



امارت اسلامی افغانستان
وزارت صحـصـت عامه
معینیت غذا و ادویه

د افغانستان اسلامي امارت
د عامې روغتیا وزارت
د خوړو او درملو معینیت



Islamic Emirate of Afghanistan

کمیته موظف خریداری

درخواست نرخ گیری
(Request for Quotation)

برای

تهیه و تدارک 344 قلم ماشین آلات لابراتوار برای ولایات هرات، قندهار، ننگرهار و بلخ

شماره درخواست نرخ گیری :

تاریخ صدور درخواست نرخ گیری: 1403 /

شماره: ف س 9 (پیشنهاد)

اسم شرکت:

آدرس:

تاریخ: 1403

- (1) معینیت غذا و ادویه وزارت صحت عامه تخصیص بودجه لازم برای تدارک اجناس/ خدمات غیر مشورتی مندرج این درخواست را دارد.
- (2) آفر سر بسته شمانتاریخ 1403/ / ساعت 02:00 بعد از ظهر یا قبل از آن به شعبه هیات خاص خریداری ماشین آلات لایراتوار 4 زون کشور، معینیت غذا و ادویه وزارت صحت عامه واقع ده افغانان تسلیم داده شود.
- (3) آفر ها نیکه بعد از میعاد تسلیمی ارائه گردید. بدون اینکه بازشود مسترد می گردد. پاکت حاوی آفر باید به صورت واضح عبارت نرخ قیة و تدارک 344 قلم ماشین آلات لایراتوار 4 زون مورد ضرورت لایراتوار های ولایت هرات، قندهار، ننگرهار و بلخ در بنایی نشانی شده باشد.
- (4) آفر ارائه شده درآفرها باید الی مدت (30) روز تقویتی سر از تاریخ ختم میعاد تسلیمی آفرهااعتبار داشته باشد.
- (5) در صورت تغیر در مقدار نیازمندی، اداره می تواند مقدار نیازمندی تقاضا شده را الی (15) فیصد زیاد و یا کم نماید، مشروط به اینکه قیمت مجموعی آن از حدود صلاحیت پولی برای درخواست نرخ گیری تجاوز ننماید.
- (6) ترجیح داخلی مطابق حکم چهاره طرزالعمل تدارکات قابل اجرا است. {25}% (بیست و پنج فیصد) توفیدات داخلی ارجحیت دارد.
- (7) آفر گشائی درمحضرعام حتمی نبوده و فرمایش دهندة مکلفه قبولنازترین نرخ نمی باشد. در صورت ردهریک یا تمام آفرهافرمایش دهندة کدام مسؤولیت درقبال داوطلب قیة/ارائه کننده ندارد.
- (8) آفر دهندة اسناد ذیل را با آفر خویش ضمیمه می نماید:
- 1- جواز تجارتی/ فعالیت/ کار قابل اعتبار؛
- 2- غیرتشخیصیه مالیه؛ (اختیاری)
- (9) سند نرخ گیری تکمیل و توسط شخص یا صلاحیت یا نماینده قیة/ ارائه کننده در هر صفحه مهر امضاء شده باشد.
- (10) تحویل دهی جنس در مرکز ولایات های ولایت هرات، قندهار، ننگرهار و بلخ می باشد.

نام کارمند صادر کننده درخواست نرخ گیری:

وظیفه کارمند:

شماره تماس:

امضای هیئت خریداری:

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Food and Water Division
Physicochemical Department

قيمت مجموعي	قيمت في واحد	ورالتى نصب و تشغيلك	مقار	واحد	مفخصات لخبكي
		Warranty: 1 year Installation Successful Installation at the laboratory. Training on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Detector: PAID or DAD. Wavelength range (190nm- 800nm). Solvent delivery system: HPLC or UHPLC. Mobile phase: H ₂ O, MeCN, MeOH, etc. Flow rate: 0.1-1.0 mL/min. Pump: a quaternary pump system with the capability of handling 4 solvents as mobile phase. These solvents may be used together or individually in any combination. Flow rate: 0.1-1.0 mL/min. Flow rate accuracy: ± 1 %. Operating pressure: 0-100 MPa. Pump Mode: gradient system or isocratic mode. Oven: Thermostat system (2 °C - 90 °C). The system must be equipped with a degasser. Clear and easy valves and methods for purging must be available. The tools required for the purging must be provided along with the system. Tool fittings must be easy to replace. Tools provided. Appropriate tools for maintenance must be provided. It is preferable to have some leak detection system. Consumables (such as needles, filters) must be provided in the Autosampler. can inject samples into the LC system. Autosampler must be capable of holding at least 100 µL of sample and must allow for programmable automated injection of samples into the LC system without interruption of the run. The autosampler must be able to hold vials (approximately 2 mL) with screw cap and septa that are interchangeable with HPLC vials provided by other vendors. Columns: Standard suitable column with guard column according to the HPLC. A software system controlling all the aspects of the HPLC mentioned above must be provided (original disk or software). The software should have the capability of differential parameters during the run of a sample. The post run data should be available in the same software where the system a run sample must available for analysis. Data analysis software must be available for analysis.




