

كراسة الشروط والمواصفات الفنية الخاصة بالمنافسة العامة لتوريد أجهزة معملية لمدينة الأبحاث العلمية والتطبيقات التكنولوجية عن العام المالي 2025-2026				
كود البند	مستل	الوصف اسم الجهاز	المواصفات	الكمية الوحدة
GEBRI	1	Probe sonicator	High power, programmable system ideal for nanotechnology, cell disruption and many other small volume applications, 1/8" probe (volume up to 50 ml), Supplying with generator, converter cable, power cable, stand, sound enclosure, different probes for processing different size and shape and holder, Thumb switch or continuous operation, Amplitude control 0-100%.	1 Unit
GEBRI	2	UV-Vis Spectrophoto meter	Wavelength Range: 190-1000nm, Absorbance Range: -0.3 to 1.999, Transmittance Range: 0 to 199.9%, Selectable Resolution: 1, 0.1, 0.01, Spectral Bandwidth: 5nm, Light Source: Time Scan Display: Graphical and Calculated Concentration Value Pulsed Xenon Lamp, Wavelength Scan Analysis: Absorbance and Wavelength of Peaks and Valleys , Light Source: Pulsed Xenon Lamp, Wavelength Accuracy: +2nm, Wavelength Repeatability: $\leq 1\text{nm}$, Transmittance Accuracy: $\leq \pm 1\%T$, Stray light: $\leq 0.5\%T$, Scanning speed: 300nm/min (0.2nm Step). Accessories include : analysis software (1piece) و Quartz cuvette: 2pieces, glass cuvette 2 pieces	1 Unit
GEBRI	3	Benchtop pH Meter	pH 0-14, Temp 0-100 °C, Buffer solution (4,7,10), Resolution pH = 0.01, Accuracy PH ± 0.01 , Temp. ± 0.5 °C, Buffer recognition , up to three, electrode holder,	1 Unit
GEBRI	4	DOUBLE BEAM - Spectrophoto meter	optical system: double beam • Wavelength Accuracy: ± 0.5 nm • Wavelength Repeatability: ± 0.5 nm • Spectral Bandwidth: 1.8 nm	1 Unit

عنه: صلاح الدين
عصو: اميان حجاب
محمد قنديل
محمد قنديل

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مستل: طارق محمد حجاب

			<ul style="list-style-type: none"> • wave length Rang:190-1100nm • Absorbance Accuracy:0.3%T(100~100%T) ± 0.002A •absorbance Stability (A): ± 0.0001A/h at 500nm • photometric range: 0.0200%T ,0301-4000A, 0.000-9999c •Stray Light (at 220nm nal 360nm nano2), %T < 0.03%T • Scanning speed: fast, medium, slow • Wavelength setting: 8inch color touch screen • Power Ac 220v±22v 50Hz ±1 Hz 200w • Accessories include : analysis software (1piece) Quartz cuvette: 2pieces, glass cuvette 4 pieces 		
GEBRI	5	Houshold Microwave Oven	<ul style="list-style-type: none"> • General Requirement: The microwave oven shall be simple in operation and with tunable. Capable in microwave cooking and defrosting. Supply voltage: 220 volts, 50Hz. single phase A.C. Power Consumption: 1300W approx. Microwave Power: 700W - 850W. Oven Capacity: 20 litre - 25 litre. Microwave Frequency: 2450 MHz. Control: Soft/one touch control. Timer: 60 minutes - 90 minutes. Exterior Dimensions: 520mm (W) x 360mm (H) x 450mm (D) approx. Oven Dimensions: 330mm (W) x 220mm (H) x 330mm (D) approx. Safety: The equipment shall be bonded to earth effectively in accordance with the I.E.E. Wiring Regulations. Sufficient Safety Interlocks to prevent leakage of microwave. Accessories: Shall be supplied with a glass/ceramic tray. 	Unit	1
GEBRI	6	Oven	<ul style="list-style-type: none"> LCD digital display enable users to monitor • the chamber temperature at any given time with Capacity up to 50-100L. • Ability to set operating time of heater. • Temperature range from ambient temperature to 300°C. • Fan for air distribution. • Safety: Visual and auditory alarm indicator alerts • users of temperature abnormal 	Unit	2

