preventive maintenance service, which will consist of carrying two initiated service checks per year to ensure that the equipment's operation conforms to the manufacture's specification. This will include running the manufacture's diagnostic tests designed to test each individual item of equipment and/or other such test which the Contract regard as necessary and/or satisfactory to test the equipment.
- 5.3 The Supplier shall carry out repair services to the equipment as may from time to time be necessary to remedy defects in or breakdowns of the equipment.
- 5.4 The Supplier shall provide all software support and maintenance as well as software upgrades installation, re-installing and/or re-configuring software to the point of program operation and/or data and program backups or restoration as and when necessary.
- 5.5 All equipment sent for repair in the supplier work-shop will be repaired, free of charge, within three working days. If the faulty equipment cannot be repaired within the agreed repair time, the Supplier shall commit himself to supply the company with an Equivalent type of equipment, as a substitution for the defective radio, at no charge, on lending basis. The said equipment is to be returned to the Supplier, in perfect working conditions (save for normal wear and tear that will reasonably arise out of use) once the original equipment has been repaired and returned. The supplier will bear the full cost of labor and shipping (to the factory lab) when required in order to restore the said equipment to a good working condition.
- 5.6 Should the Supplier receive equipment for service in a Total Loss condition (Non economical repair), it will notify the Company as soon as possible giving details of repair costs, and will not be obligated to repair such equipment. Declaring an equipment to be a "TOTAL LOSS" is the decision of the supplier with KPLC concurrence.

- 5.7 The supplier service desk shall issue the Company with a call reference number with which the reported incident shall be tracked until it is resolved to the satisfaction of the company.
- 5.8 The Supplier will respond to a service call placed by the Company and recorded by the Supplier help desk personnel, within the agreed response times.
The Supplier will use its best endeavors to resolve any problem within the minimum time possible.
- 5.9 The supplier shall keep records of service calls including but not limited to the dates and time of reporting of breakdowns and their resolution, signature of a KPLC representative, nature of fault and actions taken for each incidence.
- 5.10 The supplier shall submit detailed reports of the preventive maintenance and repairs conducted three times a year.

6. THE COMPANY'S OBLIGATIONS

To facilitate the provision by the Supplier of maintenance and support services the Company shall:

- 6.1 Keep and operate the systems and peripherals in a proper and prudent manner and ensure that only competent employees are allowed to operate them.
- 6.2 Use the systems and peripherals in a suitable environment and in accordance with manufacturer's instructions and advice of the supplier.
- 6.3 Ensure that all hardware and software are registered by the relevant regulatory authorities as appropriate and equipped with the relevant user manuals, as supplied by the original equipment manufacturers.
- 6.4 Co-operate with the Supplier and do all in its power to assist to restore the equipment back to the working condition.
- 6.5 Make sure that during the contract period, no personnel other than the supplier personnel or KPLC staff shall conduct any repairs and/or installations, and or any other action to the equipment. Any such attempt will lead to the loss of manufacturer warranty and any Supplier responsibility for the said equipment.
- 6.6 Allow the supplier to remotely connect to the system for remote diagnostics, software update and repair. The supplier shall, however, be responsible for setting up, maintaining and operating the link.

7. PERFORMANCE

- 7.1 The supplier guarantees that the system repair cycle time of any fault will not exceed 3 working days in 90% of the cases.
- 7.2 All incidents that require the supplier's visit to the customer premises or equipment repair in the supplier workshop, shall be recorded on the supplier's job card or work ticket and must be signed by the KPLC's authorized personnel. The job card shall give details, and

indicate among other details, actual arrival time, problem diagnosed, resolution provided, departure time and any KPLC representative comments.

7.3 The support and maintenance services shall be provided during working hours and on working days

7.4 The Supplier shall use its best endeavors to respond promptly after a service call for maintenance or support services has been made by the company.

7.5 Fault Categorisation

a. Severity Level One (1)

This is defined as a failure, which denies or severely limits users' access to a 'live' or on-line system.

The following are examples of this kind of failure:

- i. Total inability to access a System
- ii. Common Networking equipment failure that impacts more than 50% of the sites.

The supplier engineer will respond within Four hours (4 hr) of the initial service call for support being received by the supplier.

b. Severity Level Two (2)

This is defined as a failure that results in diminished user access of the system.