	نادر دینکاد	شماره
HPLC		

		standard chromatogram operations such as area, height, width and percentage estimation. The software system must also allow the easy integration of calibration data into data analysis methods. The software must be able to perform spectral analysis for UV-visible, fluorescence and RI detectors. The software data analysis system must also allow for the integration of UV spectral library information for automatic matching of the peaks with reference spectra, even if this might not be standard features. If this UV spectral matching feature is available. A suitable computer system must be provided for this system that can handle all the operations. UPS system more than 30 min backup. A generic C-18 column must be provided that can separate a mixture of polycyclic aromatic hydrocarbons. A tubing kit and maintenance tool kit must be provided along with the system. ISO 13485, CE, FDA certificates or equivalent		
	1	Each	Beam Splitter, Multilayer Ge coated KBr, Detector, Room temperature DL a TGS module (standard), IR source High intensity, Long lifetime, air-cooled IR source, Wavenumber range, 7800 /cm - 350/cm, Resolution - 0.85/cm, Wavenumber Accuracy: ±0.01 /cm. Necessary accessories. A suitable computer system must be provided for this system that can handle all the operations. Power supply: 220 V - 230 V, ISO 13485, CE, FDA certificates or equivalent.	2

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QCL Lab - Team

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Warranty: 1 year. Installation: Successful Installation at the Laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	PH range: 0 to 14. mv: ± 1999. Accuracy: ±0.02. operating temperature: 5-40 °C. Calibration: 1-3 points automatic calibration with calibration instruction and self-diagnosis. Temp. measuring range: 0 to 100 °C. Power Supply: 100-230 volt . 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent	Bench top PH meter	6
Warranty: 1 year. Installation: Successful Installation at the Laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measuring range: 0.0001g-220g. Readability: 0.1mg. Fare Range: Full. Linearity: 0.2mg, Response Time: 3 sec; Operating Temperature Range: 10° to 16 °C Calibration tools: Standards weights. Power supply: AC 100-240 V , 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Analytical Balance	7
Warranty: 1 year. Installation: Successful Installation at the Laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Fully Automatic Bomb Calorimeter for rapid determination of Gross Calorific Value of food items. Temperature resolution: 0.00010C or Better, Reproducibility Repeatability: <0.1% RSD or better. Unit of measurement: Cal and KJ. Pelletizer: Suitable for pelletizing food samples. Calores Energy Measurement Range: 25 – 10000 Calories or more. Oxygen filling: Automatic. Accessories: Ignition wire. Additional 10 Nos Cotton thread – 1000 Pes Combustion crucible. 25 Pes Bomb – Additional 3 nos NIST certified Benzoic for calibration Any other accessories required for analysis of food samples. Power supply: AC 100-240 V , 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent	Bomb Calorimeter	8

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Hand. Motor lift. hand lift. Height adjustment speed 25 mm/s. Height adjustment 155 mm. Rotation speed: 10—250 rpm. Rotation speed setting: 3.5" LCD display. Drive: motor with electronic speed control. Heating capacity: Temp. range heating bath: 20—210 °C. Temperature control: bath: 1. Overheat protection bath cut-off at 5 °C above set temperature via separate Pt 1000. Bath temperature display: Heating bath temperature control: digital, LCD display. Material heating bath: stainless steel. Dimensions: bath: 255 mm. Volume heating bath: 4.5 L. Flask of 1 liter: yes. Rate of evaporation: 1.5 mmol/h. 3.5 L/h. 2. Condensing surface: 1,200 cm ² . Power Supply: 100—230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	1	Each	Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	
It should be a small foot print battery powered with a LCD display with digital display Measurement of turbidity: 0.001 to 100 NTU. Sample size: 10 ml. Sample type: water, wastewater, oil, etc. Measurement accuracy: water activity: ±0.015% at 25 °C. Measurement point: 1. Relative humidity: 10% to 90% RH. Power Supply: 100—230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	1	Each	Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	

manuall. rpm less DC 1500 W accuracy set line 3.5° ome r heating me 1 L ever 0.1 h.	Rotary vacuum evaporator (it included vacuum pump and water chiller)	9
*HOHQ 7DULK 6D\Ö	Water activity meter	10
single und viscous ermenty and once 1-10 b. 589 nm. Refractive to 75.0° : 0.0004	Abbs digital Refractometer	11

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OCI lab - Team

		Warranty: 1 year. Installation: Successful laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	The system must be closed and microprocessor controlled capable of performing all operations: extraction, filtration of samples for analysis of crude fiber, neutral fiber, neutral detergent fiber, etc. Should have agitator/heat Switch, temperature/timer/clock controller for process parameters and results readout. System should be based on either a fiber bag technology. Should have possibility of analyzing 6-12 samples at a time. Sample size: < 1 gm Measuring range: 0.1 to 100%. Reproducibility: ± 5% at 5% - 30% fiber level. Power Supply: 100-230V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measuring principle: visual. Modes: Transmission, Range 0.1 - 79.9 Red, Yellow, 0.1 - 49.9 Blue; 0.1 - 9.9 Resolution: 0.1 Lovibond® unit. Optical system: 75 mm nylon racks containing a graduated range of Lovibond color glasses. Viewing system: fully adjustable, prism, blue fiber for light standardization. Light source: A act tungsten halogen lamp Illuminant approx: D50, path length: 1" to 1.5" mm (6"). Power supply: AC, 100-230V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.




	Automated fiber analyzer	14
	Laser Doppler velocimeter	7

Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	External dimension (mm): 524x1067x574. Inner dimension (mm): 483x853x560. Dehumidification system: H2O electrolysis discharge by solid polymer electrolyte dehumidification element. Dehumidified ability (When 30% RH is set): Within 8 hours. • Humidity Range: 10 to 60% RH, 0 to 60 °C/10 measurement range 60 %RH. Temperature and humidity sensors: • Temperature/humidity elements, humidity/resistance type low humidity measurement sensors. Area of dehumidifying element: about 49 cm². Temperature and humidity display accuracy: ±1 °C. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Digital Dry Desiccator	16
Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	TLC Plate Cutter size: 200x200 mm. Drying Rack: 10 TLC plates with the formats 200 x 200, 200 x 100 and 200 x 50 mm. Simultaneous Separating Chamber: The vertical grooves in the transverse walls should hold up to five 200 x 200 mm TLC plates. Desiccator Opener: This opener should be suitable for all sizes of desiccators. Thin Layer Chromatography Filter Paper: Capillary Dispensing Pipettes: The pipettes should fill automatically when they are dipped into the sample liquid. Micro Capillaries: Their accuracy should be better than 1%. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Thin Layer Chromatography (TLC)	17

