المركز الوطني للبحوث الزراعية
National Agricultural Research Center

نموذج استدراج اسعار

الرقم المتسلسل لطلب الشراء:.....٤٧٤٩..... التاريخ : .....

مديرية اللوازم والعطاءات

الرقم	قائمة اللوازم	المطلوب		المواصفات	السعر الافرادي	السعر الاجمالي
		الوحدة	الكمية			
1	electrophoresis systems	Sys.	1	Attached		
2	Power supply	Sys.	1	Attached		
3	Hotplate (heater)	Sys.	1	Attached		
4	Vortex Mixer	Sys.	1	Attached		
5	Liquid nitrogen (LN_2) dewar/tank	Uni.	1	Atached		
6	Manual stereo dissecting microscope and camera	Sys.	1	Attached		

المجموع :- النهائي رقما ( ) كتابة ( ).

اسم و توقيع المورد: ... .

ختم المورد :.....

التاريخ:..... .

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1 - Electrophoresis systems

Item	Specifications
Type	Horizontal agarose
Gel tray sizes	7×7 / 7×10 cm
Samples range	8- 30
UV-transparent tray	Included
Well combs	15-20
No. of combs	2
Gel casting	Caster/gates option
Others	Leveling system, safety lid.
Warranty	5 years

2 - Power supply

- four independent output connections, capable of powering multiple electrophoresis chambers simultaneously, programmable constant voltage/current, maximum output ≥250 V and ≥3 A, with timer,
- Overload and short-circuit protection, 100–240 V, 50/60 Hz. Pause/resume, 3-digit LED display,
- No-load detection,
- Overload/short-circuit protection ،
- Overvoltage protection ،
- Suitable for submerged horizontal electrophoresis، Includes power cord and instructions,
- 5 years Warranty.

3 - Hotplate (heater)

Item	Specifications
Type	Digital laboratory hotplate and suitable for general laboratory heating
Temperature range	Ambient +5°C to 300°C
Temperature control	±1°C or better
Heating surface	Ceramic or aluminum
Surface size.	18 × 18 or 20 × 20 cm or larger
Safety	Over-temperature protection
Magnetic stirring	Yes
Heating power	1,000 -1,500 W.
Temperature accuracy	±0.5°C with PT1000
Stirring capacity	5- 10 L
Stirring speed	100–1,500 rpm.
Display	Actual and set temperature
Warranty	5 years

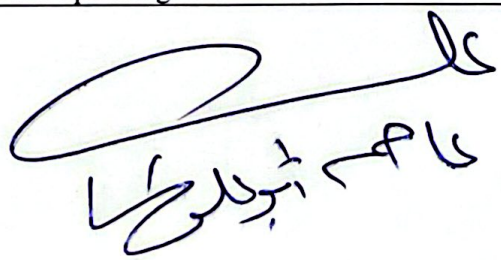
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4 - VORTEX MIXER

Type	Vortex Mixer
Speed	500-3000 rpm
Operation	Touch + continuous
Digital display	Speed & time
Timer	1–99 min + continuous
Speed accuracy	± 3- 5%
Dimensions	20-22 × 15-18 × 13-16 cm
Suitable for	• 1.5/2.0 mL bead-beating tubes for bead-assisted lysis and homogenization. • Microtubes, PCR tubes, small sample mixing (Tube compatibility: 0.2, 0.5, 1.5, 2.0 mL + 15 ml). • Low-noise operation • Overload protection
Vortex Adapter	Included
Voltage	100–240 V, 50/60 Hz
Warranty	3 years

5 - Liquid Nitrogen (LN_2) Supply and Transfer System (50-L)
1 complete system.