The following are examples of this kind of failure:

- i. Failure of a single site
- ii. Failure of any complete sub-system

The supplier will respond within Twelve hours (12hr) of the initial service call for support being received by the supplier.

c. Severity Level Three (3)

This is defined as a request from the KPLC for clarification regarding procedural problems.

Instances that would fall within this category would be, for example:

- i. Failure of dispatcher station
- ii. Common Networking equipment failure that impacts less than 10% of the sites.
- iii. Any failure that affect the repeater site and impact less than 50% of its operation.

The supplier shall within three (3) days of the initial request for support being received by the supplier

d. Severity Level Four (4)

Minor failures or failure of equipment that does not affect the operation of the system, such as:

- i. Failure of redundant components
- ii. Minor alarms in the system

The supplier shall respond within seven (7) days of the initial request for support.

7.6 The Company shall impose Service Credits if the Supplier fails to meet the agreed Service Availability requirements.

7.7 Service Credits shall be deducted from Operation & Maintenance Charges before payment is made to the Supplier.

7.8 Service Credits shall be imposed in the manner shown in the following table.

Service Levels	Resolution time per incident in hours	Service Credit USD per Incident
Severity Level one (1)	36	Nil
	36-48	0.1% of annual Contract sum
	48-	0.5 % of Annual Contract Sum per day
Severity Level Two (2)	72	Nil
	72-96	0.1% of annual Contract Sum
	96-	0.5% of Contract sum per day
Severity Level Three (3)	5 working days	Nil
	5-7 working days	0.1% of total contract sum
	Above 7working days	0.5% of total contract sum per day
Severity Level four (4)	14 days	Nil
	14-18	0.1% of total annual contract sum
	18-	0.5 % of total annual contract sum per day

7.6 Service Credits shall be determined and notified the supplier within 2 days of an incidence occasioning the credits.

APPENDIX I: SYSTEM INVENTORY

INTRODUCTION

The Kenya Power Radio system is operated in three zones around the country and consists of;

- a. 3 Main Switching Centres
- b. 27 Radio trunking repeater sites
- c. 11 Conventional repeater sites
- d. 3 Link repeater sites
- e. 5 Dispatch Centres
- f. 556 radio subscribers (mobile & portable)
- g. 136 Base radios

Within the system sites/centres, there are sub-components which are detailed below. Under a maintenance contract, the sub – components hardware and software are maintained and replaced where necessary (as per conditions of contract).

SWITCHING AND DISPATCH SITES

KIGANJO MSO

The Kiganjo Main Switching Office is located at the Kiganjo 132kV sub-station in Nyeri.

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Network Management Terminals	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with network monitoring & diagnostic software tools	2	
Dispatch System	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with <i>Elite console</i> applications.	1	
	Speakers	2	
	Desk Microphone	1	
	Motorola Voice Processing Module <i>B1933</i>	1	
Switch	Direct Attached Storage Controller <i>Dot Hill 3520</i>	1	
	Master Site Core 48Port LAN Switch <i>HP 3800</i> Part No. CLN1858	2	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	Virtual Management Server Host 01 <i>HP DL 380 Gen 8</i> installed with <i>Air Traffic Router (ATR), BAR, Domain Controller zone level (Zone DC), UserConfigurationServer(UCS/PM), ZoneController(ZC1), ZoneStatistical Server (ZSS)</i>	1	
	Virtual Management Server Host 02 <i>HP DL 380 Gen 8</i> installed with <i>Core Security Management Server (CSMS), Domain Controller system level (DC), Unified Event Manager (UEM), Unified Event Manager (UEM), Unified Network Configurator (UNC), Zone Controller (ZC2), Zone Database Server (ZDS)</i>	1	
	Core Routers <i>Motorola S6000</i>	2	
	Gateway Routers <i>Motorola S6000</i>	2	
	MRV 4000T Terminal Server	1	
	CWR Relay Panel	1	
Connectivity	Multiplexer RAD Megaplex 2104	1	
	Fibre Links	2	To NCC & Nanyuki
	MDS UHF Links to Nyeri Hill	2	

NATIONAL CONTROL CENTRE MSO

The NCC Main Switching Office is located at the National Control Centre building along Komarock Road in Nairobi.