رئيس لجنة عمومي نصاب

2

عبدالله بن محمد
عصو: اميران جبار
محمد قنبري
لله عز وجل

				<p>conditions. • External: coated with electrostatic. • Internal: high quality stainless steel. • removable Racks. • Easy cleaning and optimal airflow. • Keyed on/off switch.</p>		
GEBRI	7	Analytical Balance (4 digit)	<p>Electromagnetic force restoration weighing system External calibration LCD with backlight with adjustable contrast Large glass draught shield with 3 sliding doors for easy access to the items being weighed Plastic protection cover Specifications: Capacity(g):220 Readability(g): 0,0001 Pan Size(mm): Ø 80 Repeat Ability(g): 0.0003g</p>	Unit	1	
GEBRI	8	Analytical Balance (2digit)	<p>High resolution load cell weighing system • Small footprint, portable • External calibration • Can operate with external power bank • LCD with backlight with adjustable contrast • Under hook weighing • Plastic protection cover • Capacity(g) : 2200 g • Resolution(g) : 0,01 • Weight: 2,6Kg • Linearity(g) : ± 0,03</p>	Unit	1	
GEBRI	9	Digit Homogenizers (High speed)	<p>Super High Speed: Capable of operating at speeds ranging from 2,000 to 27,000 rpm without load, ensuring efficient homogenization for various sample types. • High Safety: Integrated over-heat and current protection features safeguard the motor, ensuring safe and reliable operation. • Versatile Dispersing Tools: Compatible with multiple dispersing tools, allowing homogenization of volumes ranging from 1ml to 2,500ml, depending on the tool used. • User-Friendly Controls: controller with a high-fidelity LCD display, offers stepless speed control for easy adjustment. • Robust Construction: Built with ABS and aluminum for the body and stainless steel for dispersing tools, ensuring durability and longevity. Specification:- • Speed Range: 2,000 to 27,000 rpm (without load) • Maximum Volume: 2,500 ml (H2O) • Motor Rating (Input/Output): 400W / 300W • Speed Control, Stepless Control • Display: High Fidelity LCD display with 3-Digit • Safety Devices: Over-</p>	Unit	1	

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			heat and current protection • Permissible Temperature/Humidity: 5°C to 40°C, <80%	
GEBRI	10	Refrigerator (Double door vertical cooler)	Double Door Size: 100 cm Vertical Bottle Coolers Temperature Range: +1/+10 C° Refrigerator Price -Special interior design to provide high loading capacity. - Illuminated canopy option. - Interior lighting to provide perfect product visibility. -Tempered glass door. - able to work with Eco-friendly cooling gas R600a or EYS reducing the energy consumption by 50% on average -Wire condenser that reduces the service cost and is maintenance-free. -2 adjustable legs and 2 wheels. - Fan-reinforced air circulation to provide more efficient cooling. -Self-closing door. -Door lock option. -4 strong wheels	Unit 1
GEBRI	11	Magnetic stirrer with hot plate	Hot plate with magnetic stirrer, up to 20 liters, temperature up to 300C °C, 2000 rpm, provided by safety features	Unit 1
GEBRI	12	Vortex Mixer	Vortex mixer, 3000 rpm, variable speed/time, continuous & touch mode, Adapters for microplates or different tube sizes	Unit 1
GEBRI	13	Orbital Shaking Incubator With cooling and heating function	Digital display for temperature and speed, Integrated timer, Temperature Range: ambient +5 °C to 60° C, Environment: heating and cooling, Temperature Range: ambient +5 Environment: heating and cooling, v Shaking platform size: 31 CM x 31 CM, Shaking movement: Orbital, Shaking speed: 0 to 250 rpm, shaking speed accuracy : ±1 rpm, Orbital motion diameter: 15 mmShaking orbit : 25 mm shaking speed increment: ±1 rpm, RPM Display: LED Display, Exterior: Powder coated steel sheet, RPM Display: LED Display, Interior: Stainless steel 201, Insulation: Glass wool, Air circulation: Air fan, Heater: Tubular air heaters, Cooling: Cooling unite, Temperature controller: Microprocessor PID controller, Temperature controller: Microprocessor PID controller,	Unit 1

رئيس اللجنة ناريو محمد علي عدال
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 عضو: محمد السيد
 كينو: ايهاب جبار
 محمد فتحي
 نوري

