



# Kenya Power

*The Kenya Power & Lighting Co. Ltd*  
Central Office – P.O. Box 30099 Nairobi, Kenya  
STIMA PLAZA, KOLOBOT ROAD, PARKLANDS, NAIROBI.  
Telephone – 24-20-3201000 – Fax No. 254 – 20 – 3514485

Our Ref: KP1/9A.3/OT/34/19-20  
Your Ref:

Date: 11<sup>th</sup> June 2020

TO:

ALL PROSPECTIVE BIDDERS

Dear Sirs/ Madams

**The following amendments are made to the specified provisions of the Tender document for the Supply of Post-Paid Meter Energy Electronic Single Phase 240v**

**RE: ADDENDUM (NO. 3) TO THE TENDER NO. KP1/9A.3/OT/34/19-20 FOR (SUPPLY OF POST-PAID METER ENERGY ELECTRONIC SINGLE PHASE 240V.)**

**1. RELATIONSHIP WITH THE PRINCIPAL TENDER DOCUMENT.**

Save where expressly amended by the terms of this Addendum, the Principal Tender Document shall continue to be in full force and effect.

The provisions of this Addendum shall be deemed to have been Incorporated in and shall be read as part of the Principal Tender Document.

**2. CLARIFICATIONS**

| No. | Clause / Bidder Query/Comment   | KPLC Response                |
|-----|---|------------------------------|
| 1.  | <p><b>Description:</b><br/>Page 8, Clause No. 4.2.1.6<br/>The meter shall be ultrasonically sealed for life and there shall be no screws on the body except for the termination of cables.</p> <p><b>Question:</b><br/>We are manufacturing the meters with multiple security features such as uni-directional sealing screws, holographic tamper evident seals, polycarbonate seals over and above the ultrasonic welding to doubly ensure that any tamper in the field conditions are evident to the utility. You are requested to kindly allow us to submit samples with sealing screws in addition to ultrasonic welding.</p> | Adhere to the specifications |
| 2.  | <p><b>Description:</b><br/>Page 8, Clause No. 4.2.1.9<br/>The meter terminal holes and screws shall be of moving cage type made of brass or nickel plated brass for high conductivity</p>   | Adhere to the specifications |

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|    | <p>and corrosion resistance. The terminals shall be of suitable rating to carry continuously 125% I<sub>max</sub></p> <p><b>Question:</b><br/>As per our knowledge, the moving cage type terminals are made up of Zinc plated MS sheet which are prone to environmental corrosion over the period of time. If the terminals are required of Brass or Nickle Plated Brass, then you are requested to kindly allow us to supply the fixed terminals of Brass/ Nickle Plated Brass with the current carrying capacity of 125% of I<sub>max</sub>.</p>  |                              |
| 3. | <p><b>Description:</b><br/>Page 8, Clause No. 4.2.1.12<br/>The meter terminal holes shall be of sufficient size to accommodate the cables of at least 10mm diameter and depth of 15mm.</p> <p><b>Question:</b><br/>Kindly clarify the internal diameter of the terminal hole.</p>   | Adhere to the specifications |
| 4. | <p><b>Description:</b><br/>Page 9, Clause No. 4.2.2.4<br/>The meters shall have an optical communication port, compliant to IEC62056-21 for accessing information stored inside the meter through optical probe and shall be fitted with an SCSSCAA9 (MC171) compliant data port for retrieving register data when the meter is not powered on (1 each for optical and SCSSCAA9 ports) shall be provided with the meter sample for evaluation</p> <p><b>Question:</b><br/>The meters have an internal battery for retrieving the data in power off conditions through RJ11 connector provided in the meter in addition of optical communication port, compliant to IEC-62056-21. Thus there is no requirement of SCSSCAA9 (MC171) compliant data port. Please note that the meters can be damaged or tampered by injecting high voltage, high frequency spurious signals to meters through SCSSCAA9 (MC171) data port hence these type of additional ports shall be avoided. Also note that these type of MC171 ports are not used by any utility in the world for postpaid meters.</p> | Adhere to the specifications |
| 5. | <p><b>Description:</b><br/>Page 9, Clause No. 4.2.2.6<br/>The meter LCD shall have at least 7 digits and no decimals.</p> <p><b>Question:</b><br/>The meters are usually made up of LCD 6+1 decimal digits for accuracy billing and this is a worldwide standard to use 6+1 LCD so that no billing loss/ Revenue loss to be borne by utility. Hence you are requested to allow us to put 6+1 digit decimal LCDs in the meters to be supplied.</p>   | Adhere to the specifications |
| 6. | <p><b>Description:</b><br/>Page 10, Clause No. 4.3.1<br/>The meters shall be operated from mains with reference values of 230V, 50 Hz <math>\pm 5\%</math> with operating voltage range from 0.4U<sub>n</sub> to 1.3U<sub>n</sub>.</p>  | Adhere to the specifications |