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		Warranty: 1 year. Installation: Successful laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	A measuring method: Infrared heat drying mass method Sample pan size: ø130 mm Minimum display in weighing: 0.001 g Measurement range of moisture content: 0.01% to 99.99% Moisture content minimum display: 0.01% Maximum sample capacity: 120g Measurement mode: Automatic or Timed halting modes, Rapid, Slow, Hold modes, Predictive Measuring mode Drying heater: Mid-wave infrared quartz heater Setting temperature range: 30 °C to 180 °C (by 1 °C increments) Dimensions & weight: W220xD415xH190 (mm), 4.5 kg Operational temperature and humidity range: 5 °C to 40 °C, 85% a RH maximum Standard accessories: Sample pan 2 pcs, sample pan windbreak case, sample pan, handler 2 pcs, alarm pes, spoon, spatula, power supply: AC 100-240V ISO 13485, CE, FDA certificates or equivalent
		Warranty: 1 year Installation: Successful laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Temperature range: -12 ~ 24 °C, Capacity Range: Door Swing: Left Hinge, Double-Swing, Power V, 50/60 Hz, ISO 13485, CE, FDA certificates




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	Step drying	18
09,000 ^a Percent	Electron moisture balance	
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Sheet 29 100% Zn		
Public feel. y. 100-250 valent.	Freezer (-20)	19

	1	Each	It should be a small foot print battery powered with a single eyepiece with digital display Measurement of liquid, and viscous samples, regardless of their turbidity, viscosity, transparency and absorption. Measurement prism: Optical glass. Light source: LED (Approximating to wavelength of D-Line). Wavelength: 589 nm, Scale: Refractive Index & Brix. Measurement Range: Refractive Index (ND): 1.3000 to 1.7000 Brix: 0.00 to 95.00% (5 to 75 °C, ATC). Measurement Accuracy: Refractive Index (nd): 0.0004 Brix: 0.03%. Temperature control range: 5.0 to 75.0 °C. Calibration standards: Calibration block: 1 No and contact solution (1-Bromonaphthalene) and any other standard solutions. Power Supply: 100-230 V, 50/60 Hz. ISO 13485 CE, FDA certificates or equivalent	Digital Refractometer	20
	1	Each	Dedicated this Parameters: Fat, Protein, Lactose, Total Solids, Solids non-fat, Freezing Point (milk only) Feature and Specification: Consumption: 12V, 5A, - 60 W Ambient Temperature: 5 - 35 ° Ambient Humidity: < 80 RH Noise Level < 70 dB, Measuring range: 0-48 % Fat, 0-6 % Protein, 0-5g % Total solids, 0-12 % SNF, 0-6 % Lactose Accuracy: 0.2 % CV* on major raw cow Milk components (Fat, Protein, Lactose, Lactose, Total Solids, solids nonfat). Repeatability: 0.2 % CV* on major raw cow Milk components (Fat, Protein, Lactose, Total Solids, solids nonfat), ≤ 0.5 % CV* on major raw cow Milk components (Fat, Protein, Lactose, Total Solids, solids nonfat), Analysis time: 1 min. for milk, Sample volume: 0 ml Sample temperature: 5 - 40 °C, Average testing sample: 70 samples/hr. Power supply: (100 to 240V) V - 50/60 Hz. ISO 13485 CE, FDA certificates or equivalent.	Milk Analyzer	21

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Ultrasonic Temperature Power Certificates	Ultrasonic Bath	22
Ultrasonic Power Certificates	Optical Laboratory Slides	23
Ultrasonic Power Certificates	UV Chamber	24

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Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Max. flow rate: 20 l/min. Capacity: 300 ml. 1000 ml Filter diameter: 47 mm. 50 mm. Effective filtration area: 1.1 cm² Filter funnel: PES. Waste bottle: Borosilicate 1000ml glass (with drain). Funnel lid: PP. System, complete set includes: VP-17, Vacuum Pump, MF 31, Filtration Set, Silicone Tube (1m) Power Supply: 100-230 V, 50/60 Hz. ISO 13485 (CF, FDA) certificates or equivalent.	Vacuum Filtration System	25
Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Viscosity range: 0.5 mPa - 70000 mPa. Accuracy: 0.1%. Balls 1 and 2: Boron Silicate (Glass). Balls 3 and 4: Nickel n.c. Balls 5 and 6: Steel Ball time of measurement: 30-300 seconds. Operating temperature: +5 °C- 150 °C. Sample tube volume: 4ml. Viscometer, dimension: 130x220x330 mm. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Rolling ball Viscometer	26
Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Application: liquid and semi solid mixer homogenizer. PLC automated touch screen control, jacketed process vessel for temperature controlled processing Capacity: 1 L (Model 1160A) 1.3 Ltr). Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Homogenizer	27

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		Warranty: 1 year. Installation: Successful laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Sieve diameter: 200 mm. Quantity of sieve: 1 frequency 1400r/min. Exciting force: 3 K.N. Motor: Motor: Vertical vibration motor. Accessories: Motor & Rods (model: STXVSS8). Power Supply: 110V Hz. ISO 13485, CE, FDA certificates or equivalent
		Warranty: 1 year. Installation: Successful laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Special medium length Ts 10x18 thermometer C; Accuracy: ±0.2°C, volume size: 50 ml. Power: 750 W, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent
		Warranty: 1 year. Installation: Successful laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Automated (operating system with LCLD) data without manual alignment can connect PC with RS-232C Measurement Range: Concentration 0.95%, Resolution: 1.2800—1.7000. Automatic Temperature Control: 1.2800—1.7000. Resolution: 0.01°C 0.0001. Measurement Accuracy: Butyro: ±0.5% Fat: 1 ±0.0003 (at 40°C). Power Supply: 100-230 V 50/60 13485, CE, FDA certificates or equivalent.
	30			Total Number of Device	