				Temperature sensor: ds18b20.v Door: Solid door with rubber gasket & observation window, Illumination: LED light, v Tray: Removable tray to keep petri dishes, Power: 20 volts / 50 Hz		
				Up to three-point calibration with seven memorized buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) and two custom buffers • Calibration time-out alarm • pH calibration using buffers with 0.001 resolution • pH readings with manual or automatic temperature compensation • Large easy-to-read LCD showing the pH or mV and temperature simultaneously, together with graphic symbols • HOLD feature to freeze the stable reading on the LCD Specifications: • Range: -2.00 to 16.00 pH / -2.000 to 16.000 pH \pm 2000 mV 20.0 to 120.0°C (-4.0 to 248.0°F) • Resolution: 0.01 pH / 0.001 pH • 0.1 mV (\pm 999.9) / 1 mV (outside) • 0.001 ppm (0.001 to 9.999) • 0.01 ppm (10.00 to 99.99) • 0.1 ppm (100.0 to 999.9) • 0.1°C (0.1°F) • Accuracy(at 25°C/77°F): • \pm 0.01 pH / \pm 0.002 pH • \pm 0.2 mV up to \pm 699.9 mV • \pm 0.5 mV up to \pm 999.9 mV • \pm 0.4°C (\pm 0.7°F) (excluding probe error) • pH Calibration: Up to 3 point calibration, with 2 custom and 7 standard buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45)	Unit	3
GEBRI	14	pH Meter		Mini vertical SDS-PAGE Protein Electrophoresis Unit features : 8x7 cm or 10x8 cm , durable plastic body, two glass plates (one plain and one notched suitable), and comes equipped with two 12-well combs for protein sample loading. It includes a gel casting unit for easy and leak-proof gel preparation, making it suitable for mini-format vertical electrophoresis applications in protein analysis.	Unit	2
GEBRI	15	Protein electrophoresis unit		(Internal calibration) A Top Quality series of Analytical Balances that combine elegance with highly reliable measuring performance.	Unit	1
GEBRI	16	Analytical Balance (4-digits)				

ڈیپارٹمنٹ سائنسوں کی دہلی

عصمت : صہب الدیب
عصمت : ایمان جبار
محمد قتیل
محمد

			<p>Double case structure, ergonomic keypad, external or internal calibration. Many embedded advanced features make them perfect for use in research lab and quali.control application. Features :</p> <ul style="list-style-type: none"> • Electromagnetic force restoration weighing system • External or automatic internal calibration • LCD with backlight with adjustable contrast • Large glass draught shield with 3 sliding doors for easy access to the items being weighed • Plastic protection cover <p>Technical data :</p> <ul style="list-style-type: none"> • Span drift (+ 10...+ 30 °C): +/- 3ppm/°C • Dimensions LxWxH (mm): 345x215x345 • Weighing chamber dimensions LxWxH (mm): 162x171x225 • Power supply 110-230Vac, 50/60Hz;output 24V 500mA 13VA • (Automatic internal calibration), Capacity(g) : 220, Resolution(g) : 0,0001, Repeatability(g) : 0,0001, Weight: 6,6Kg, Linearity(g) : ± 0,0003 		
GEBRI	17	Spectro-photometer	<ol style="list-style-type: none"> 1.Unique optical system, 1200 lines/mm grating and receiver to ensure its sound performance. 2. PC software expands the capabilities of the instrument includes Photometric analysis, Quantitative analysis, Spectral scanning, Kinetics, DNA/protein analysis, Multi wavelength test, etc. 3.Adopts 51 microcomputer system, and store 200 test data and 100 standard curves; 4.Plug type deuterium lamp and tungsten lamp transfer lamps without optics debugging. 5.Large sample chamber can accommodate 5-100mm cuvettes of all kinds. 6.Auto 8-cell holder -Wavelength Range : 190~1100nm -Spectral 	Unit	1