Type	**50-L Liquid Nitrogen (LN_2) tank**
Purpose	The system shall be suitable for laboratory use, particularly for rapid freezing and preservation of biological materials, plant and insect tissues, and molecular biology/DNA extraction applications.
Main vessel	• Nominal capacity: approximately 50 L • Construction: high-quality stainless steel or equivalent cryogenic-grade material • Vacuum-insulated construction • Suitable for storage and dispensing of liquid nitrogen • Equipped with a reliable liquid-level indicator/gauge • Equipped with pressure relief and appropriate safety devices • Mobile design with stable base/casters or equivalent • Designed for repeated laboratory LN_2 dispensing • Operating pressure and safety specifications to be stated by the manufacturer • Static evaporation rate to be stated and guaranteed by the manufacturer • Manufacturer's warranty and service support required
LN_2 transfer and dispensing accessories The system shall be supplied complete with:	Cryogenic LN_2 transfer hose, suitable for the offered tank and rated for liquid nitrogen service. LN_2 phase separator / dispensing device, or equivalent system for controlled and safe LN_2 discharge. Appropriate fill/withdrawal connection and fittings. Compatible cryogenic working container/dewar, preferably wide-mouth, for transferring LN_2 to the DNA-extraction work area. Cryogenic forceps/tongs suitable for handling frozen biological material.
Safety equipment_ The supplier shall provide:	• Pair of cryogenic protective gloves, LN_2-rated. • Full-face cryogenic face shield. • Cryogenic safety goggles. • Appropriate safety labels and operating instructions.



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Documentation _ The supplier shall provide:	• Manufacturer's technical datasheet. • Operating and maintenance manual. • Safety instructions for LN_2 handling. • Warranty certificate. • Certificate of conformity, where applicable. • Recommended maintenance schedule and spare-parts information.
Warranty	5 years

6 - Stereo dissecting microscope and camera

Item	Required specification
Type of Microscope	Research-grade stereo microscope, Greenough design, with minimum 8:1 zoom ratio and dedicated documentation port
Main Applications	Biological samples, entomology, mites, parasitology, botany, plant protection and geology
Zoom Ratio	≥ 8:1
Design Principle	Two separate optical systems tilted by the stereo angle for true stereoscopic observation
Stand	Large, stable research stand with integrated LED illumination and sufficient working area for biological specimens
Eyepieces	Wide-field, focusing eyepieces, approximately 10× magnification with ≥23 mm field number
Standard Magnification	Approximately 6×–50× or greater, depending on the supplied optical configuration
Front Optics – General	0.60- 0.65× apochromatic front optic for whole insects, beetles, leaves, flowers, fruits and larger specimens
Front Optics – High Magnification	1.5× apochromatic front optic for mites, small insects and detailed morphological structures
Magnification with 0.63× Optic	4×–32× or greater
Magnification with 1.5× Optic	9×–75× or greater
Working Distance	Long working distance suitable for manipulation and preparation of biological specimens; approximately ≥50 mm with high-magnification front optic
Stereoscopic View	True three-dimensional observation through binocular eyepieces
Optical Quality	High-contrast, distortion-free optics with apochromatic correction
Ergonomic Viewing	Ergonomic viewing angle approximately 35°
Zoom Click Stops	Approximately 10 selectable click-stop positions or equivalent
Scientific Camera	High-resolution color scientific digital microscope camera, suitable for publication-quality imaging and biological documentation
Camera Sensor	High-quality color sensor with minimum ~8 MP class resolution; supplier shall state sensor size, pixel size, dynamic range and frame rate

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Item	Required specification
Camera Adapter	Appropriate 0.5× C-mount or equivalent optical adapter, fully compatible with the microscope and camera
Documentation Port	Dedicated photographic/documentation port with 100% light transmission to camera when selected
Image Acquisition & Analysis	Professional microscopy software for image acquisition, calibration, scale bars, measurements, annotation and image analysis
Reflected Illumination	Adjustable segmentable LED ring illumination for uniform specimen illumination
Directional Illumination	Adjustable dual/directional LED illumination for three-dimensional surface visualization
Stage	Mechanical/gliding stage for precise specimen positioning
Transmitted Illumination	LED transmitted illumination supporting brightfield, darkfield and oblique illumination
Polarization	Polarizer and analyzer for polarized-light observation
Dust Protection	Dust-protection glass compatible with the supplied front optics
Computer Workstation	High-performance computer suitable for microscopy image acquisition, processing, analysis and storage
Specimen Accessories	Appropriate specimen holders, Petri-dish holders, stages and protective accessories for insects, mites and botanical specimens
Research Applications	System shall be suitable for mites, insects, beetles, larvae, eggs, plant tissues, leaves, flowers, fruits and other biological specimens
Image Quality	System shall provide high-quality images suitable for scientific publications, taxonomic identification, morphological studies and research documentation
Calibration	System shall support calibrated measurements and scale-bar generation
Supplier Requirement	Supplier shall provide manufacturer, model, catalog/part number, complete technical specifications, warranty, installation and training
Compatibility	All components shall be supplied as a fully compatible integrated system, with the supplier confirming compatibility between microscope, optics, camera, illumination, software and computer
Warranty	5 years

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		الوحدة	الكمية			
1	Homogenizer	Sys.	1	Attached		

المجموع :- النهائي رقما ( ) كتابة ( ).