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Network Management Terminals	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with network monitoring & diagnostic software tools	4	
Dispatch System	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with <i>Elite console</i> applications.	1	
	Speakers	2	
	Desk Microphone	1	
	Motorola Voice Processing Module <i>B1933</i>	1	
Switch	Direct Attached Storage Controller <i>Dot Hill 3520</i>	1	
	Master Site Core 48Port LAN Switch <i>HP 3800</i> Part No. CLN1858	2	
	Virtual Management Server Host 01 <i>HP DL 380 Gen 8</i> installed with <i>Air Traffic Router (ATR), BAR, Domain Controller zone level (Zone DC), UserConfigurationServer(UCS/PM), ZoneController(ZC1), ZoneStatistical Server (ZSS)</i>	1	
	Virtual Management Server Host 02 <i>HP DL 380 Gen 8</i> installed with <i>Core Security Management Server (CSMS), Domain Controller system level (DC), Unified Event Manager (UEM), Unified Event Manager (UEM), Unified Network Configurator (UNC), Zone Controller (ZC2), Zone Database Server (ZDS)</i>	1	
	Core Routers <i>Motorola S6000</i>	2	
	Gateway Routers <i>Motorola S6000</i>	2	
	MRV 4000T Terminal Server	1	
	CWR Relay Panel	1	
Connectivity	Site Router <i>Motorola S6000</i>	1	
	<i>RAD Megaplex 4100</i> Multiplexers	2	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	<i>Cambium PTP600</i> microwave radio link	2	
	<i>MDS</i> UHF radio link	2	
	Fibre Optic Links	2	To Kiganjo, Rabai and Lanet
	GGM 8000 gateway	1	

RABAI MSO

The Rabai Main Switching Office is located at the Rabai 132kV sub-station in Coast region.

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Network Management Terminals	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with network monitoring & diagnostic software tools	1	
Dispatch System	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with <i>Elite console</i> applications.	2	
	Speakers	4	
	Desk Microphone	2	
	Motorola Voice Processing Module <i>B1933</i>	2	
Switch	Direct Attached Storage Controller <i>Dot Hill 3520</i>	1	
	Master Site Core 48Port LAN Switch <i>HP 3800</i> Part No. CLN1858	2	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	Virtual Management Server Host <i>HP DL 380 Gen 8</i> installed with <i>Air Traffic Router (ATR), BAR, Domain Controller zone level (Zone DC), User Configuration Server(UCS/PM), Zone Statistical Server (ZSS), Core Security Management Server (CSMS), Domain Controller system level (DC), Unified Event Manager (UEM), Unified Event Manager (UEM), Unified Network Configurator (UNC), Zone Controller (ZC), Zone Database Server (ZDS)</i>	1	
	Core Routers <i>Motorola S6000</i>	2	
	Gateway Routers <i>Motorola S6000</i>	2	
	MRV 4000T Terminal Server	1	
	CWR Relay Panel	1	
Connectivity	Fibre Link (over FOX Network)	1	To NCC
	Motorola PTP 600 microwave links	2	
	RAD Megaplex 4100	1	
	GGM8000 CCGW	1	

LESSOS MSO

The Lessos Main Switching Office is located at the Lessos 132kV sub-station/Control Center in Lessos, North Rift Region.

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Network Management Terminals	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with network monitoring & diagnostic software tools	1	
Dispatch System	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with <i>Elite console</i> applications.	2	
	Speakers	4	
	Desk Microphone	2	
	Motorola Voice Processing Module <i>B1933</i>	2	
Switch	Direct Attached Storage Controller <i>Dot Hill 3520</i>	1	
	Master Site Core 48Port LAN Switch <i>HP 3800</i> Part No. CLN1858	2	
	Virtual Management Server Host <i>HP DL 380 Gen 8</i> installed with <i>Air Traffic Router (ATR)</i> , <i>BAR</i> , <i>Domain Controller zone level (Zone DC)</i> , <i>User Configuration Server(UCS/PM)</i> , <i>Zone Statistical Server (ZSS)</i> , <i>Core Security Management Server (CSMS)</i> , <i>Domain Controller system level (DC)</i> , <i>Unified Event Manager (UEM)</i> , <i>Unified Event Manager (UEM)</i> , <i>Unified Network Configurator (UNC)</i> , <i>Zone Controller (ZC)</i> , <i>Zone Database Server (ZDS)</i>	1	
	Core Routers <i>Motorola S6000</i>	2	
	Gateway Routers <i>Motorola S6000</i>	2	
	MRV 4000T Terminal Server	1	
	CWR Relay Panel	1	
Connectivity	Fibre Link (over FOX Network)	1	To Kisii 132
	Motorola PTP 600 microwave links	2	
	RAD IPMux 200	3	

