Kenya Power

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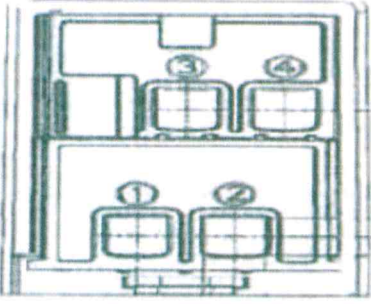**Our Ref: KP1/6E.3/PT/2/18/A65 – A66**   6th June 2018

Dear Sir/ Madam:

CLARIFICATION No. 4 OF BIDDING DOCUMENT FOR IPC NO: KP1/6E.3/PT/2/18/A65 and KP1/6E.3/PT/3/18/A66 PROCUREMENT OF SINGLE PHASE PRE-PAID METERS AND MINIATURE CIRCUIT BREAKERS FOR THE LAST MILE CONNECTIVITY PROJECT ISSUED ON TUESDAY, 24TH APRIL 2018

The following responses are made to clarifications sought on various issues in the Bidding Document for Procurement of single phase pre-paid Meters and Miniature Circuit Breakers for the Last Mile Connectivity Project.

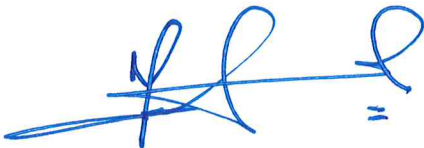| No.	Bidder's Query	Client's Response/Clarification/Answer
1	"There is no RF type for prepaid meter in the KPLC specification. Is KPLC able to accept our split prepaid meter using RF communication?"	Sub Clause 4.2.1.2 is applicable.
2	"The structure of our meter is a bottom-connected type (no DIN rail type as follow. Is it acceptable?"	Appendix I-Single phase-prepaid meter specifications; Subsection-**Foreword** and Sub **clause 4.2.1.4** applicable. Also the meter must meet requirements of Clause 4.2.1.1 of the prepaid meter specifications. "The Measurement and Control Unit (MCU) shall be of DIN rail mounting with locking clip, to fit to a 35 mm DIN rail."

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3	"Regarding clause 4.4.1 C, what is KPLC smart metering management system. Do you mean it is an existing vending system for prepaid meter used in KPLC?"	Sub Clause 4.4.1 C is applicable. KPLC has an existing Pre-paid Meter Vending System supplied by ITRON
4	"APPENDIX II – MINIATURE CIRCUIT BREAKER (MCB) SPECIFICATIONS: 4.2.17 The MCBs shall be equipped with an over current release as well as an overload release. Please clarify "over current release" and "overload release," are they mean "overload break off" and "short circuit break off"?"	Sub-clause 4.2.17 applicable. "Over current release" is similar to operations of the MCB when fault and or short circuit current condition occurs.
5	" APPENDIX II – MINIATURE CIRCUIT BREAKER (MCB) SPECIFICATIONS: 4.2.18 The rated current for the MCB, which it will be able to carry continuously without tripping, shall be one (1) Amp or Seven (7) Amp (or as specified on the schedule of tender requirements). The meter is a directly connect 5-80A meter. Can you please confirm the rated current of MCB is only 1-7 Amp?"	Refer to Amendment No.1 item (b) issued on 30th May 2018. It states; Clause 4.2.18 has been amended from "The rated current for the MCB, which it will be able to carry continuously without tripping, shall be one (1) Amp or Seven (7) Amp (or as specified on the schedule of tender requirements)." to "The rated current for the MCB, which it will be able to carry continuously without tripping, shall be sixty three (63) Amps
6	"APPENDIX II – MINIATURE CIRCUIT BREAKER (MCB) SPECIFICATIONS: 4.2.21 The unit shall have an inbuilt Inrush delay to allow for motor/compressor start up and hence prevent false trips. Please kindly explain what this mean."	Clause 4.2.21 is applicable.
7	" APPENDIX II – MINIATURE CIRCUIT BREAKER (MCB) SPECIFICATIONS: 4.2.23 The power frequency withstand voltage of the MCB shall be 3kV rms. According to IEC standard, the normal power frequency withstand voltage is 2kV. 2kV can be accepted? And the unit should be kV but not kV rms. "	The MCB must meet requirements of Clause 4.2.23 of the MCB specifications and the units are as in the specifications (3kV rms).