مركز البحث والتطوير

صوفى: صوفى
صوفى: ايضاً زجاد
محمد قتيبي
محمد قتيبي

			Bandwidth : 1 nm -Wavelength Accuracy : ± 0.3 nm -Photo metric Accuracy : 0.3%T -Photometric Range : 0-200%T, -0.3A~3A		
GEBRI	18	Shaking Incubator	CAPACITY: 60 L Digital display for temperature and speed -Integrated timer -Shaking Motion: Orbital -shaking speed range 20-250 rpm (upto400rpm) - shaking speed Accuracy : ± 1 rpm - shaking speed increment: ± 1 rpm- Shaking orbit : 25mm	Unit	1
GEBRI	19	UPS	Double conversion online UPS technology, (1 KVA / 1000 Watt), 3 level technology for input power factor, up to 0.996, Low THDI (<5%), decrease the pollution to city power, AC/AC efficiency up to 95% , energy saving and low carbon emission, Compliance with RoHS standard , innocuous and environmental friendly, Design in accordance to International EMC, and Safety Standard, Output voltage and ECO mode are selectable via LCD, 1~8A charging current settable via software (6-10k), Maintenance bypass for 6-10KVA, Battery disconnection alarm SNMP or RS485 +dry contact z, Charging voltage temperature, compensation, Minimum 0.05m footprint, Less space required for installation , Get at least 10% more output power for your loads Up to 95% efficiency	Unit	1
GEBRI	20	Micropipette set	0.1-2.5 μ l, 2-20 μ l, 20-200 μ l, 100-1000 μ l single-channel adjustable volume pipettes set:The automatic pipette set includes three adjustable pipettes with volume ranges of 0.1-2.5 μ l, 2-20 μ l, 20-200 μ l, 100-1000 μ l , featuring high accuracy and precision, ergonomic design, compatibility with standard disposable tips, and autoclavable parts for sterilization.	Set	1

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 مهندس محمد قنديل
 مهندس ايمان خان
 مهندس احمد السيد

ALCRI	21	BLOCK-DIGESTION UNIT - 20s	<p>Digestion in aluminium heating block with precise temperature control. (Tube size 20 samples), Heating places 20, Size of tubes [ml] 250/300, Temperature max. [°C] 430, Temperature control accuracy [%] +/- 0.5, Programs 991, Display size [inch"] 2.4, Power consumption [W] 2200, Dimensions W / D / H [mm] 515 / 483 / 728, Weight [kg] approx. 40, Nominal voltage [V] 230 (115), Frequency [Hz] 50 – 60, DELIVERS Digestion tubes 20 x, digestion block 1 x, with two-tier console and operating unit, Insert rack for tubes 1 x, Exhaust manifold with drip tray 1 x, Water jet pump 1 x, Isoversinic-tubing 1.5 m</p>	Unit	1
ALCRI	22	pH, Conductivity, TDS and Temperature bench meter	<p>Microprocessor-based pH, conductivity, TDS and temperature bench meter.</p> <ul style="list-style-type: none"> • Range -2.00 to 16.00 pH /-2.000 to 16.000 pH • ±699.9 mV / ±2000 mV • 0.00 to 19.99 µS/cm; 0.00 to 9.99 ppm • 20.0 to 199.9 µS/cm; 10.0 to 99.9 ppm • 200 to 1999 µS/cm; 100 to 999 ppm • 2.00 to 19.99 mS/cm; 1.00 to 9.99 ppt • 20.0 to 199.9 mS/cm; 10.0 to 99.9 ppt <p>supplied complete with:</p> <ul style="list-style-type: none"> • refillable pH electrode with glass body, BNC connector and 1 m cable • conductivity probe with built-in temperature sensor and 1 m cable • AD7662 stainless steel temperature probe, 1 m cable • pH 4.01 and pH 7.01 calibration buffers (20 ml sachet each) • EC calibration solutions at 1413 µS/cm and 12.88 mS/cm (20 ml sachet each) • 12 Vdc power adapter • User manual 	Unit	1

بیتس الراج: ملینا عمر کے نرسال

عقبو: صلح الراج
 كسو، راهان جاد
 محمد مندیل
 علی لعل

ALCRI	23	Benchtop High-Speed Refrigerated Centrifuge	<p>Cooling centrifuge</p> <ul style="list-style-type: none"> • Rotors included (Rotor Eppendorf, Rotor 12x15 with Adapter 5ml and Rotor 50 mL X 4) • Speed range 0-16000 rpm (adjustable) • RCF Range : 0-17800 g • Time range 1-99 minutes • Temperature range -20 C to +40 C • Control : 5 inch LCD • Power : 220-240V , 50/60 Hz • Weight : 75 kg 	Unit	1
ALCRI	24	Smart PRESSURE Portable Pressure meter with data logger	<p>Display: Touch screen 5inch, Pressure range: 0 - 36 PSI (0 - 2.5 Bar), Pressure Resolution: 0.01 PSI, Pressure Accuracy: ± 0.05 PSI, Standard sensor cable length: 1 meter, Data log: 25 measurements are stored, Date Export: Data can be exported to PC computer via USB cable (Optional), An-corrosion probe, Power: 12V power supply, Package Include</p>	Unit	1
ALCRI	25	Refrigerator (single door cooler)	<p>SINGLE Door Size: 60 cm Vertical Bottle Coolers Temperature range: +1/+10 C</p> <ul style="list-style-type: none"> -Special interior design to provide high loading capacity. -Illuminated canopy option. -Interior lighting to provide perfect product visibility. -Tempered glass door. -A model option able to work with Eco-friendly cooling gas R600a or EYS reducing the energy consumption by 50% on average -Wire condenser that reduces the service cost and is maintenance-free. 	Unit	2