Microbiology Department

ذرائعی و نصب و تربیتی	مقدار	واحد	مشخصات فنی	نام دستگاه	شماره
Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Standard version, working space: 1135x570x570mm. Includes radial fan, illumination, differential pressure indicator, pre-filter HEPA filter. For bench mounting. ISO 13485, CE, FDA certificates or equivalent.	Vertical Laminar Flow Bench	1
Warranty: 1 year Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measuring range: 0.0001g-220g. Repeatability: 0.1mg. True Range: Full. Linearity: 0.2mg. Response Time: 3 sec. Automatic Internal Calibration, PC Interface, USB, Certification Certificate with calibration weight set. Operating Temperature Range: 10° to 40 °C. Power supply: AC 100-240 V 50/60 Hz ISO 13485, CE, FDA certificates or equivalent	Analytical Balance	2

	قيمت في واحد	*HOHQ 7DULK 6D\Õ		
	قيمت مجمل			



QCI Lab - Team




		Warranty: 1 year. Installation: Successful laboratory Training: on site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Capacity : 150 L., Temp. Range: - 9- 60°, Temp. at 20°C. Temp. Fluctuation: ± 1 °C. Maximum time for hours. Display: LCD. Humidity Range: 50-90 % RH. Supply: 100-230 volt, 50/60 Hz. ISO 13485, CE, TCF certificates or equivalent.
		Warranty: 1 year. Installation: Successful laboratory Training: on site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Cabinet (Material of construction): Cabinet shall be fabricated from 18 SWG sheet metal with polyurethane coated finish and bottom will be supplied with AS coated modular stand which can be adjustable for leveling legs or motorized. External surfaces to be antimicrobial coating to protect against surface contamination and inhibit bacterial growth. Interior work area to be single piece of stainless-steel with large radius corner cleaning. The cabinet work area must have a fixed which collect contaminants or not. Front door to be clear 5 mm thick Toughened glass. A control should be touch Motorized operation, while opening the door it will be cut "OFF" And while closing the door it will be "ON". Automatically, Side Panels, both the side and from double layered outer GI & inner stainless steel with air plenum in between. Edges should be performed of room air into the work zone and exit of contaminants

e made from anation: when: ighth acity of mulation hood es to simplify eld units, Nhsol rib-entel y pump up will be s are made with return- avoid entry ed air in to	Incubator	"
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the room and such contaminated air is sucked through this full height perforation at the edges of the sidewalls. A recessed central area with drain pan to contain spills and prevent liquids from entering the lower filtration unit. The BSC shall be ergonomically designed for maximum user comfort and adjustability. Fail-safe system to ensure that in case of exhaust failure, the cabinet's main fan automatically shuts down to ensure safety to the user. Air Balancing : 100% Exhaust & 0 % Recirculation. Direction of flow: Vertical. HEPA Filters: Type: Separator less type. Mini-Pleats HEPA Media. Media: Ultra clean glass fiber paper. Retention: 0.3 Micron Efficiency: 99.997%. Initial Pressure: 12 mm W.G. Grade: H14 rating. Real-time display panel for remaining Filter. ISO 13485, CE, FDA certificates or equivalent.			
Chamber: Vertical loading type chamber with service basket. Chamber size: 80 - 120 L. Gauges: Should have a water level gauges. Display: Fully Automatic PID control $\pm 0.1^{\circ}\text{C}$. LED display for temperature and remaining time. Operating temperature 10°C . Temp accuracy ± 0.5 at 121°C operation. Ing pressure $15-20^{\circ}\text{C}$. Timer: Automatic start and stop timer. Must have safety warning alarm. Must have necessary accessories. Must be with calibration certification. ISO 13485, CE, FDA certificates or equivalent.	1	Each	Vertical Autoclave
Speed Range: 50 rpm to 2000 rpm. Stirring Capacity: 4L. temperature range: 80-380 $^{\circ}\text{C}$. Maximum load: 12 to 20 KG. Body Material : Polypropylene. Corrosion resistant surface and panels. A design that prevents liquid spillages from entering the instrument. Digital Output connectivity. RS232. Retort stand attachment(s). Set safety temperature limit displayed digitally. Power supply: AC 100-240 V , 50/60 Hz. ISO 13485, CE. FDA certificates or equivalent.	1	Each	Hot Plate with Magnetic Stirrer

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QCL Lab - Team

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1	Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Capacity: 12 L. Material of construction: Transparent, unbreakable polycarbonate jar. Unit: Jar should be provided with pressure -cum -vacuum gauge attached to the lid. Jar should be ideal for all strict anaerobic test conditions. Lid should consist of O-ring gasket. It should be provided with petri dish (100 mm diameter) carrier/SS rack, Schrader valve and screws to connect to vacuum pump. Vacuum pump: Suitable oil free vacuum pump for the system. Accessories: Catalyst/gas pouch startup kit, Anaerobe indicator tablets, Lid, complete with clamp and screw, O-rings. Power supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	8	Anaerobic system with anaerobic jar
1	Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Capacity: 5 L with easy cleaning facility. Material of construction: Body should be compact, durable, leak proof and made of stainless steel heavy duty plastic. Unit: It should be compatible with all disinfectant solutions usual concentration. It should be compatible with maximum pH range (both acid and alkali). The equipment should be of good quality and conform to national international standards. Power supply: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent	9	Incubator
1	Warranty: 1 year. Installation: Successful Laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Temperature range: 50-300 °C. Chamber volume: 100 L, walls stainless. Power supply: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	10	Incubator

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QCL Lab - Team

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QCL Lab - Team

	Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Counting Chamber. Constructed entirely of glass should contain a 15x20mm rectangle that is flat to the shoulders on each side to support cover glass. It should Cover glass should have optically plane surface. It should calibration of microscope. Eyepiece micrometer. 10x squares (grid), each of which is equal to 1/6 of the flat eyepiece diaphragm opening. Cover slips: 7mm diam 0.5mm 2 Nos. Thick 28mm x 23mm x 1.0mm 2 Nos. Supply: AC 100-230 V, 50/60 Hz. ISO 13485 certificates or equivalent.
	Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Vollum : 20 L. Temperature range: 15-100 °C Resolution Ratio: 0.1 °C. Power: 2 kW. 110-230 V should be work in electricity voltage and frequency 230V, 50/60Hz. ISO 13485. CE, FDA certificates or equivalent.

