



KEFRI/AD/SD/VOL.XI (357)

16<sup>TH</sup> NOVEMBER 2023

TO INVITED BIDDERS

Dear All,

#### CLARIFICATION/ADDENDUM NO. 2

TENDER NO - KEFRI/ONT/002/2023 - 2024

TENDER NAME. SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ASSORTED LABORATORY AND FIELD EQUIPMENT FOR ELEVEN (11) KEFRI SEED CENTRES

The Kenya Forestry Research Institute (KEFRI) would wish to bring to your attention the below clarification to the above tender advertised on MyGov. – Issue No. 19/2023-2024, which appeared in the Standard Newspaper of Tuesday, 7<sup>th</sup> November 2023.

#### 1. SECTION III - EVALUATION AND QUALIFICATION CRITERIA

##### 1.1 Stage 1 – Preliminary Examination

MR 11 - Is further clarified as indicated in Addendum No. 1 to include the **Cone tumbler (Rotary drum)** as equipment that the tenderers must submit a valid Manufacturers Authorization letter/certificate.

## 2. PRICE SCHEDULE

The following clarification is made to the Price Schedule -Seed processing and testing,

- i) Lot 9 - Item No. 8 is deleted, being a repetition of Item No. 5
- ii) Introduction of Lot 16 – Seed Cleaner (blower)

**Table 2 -Price Schedule**



LOTS		Description	Country of Origin/Assembled /Manufacturer	UoM	Qty	Location to be delivered	Unit Cost	Total Price per Line-item Incl. of VAT
		SEED PROCESSING AND TESTING.						
Lot 9	1	Water Distiller		No	14	Headquarters		
	1	Handheld MC meters		No	3			
	2	Quick MC Meter		No	13			
	3	Data Logger (Portable)		No	14			
	4	Data Logger (Mountable)A		No	1			
	5	High Precision Microscope		No	1			
	6	Digital Magnetic Hotplate Stirrer		No	5			
LOT 16	1	Seed Cleaner (Blower)		No	6			
		<b>TOTAL</b>						



**NOTE:** Tenderers are required to clearly read and understand the requirement specifications in Section V - Schedule of Requirements -Detailed Technical Specifications before filling the price schedule.


### 3. SECTION IV -SCHEDULE OF REQUIREMENTS


The following clarifications are made to the below Items on Section IV - Scheduled of Requirements


#### DETAILED TECHNICAL SPECIFICATIONS

No	Equipment	Equipment Specification	Compliance to KEFRI Specifications -YES/NO
11	<p data-bbox="296 492 701 521">Cone tumbler (Rotary drum)</p>  	<ul style="list-style-type: none"> <li>•Dimensions (L x W x H): App 2500mm x 1700mm x 2800mm</li> <li>•Weight: App 850kg</li> <li>•Power supply: 1 x 230V, 50Hz</li> <li>•Power requirement: 1.5 kW</li> <li>•Compressed air consumption: 300liters/minute at 6Bar</li> <li>•Water consumption: 20 liters/minute at 2Bar</li> <li>•Dust filter connection: m3/hr</li> <li>•Maximum production capacity: Seed extraction: approx. 75-200 liters every 5-8 minutes</li> <li>•Dewinging: approx. 75-200 liters every 30-60 minutes</li> <li>•Dimensions (Ø x depth): App. 1000mm x 1000mm</li> <li>•Dewinging drum: Dimensions (Ø x depth): App. 1300mm x 1000mm</li> <li>•Operator's platform: Dimensions (L x W x H): App. 3170mm x 1850mm x 550mm</li> <li>•Weight: App. 500 kg</li> </ul>	

<p>18</p>	<p><b>Seed cleaner (Blower)</b></p> 	<ul style="list-style-type: none"> <li>i. Seed feed: 18 L (gravity or vibrator)</li> <li>ii. Constant vibrating pulse motor-controlled screens.</li> <li>iii. 2 magnetic screen frames 380mm x 247mm</li> <li>iv. 30 plus screen sizes</li> <li>v. Dimensions: (App). <ul style="list-style-type: none"> <li>a. Length: App. 1155 mm</li> <li>b. Width: 485 mm</li> <li>c. Stand Width: 810 mm</li> <li>d. Total Height: 1530 mm</li> <li>e. Stand Height :680 mm</li> </ul> </li> <li>vi. Machine Weight: 57 kg</li> <li>vii. Power: 240VAC 50hz Single Phase 2A</li> <li>viii. Shaker Speed: Continuously variable hz</li> </ul> <p>Cleaning Capacity: Up to 150 kg per hour.</p>	
<p>21</p>	<p><b>High precision electronic analytical balance</b></p> 	<ul style="list-style-type: none"> <li>i. Display: LCD</li> <li>ii. Dimensions: appx (350 x215x340mm)</li> <li>iii. Pan: Circle apprx 90mm</li> <li>iv. Readability :0.0001g</li> <li>v. Accuracy:0.1mg</li> <li>vi. Load:100 g</li> <li>vii. Internal calibration or both Internal/External</li> <li>viii. Span calibration standard weight value: 30g or 60g</li> <li>ix. Linearity calibration standard weight value: 20g/40g/60g</li> <li>x. Digital Display</li> <li>xi. Operational manual in English</li> <li>xii. Language: English</li> <li>xiii. Power: AC: 230 V/240V – SinglePhase &amp; DC:</li> </ul>	

