



Government of Liberia
MILLENNIUM CHALLENGE ACCOUNT LIBERIA

RESPONSES TO REQUEST FOR CLARIFICATION

**Supply and Delivery of Three Phase 4 Wire LV
CT Connected Smart Prepayment/Switch Meter Enclosure fitted with a
Smart MCCB (Molded Case Circuit Breaker) for Liberia Electricity
Corporation (LEC)**

Ref. No. 4A30/PSD/004

Following the issuance of the Request for Quotation (RFQ) document for the **Supply and Delivery of Three Phase 4 Wire LV CT Connected Smart Prepayment/Switch Meter Enclosure fitted with a Smart MCCB (Molded Case Circuit Breaker) for Liberia Electricity Corporation (LEC)** on December 18, 2019, Suppliers were provided the opportunity to request clarifications related to the RFQ document in writing.

The requests for clarifications received from Suppliers and responses are indicated below:

QUESTIONS & ANSWERS

#	Suppliers' Queries	MCA-Liberia's Response
1	P6/85 Item 6.10 power supply variation: 6.10.1 Voltage: -70% to +20%. -70% of the rated voltage largely exceeds the normal demands of the operation, and will increase the unnecessary cost of the meter, in normal practice -40% is enough, please kindly confirm this parameter.	As pointed out in this query, the voltage variation of -40% to +20% is acceptable to LEC. Refer Addendum #1.
2	P7/85 item 7. General mechanical requirements 7.6: The meter cover should be fully transparent made of transparent material for If it will be acceptable to use partial transparent meter cover on display are which insure easily reading of the listed information like displayed values, nameplates details and observation of wires connection of the terminal.	The meter cover is acceptable to be partially transparent for visible display of the meter terminal block and display parameters of the meter.

#	Suppliers' Queries	MCA-Liberia's Response
3	<p>P7/85 item 7. General mechanical requirements 7.7 and 7.8: The dimension of the meter and the window.</p> <p>Do we must strictly follow the 277mm*175mm*89mm, and 90mm*120mm. Or all similar dimension will be OK. Very strictly specific dimension demand will stop lots of provider.</p>	<p>A small variation of, + 5% of the Specification dimension's is acceptable.</p> <p>Refer Addendum #1.</p>
4	<p>P18/85 item 27. Anti-tamper and fraud protection. 27.5 the meter must be capable of recording & displaying tamper information along with the date and time...for the following: High Neutral Current (CT bypass)</p> <p>Does this mean the meter has CTs to measure the neutral current? And the meter panel for CT operated meter should have 4 CTs inside?</p>	<p>The Neutral does not have an external CT and thus space for the additional CT is not required within the cabinet. However High Neutral Current event should be recorded within the meter as a (CT bypass)</p>
5	<p>P23/85 item 31 Software. Note: The server-client (AMI) application needs to be purchased as well as the meter reading software, these items are very important.</p> <p>Does this mean we need to provide the AMI software?</p>	<p>For this particular Bid, the AMI is not included but the meters provided should be AMI ready and compliant, with a GPRS modem installed in the meter.</p> <p>Refer Addendum #1.</p>
6	<p>You only require 70 meters; and can be increased up to a maximum of 40%. Is the total quantity required only 70 meters? Kindly advise ASAP.</p>	<p>Yes, to date the total quantity required is only 70.</p>
7	<p>Meter accuracy required: Class 0.2 or 0.5s?</p>	<p>The preferred accuracy is 0.2</p>
8	<p>Does the meter dimension have to be exactly the same as mentioned in the RFQ or can be varied to suit our partner's manufacturing specification?</p>	<p>Refer to the response at point 3 above.</p>
9	<p>01 RFQ-LV CT smart meters for LEC - General P5 5. Accuracy P6 6.7 Whole Current Ratings</p> <p>In Annex 2, you need 20 whole current smart meters, but we just find technical specifications of whole current smart meter in P5 5. Accuracy P6 6.7 Whole Current Ratings</p> <p>Could you please provide more technical specifications of whole current smart meters?</p>	<p>Except for the part of the specifications that relates to CT meters, every other Specification should apply to the Whole Current Meters</p> <p>Accuracy 0.2s Whole Current Ratings 100(20)A</p>

#	Suppliers' Queries	MCA-Liberia's Response
	<p>01 RFQ-LV CT smart meters for LEC - General P5 5. Accuracy "class 0.2s/0.5s for active energy (CT Connection)"</p> <p>Please confirm you need class 0.2s or you need 0.5s for active energy (CT Connection)</p>	<p>The preferred accuracy is 0.2</p>
10	<p>01 RFQ-LV CT smart meters for LEC - General P7 6.12 Starting Current "The meter shall start registering the energy at <0.01% of basic current"</p> <p>Our CT meter meets IEC 62053-22, according to this standard, the meter shall start registering the energy at <0.1% of basic current. Please kindly confirm.</p>	<p>The value as per IEC 62052-22 is acceptable.</p>
11	<p>01 RFQ-LV CT smart meters for LEC - General P66 40. Communicating with Hand Held Unit</p> <p>In the document there is no requirement for HHU (Hand Held Unit). Could you please confirm if you already have HHU (Hand Held Unit) for all meters?</p>	<p>Section 40 page 28 of the Specification document refers to HHU requirement, and in this requirement 5 compatible HHUs will be required.</p> <p>Refer Addendum #1.</p>