

The Kenya Power & Lighting Co. Ltd.

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Stima Plaza, Kolobot Road

Our Ref: KP1/6E.3/PT/2/18/A65 - A66

2nd July, 2018

Dear Sir/ Madam:

CLARIFICATION No. 6 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.

Bidder's Query	Client's Response/Clarification/Answer
According to the Amendment No.3, see the picture one, the model is corrected to NDB1-63C63 2P, the rated current of this model is 63A. Picture One: the new specifications. The MCB shall be of tripping characteristics type C and current rating of 63Amps. See the Picture two, from the Amendment No. 3. The rated current and No. of Poles are changed. In this condition, the products model and price will be changed. See the picture three, from the Amendment No1, the No. of poles is 2. So, could you check the rated current and No. of Poles?	The No. of poles shall be as indicated in the new MCB specification (KP1/6C/4/1/TSP/011/002) clause 4.2.1.13, table 1: i.e. 1P+N. The rated current shall be as indicated in the same table, i.e. 63Amps. NB: The old specification for MCB was withdrawn on 14 th June 2018 through amendment no. 3. All past clarifications and amendments on the withdrawn specification became null and void automatically. No reference should be made on the withdrawn specification.
	According to the Amendment No.3, see the picture one, the model is corrected to NDB1-63C63 2P, the rated current of this model is 63A. Picture One: the new specifications. The MCB shall be of tripping characteristics type C and current rating of 63Amps. See the Picture two, from the Amendment No. 3. The rated current and No. of Poles are changed. In this condition, the products model and price will be changed. See the picture three, from the Amendment No1, the No. of poles is 2. So, could you check the

No.	Bi	dder's	Client's Response/Clarification/Answer			
	Picture Two:					
	Parameter Description Rated Voltage Rated current Power frequency withstand Voltage Impulse withstand Voltage No. of poles Tripping Characteristic type Instantaneous Tripping range according to IEC/E/N 60898-1 Rated breaking capacity Energy Limitation Class Mounting Mechanical Endurance Electrical Endurance Conductor Size Degree of protection Picture 3: c) "Clause 4.2.35 has been amend MCB shall have both "Live" simultaneously"	Vait V A kVms kVpk kA cycles cycles mm* IP	4 6 230V (1- 1P+N Type B 3-5x In 6 3 DIN rail (20,000 10,000 Up to 25 55	Type C 5-10x I _n 6 3 DIN EN500	Type D 10-20xI _n In 10 3 552)	
2	We check the documents but there is no summary of technical data sheet of MCBs in tender documents such as attached. Could you please send me the summary of the technical data sheet for MCBs					issued through amendment no. 3

No.		Riddon)	Client's		
140.		Bidder's	Response/Clarification/Answer		
	Kenya Power	ENERGY- Using PLC as Med Communication Between MC	dism of Date of 2017- U and UIL Page 14 of 33	10-12	
	4.3.4 The meters she	all be connectable for 2-wire			
		d on the meter body. Stickers			
	43.5 The meter shall	ll have Reference Standard El			
		of Electrical Parameters			
	Measurement and Electrical Parame	ters			
	Accuracy Rated Nominal Vo	kWh Class 1 (oltage (U _b), 230V, 50Hz ±	IEC 62053-21) 5%		
	Frequency (Hz) Load switching vol	ltage range 0.4 U _n to 1.3 (-3		
	Base Reference cur				
	Max. Voltage circu Max. Current circu		A @230V, 50Hz, 30° € NHz, 30° €		
	Maximum Current Protective class	less (A) 80 A. Class II (doub	le insulated)		
	Accurate metering Starting current				
	Running with no-l	load No more than	one pulse on application of $0.4\mathrm{U}_{\mathrm{r}}$	13 U _s	
	Meter Constant	1000 imp/kwh			
	Disconnection Des Type	Single pole lat	ching contactor, 100 A.		
	Insulation: Over v	voltage and Surge Protection ation Protective Cla			
	Insulation level		rns for I minute		
	Over voltage withs Voltage impulse w		48 hours U50µs (IEC 62052-11) with 212 sou	ree impedance	
	Current impulse wi				
3	We suggest all bio				Submission of Meter and MCB
	be able to evaluat the same time, to awarder bidder.				submission stage. However, the successful bidder shall submit Meter Samples as required under Technical Specifications for Single Phase Split Prepayment Meters (KP1-6C-4-1-TSP-14-011-02) for testing and approval before manufacture (reference to ITB 11.1 (k)).
4	Clarification No.3	the respon	se of Question	Clause 16	See answer to question no 1 above.
'	KPLC saying the				1
	AFD-EU-EIB - M				
	the MCB shall be				
	Parameter	Unit	Value		
	Description				
	No. of poles		230V(1-Ph)	400V (3-	
				Ph)	
			1P+N	3P+N	
	Questions:				
	MCB shall only b	e 230V(1-Pl			
	3P+N required, ri		a T		
		-			

