



Approved
B.F. 18/9/2018

ADDENDUM NO 1 FOR TENDER NO: KEBS/T008/2018/2019:

OUR REF: KEBS/T008/2018/2019

17th September 2018

TO: ALL INTERESTED BIDDERS – ADDENDUM NO.1 CLARIFICATIONS AND RESPONSES TO QUESTIONS

Reference is made to the above tender for **SUPPLY, DELIVERY, INSTALLATION AND USER TRAINING OF TESTING LABORATORY EQUIPMENT** which we would like to make the following clarifications:

- a) The specifications of **RLC precision meter** has been amended as follows,

Precision RLC meter	EQUIPMENT	Quantity	SPECIFICATION	Weighting (%)	Score (%)	Place of delivery
			Accuracy: 0.1% Short duration, 0.05% long or medium duration	5		Nairobi
			Test Frequency: 20 Hz to 2MHz	5		
			Test signal level: Volatage 0V to 20V; Current 1µA to 100mA	5		
			With Auto-level test signal control	3		
			DC Bias ±40V	3		
			Programmable test sweep: 201 test points	3		
			Input cable 4m Maximum specification	3		
			Weight: Not more than 3.5kg	3		
			Supplied with Data acquisition computer software	10		
			Supplied with Data acquisition interface cables	10		
			Supplied with standard 240v 3 pin square plug pwer cable	5		
			Supplied with English user manual	5		
			Supplied with Current and traceable certificate	5		
			Standards and ccessories to perform calibration and maintenance	15		
			Clip leads to perform mandatory measurements	10		
			User training	10		
			Total	100		
			Pass	95		

b) The specifications of **Automatic dial indicator testing equipment** has been amended as follows

SN	EQUIPMENT	SPECIFICATION		Quantity	Location	Weighting (%)	Score (%)
1.	Automatic dial indicator testing equipment	Application/ Scope	For calibration of Dial Indicators	1	Dimensional Lab		
		Performance Specifications					
		i.	Range: 0-100 mm			10	
		ii.	Digital numerical increment: 0.02 µm			10	
		iii.	Accuracy/Measuring uncertainty: (0.2+L/250) µm (L in mm) at T=20°C			10	
		iv.	Positioning speed: 2 mm/s			5	
		v.	Automatic pre-positioning			7	
		vi.	Image processing with USB 3.0-camera with lens, including cable			10	
		vii.	Digital digit recognition			5	
		viii.	Steady LED lighting with plug-in power supply			5	
		ix.	Digital dial image processing software			10	
		Other Requirements					
		i.	Supply voltage: 110-230V AC			2	
		ii.	Software assisted operation with certificate printing capabilities			5	
		iii.	Accessories: Mount for lever-type indicators, Full set of adaptors for digital indicators and inductive probes			5	
		iv.	Calibration: Certificate of calibration from a National Metrology Institute which has posted its Calibration and Measurement Capabilities at the Bureau International des Poids et Mesures (BIPM)			3	
		v.	To be supplied with Colour LaserJet 3-in-1 printer with Wireless Direct Printing and Laptop PC (RAM 16GB; Intel® Core™ i7-8705G processor)			10	
		vi.	Warranty (At least 3 years)			3	
		TOTAL SCORE		100			
		MINIMUM SCORE REQUIRED		97			

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SN	EQUIPMENT	SPECIFICATION	Quantity	Location	Weighting (%)	Score (%)
1.	Automatic dial indicator testing equipment	Application/ Scope For calibration of Dial Indicators	1	Dimensional Lab		
		Performance Specifications				
		i. Range: 0-100 mm			10	
		ii. Digital numerical increment: 0.02 µm			10	
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		iv. Positioning speed: 2 mm/s			5	
		v. Automatic pre-positioning			7	
		vi. Image processing with USB 3.0-camera with lens, including cable			10	
		vii. Digital digit recognition			5	
		viii. Steady LED lighting with plug-in power supply			5	
		ix. Digital dial image processing software			10	
		Other Requirements				
		i. Supply voltage: 110-230V AC			2	
		ii. Software assisted operation with certificate printing capabilities			5	
		iii. Accessories: Mount for lever-type indicators, Full set of adaptors for digital indicators and inductive probes			5	
		iv. Calibration: Certificate of calibration from a National Metrology Institute which has posted its Calibration and Measurement Capabilities at the Bureau International des Poids et Mesures (BIPM)			3	
		v. To be supplied with Colour LaserJet 3-in-1 printer with Wireless Direct Printing and Laptop PC (RAM 16GB; Intel® Core™ i7-8705G processor)			10	
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			Clip leads to perform mandatory measurements	10		
			User training	10		
			Total	100		
			Pass	95		

c) Item 7- Viscosity Oil Bath

QUESTION .Do you require a bath or standards? Also if you require a bath do you require the glassware? Kindly be specific.

ANSWER

The correction should be **Viscosity oil** and not **Viscosity Oil Bath**

d) Electrical Power Standard

QUESTION Give clarification on the following;

- i. Indicate the number of phases required.
- ii. Energy option for the power standard.
- iii. Number of participant for Training at manufacturer premises.
- iv. Training and commissioning after delivery
- v. Automated software specification.

ANSWER

This is the reply to your request.

1. We will require a 3 phase for it's as the power supply i.e 415 V AC /50 Hz.
2. The energy measurement option for the equipment to be part of the supply.
3. Two technical staff shall be trained at the manufacturer premises.
4. Once the supply is made, installation and commissioning shall be done at Kebs.
5. The applicable software that drives the instrument shall be supplied and installed appropriately to its satisfactory operation/running.

e) Vacuum Oven

QUESTION Kindly specify the size you require in Liters? 25 or 53 or 128L?

ANSWER

The required size in litres is 53L

ALL OTHER CONDITIONS REMAIN THE SAME.

**THE MANAGING DIRECTOR,
KENYA BUREAU OF STANDARDS,
P.O. BOX54974 - 00200
NAIROBI.**