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|    | <b>Question:</b><br>As per our understanding, the operating value range of meter from 0.6Un to 1.2Un and this is normal practice on international level. Hence, kindly clarify the operating value.   |                              |
| 7. | <b>Description:</b><br>Page 10, Clause No. 4.3.3<br>Table No 1 > Electrical Parameters > Meter Constant = 1000imp/kwh<br><br><b>Question:</b><br>Meter constant can be any value declared by the vendor/supplier  | Adhere to the specifications |
| 8. | <b>Description:</b><br>Page 12, Clause No. 5.2<br>The bidder shall submit copies of type test report for each type of meter offered with the tender technical evaluation. The type test report shall have been issued by a third-party testing laboratory, accredited to ISO/IEC 17025.<br><br><b>Question:</b><br>We have the type test report of similar meters but of lower current ratings, for this rating we have already submitted our samples for type test report and due to covid 19, the testing labs are working with minimum staff thus delay in getting the final test report is expected. Hence you are requested to kindly allow us to submit the type test report at some later date | Adhere to the specifications |

| No. | Clause / Bidder Query/Comment   | KPLC Response   |
|-----|---|---|
| 9.  | <b>Description:</b><br>Referring to the attached Addendum No. 2 dated 14 <sup>th</sup> January 2020 for the same technical specification of post-paid energy meter tender, it specified the technical clarifications as follows:<br>a. Reference KP1/6C/4/1/TSP/14/11-03 Specifications clause 4.3.3 Table1 (Summary of electrical parameters) starting current 0.2%Ib- <b>The starting current is 0.4% Ib</b><br>b. Reference document KP1/6C/4/1/TSP/14/11-03 clause 4.2.1.13 is amended to read meter body dimensions shall not exceed height =170mm, width=130mm and depth=80mm<br>c. Tender specification clause 4.2.1 meter terminal holes should be at least 10mm diameter and depth of 15mm.<br><br><b>Question 2:</b><br>Kindly clarify whether these technical clarifications will also apply to this tender. | Adhere to the specifications                          |
| 10. | <b>Description:</b><br>Appendix to instructions to tenders. 3.15.1 samples: A sample shall be provided where applicable ( See specifications attached)<br><br><b>Question 3:</b><br>The samples are required for this tender, however the time for local bidders to prepare for the samples only has 3 weeks which is too tight for us, we hereby kindly request you could extend the tender closing date from 9 <sup>th</sup> June 2020 to 30 <sup>th</sup> Jun 2020   | Tender closing extended to 30 <sup>th</sup> June 2020 |

| No. | Clause / Bidder Query/Comment  | KPLC Response                |
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| 11. | <p><b>Reference:</b><br/>Kenya Power Specification Page 8 Clause 4.2.1.13 The meter body dimensions shall not exceed : Height =170mm; Width=130mm and Depth =60mm</p> <p><b>Query:</b><br/>Please allow the dimension limit to : Height 200mm; width 130mm; Depth 70mm</p> | Adhere to the specifications |
| 12. | <p><b>Query:</b><br/>How many samples shall we submit?</p>   | Adhere to the specifications |