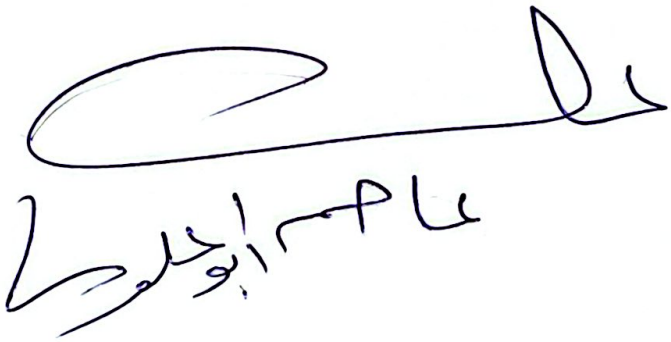
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1. Homogenizer

Specification	Requirement for procurement
Type	Laboratory Homogenizer for Plant, Animal and Insect Samples
Laboratory homogenizer suitable for	preparation and homogenization of plant, animal, insect, and other biological samples.
Uses	Suitable for routine microbiological, molecular biology, agricultural, and food-related sample preparation
Compatible with	Commonly used sterile laboratory homogenization/extraction bags.
Capable of	Processing multiple samples simultaneously.
Simultaneous processing capacity	at least 4 samples.
Processing capacity	≥200 samples/hour samples/hour under appropriate operating Conditions.
Speed	≥2,500 rpm or equivalent homogenization performance
Speed	Adjustable homogenization speed suitable for different sample types
Operating/speed settings	Multiple adjustable operating/speed settings
Safety	Safety system to minimize accidental operation while the equipment is open or improperly positioned.
Supplied complete with	necessary accessories required for routine sample homogenization.
Power supply	Compatible with 220–240 V, 50 Hz
Safety	Supplied with certificate of analysis and lot-specific QC data
Warranty	5 years
Delivery	Within 3 weeks



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1	Centrifuge	Sys.	1	Attached		

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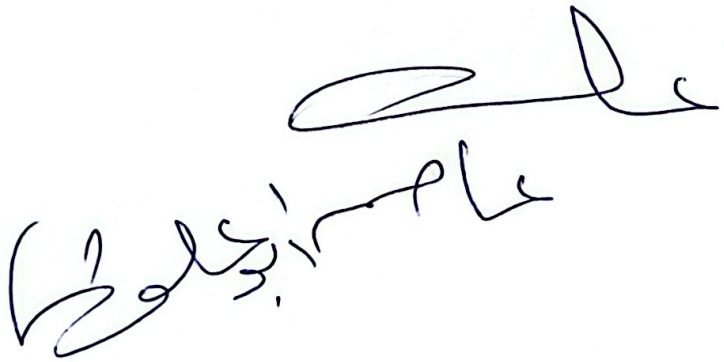
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1. **Centrifuge**

Specification	**Requirement for procurement**
Type	Refrigerated Multipurpose Laboratory Centrifuge
Purpose	Bench-top refrigerated laboratory centrifuge suitable for molecular biology and general laboratory applications.
Maximum speed:	≥18,000 rpm.
Maximum relative centrifugal Force	≥20,000 × g
Maximum rotor capacity	At least 4 × 200 mL or equivalent total capacity.
Temperature control range	capable of reaching −20°C or lower and suitable for processing temperature- sensitive biological samples.
Display.	Digital LCD, LED, or equivalent display.
Programmable operating parameters	Including speed/RCF, temperature, and running time.
Capability to	store multiple centrifugation programs.
Multiple	Programmable acceleration and deceleration profiles.
Continuous, timed, and quick-spin operating modes.	YES
Lid	Automatic or motorized safety lid-locking system.
Rotor	Automatic rotor recognition or equivalent rotor safety/identification system
Capacity	24 × 1.5/2.0 ml, 6× 50 ml tubes
Noise level	≤60 dB(A) under normal operation.
Safety protection	Appropriate safety protection against imbalance, overspeed, overheating and lid opening during operation.
Supplied with	rotor(s), buckets/adapters.
Power supply compatible with	220–240 V, 50 Hz
Warranty	5 years
Delivery	Within 3 weeks



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