LANET DISPATCH SITE

The Lanet Dispatch Site is located at the Lanet Control Centre in Nakuru.

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Dispatch System	<i>HP Z420</i> Desktop PCs with <i>Windows 7</i> operating system consisting of CPU, 17" Monitor, keyboard and installed with <i>Elite console</i> applications.	1	
	Speakers	2	
	Desk Microphone	1	
	Motorola Voice Processing Module <i>B1933</i>	1	
Connectivity	Fibre Link (over FOX Network)	1	To NCC
	Motorola PTP 600 microwave links	2	To Londiani & Eburu

RADIO REPEATER SITES**NGONG HILLS REPEATER**

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	
	Conventional Channel Gateway <i>Motorola S2500</i>	1	
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	CLN7672A
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 4	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio	1	For Conventional Channel Link
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	36 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	
Connectivity	Multiplexer RAD Megaplex 4100	1	
	<i>Cambium PTP 600</i> Links	3	To NCC, Kilome & Narok
Power Supplies	Dual <i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	600AH Ni-Cad Battery Bank	2	
	DC-AC 1UDC+ Inverter	1	

NYERI HILL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CGV2269
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	509CGV2284

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	509CGV2278 509CGV2275 509CGV2290
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 4	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	42 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	Multiplexer RAD Megaplex 2104	1	
	MDS UHF Links	2	To Kiganjo.
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

NANYUKI REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CGV2267 509CGV2273 509CGV2271 509CGV2276 509CGV2274
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 4	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	Multiplexer RAD Megaplex 2104	1	
	MDS UHF Link	1	To Oldaiga.
	Fiber Link over FOX System	1	To Kiganjo
Power Supplies	<i>Gammatronic™</i> 1UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

OLDAIGA REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Antenna System	36 metre 4 legged tower	1	
Connectivity	MDS UHF Link	2	To Nyambene & Nanyuki.
Power Supplies	200AH Ni-Cad Battery Bank	1	
	Solar Panel	1	
	Charge Controller	1	

NYAMBENE REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CGV2266 509CGV2282 509CGV2289 509CGV2285 509CGV2272
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 4	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	Multiplexer RAD Megaplex 4100	1	
	MDS UHF Link	2	To Oldaiga & Karue.
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

KARUE REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CGV2270 509CGV2281 509CGV2288 509CGV2286 509CGV2287
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 4	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	Multiplexer <i>RAD Megaplex™ 2104</i>	1	
	MDS UHF Link	1	To Nyambene.
	<i>Cambium PTP 600</i> Microwave Radio	1	To ODS
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

ODS REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CGV2268 509CGV2277 509CGV2279 509CGV2280 509CGV2283
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 4	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	36 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	Multiplexer RAD Megaplex 2104	1	
	MDS UHF Link	1	To NCC
	<i>Cambium PTP 600</i> Microwave Radio	2	To Karue & Mbondoni
Power Supplies	<i>ELTEK</i> PSU	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

MBONDONI REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	CLN 8784A
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	K39Q69HR
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	K38Q76HT
	<i>Motorola GTR 8000™ Radio Repeater Channel 4</i>	1	K38Q76KF
	<i>Motorola GTR 8000™ Radio Repeater Channel 5</i>	1	K38Q76HW K39Q69FS
	Motorola VHF Pre-amplifier	1	
	Base Radio APX 2500	1	Link to Nguni
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	Tuned to Nguni
Connectivity	<i>Cambium PTP 600</i>	1	To ODS
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