VD\ÖÖÖ (OHNNWURQLN ØPJD LOH LPJDODQPÖúWÖU Warranty: 1 year. Installation: Successful on installation at the Laboratory Training: on- site comprehensive training for a minimum of 2 weeks	1	Each	All-Glass Filter Holder: With borosilicate glass funnel and base, anodized aluminum spring clamp, silicone stopper, coarse-fine glass filter support and PTFE-faced funnel and base for 47 mm, 60 mm & 25mm disc filters. Stainless Steel Vacuum Filter Holders: Analytical Filter Holders For 25-, and 47-mm disc filter. Filtering Flasks: Side arm connects to vacuum source with 3/8in. I.D. hose, 1 L and 1 L flasks accept no. 8 perforated stopper, 125 ml. flask accepts no. funnel dimension: 100 ml, 5 stopper. Filter Forceps: Highly polished stainless-steel forceps blades with beveled, un-serrated tips. Oil less vacuum pump. Flow rates of up to 37 L/min. Membrane Filters: Filters 47mm, 90 mm and 25 mm for Aqueous solvents & Hydrophobic solvents. Power supply: AC 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Laboratory Micro Filtration Unit	19
	19	Total Number of Device			

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UJI lah - Team

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1. Sample 2. Reference 3. Lot 4. Batch 5. Quantity 6. Unit 7. Weight 8. Volume 9. Temperature 10. Humidity 11. Pressure 12. Time 13. Date 14. Signature 15. Initials 16. Remarks 17. Inspector 18. Supervisor 19. Witness 20. Signature 21. Initials 22. Remarks 23. Inspector 24. Supervisor 25. Witness 26. Signature 27. Initials 28. Remarks 29. Inspector 30. Supervisor 31. Witness 32. Signature 33. Initials 34. Remarks 35. Inspector 36. Supervisor 37. Witness 38. Signature 39. Initials 40. Remarks 41. Inspector 42. Supervisor 43. Witness 44. Signature 45. Initials 46. Remarks 47. Inspector 48. Supervisor 49. Witness 50. Signature 51. Initials 52. Remarks 53. Inspector 54. Supervisor 55. Witness 56. Signature 57. Initials 58. Remarks 59. Inspector 60. Supervisor 61. Witness 62. Signature 63. Initials 64. Remarks 65. Inspector 66. Supervisor 67. Witness 68. Signature 69. Initials 70. Remarks 71. Inspector 72. Supervisor 73. Witness 74. Signature 75. Initials 76. Remarks 77. Inspector 78. Supervisor 79. Witness 80. Signature 81. Initials 82. Remarks 83. Inspector 84. Supervisor 85. Witness 86. Signature 87. Initials 88. Remarks 89. Inspector 90. Supervisor 91. Witness 92. Signature 93. Initials 94. Remarks 95. Inspector 96. Supervisor 97. Witness 98. Signature 99. Initials 100. Remarks 101. Inspector 102. Supervisor 103. Witness 104. Signature 105. Initials 106. Remarks 107. Inspector 108. Supervisor 109. Witness 110. Signature 111. Initials 112. Remarks 113. Inspector 114. Supervisor 115. Witness 116. Signature 117. Initials 118. Remarks 119. Inspector 120. Supervisor 121. Witness 122. Signature 123. Initials 124. Remarks 125. Inspector 126. Supervisor 127. Witness 128. Signature 129. Initials 130. Remarks 131. Inspector 132. Supervisor 133. Witness 134. Signature 135. Initials 136. Remarks 137. Inspector 138. Supervisor 139. Witness 140. Signature 141. Initials 142. Remarks 143. Inspector 144. Supervisor 145. Witness 146. Signature 147. Initials 148. Remarks 149. Inspector 150. Supervisor 151. Witness 152. Signature 153. Initials 154. Remarks 155. Inspector 156. Supervisor 157. Witness 158. Signature 159. Initials 160. Remarks 161. Inspector 162. Supervisor 163. Witness 164. Signature 165. Initials 166. Remarks 167. Inspector 168. Supervisor 169. Witness 170. Signature 171. Initials 172. Remarks 173. Inspector 174. Supervisor 175. Witness 176. Signature 177. Initials 178. Remarks 179. Inspector 180. Supervisor 181. Witness 182. Signature 183. Initials 184. Remarks 185. Inspector 186. Supervisor 187. Witness 188. Signature 189. Initials 190. Remarks 191. Inspector 192. Supervisor 193. Witness 194. Signature 195. Initials 196. Remarks 197. Inspector 198. Supervisor 199. Witness 200. Signature 201. Initials 202. Remarks 203. Inspector 204. Supervisor 205. Witness 206. Signature 207. Initials 208. Remarks 209. Inspector 210. Supervisor 211. Witness 212. Signature 213. Initials 214. Remarks 215. Inspector 216. Supervisor 217. Witness 218. Signature 219. Initials 220. Remarks 221. Inspector 222. Supervisor 223. Witness 224. Signature 225. Initials 226. Remarks 227. Inspector 228. Supervisor 229. Witness 230. Signature 231. Initials 232. Remarks 233. Inspector 234. Supervisor 235. Witness 236. Signature 237. Initials 238. Remarks 239. Inspector 240. Supervisor 241. Witness 242. Signature 243. Initials 244. Remarks 245. Inspector 246. Supervisor 247. Witness 248. Signature 249. Initials 250. Remarks 251. Inspector 252. Supervisor 253. Witness 254. Signature 255. Initials 256. Remarks 257. Inspector

