

PART 2: STATEMENT OF REQUIREMENTS

List of Supplies and Price Schedule

Procurement Reference Number: **DDA/SUPLS/2023-2024 /00011**

Purchase Order Serial Number: _____

[Purchase Order Serial Number to be completed in the event of award of contract only]

LOT 01 (ONE): ASSORTED LABORATORY EQUIPMENT

CURRENCY OF QUOTATION: UGX _____

Item No	Description of Supplies	No. of items	UOM	Unit Price	Total Price
1.	Protein analyser	01	Pc		
2.	Food lab fat analyser	02	Pc		
3.	Centrifuge	01	Pc		
4.	Milk analyser with lockable carrying case	01	Pc		
			Sub total		
			18% VAT		
			G/Total		

Enter 0% VAT rate if VAT exempt.

The Delivery and Completion Schedule shall be as specified in the Special Conditions of Contract.

List of Supplies and Price Schedule Authorised By:

Signature: _____ Name: _____

Position: _____ Date: _____

(DD/MM/YY)

Authorised for and on behalf of:

Company: _____

Specification and Compliance Sheet for Lot 01; ASSORTED LABORATORY EQUIPMENT

Technical Specification Required

Item No	Technical Specification Required	Compliance of Specification Offered	Technical literature on specification offered in column c
<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
1.	<p>Protein analyser</p> <ul style="list-style-type: none"> - Protein Range 0.01% to 99.99% - Resolution: 0.01% - Data Entry Keypad with menu-driven software - USB mouse, keypad or keyboard - Display: Color VGA screen (800 x 640) - Accessory ports: 2 serial, RS 232, 9 pin ports for external balance or computer, and - 4 USB ports Interfaces to computer networks • Standard internal thermal printer • Should be able to analyze proteins in dairy products • Should have a calibration and or verification standard • Supplied with iTAG test solutions, disposable filters and cups for 100 tests. • Supplied with imethods of all dairy products. • Supplied with a MSDS and user’s manual <p>Equivalent to sprint automated protein analyzer</p>		
2.	<p>Food lab fat analyser</p> <p>Should be able to detect and quantify:-</p> <ul style="list-style-type: none"> • Testing scope; Free fatty acids and peroxide value in ghee and butter oil; chloride content in skimmed and whole milk, ricotta and cheese; peroxidase; fructolysine; hydrogen peroxide; saponification value; urea; Glucose in milk; Lactose; polyphenols oil; ammonia in skimmed and raw milk • Analyzer must be calibrated (calibration certificate required) • Analyzer must be packed in HDPE box with cushion for protection against knocks • • Lactose in milk and milk products • Alkaline phosphatase in liquid milk • Saponification value in high fat milk products • Supplied with enough reagents and 		

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<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
	consumables enough for each of the first 100 tests <ul style="list-style-type: none"> • Supplied with end-user's manual • GLP compliant (results printing, data storage, networking) 		
3.	Centrifuge Should have: <ul style="list-style-type: none"> • Automatic lid lock with round glass window for inspection and calibration • Digital display showing active heating, open/close lid, set time, countdown, brake on and end of cycle • Centrifugal force of 350g \pm50g as per the Gerber method • Soft start and stop • Digital countdown timer- 0 to 60min • Acid resistant internal surfaces • Unbalance shut down • Temperature (digital) preset for Gerber test, 65°C • Pre-heating time of not more than 20min • Led light indicating right temp achieved • A separate key to open in case of power failure • Power supply of 110-240V AC • Safety reading lamp as an accessory • GLP compliant • End-user's manual 		
4.	Milk analyser Milk analyzer <ul style="list-style-type: none"> • The case pack should consist of a lactoscan SA analyzer, an RS232 serial printer and paper rolls, all necessary power and connecting cables, cleaning solutions (Lactodaily & lactoweekly) and pH probe -The lactoscan should have the following working modes; Cow, UHT, Cream 45%, cleaning, final cleaning, printing. -Measuring range; Fat (0.0-25%), SNF (3-40%), Density (1.010-1.040g/ml), Protein (2-		

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<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
	7%), Lactose (0.01-20%), water content (0-70%), Milk temperature (1-40 ⁰ C), Freezing point (-0.400 ⁰ C to -0.700 ⁰ C), Salts (0.4-4%), pH (0-14), Conductivity (3-14 mS/cm), Total solids (0-50%) <ul style="list-style-type: none"> • Lockable Aluminium carrying case 		

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LOT 02 (TWO): HPLC ACCESSORIES:

CURRENCY OF QUOTATION: UGX _____

Item No	Description of Supplies	No. of items	UOM	Unit Price	Total Price
1.	N ₂ water bath/Turbo-Vap sample evaporation system	01	Pc		
2.	Bench-top refrigerated Centrifuge	01	Pc		
3.	Vac-Elut system	12	PK		
4.	Multi tube vortexer	01	Pc		
5.	SPE manifolds/columns, with vacuum pump	01	Pc		
6.	Kobra Cell	01	Pc		
			Sub total		
			18% VAT		
			G/Total		

Enter 0% VAT rate if VAT exempt.