| No. | Clause / Bidder Query/Comment  | KPLC Response                |
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| 13. | <p><b>Reference:</b><br/>Clause 4.2.1.4: The meters shall conform to the degree of protection of at least IP 54 as per IEC 60529</p> <p><b>Query:</b><br/>IEC 62052-11 which is applicable for meters specifies IP protection as IP51.<br/>IEC 60529 only classifies and rates the degree of protection provided by mechanical casings and electrical enclosures against intrusion, dust, accidental contact, and water.<br/>Our meters will comply to IEC 62052-11 i.e IP 51</p>  | Adhere to the specifications |
| 14. | <p><b>Reference:</b><br/>Clause 4.2.1.9: The meter terminal holes and screws shall be of moving-cage type made of brass or nickel plated brass for high conductivity and corrosion resistance.</p> <p><b>Query:</b><br/>Offered meters have barrel type terminals with two screws for tightening the conductors which have better contact area and are used extensively in all type of connections. Also this type of arrangement has options to use either lugs or thimbles for termination of the conductors or the conductors itself.</p> | Adhere to the specifications |
| 15. | <p><b>Reference:</b><br/>Clause 4.2.1.9: The terminals shall be of suitable rating to carry continuously 125% I<sub>max</sub>.</p> <p><b>Query:</b><br/>125% I<sub>max</sub> (100A, 23kW) is too high a rating for single phase meters. We request utility to go for three phase meters for such high loads so that the load gets divided into three phases. This will also have better relief on the transformer loading and uniformity. We request utility to limit the single phase load to 60A.</p>                                      | Adhere to the specifications |
| 16. | <p><b>Reference:</b><br/>Clause 4.2.1.12:<br/>The meter terminal holes shall be of sufficient size to accommodate the cables of at least 10mm diameter.</p> <p><b>Query:</b><br/>As per CBIP 325 (Indian standard), any load rated between 61 to 120A 9.5mm dia is sufficient. Since IEC doesn't have any standard for terminal hole capacity, request you to accept the same.</p>   | Adhere to the specifications |

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|     | As per previous inputs 10 Sq mm wire is used which is can be easily inserted in 9.5 mm dia terminal.   |                              |
| 17. | <b>Reference:</b><br>Clause 4.2.1.12:<br>The meter body dimensions shall not exceed: Height 170mm; width 130mm; Depth 60mm<br><br><b>Query:</b><br>Dimensions of the offered meters are 150mm x 123mm x 73mm   | Adhere to the specifications |
| 18. | <b>Reference:</b><br>Clause 4.2.2.4: The meters shall have an optical communication port, compliant to IEC62056-21 for accessing information stored inside the meter through optical probe and shall be litted with an SCSSCAAA9 (MC171) compliant data port for retrieving register data when the meter is not powered on (l each for optical and SCSSCAM9 ports) shall be provided with the meter sample for evaluation<br><br><b>Query:</b><br>Offered meters have one optical port for data downloading. For downloading data from damaged meters some other alternate arrangement can be demonstrated/ provided instead of MC171 port...<br>Request utility to accept the same. | Adhere to the specifications |
| 19. | <b>Reference:</b><br>Clause 4.2.2.6: The meter LCD shall have at least 7 digits and no decimals<br><br><b>Query:</b><br>7 Digits can be provided. However the digit at once place is of 5x3 mm size and all other digits are 10 x 5mm.   | Adhere to the specifications |
| 20. | <b>Reference:</b><br>Clause 4.3.3: 1000 imp/kWH<br><br><b>Query:</b><br>Our meters are designed for 3200 imp/kWh and comply with all type tests as per IEC standards. Pulse rate of 1000 imp/kWh can be provided, however the IEC test reports available with us are with pulse rate of 3200 imp /kWh  | Adhere to the specifications |
| 21. | <b>Reference:</b><br>Clause 4.3.3: Lightning Surge Withstand : At least 30kA, 4/10 $\mu$ s<br><br><b>Query:</b><br>For Surge immunity test we can comply to the requirement of IEC 62052-11.   | Adhere to the specifications |
| 22. | <b>Reference:</b><br>Clause 5.6: The meters shall be supplied together with a laptop loaded with software for interrogating the meter data through optical and the SCSSCAAA9 ports.<br><br><b>Query:</b><br>Is this during supply? Only one laptop required or is it lot wise. As per addendum 2 there are 3 lots at different stores...   | Adhere to the specifications |