No.	Bidder's Query	Client's Response/Clarification/Answer
5	Amendment No.3 - AFD-EU-EIB - Meters & MCBs	•
	4.2.1.13, degree of protection: IP55,	Requirements of clause 4.2.1.13 of
	Question:	MCB technical specifications issued through amendment no. 3 shall apply.
	Since the MCB will not be exposed to outdoor, normally,	through amendment no. 3 shan appry.
	the degree of protection of MCB with IP20 will be	
6	enough, no need to require IP55, please confirm. Amendment No.3 - AFD-EU-EIB - Meters & MCBs	It is hereby confirmed that the
	2. NORMATIVE REFERENCES	Normative References in the MCB
		specification are correct.
	Question:	Requirements of clause 4.2.1.1 of MCB
	IEC60898-1 is the standard of MCB, while IEC60947 is the	technical specifications issued through
	standard of MCCB. The tender invites tender for MCB only, therefore, our	amendment no. 3 shall apply.
	MCB will not comply with IEC60947, please confirm.	
	Down to many	
7	Amendment No.3 - AFD-EU-EIB - Meters & MCBs	Requirements of clause 4.1 (e) of MCB
	4.1 Service conditions	technical specifications issued through amendment no. 3 shall apply.
	e) Pollution (IEC 60947-1)- Very Heavy: class IV;	amendment no. 3 shan appry.
	Question:	
	Normally class II will be enough, will it acceptable or not?	
8	Amendment No.3 - AFD-EU-EIB - Meters & MCBs	Refer to item no. 3 of this document above which states "Submission of
	4.2.4.2 The insulating material shall be pigmented grey (RAL7035) and the operating handle shall be	Meter and MCB samples is not
	red.	required at bid submission stage.
		However, the successful bidder shall
	Question:	submit Meter Samples as required
	During the bid sample submission, the insulating	under Technical Specifications for
	material will be white, and the operating handle shall be blue. But after the contract is confirmed, we	Single Phase Split Prepayment Meters (KP1-6C-4-1-TSP-14-011-
	would be able to produce the same color firmly	02) for testing and approval before
	comply with the requirement. Will the samples be	manufacture (reference to ITB 11.1
	acceptable during the bid evaluation?	(k))."
	A 1 AND DIVERD ACCO	D
9	Amendment No.3 - AFD-EU-EIB - Meters & MCBs 4.2.8.2 A proven design of external sealing shall be	Requirements of clause 4.2.8.2 of MCB technical specifications issued requiring
	used for this purpose and shall form part of the	external sealing or terminal cover
	device. A provision for terminal cover scaling shall	sealing shall not be applicable.
	be made.	
	0	
	Question: The MCB is normally installed in the meter box. The	
	meter and meter box will have the tamper protection	
	moter and moter our viii have the tuniper protection	

No.	Bidder's Query	Client's Response/Clarification/Answer
	function. And the MCB has no function of energy measurement. Therefore, there is no need to add external sealing or terminal cover scaling for MCB. Please confirm.	

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

DANIEL MUGA

Ag. GENERAL MANAGER – SUPPLY CHAIN