KILOME REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CLB1315 509CLB1314 509CLB1313
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	3 Channel VHF Transmit Combiner	1	
	3 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	Multiplexer RAD Megaplex 4100	1	
	<i>Cambium PTP 600</i> Links	4	To Ngong, Oloitokitok, Maparasha & Mbui Nzau
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	600AH Ni-Cad Battery Bank	2	
	DC-AC 1UDC+ Inverter	1	

MAPARASHA REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	
	Conventional Channel Gateway <i>Motorola GGM 8000</i>	1	Namanga Link
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CLB1317 509CLB1316 509CLB1322
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio <i>Motorola APX 2500™</i>	1	For Conventional Channel Link
Antenna System	3 Channel VHF Transmit Combiner	1	
	3 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	To Namanga
Connectivity	<i>Cambium PTP 600</i> Links	1	To Kilome
	NIDU E1 Interface Module	1	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	2	
	DC-AC 1UDC+ Inverter	1	

MBUI NZAU REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	CLN 8784A
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	K51Q04VT
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	K44Q76NG K50Q5SCJ
	Motorola VHF Pre-amplifier	1	
Antenna System	3 Channel VHF Transmit Combiner	1	
	3 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	1	To Kilome
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

OLOITOKITOK REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	CLN 8784A
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	K43Q0RFM
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	K38Q76J1 K38Q76PV
	Motorola VHF Pre-amplifier	1	
Antenna System	3 Channel VHF Transmit Combiner	1	
	3 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	1	To Kilome
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

EBURU REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CLB1318 509CLB1310 509CLB1306
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	3 Channel VHF Transmit Combiner	1	
	3 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i> Links	1	To Lanet
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	2	
	DC-AC 1UDC+ Inverter	1	

LONDIANI REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola PSC 9600</i>	2	
	Site Switch <i>Hewlett-Packard Procurve 2656</i>	1	
	Site Router <i>Motorola S6000</i>	1	
RF	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 1	1	509CLB1324 509CLB1323 509CLB1308 509CLB1312 509CLB1307
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 2	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 3	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 4	1	
	<i>Quantar™ Astro 25™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	3 Channel VHF Transmit Combiner	1	
	3 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i> Links	2	To Lanet & Nyahururu
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	2	
	DC-AC 1UDC+ Inverter	1	

NYAHURURU REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel 1	1	CLN 8784A
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 2	1	K40Q45TC
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 3	1	K40Q45L6
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 4	1	K40Q4T25
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 5	1	K40Q45WZ K40Q4T2X
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	1	To Londiani
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

NAROK REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel 1	1	CLN 8784A
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 2	1	K40Q4SLF K40Q4T35 K40Q4TJM K40Q456Q K40Q6SWJ
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 3	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 4	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	1	To Ngong
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

NGUNI CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel	1	CLN 8784A_ K39Q69CW
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic™</i> UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	

NAMANGA CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel	1	CLN 8784A_ K39Q69B2
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic™</i> UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	DC-AC UDC+ Inverter	1	

KWALE REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 4</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 5</i>	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio APX 2500	1	Link to Ramisi
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	Tuned to Ramisi
Connectivity	<i>Cambium PTP 600</i>	1	To Rabai
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

TARU REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel 1	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 2	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 3	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 4	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	2	To Rabai & Vuria
	NIDU E1 Interface	2	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

VURIA REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel 1	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 2	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 3	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 4	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	1	To Taru
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

SOKOKE REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel 1	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 2	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 3	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 4	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	2	To Chasimba & Magarini
	NIDU E1 Interface	2	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

MAGARINI REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel 1	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 2	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 3	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 4	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 5	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	2	To Sokoke & Witu
	NIDU E1 Interface	2	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

WITU REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 4</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 5</i>	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio APX 2500	2	Link to Lamu & Mnazini
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	70 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	2	Tuned to Lamu & Mnazini
Connectivity	<i>Cambium PTP 600</i>	1	To Magarini
	NIDU E1 Interface	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

RAMISI CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel	1	
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic™</i> UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	

LAMU CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel	1	
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic™</i> UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	

MNAZINI CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel	1	
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic™</i> UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	