		rechargeable battery/dry battery xiv. Warranty at least 1 years on parts, 1year on labour xv. Weight 4-5kg	
28	<p>Drying oven (0 -240 °C)</p> 	<ul style="list-style-type: none"> <li>i. Natural convection</li> <li>ii. Capacity: App 100 litres</li> <li>iii. Dimensions <ul style="list-style-type: none"> <li>a. External Approx . 550 x 560 x700 mm</li> <li>b. Internal Approx. 440x460x395mm</li> </ul> </li> <li>iv. Voltage: AC 230 V/240V – Single Phase</li> <li>v. App. 600 W</li> <li>vi. Room Temp. +5 to 200°C</li> <li>vii. Max. Temp. Reaching Time Approximately 60 minutes</li> <li>viii. Temperature setting - Digital</li> <li>ix. Structured stainless steel housing, scratch-resistant, robust and durable; rear of zinc-plated steel</li> <li>x. English Controls</li> <li>xi. Timer from 1 minute to at least 48hours</li> <li>xii. Warranty at least 1 years on parts, 1 year on labour</li> <li>xiii. Temperature display</li> <li>xiv. Operating manual in English</li> </ul> App. 35-50kg	

<p>34</p>	<p>High precision microscope</p> 	<ul style="list-style-type: none"> <li>i. Type: Optical</li> <li>ii. Applications: Laboratory</li> <li>iii. Microscope head: Trinocular</li> <li>iv. Quality of the objectives: Achromatic (4x, 10x, 40x and 100x)</li> <li>v. Wide-angle eyepiece App.WF10X-18mm Wide-angle eyepiece App. WF20X-11mm</li> <li>vi. Observation technique: Fluorescence</li> <li>vii. Light source: LED</li> <li>viii. Configuration: Benchtop</li> <li>ix. Magnification: 10 X, 40 X, 100 X</li> <li>x. Sliding free Trinocular head inclined at 45°</li> <li>xi. Solid square base, Comfortable and simple operation</li> <li>xii. fluorescent viewing</li> <li>xiii. Single channel fluorescent module/Dual channel fluorescent module</li> <li>xiv. Fluorescence filter group: UV、V、BV、B、G、DAPI、FITC.</li> <li>xv. Fluorescent Illumination:5W LED Lamp</li> <li>xvi. Fluorescence filter group: High transmittance, high cut-off and deep cut-off depth filters are used to make the image brighter, contrast sharper and background darker.</li> <li>xvii. Fluorescent light source: Adopt imported LED lamp beads</li> <li>xviii. Camera: USB 3.0 Camera (DC 500/630)</li> <li>xix. Flexible-efficient-clear-bright:</li> <li>xx. DF-I fluorescent vertical illuminator, equipped with a set of fluorescent channels, adopts high-brightness LED light source</li> </ul>	
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		DF-II fluorescent vertical illuminator equipped with two sets of fluorescent channels, and the light source linked with the fluorescent	
35	<p><b>Lamina Flow</b></p> 	<ul style="list-style-type: none"> <li>i. Vertical air flow</li> <li>ii. Standard configuration includes UV lamp and Fluorescent lamps.</li> <li>iii. Front sash: Tempered glass, anti-ultraviolet radiation.</li> <li>iv. External size (WxDxH) (mm): 1460x800x1690.</li> <li>v. Internal Size (WxDxH) (mm): 1400x500x600.</li> <li>vi. Airflow velocity: Average of 0.3~0.5m/s.</li> <li>vii. Work zone interior is made of 304 stainless steel.</li> <li>viii. Noise level &lt;60dBA.</li> <li>ix. Hepa Filter with 99.995% efficiency at 0.3 micron</li> </ul>	

**NOTE:** Item No 12 -Laboratory Chair on the Schedule of requirements is deleted.

#### 4. TENDER CLOSING & OPENING DATE

The Tender opening date remains **Tuesday, 21<sup>st</sup> November 2023 at 11:30am**

Completed tenders must be delivered on or before 21<sup>st</sup> November 2023 at 11:30 am as directed in the Tender document -  
Electronic Tenders Shall not be permitted.

**NOTE** – This Clarification/Addendum - No. 2 forms part of the Tender requirements and is binding on all bidders.

All other details, terms and conditions including closing date and time remain the same.



*For*  
**MANAGER - SUPPLY CHAIN MANAGEMENT - KEFRI**