1	Each	Range: 0-1000 NTU. Principle of Operation: Nephelometric Automatic Range Selection: 0.01 to 19.99 NTU, 20.0 to 99.9 NTU, 100 to 1000 NTU. Accuracy: $\pm 2\%$ of reading ± 1 digit for 0 - 500 NTU. Calibration: 4 points. Calibration Kit set 3 sample vials. Display: Digital LfD. Detector: Photo Diode. Power supply: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	6	Bench top Turbidity meter
1	Each	Wavelength range: 420-660 nm. Filter: 420 nm, 470 nm, 530 nm, 620 nm & 660 nm. Detector: silicon photo-cell. Photoelectric range: T%:0-100%, Abs log F 0-2. Light source: tungsten lamp. Indicator: LfD. ISO 13485, CE, FDA certificates or equivalent.	7	Benchtop colorimeter
1	Each	Temperature range: 50-300 °C. Chamber volume: 100 l walls: stainless. Power supply: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	8	Dry Oven
1	Each	Speed Range: 50 rpm to 2000 rpm. Stirring Capacity: 4L. Temperature range: 80-380 °C. Maximum load: 15 to 20 Kg. Body Material: Polypropylene. Corrosion resistant surface and panels. A design that prevents liquid spillages from entering the instrument. Digital Output connectivity: RS232. Retort stand attachment(s). Set safety temperature limit displayed digitally. Power supply: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	9	Hot Plate with Magnetic Stirrers

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QCL Lab-Team

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		Warranty: 1 year Installation: Successful Training: on-site comprehensive training for a minimum of two scientific personnel operating the system		1 Each	Measurement Range: 0-5 mg/L, free or total Accuracy: +0.03 mg/L, Limit of Detection: 0.03 mg/L Resolution: 0.01 mg/L, Power supply: AC 60-240 Hz, ISO 13485, CE, FDA certificates of equivalence
		Warranty: 1 year Installation: Successful Training: on-site comprehensive training for a minimum of two scientific personnel operating the system		1 Each	CaCO ₃ range: 20-350 mg/L, Ca range: 5-140 mg/L range: 3-50 mg/L, Application: 1 or raw (undistilled) drinking water, surface water, Power supply: AC 50/60 Hz, ISO 13485, CE, FDA certificates of equivalence
Total Number of Device					
10					

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g/L, ml/g ed water. 100-240 V equivalent.	Drinking water hardness test	1
mg/L, 240 V, 50/60 ent.	Chlorin Analyzer	10

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مقدار	واحد	مشخصات فنی	نام دستگاه	شماره
1	Each	Detector: Flame ionization detector (FID). Oven: single airless oven. Oven temperature range: RT to 350°C Accuracy: ± 0.02 °C Sample: vapor or liquid Calibration: Comparison with external standard manual or automatic Injection system: gas injection valve and liquid injection valve Software: Full traceability through the archiving of results and quality control Programming and control of alarm thresholds Data transfer via communication protocols Columns type: capillary. Full online control of pressure and flow Measuring response: Sensitivity: $\pm 0.5\%$ of span Linearity: $\pm 0.5\%$ of span Repeatability: $\pm 1\%$ Sampling and valves: Diaphragm valves, diaphragm piston valves, sliding vane rotary valves, slider valves, or board injection valve Auto sampler for liquid injection Heid syringe adapter Rinse with two different solvents Rack of samples: at least 60 positions for capacity 1.2 ml vials. Column: Standard and suitable column with guard column according to the HPLC system: Gas supplier Nitrogen compressed gas cylinder, purity 99.998%. Helium compressed gas cylinder, purity 99.998%	GC	

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QCI Lab - Team

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0 T/C plates in 100 m Pa able for all thermogr Micro 3000	Thin Layer Chromatography (H.C.T.)	1
er both er: SLOs rough Optical cision : led for this ply: AC 100 or equivalent	Atomic Absorption Spectrophotometer	1
Tare Range: atic Internal e with e: 10° to 40 85, CE.	Analytical Balance	1

1 Maximum number of samples per test: 6. Temperature precision $\pm 0.5^\circ\text{C}$. Solvent recovery %: Up to 80. External dimensions L x D x H mm: 680 x 330 x 580. Accessories: Extraction thimbles set. Extraction vessel test. Main fields of application (food, pharmaceutical, chemical and cosmetics) Power supply: (100 to 240V) V - 50/60 Power. ISO 13485, CE, FDA certificates or equivalent.	1 Each	Soxhlet Extraction	5
2 Hand / Motor lift, hand lift. Height adjustment speed: manual. Height adjustment: 155 mm. Rotation speed: 10 - 280 rpm. Rotation speed setting: 3.5" LCD display. Drive: brushless DC motor with electronic speed control. Heating capacity: 1300 w. Temp. range heating bath: 20 - 210 $^\circ\text{C}$. Temperature accuracy bath: ± 1. Overheat protection bath, cut-off at 5 $^\circ\text{C}$ over set temperature via separate Pt 1000. Bath temperature control: electronic LCD display. Heating bath temperature control: electronic digital. Material heating bath: stainless steel. Diameter heating bath: 255 mm. Volume heating bath: 4.5 l. Timer: yes. Rate of evaporation: Ethanol: 3.5 l/h. Water: 1.2 l/h. Condensing surface: 1,200 cm². ISO 13485, CE, FDA certificates or equivalent.	1 Each	Vacuum Rotary Evaporation (it includes vacuum pump and water chiller)	6
3 Speed Range: 50 rpm to 2000 rpm. Stirring Capacity: 4l temperature range: 80-380 $^\circ\text{C}$. Maximum load: 15 to 20 KG. Body Material: Polypropylene. Corrosion resistant surface and panels. A design that prevents liquid spillages from entering the instrument. Digital Output connectivity, RS232. Rebot stand attachment(s). Set safety temperature limit displayed digitally. Power supply: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	1 Each	Hot Plate with Magnetic Stirrer	7
4 Volume: 20 L. Temperature range: 15-100 $^\circ\text{C}$ Temperature Resolution Ratio: 0.1 $^\circ\text{C}$. Power: 2 KW. The proposed units should be work in electricity voltage and frequency of 220v - 230v, 50/60Hz.	1 Each	Water Bath	8