CHASIMBA LINK REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Antenna System	56 metre 4 legged tower	1	
Power Supplies	<i>Gammatronic™</i> UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	
Connectivity	Cambium PTP 600	2	To Rabai & Soko

KIPKABUS REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 4</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 5</i>	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio APX 2500	1	Link to Kabarnet
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	Tuned to Kabarnet
Connectivity	<i>Cambium PTP 600</i>	2	To Lessos & Surungai
	RAD IPMux-2L	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

SURUNGAI REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 4</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 5</i>	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio APX 2500	1	Link to Kapenguria
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	36 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	Tuned to Kapenguria
Connectivity	<i>Cambium PTP 600</i>	2	To Kipkabus & Maragoli
	RAD IPMux-2L	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

MARAGOLI REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 4</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 5</i>	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio APX 2500	1	Link to Bondo
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	Tuned to Bondo
Connectivity	<i>Cambium PTP 600</i>	2	To Nyamira & Surungai
	RAD IPMux-2L	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	
	200AH Ni-Cad Battery Bank	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	DC-AC 1UDC+ Inverter	1	

NYAMIRA REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio APX 2500	1	Link to Gembe
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	Tuned to Gembe
Connectivity	<i>Cambium PTP 600</i>	2	To Lessos & Surungai
	RAD IPMux-2L	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

GUCHA REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
	<i>Motorola GGM 8000™ CCGW Gateway</i>	1	
RF	<i>Motorola GTR 8000™ Radio Repeater Channel 1</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 2</i>	1	
	<i>Motorola GTR 8000™ Radio Repeater Channel 3</i>	1	
	Motorola VHF Pre-amplifier	1	
	Base Radio APX 2500	1	Link to Osupuuko
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
	VHF Yagi Antenna	1	Tuned to Osupuuko
Connectivity	<i>Cambium PTP 600</i>	3	To Nyamira, Migori & Kegati
	RAD IPMux-2L	1	
Power Supplies	<i>Gammatronic™ 1UDC+ Modular Rectifier</i>	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC 1UDC+ Inverter	1	

MIGORI REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel 1	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 2	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 3	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	1	To Gucha
	RAD IPMux-2L	1	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	

NANDI HILLS REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Site Control	Site Controller <i>Motorola GCP 8000</i>	2	
	Site Switch <i>Hewlett-Packard 2610</i>	1	
	Site Router <i>Motorola GGM 8000</i>	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel 1	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 2	1	
	<i>Motorola GTR 8000™</i> Radio Repeater Channel 3	1	
	Motorola VHF Pre-amplifier	1	
Antenna System	5 Channel VHF Transmit Combiner	1	
	5 Channel VHF Receive Splitter	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antennas	2	
Connectivity	<i>Cambium PTP 600</i>	1	To Lessos
	RAD IPMux-2L	1	
Power Supplies	<i>Gammatronic™ 1UDC+</i> Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	

KABARNET CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel	1	
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic™ UDC+</i> Modular Rectifier	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	

KAPENGURIA CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel	1	
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic™</i> UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	

BONDO CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000™</i> Radio Repeater Channel	1	
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic™</i> UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
	DC-AC UDC+ Inverter	1	

GEMBE CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000</i> TM Radio Repeater Channel	1	
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic</i> TM UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	

OSUPUUKO CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola GTR 8000</i> TM Radio Repeater Channel	1	
Antenna System	Antenna Duplexer	1	
	56 metre 4 legged tower	1	
	VHF 8dBi Antenna	1	
Power Supplies	<i>Gammatronic</i> TM UDC+ Modular Rectifier	1	
	200AH Ni-Cad Battery Bank	1	
	DC-AC UDC+ Inverter	1	

KEGATI LINK REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
Antenna System	56 metre 4 legged tower	1	
Connectivity	Cambium PTP 600 Microwave Radio link	1	To Gucha
	Fiber Link over FOX system	1	To Lessos

MUA HILLS CONVENTIONAL REPEATER

EQUIPMENT	DESCRIPTION	NUMBER	REMARKS
RF	<i>Motorola Quantar</i> Radio Repeater Channel	1	
Antenna System	36 metre 4 legged tower	1	
	VHF 8dBi Antenna	2	
Power Supplies	24 V DC Power Supply	1	
	200AH Batteries	2	