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8	" APPENDIX II – MINIATURE CIRCUIT BREAKER (MCB) SPECIFICATIONS: 4.2.25 The connection terminals shall be screw terminals with washer or clamping plate or anti-spread device and shall be large enough to accommodate power supply cables up to 2.5mm² Please kindly confirm is it 2.5mm² or 25mm² "	Clause 4.2.25 is hereby amended to "The connection terminals shall be screw terminals with washer or clamping plate or anti-spread device and shall be large enough to accommodate power supply cables up to 10mm²"
9	" APPENDIX II – MINIATURE CIRCUIT BREAKER (MCB) SPECIFICATIONS: 4.2.35 The MCB shall have one protected pole. Please kindly explain what that means."	Refer to Amendment No.1 item (c) issued on 30th May 2018. It states; Clause 4.2.35 has been amended from "The MCB shall have one protected pole" to "The MCB shall have both "Live" and "Neutral" poles protected, and both shall operate simultaneously"
10	" APPENDIX II – MINIATURE CIRCUIT BREAKER (MCB) SPECIFICATIONS: 6.1 The following information shall be marked indelibly and legibly on the MCB: All markings shall be by engraving. We print the markings but not engraving. Is it acceptable?"	Refer to the response of Clarification No. 3 item number 6 issued on 29th May 2018.
11	"Section VII. Schedule of Requirements: Regarding the meter OFDM G3 PLC Module. To ensure genuine OFDM G3 Module but not cheap FSK PLC, please clarify how KPLC will test during sample testing, mass production and FAT? We know one way is using spectrum analyzer."	All tests and inspections shall be done as stated in Section VIII-GCC Sub-clauses 26.1 to 26.8 and must also meet the desired electrical requirements as per Sub-clause 4.3.5, Sub-Clause 5.1 and all functional requirements in the bid document.
12	"2. Qualification – 4.2(A)(ii) Supply Capacity: The Bidder shall meet the available bid capacity which will be calculated as under: Available Bid capacity = (A*N*3 - B) where A = Maximum annual quantity supplied in any one of past five years (2013, 2014, 2015, 2016 and 2017) N = Number of years prescribed for completion of the supply for which bids are invited (1.5 Years (18 months) in this bidding) B = Balance Quantity to be supplied as on bid submission date for any ongoing orders. Please specify how we can count the "N", is it fixed 1.5 years? If not, which numbers should we put? And please also kindly tell us what is the logic for this formula, why A*N times 3?"	N is the contract delivery period and in this case the goods shall be delivered within 18 Months from the date of contract signature which is equal to 1.5 years. N is therefore FIXED This formula is intended to evaluate the bidders supply capacity by checking the maximum quantity that a bidder has ever supplied previously in any one given year and based on that, the supplied quantity is then multiplied by the expected contract period which 1.5 years in our case; (*For example, if you were able to supply 100 pieces in one*

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		given year then it means the quantities you could have supplied in 1.5 years will be 100*1.5) Its further assumed considering the bidders growth in business that they may have additional capacity to supply 3times the quantity they could have supplied within a period equivalent to the expected contract delivery period (In the example above this quantity could be 100*1.5*3). The Balance Quantity to be supplied as on bid submission date for any ongoing orders is then subtracted from this quantity because the bidder has commitment to supply these quantities already. Hence the formula ; *Available Bid capacity = (A*N*3 - B)*
13	"Thank you for your email with amendment. Can you also provide me the detail of bank guarantee letter or bid security letter? Which bank are acceptable to issue such letter? Are letters issued by bank in China accepted?"	Refer to Section IV, Bidding forms and Section I, Instruction To Bidders clause 19.3 of the Bidding Document respectively.

Yours faithfully,
For: KENYA POWER & LIGHTING COMPANY LIMITED.

JOHN NJEHIA
CONTRACT PROJECT MANAGER – AFD/EU/EIB