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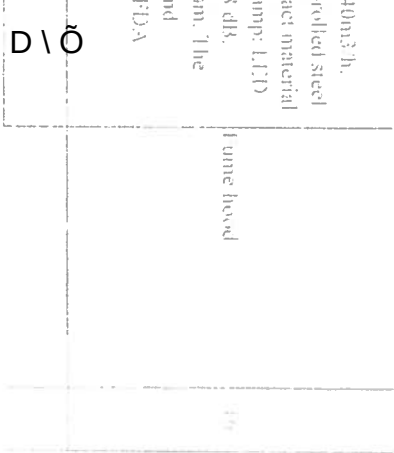
1.00 L. walls; ISO 13485.	Dry over	1.3
length: 230 8- th 620mm and astrol 5 C to 450 NABL Fully plate: 6 well plate, up to 99, EL, F10A	ELISA Ready with Plate Wash	1.4

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*HOHQ 7DULK 6D\Ö



Food and Water Accessorie and Kits

ردیف	دپارتمنت	مقدار	مشخصات فنی	نام دستگاه	تاریخ
1	All Dep	1	Capacity: 250 ml. Holder: Ceramic Wich. Cap: Plastic Snuff	Alcohol Burner	1
2	All Dep	1	Height: 8.5in (216mm). Inlet: 5/16in (7.9mm) OD serrated gas. high-temperature unit for use with an extremely hot flame and forms uniform blue heat cones with no backlash. with one-piece unit has a nickel-plated venturi 1.5in (38mm) mixing tube with monel grid and mesh backing, a knurled adjustment valve, an octagonal base. or equivalent.	Gas Burner	2
3	All Dep	2	Percentage Purity: 99%. Thickness: 0.3mm. Temper: Hard. Length: 7m. Width: 0.30m . Technical Name: or equivalent.	Aluminum foil	3
4	All Dep	2	made of polychloroprene, approx. 31 cm long, anatomical shape with good gropeability, sanitised, cotton lined, patterned for a non-slip grip, cotton flocked, high abrasion resistance, resistant to many chemical substances such as acids, bases and organic oils and fats as well as bacteriological contamination, glove can be used universally for laboratory, trade and industry, excellent abrasion resistance and thereby very long service life, size 7.5, 8, 9 and 10. or equivalent.	Chemical Protective Gloves	4

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قيمت مجموعى					

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QCL-Lab Team

	pcs	All Dep	4	Lens Thickness: 3mm. Lens Size (Vertical): 60mm, 1.49psi (Horizontal): 140mm. Overall Length (lens edge): 182mm (Approx.). Strap Length: 240mm (Approx.). Height: 27mm Width: 88mm. or equivalent.
	Each	All Dep	8	Material: Polypropylene. Color: red. Easy to clean. Resists acids and alkalis. Quick-Release for up to 25ml. Price: 9.99 or equivalent.
	Each	All Dep	50	Size: Medium. Colour: blue. Dimension L x W x H (mm) 85x85x24. Volume (ml): 85. or equivalent
	Each	All Dep	50	Size: Medium. Colour: White. Dimension L x W x H (mm) 108x185x26. Volume (ml): 260. or equivalent
	Each	All Dep	8	Shape: Pointed end, blunt end. Length (Metric): 15 cm. Stainless Steel or equivalent.
	Each	All Dep	8	Dimensions: 335 x 35 (25) x 6 (1.0) mm. Material: stainless steel or equivalent.
	Each	All Dep	8	Capacity: 250 ml. Dimensions: 60x60x160 mm. or equivalent.
	Each	All Dep	4	Capacity: 500 ml. Dimensions: 90x90x190 mm. or equivalent.
	set/12	All Dep	4	Hard nylon bristles on twisted C.I. wire, head 140 x 60 mm overall length 400 mm. or equivalent.
	pcs	All Dep	4	Water dip, 45mm soft bristles, 65 x 420 x 65mm. Max 500 or equivalent.
	box (100 pcs)	All Dep	4	Volume Range: 0.5-20 µl. Length: 46 mm. The tip is not graduated at 2 µl and 10 µl for quick volume check. Color: blue or equivalent.