APPENDIX 2- PROPOSED SERVICE LEVEL AGREEMENT

THIS AGREEMENT made this.....day of.....2019 **BETWEEN THE KENYA POWER & LIGHTING COMPANY LIMITED**, a limited liability company duly incorporated under the Companies Act, Chapter 486 of the Laws of Kenya, with its registered office situated at Stima Plaza, Kolobot Road, Parklands, Nairobi in the Republic of Kenya and of Post Office Box Number 30099-00100, Nairobi in the Republic aforesaid (*hereinafter referred to as the “KPLC”*) of the one part,

AND

....., situated at, Plot No., Road, Kenya a duly registered entity according to the laws of Kenya and of Post Office Box Number, Kenya Republic aforesaid, (*hereinafter referred to as the “Supplier”*) of the other part;

WHEREAS

1. KPLC invited tenders for the services of Provision of Support and Maintenance Services for Astro Radio System for West Kenya and North Rift, Tender Number
2. KPLC has accepted the Tender by the Supplier for the Support Services in the sum of ---- inclusive/exclusive of any taxes (*hereinafter called “the Contract Price”*).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS: -

1.) DEFINITION OF TERMS

- 1.1 Agreement Date means- the date of signing this contract
- 1.2 Cycle time- The time taken between opening and closing a service call
- 1.3 Equipment means- Motorola Astro radio system as detailed in appendix A
- 1.4 FRU - Field Replacement Unit (local spare parts).
- 1.5 Help desk means- the supplier appointed phone number for placing service calls
- 1.6 Response time- the time taken after receiving a service call to the time reaching the company site or remotely connecting to the system
- 1.7 Support & maintenance means- maintenance of the above equipment
- 1.8 Support Engineer means-the Supplier appointed qualified Motorola Engineer
- 1.9 Service call- report of a fault, in any of the system components

- 1.10 Service- means any service provided by the Supplier for the support and Maintenance of the Motorola Astro radio system the parties means- the company and the supplier
- 1.11 Total loss – a case whereby a unit cannot be repaired or the cost of repair is more than 70% of the cost of a new unit of the same nature.
- 1.12 Working days - any day (except Saturday and Sunday or other gazetted public holidays in Kenya) between the hours of 0830 hours and 1730 hours.

2. SUPPORT AND MAINTENANCE SERVICE

- 2.1 The support and maintenance services shall be provided during working hours and on working days
- 2.2 The maintenance services shall consist of repairing faulty equipment, part of this contract (as detailed in Details of Service in the tender document for this contract), carrying out of inspections, preventive, corrective and routine maintenance (which include hardware and software support, maintenance services, and programming), firmware and software upgrades and bug fixes, diagnosis and the repair or replacement of parts made necessary by normal wear and tear .
- 2.3 The Supplier shall use its best endeavors to respond promptly after a service call for maintenance or support services has been made by the company.

2.4 Fault Categorisation

2.4.1 Severity Level One (1)

This is defined as a failure, which denies or severely limits users' access to a 'live' or on-line system.

The following are examples of this kind of failure:

- Total inability to access a System
- Common Networking equipment failure that impacts more than 50% of the sites.

Response Time:

The supplier engineer will respond within Four hours (4 hr) of the initial service call for support being received by the supplier.

2.4.2 Severity Level Two (2)

This is defined as a failure that results in diminished user access of the system.

The following are examples of this kind of failure:

- Failure of a single site

- Failure of any complete sub-system

Response Time:

The supplier will respond within Twelve hours (12hr) of the initial service call for support being received by the supplier.

2.4.3 Severity Level Three (3)

This is defined as a request from the KPLC for clarification regarding procedural problems.

Instances that would fall within this category would be, for example:

Failure of dispatcher station

Common Networking equipment failure that impacts less than 50% of the BTS

Any failure that affect the BTS and impact less than 50% of its operation

Response Time

The supplier’s Engineer will be online with the KPLC representative within three (3) days of the initial request for support being received by the supplier

2.4.4 Severity Level Four (4)

Minor failures or failure of equipment that does not affect the operation of the system, such as:

Failure of redundant components

Minor alarms in the system

Response Time:

The supplier’s Engineer will be online with the KPLC Representative within seven (7) days of the initial request for support.