مكتب البحث والتطوير

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صنو: صهر الدبيب
صنو: راضيان جاد
محمد قندل
علي كوزمان

ALCRI	26	Pipette	<ul style="list-style-type: none"> -2 adjustable legs and 2 wheels. -Fan-reinforced air circulation to provide more efficient cooling. -Self-closing door. -Door lock option. -4 strong wheels <p>Automatic Pipette set: 2.0-20 μL, 10 - 100 μL , 100-1000 μL</p> <p>Features</p> <ul style="list-style-type: none"> • Microprocessor Controlled For Efficient Performance Even Under High Loads. • Digital Display With Speed & Time Setting • Lid Lock Safety Feature – Lid Opens Automatically On Run Completion • Variable Speed Selection From 500 To 4000 RPM (In Steps Of 10 RPM) • Imbalance Detection Feature With Auto- Cut Off Safety • One Touch RPM / RCF Conversion & Short Spin Operation Option On Keypad • Favorite Mode: Allows User To Set Upto 99 User Defined Programs • Smart Airflow Design Ensures Chamber Temperature Rise Is Under Control • Low Loading Height For Ease Of Operation. • Safe Low Voltage Device • Centrally placed latch lock for effortless closure • Fix angle Rotor, • Acceleration Time : 45 second • Deceleration Time : 70 second, • Power Consumption : 90 W, • <p>Power Adaptor Details : Input: 100-240 VAC, 50/60 Hz, Output: 24V 5A,</p> <ul style="list-style-type: none"> • Noise Level : \leq65 Db • Environment : For indoor use only, • Rotor 50 ml 	Set	2
ALCRI	27	Centrifuge	<ul style="list-style-type: none"> • Low Loading Height For Ease Of Operation. • Safe Low Voltage Device • Centrally placed latch lock for effortless closure • Fix angle Rotor, • Acceleration Time : 45 second • Deceleration Time : 70 second, • Power Consumption : 90 W, • <p>Power Adaptor Details : Input: 100-240 VAC, 50/60 Hz, Output: 24V 5A,</p> <ul style="list-style-type: none"> • Noise Level : \leq65 Db • Environment : For indoor use only, • Rotor 50 ml 	Unit	1

دروس البحث كالتالي عماد حيدر
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 عماد حيدر
 عماد حيدر

ALCRI	28	Biomedical Freezer	<p>Features</p> <p>Microprocessor controller and digital display. Audible and visual alarm system.</p> <p>Options: datalogger, racks and boxes, 110V/50Hz power.</p> <ul style="list-style-type: none"> • Temperature Range : -20 ~ -40 °C • Ambient Temperature : 10~32°C • Capacity (L/Cu. Ft.) : 268 / 9.46 • Controller : Microprocessor • Display : Digital • Voltage and Frequency : 187~242V, 50/60Hz • Power Consumption (kWh/24h) : 5.2 • Refrigeration Type : Direct Cooling • Defrost : Manual • Interior Cabinet Material : Coated Steel • Exterior Cabinet Material : Coated Steel • Test Hole (pcs) : Φ25mm/ 1 • Fixed / Levelling Castors (pcs) : 4 / 0 	Unit	1
ALCRI	29	Balance (4digits)	<p>Analytical Balance (4 digit)</p> <p>Features:</p> <p>Electromagnetic force restoration weighing system</p> <p>External calibration</p> <p>LCD with backlight with adjustable contrast</p> <p>Large glass draught shield with 3 sliding doors for easy access to the items being weighed</p> <p>Plastic protection cover Specifications:</p> <p>Capacity(g):220 , Readability(g): 0.0001 , Pan Size(mm): Ø 80 , Repeat Ability(g): 0.0003g</p>	Unit	1
ALCRI	30	Mini Gradient Thermal	<p>Single step time range: 1~59m59s (0 is forever)</p>	Unit	1