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| 23. | <p><b>Reference:</b></p> <p>Clause 5.8: The supplier shall replace without charge to KPLC the meters, which upon examination, test or use; fail to meet any of the requirements in the specification</p> <p><b>Query:</b></p> <p>Meters shall have a carry-in warranty as per L&amp;T's warranty policy. All meters declared faulty by KPLC can't be replaced w/o proper verification.</p>   | Adhere to the specifications |
| 24. | <p><b>Reference:</b></p> <p>Clause 8.1.1:<br/>The supplied meters, and associated software/ hardware shall be guaranteed by warranty against any defects, which may develop due to faulty material, calibration, transportation or workmanship for a period of fifty-four (54) months from the date of successful commissioning certificate from KPLC or sixty (60) months from dispatch, whichever is <b>later</b>.</p> <p><b>Query:</b></p> <p>As the tender is only for supply of material "fifty-four (54) months from the date of successful commissioning" is not applicable. If the same cannot be changed it should be : whichever is <b>earlier</b></p> | Adhere to the specifications |
| 25. | <p><b>Reference:</b></p> <p>Clause 8.1.2: All software supplied shall be updated by the supplier at no extra cost while any required changes, e.g. tariff changes, statutory changes, etc. shall be implemented free of cost during the warranty period and beyond.</p> <p><b>Query:</b></p> <p>Software upgrade can be done at no extra charge. However need to make it clear that for the change in tariff, statutory changes etc. Programming needs to be done in the meters installed / in stores by KPCL.</p>   | Adhere to the specifications |
| 26. | <p><b>Reference:</b></p> <p>Clause 8.1.3: The successful bidder/ supplier shall observe performance of their meter on site for a period of at least one year and monitor accuracy of the same independently and submit a performance evaluation report of the same.</p> <p><b>Query:</b></p> <p>Is the monitoring done on a sample basis by the manufacturer?<br/>What is the methodology and frequency of the testing and how is it monitored?<br/>We should oppose this clause</p>   | Adhere to the specifications |
| 27. | <p><b>Reference:</b></p> <p>Clause 8.2.3: Bidders are advised that the Laws of Kenya require that the Kenya Bureau of Standards must approve any new meter being introduced in the country. To this end, Bidders shall furnish the Bureau with 4 (four) samples of each type to be supplied. Bids submitted without the meter type approval from Bureau will NOT be considered non-responsive. However, the winning Bidder must submit this approval before the signing of the supply contract.</p>  | Adhere to the specifications |

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|  | <b>Query:</b><br>Is this approval required before bidding or before supply?<br>There is a ambiguity in the clauses highlighted. |  |
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**3. TENDER SECURITY**

The Tenderer shall furnish, as part of its Tender, a tender security for the amount specified in the Appendix to Instructions to Tenderers. Tender security for this tender shall be in the amount of Ksh 1,000,000/-

**4. TENDER CLOSING**

The tender closing date has been extended from 23rd June 2020  
**to 30th June 2020 at 10.00am.**

All other terms and conditions remain as per the Principal Tender Document (PTD).

Yours faithfully

**FOR: THE KENYA POWER & LIGHTING COMPANY LIMITED**



**DR. JOHN NGENO**  
**GENERAL MANAGER, SUPPLY CHAIN.**