The Delivery and Completion Schedule shall be as specified in the Special Conditions of Contract.

List of Supplies and Price Schedule Authorised By:

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(DD/MM/YY)

Authorised for and on behalf of:

Company: _____

Specification and Compliance Sheet for lot 02 HPLC accessories

Technical Specification Required

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<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
1.	<p>N₂ water bath/Turbo-Vap sample evaporation system.</p> <ul style="list-style-type: none"> • No. of samples:- 50 max • Gas Control: Gas regulator & gauge 0-2 bars; should be able to turn on gas to each of independent manifolds when working with fewer samples • Digital Timer: 1-99mins • Max volume tubes: 30ml • Water-bath temp (Digital): Ambient to 90°C • Gas supply: 4.1-6.9 bars (60-100 PSI) • Exhaust tube should be provided • Power: 220-240V AC • No tube balancing required • Should be easy to swap the supplied test tube racks of different sizes (12 racks 1.5-30ml) • Comply with 2006/95 EC, 2004/108 & 93/68 EEC certifications • Should be able to be operated unattended <p>Framed clear water bath cover for</p>		

	inspection.		
2.	<p>Bench-top refrigerated Centrifuge with variable temp & speed</p> <ul style="list-style-type: none"> • Refrigerated (-20-40°C) • Audio and visual notification system • Fixed angle bucket rotors (2 changeable) • Superior safety features • Digital display of set and actual parameters simultaneously • Emergency switch to enable opening in case of power failure • Automatic conversion of parameters: rcf to rpm and vice versa • Fast pre-cooling function to cool the chamber before starting the run • HCF and HCFC-free refrigerants • 110-240V AC • Bench-top • Supplied with end-user's manual • GLP compliant 		
3.	<p>Vac- Elut system</p> <ul style="list-style-type: none"> • Made of glass block • 24 ports • Should have a metered pressure gauge • Supplied with a vacuum pump and hosepipe 		
4.	<p>Multi tube vortexer</p> <ul style="list-style-type: none"> • Able to vortex 12 variable size test tubes maximum at the same time • Digital variable vortexing speed (0-3,000 rpm) and integrated timer (0-999mins) for automatic function • 3mm vibration orbit. • GLP compliant 		
5.	<p>SPE manifolds/columns, with vacuum pump</p> <ul style="list-style-type: none"> • Made of glass block • 24 ports • Should have a pressure gauge 		

	<ul style="list-style-type: none"> • Supplied with a vacuum pump and hosepipe 		
6.	<p>Kobra Cell</p> <ul style="list-style-type: none"> • In-situ derivatisation of Aflatoxins (B1, G1 & M1) • Power supply: via a 9V adapter • 2 electrode leads (platinum and stainless steel) connector • 1 spare membrane • Installation pack supplied (5m of tubing with ID of 0.5mm, tubing cutter, 10 ferules and 3 unions) • Supplied with end-user's manual and MSDS 		

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LOT 03: ANALYTICAL BALANCE AND MOISTURE ANALYSER

CURRENCY OF QUOTATION: UGX__

Item No	Description of Supplies	No. of items	UOM	Unit Price	Total Price
1.	Analytical balance	01	Pc		
2.	Halogen bench-top moisture analyzer	01	Pc		
				Sub total	
				18% VAT	
				G/Total	

Enter 0% VAT rate if VAT exempt.

The Delivery and Completion Schedule shall be as specified in the Special Conditions of Contract.

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Specification and Compliance Sheet for Lot 03: analytical balance and moisture analyser.

Technical Specification Required

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<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
1.	<p>Analytical balance (used advanced analytical weighing and density determination) Measurement range:- 0.016 – 220g Nominal load:- 200g Readability:- 0.1mg Linearity deviation:- 0.2mg Repeatability:- 0.1mg Draft shield:- should be provided Calibration:- both internal & external Power supply:- 110-240V AC Interfaces: WiFi, Ethernet, USB, RS232, SD Spirit level:- should have Calibration cert:- should have GLP:- compliant User management:- Password protected End-user's manual:- should be supplied</p>		
2.	<p>Halogen bench-top moisture analyser (used for Moisture analysis) Measurement range:- 0.01 – 201g Moisture range:- 0.01%-100% Readability:- 0.1mg (0.001%MC) Drying programs:- Four Display modes: %MC, %DC, %AD Drying Temp:- 40-230°C (1°C increments) Repeatability (sd) with 2g sample:- 0.05% Method storage:- 300 (max) Results storage:- 3,000 Calibration:- Internal and external Power supply:- 110-240V AC Interfaces:- WiFi, Ethernet, USB, RS232, SD Spirit level:- should have Calibration cert:- should have GLP:- compliant User management:- Password protected</p>		

Item No	Technical Specification Required	Compliance of Specification Offered	Technical literature on specification offered in column c
<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>
	End-user's manual:- should be supplied		

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Company: _____