عینه : ۱۱
 عصر ، املاک جاد
 محمد بن علی
 محمد بن علی

ALCRI	31	Cycler (32-Well)	<p>Temp. range: 4~99.9°C Sample capacity: 32x0.2ml Max. heating rate: 6°C/s Max. cooling rate: 5°C/s Temp. uniformity: ±0.25°C Temp. accuracy: ±0.20°C Temp. display resolution: 0.1°C Temp. control method: Block/Tube Gradient temp. uniformity: ±0.3°C Gradient temp. accuracy: ±0.3°C Gradient temp. range: 30~99.9°C Gradient temp. difference range: 0.1~30°C Hot cover temp. range: 30-110°C Max. steps of the program: 30 Program max. cycle number: 99 Time increment/decrement: -599~+599s Temp. increase/decrease: -9.9~+9.9°C Program pause function: Yes 16°Insulation: Forever LCD: 5-inch, 800x480 Pixel Program storage quantity: > 100 Communication Interface: USB Input power: 2.0 24V, 8A W Dimensions: 200xD.230xH.85mm, Net weight: 3.2k</p>	Unit	1
	120	CM Laminar air flow cabinet	<p>Material: Stainless steel interior, electrostatically painted galvanized sheet exterior. -Filtration System: High-efficiency HEPA H14 filter to capture fine particles.</p>		

عنوان: صومالی
عنوان: امیان جبار
محمد قاسم
محمد قاسم

			<p>-Sterilization: Equipped with a UV lamp for internal air disinfection. -Lighting: Powerful illumination for clear visibility inside the cabinet. -Power Supply: Includes two power sources for stable operation of devices. -Sealing: Fully sealed to ensure complete protection of samples from contamination. -Usage: Provides a clean and sterile working environment to safeguard samples and ensure precise experiments.</p>		
ALCRI	32	Chlorophyll Meter (Portable, Non-Destructive Type)	<p>a portable, non-destructive measuring device for the chlorophyll content of leaves widely used to optimise the timing and quantity of fertiliser to improve crop yields. *Water resistant (IPX-4) *Easy to use clip on sensor *Compact and Lightweight *Trend graph display FEATURES *Simple non-destructive measurements: measurements are taken simply by briefly closing the leaf inside the sensor. If necessary the same leaf can be used each time the measurement is made. *Monitor the nutritional health of crops: SPAD values are proportional to the amount of nitrogen in the leaf so by using regular SPAD readings and trend data, feeding can be optimised. *Small measuring area: the sensor of the SPAD-502Plus is only 2x3mm, suitable for even small or narrow leaves. *Water-resistant (IPX-4): can safely be used outside in wet and rainy conditions (should not be immersed in water).</p>	Unit	1
ALCRI	33	Analytical balances (4	The device features a clear backlit LCD display with a 3-second response time and a capacity of up to 220 g. It offers high readability of 0.0001 g.	Unit	2

دكتورة نادية محمد حسن
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 مديرة المختبر
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		digit)	repeatability of 0.1 mg, and external calibration with automatic self-calibration based on elapsed time or temperature changes. The stainless steel pan is 80 mm in diameter for easy cleaning, with a sliding windshield design.		
ALCRI	34	Digital Hotplate Magnetic Stirrer	Control Digital Fuzzy Control with Timer Safety Over-Temperature Cut-Off, Over Current Cut-Off Material Hotplate – Aluminum /w Ceramic Coating, Body – Aluminum. The device operates on 230V single-phase power with a cast epoxy-coated body. It has a 180x180 mm heating plate and overall dimensions of 180x330x110 mm. It heats up to 400°C with ±0.3°C accuracy at 200°C, offers 0.1°C display resolution, and 0.5°C control resolution. Stirring speed ranges from 80 to 1500 rpm (5 rpm increments), suitable for up to 20 liters of liquid using a magnetic bar up to 50 mm.	Unit	1
ENMRI	35	Analytical balance, 4-digit	<ul style="list-style-type: none"> • Electromagnetic force restoration weighing system • External or automatic internal calibration • LCD with backlight with adjustable contrast • Large glass draught shield with 3 sliding doors for easy access to the items being weighed • Plastic protection cover Technical data : <ul style="list-style-type: none"> • Span drift (+ 10...+ 30 °C): +/- 3ppm/°C • Dimensions LxWxH (mm): 345x215x345 • Weighing chamber dimensions LxWxH (mm): 162x171x225 • Power supply 110-230Vac, 50/60Hz; output 24V 500mA 13VA • (Automatic internal calibration) • Capacity(g) : 220 • Resolution(g) : 0,0001 	Unit	1