2.4 Reported incident escalation procedures-

2.5.1 The Company may escalate incidents if they have not been resolved within the stipulated times as follows;

Escalation Level	Escalation Point (Contact)
1 st Level	
2 nd Level	
3 rd Level	

2.5.2 The Company will escalate the reported incident if the resolution times indicated below have been exceeded;

Fault Category	Time in Hours		
	1st Level escalation	2nd Level escalation	3rd Level escalation
Severity Level One (1)	4	8	12
Severity Level Two (2)	12	24	36
Severity Level Three (3)	24	48	72
Severity Level Four (4)	48	72	96

2.5.3 Maintenance of the Company Astro System

Unscheduled Maintenance – Where the Supplier requires to conduct an unscheduled or urgent maintenance activity the Supplier shall issue a Request Notice to the Company one (1) day in advance.

Planned Maintenance - Where the Supplier requires to conduct a planned maintenance activity the Supplier shall issue a Request Notice to the Company ten (10) days in advance.

When undertaking maintenance of any nature the Supplier shall ensure that connectivity is maintained.

2.5.4 Access by Supplier

The Supplier will be required to notify the Company of the need to access the Company facility through the Telecommunications Power System call centre or through KPLC point of contact for this SLA.

Access Type	Notification Time
Routine Maintenance	2 working days
Emergency Access	Immediately

The Supplier will be required to provide the following information;

- i. Time and date when access is required
- ii. Whom to be granted access (Name and National ID. Number)
- iii. Description of works

2.5.5 Incidence Resolution Times

The **Supplier** shall resolve the reported incident as indicated in the table below;

Fault category	Incidence Resolution Time
Severity Level One (1)	24 hours
Severity Level Two (2)	72 hours
Severity Level Three (3)	5days
Severity Level Four (4)	14 days

3. Service Credits

- a. The Company shall impose Service Credits if the Supplier fails to meet the agreed Service Availability requirements.
- b. Service Credits shall be deducted from Operation & Maintenance Charges before payment is made to the Supplier.
- c. Service Credits shall be imposed in the manner shown in the following table.

Service Levels	Resolution time per incident in hours	Service Credit USD per Incident
Severity Level one (1)	36	Nil
	36-48	0.1% of annual Contract sum
	48-	0.5 % of Annual Contract Sum per day
Severity Level Two (2)	72	Nil
	72-96	0.1% of annual Contract Sum
	96-	0.5% of Contract sum per day
Severity Level Three (3)	5 working days	Nil
	5-7 working days	0.1% of total contract sum
	Above 7working days	0.5% of total contract sum per day
Severity Level four (4)	14 days	Nil
	14-18	0.1% of total annual contract sum
	18-	0.5 % of total annual contract sum per day

Service Credits shall be deducted subject to section 6 c above with respect tax.

4. DURATION

4.1 The contract shall continue to be in force for an initial period of two (2) years, and shall be renewable (for successive periods of two (2) years unless terminated by either party, upon issue of written notice of not less than three (3) months

4.2 Either party shall have the right to terminate or suspend its obligations under the contract if the other party defaults in the performance of any obligation under the contract; subject to any default if capable of being remedied continues for over 7 days from written notification by the other party, or the other party becomes insolvent, has a receiver appointed for its business or compulsion or voluntary wind up.

5. COMMENCEMENT

This Agreement shall commence on the date specified at the outset.

6. LAW AND CONSTRUCTION

6.1 This agreement shall be governed by Kenyan Law and the parties consent to the exclusive jurisdiction of the Kenyan Courts in all matters relating to this Agreement.

6.2 The headings of the conditions are for convenience of reference only and shall not affect the interpretation.

IN WITNESS WHEREOF this Agreement has been duly executed by the parties hereto the day and year first hereinabove written.

SEALED with the common seal of the)
THE KENYA POWER & LIGHTING COMPANY LIMITED)
in the presence of:)
)
Managing Director and Chief Executive Officer)
)
Company Secretary)
)

SIGNED for and on behalf of the Supplier)

.....)
In the presence of)
)
Managing Director)
)
Director / Secretary