عنوان: جامعة الملك سعود
 كمنو : اعمياء جازان
 محمد قنديل
 مكيه

			<ul style="list-style-type: none"> • Repeatability(g) : 0,0001 • Weight: 6,6Kg • Linearity(g) : $\pm 0,0003$ • internal calibration 		
ENMRI	36	Balance	<ul style="list-style-type: none"> • High resolution load cell weighing system • Small footprint, portable • External calibration • Can operate with external power bank (not included: CODE AC015) • LCD with backlight with adjustable contrast • Under hook weighing • Plastic protection cover • Capacity(g) : 2200 g • Resolution(g) : 0,01 • Weight: 2,6Kg • Linearity(g) : $\pm 0,03$ <p>internal calibration</p>	Unit	1
ENMRI	37	Fume Hood	<p>Work zone: high-quality 304 stainless steel.</p> <ul style="list-style-type: none"> ✓ Main Body: Galvanized steel coated with electrostatic powder. ✓ Work area : galaxy marble. ✓ Internal Water tap and sink ✓ Polycarbonate sliding Manual sash 6mm . ✓ LED lighting system. ✓ Blower with controlling the air speed. ✓ External Two electric socket 16A each 1000 Watt . 	Unit	1

رئيس اللجنة تاديو حميد بن سول

15

عينو : صوم الدين
عصوا : لاهيا تا جاد
محمد قنديل
لؤلؤ بن

			<ul style="list-style-type: none"> • Two integrated power outlets, each rated 16A / 1000 W, suitable for standard lab equipment. • Hepa filter H 14 99.995% in MPPS • Applied with pre-filter G4 • Blower with controlling the air speed. • Average airflow velocity: 0.45 m/s at initial setpoint • Polycarbonate sliding Manual sash 6mm . • Support Stand with Caster Wheels 		
ENMRI	41	Rotary Evaporator	<ul style="list-style-type: none"> . Lift Type: Automatic . Condenser Type: Vertical/Horizontal . Cooling Surface Area: 1500 cm² . Rotation Speed (RPM): 20-320 . Vapour Tube: Single piece with Sleeve for Easy Removal . Integrated Combi-Clip: Yes . Suitable flask size (ml): 50-5000 ml . Rotation speed setting: LED Display . Motor Power (W): 60 . Heating Capacity (W): 1300 . Total Power (W): 1360 . Temperature Range (°C): 20 – 210 . Temperature Accuracy (°C): 1 . Overheat Protection: Safety cutoff over +5 (°C) . Temperature Setting: Digital LED . Temperature Control: Electronic PID Control . Secondary Protection Cut off: 250°C . Material Heating Bath: Ceramic Coated . Volume Heating bath (L): 4.5L - Dia 255mm Suitable 50- 5000ml . Bath Position: Flexible to extend, to suit flask size 	Unit	1

دستگاه تبخیر کننده مایع

کسب: محمد قندیل

مسئول: مهندس محمد قندیل

محل: ...

			<p>. Sealing ring: Graphite filled PTFE . Power Supply: 230 VAC, 50Hz</p>		
ENMRI	42	Soil Hydrometer	<p>*ASTM 152H measures in grams per liter (g/L) of suspension *has a range of -5 — +60 g/L, *in 1g/L divisions at 68°F (20°C). *hydrometer comes with a certificate of conformity. certificate of calibration. *Accuracy +/- 1 g/L</p>	Unit	1
ENMRI	43	UPS	<p>Input Voltage: 220/230/240 VAC (Single Phase) Input Voltage Range: ±25% (configurable) Input Frequency: 50/60 Hz Auto Sensing Power Factor (Input): ≥ 0.99 Output Voltage: 220/230/240 VAC Output Power Factor: 0.9 or 1.0 (based on model) Voltage Regulation: ±1% Frequency Stability: ±0.1 Hz (in battery mode) Harmonic Distortion (THD): < 3% (linear load), < 6% (non-linear load) Crest Factor: 3:1 Transfer Time: 0 ms (online mode) Battery Type: Sealed Lead Acid Maintenance Free Battery Backup Time: Depending on load & model (typically 5–30 min, extendable) Recharge Time: 90% capacity within 4–6 hours Display: LCD/LED Display Panel Communication Interface: RS232, USB, SNMP (optional) Protection: Overload, Short Circuit, Over Temperature, Battery Low Operating Temperature: 0°C to 40°C</p>	Unit	2

عصير: احمد العيب
عصير: اميان جابر
محمد بن عبد الله
عبد الله

رئيس اللجنة

				Humidity: 0–95% RH (non-condensing) Noise Level: < 50 dB 1 mete		
ENMRI	44	UV LAMPS		<p>FEATURES:</p> <p>Wavelength [nm]: 254 Filter size [mm]: 145 x 48 Power [W]: 1 x 6</p> <p>The powerful UV lamps from Vilber Lourmat are available in three wavelengths: 254 nm, 312 nm, 365 nm or combinations thereof.</p>	Unit	1
PFDC	45	HPLC C18 chromatography column,		Typically used in Liquid Chromatography with 250mm length, 2.1 mm internal diameter	Column	2
PFDC	46	HPLC Amino chromatography column		Typically used in Liquid Chromatography with 250mm length, 2.1 mm internal diameter	Column	1
PFDC	47	HPLC C8 chromatography column		Typically used in Liquid Chromatography with 250mm length, 2.1 mm internal diameter,	Column	2
PFDC	48	HPLC Cyano chromatography column		Typically used in Liquid Chromatography with 250mm length, 2.1 mm internal diameter,	Column	1
PFDC	49	Magnetic Stirrer with hot plate		<p>Enclosures of stirrers are made of metal painted with powder chemically resistant to acids and alkali. the stirrers are equipped with a detachable stand for supporting various sensor elements (temperature, pH and others) inside the stirred liquid.</p> <p>supplied with a cylinder-shape magnetic stirring bar (6 x 25 mm) for universal use covered with Teflon.</p> <p>Units are equipped with the overheat protection providing an automatic switch-off of the device when overheating for the set</p>	Unit	1

مستأجر: طارق محمد حسن
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 مدير: أماني جبار
 محرمين
 محمد حسن

			<p>temperature difference occurs. Magnetic stirrers with heating for various laboratory operations. Additional protection disables the heating, if the temperature of plate exceeds the set temperature for 30°C. Operation temperature range +4°C to +40°C (from cold rooms to incubators) at maximal relative humidity 80%. Speed control range 250-2500 RPM Average stirring volume (water) 15 litres Plate temperature regulation range +30°C... +330°C Temperature uniformity on the plate ±3°C Working plate heating time till 330°C 15 min Average continuous operation time 200 h Working surface material Aluminium alloy Max. stirring liquid viscosity up to 1170 mPa.s Fault indication Outputs sound signal and turns off the heating Bench top Nominal operating voltage based on the Egyptian code</p>		
<p>PFDC</p>	<p>50</p>	<p>Pipette Controller</p>	<p>Pipette controller for pipetting liquids with the use of measuring pipettes. work with all types of glass or plastic serological pipettes in the volume range from 0.5 ml to 100 ml. Two dispense modes permit selection of dispensing intensity depending on the user's needs. The selected setting of the pipette controller mode is shown on the display. Protected by a PTFE filter blocking any liquid from entering the unit Autoclavable filter, the pipette holder and the nosepiece UV resistant body for safe sterilization</p>	<p>Unit</p>	<p>1</p>

دكتور محمد قنديل
مدير العمليات
مصر : اسيوط جاز
صحة الدلتا

			<p>Powerful, environmentally friendly Ni-MH rechargeable battery enable many hours of continuous work</p> <p>LCD display showing battery charge level</p> <p>Function buttons for SPEED and working MODE control in a reach of a thumb</p> <p>Additional speed adjustment by the pressure applied to the trigger buttons</p> <p>WORKING COMFORT</p> <p>Suitable for glass & plastic volumetric (serological) pipettes 0.5-100 ml</p> <p>Ergonomically shaped handle</p> <p>Well located function buttons</p> <p>Convenient charging stand</p>		
PFDC	51	High Speed Homogenizer probe	<p>processing capacity: 0.2-50 ml</p> <p>- 8G processing capacity: 50-150 ml</p> <p>- 10G processing capacity: 100-250 ml</p>	Unit	1
PFDC	52	Freezer -20 : -40°C	<p>Capacity/cu.ft):at least 358 cubic feet</p> <p>- Temperature range(°F):-25:40°C</p> <p>- Advanced Cooling System: Reasonable refrigeration layout, more stable refrigerant High cooling efficiency and fast cooling speed</p> <p>- Independent & precise control of 2 chambers: one refrigeration unit can realize independent & precise control of upper and lower chambers</p> <p>- Stable and high precise temperature control: Accuracy up to 0.1°C Can run smoothly at the lowest temperature for a long time</p> <p>- Convenient after-sales service:5 years warranty</p>	Unit	1

بیت الیمین تاجہ دیکھو

دوسرے: ہائیڈرو
 عمود: لامپا ڈی جی
 محمد قیصر
 مہرین