Size	100g	5
Material	Aluminum	6
Weight	Manual Pipette Filler	7
Volume	Measuring Bowl	8
Capacity	Measuring Bowl	9
Material	Stainless Steel	10
Weight	Measuring Bowl	11
Volume	Measuring Bowl	12
Capacity	Measuring Bowl	13
Material	Stainless Steel	14
Weight	Measuring Bowl	15

11/30/2024

100 pcs) All Dep	4	Volume Range: 50-1000 µl. Length: 70 mm. The tips should be graduated at 250 µl, 500 µl and 1000 µl for quick volume check Color: blue or equivalent.	16	Micropepette tips
All Dep	4	Included a box + 1 bar retriever (150 mm). Cylindrical bars: () 3 x 12 mm, Ø 4.5 x 15 mm, Ø 6 x 20 mm, Ø 6 x 25 mm, Ø 6 x 30 mm, Ø 8 x 40 mm, Ø 8 x 50 mm, Ø 9 x 60 mm, Ø 9 x 70 mm, () 10 x 80 mm, cylindrical with rings: () 5 x 15 mm, Ø 6 x 25 mm, Ø 8 x 40 mm, triangular: Ø 8 x 25 mm, Ø 12 x 50 mm or equivalent	17	Magnetic stirrer bars set
100 pcs All Dep	2	No: 41. Material: Circles cotton filters. Parameter: 0.22 psi wet burst 54 sec 160 mL speed. Diam: 125 mm, thickness: 220 µm. Pore size: 20-25 µm or equivalent.	18	Whatman Filter paper
100 pcs All Dep	2	No: 42. Material: Circles cotton filters. Parameter: 0.22 psi wet burst 54 sec 100 mL speed. Diam: 125 mm, thickness: 220 µm. Pore size: 2.5 µm or equivalent.	19	Whatman Filter paper
100 ml) All Dep	4	PH: 4.0 (25 °C in H2O). Grade: Certified reference material. Quality Level: 33. Format: Mixture storage temp: 15-25 °C or equivalent.	20	Buffer solution
100 ml) All Dep	4	PH: 7.0 (25 °C in H2O). Grade: Certified reference material. Quality Level: 33. Format: Mixture storage temp: 15-25 °C or equivalent.	21	Buffer solution
500 ml) All Dep	4	PH: 10.0 (25 °C in H2O). Grade: Certified reference material. Quality Level: 33. Format: Mixture storage temp: 15-25 °C or equivalent.	22	Buffer solution
All Dep	2	Length (Metric): 200 mm. Material: Stainless Steel. Tip Style: Sharp/Round or equivalent.	23	Laboratory Scissors
184		Total Number of Items		

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Medicine Department Accessorie and Kits

قيمت مجزئي	قيمت في واحد	واحد	تقدير قيمت	مقدار	وصف تفصيلي
		Each	Physic-Chemistry; Microbiology, Water- Chemistry, Toxicology	3	Capacity: 250 ml. Holder: 2.5 in; Plastic Snuff, or equivalent.
		Each	Physic-Chemistry; Microbiology, Water- Chemistry, Toxicology	3	Height: 8.5in (216mm); Inlet: 1.7-9mm) OD serrated gas, 1/2 in. unit for use with an external, 3/8 in. forms uniform blue heat resistant, blackish with one-piece, replaced venturi 1.5in (38mm) with metal grid and mesh adjustment valve; an octagonal equivalent.
		rolls	Physic-Chemistry; Microbiology, Water- Chemistry, Toxicology	7	Percentage Purity: 99% 1.001 1 imper. Hand Length: 7 in. Technical Name: Aluminum or equivalent.
		rolls	Physic-Chemistry; Microbiology, Water- Chemistry, Toxicology	7	width: 5 cm length: 75 in 3/4 in. gm. Liquid impermeable with permeable; Temperature range: 10 °C or equivalent.
		rolls	Physic-Chemistry; Microbiology, Water- Chemistry, Toxicology	7	width: 10 cm, length: 75 in 3/4 in. gm. Liquid impermeable with permeable; Temperature range: 10 °C or equivalent.

QCL-Lab Team

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شماره	نام دستگاه	
1	Alcohol Burner	1
2	Gas Burner	2
3	Aluminum foil	3
4	Paraffin tape	4
5	Paraffin tape	5

pair	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	made of polychloroprene, approx. 31 cm long, anatomical shape with good gripability, sanitised, cotton lined, patterned for a non-slip grip, cotton flocked, high abrasion resistance, resistant to many chemical substances such as acids, bases and organic oils and fats as well as bacteriological contamination, glove can be used universally for laboratory, trade and industry, excellent abrasion resistance and thereby very long service life, size 7.5, 8, 9 and 10 or equivalent.	Chemical Protective Gloves	9
pair	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	Versio: Five-finger glove, length 310 mm, Size 10, or equivalent.	Heat- and chemical gloves	7
box (100 pcs)	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	50	Colors: Milky White, Size: M Type Powdered or equivalent	Latex gloves	8
box (100 pcs)	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	50	Colors: Milky White, Size: L Type Powdered or equivalent	Latex gloves	9
bag (100 pcs)	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	250	Material: Non Woven, Elastic, Double Cotton, White, Weight (g/m ²): 102 ± 2g, Size: 12 inch or equivalent	Flame net	10

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11 Laboratory safety shoes 30 pairs, 41, 40	12 12 pairs, 41, 40	13 13 pairs, 41, 40	14 14 pairs, 41, 40	15 15 pairs, 41, 40	16 16 pairs, 41, 40	17 17 pairs, 41, 40	18 18 pairs, 41, 40	19 19 pairs, 41, 40	20 20 pairs, 41, 40	21 21 pairs, 41, 40	22 22 pairs, 41, 40	23 23 pairs, 41, 40	24 24 pairs, 41, 40	25 25 pairs, 41, 40	26 26 pairs, 41, 40	27 27 pairs, 41, 40	28 28 pairs, 41, 40	29 29 pairs, 41, 40	30 30 pairs, 41, 40	31 31 pairs, 41, 40	32 32 pairs, 41, 40	33 33 pairs, 41, 40	34 34 pairs, 41, 40	35 35 pairs, 41, 40	36 36 pairs, 41, 40	37 37 pairs, 41, 40	38 38 pairs, 41, 40	39 39 pairs, 41, 40	40 40 pairs, 41, 40	41 41 pairs, 41, 40	42 42 pairs, 41, 40	43 43 pairs, 41, 40	44 44 pairs, 41, 40	45 45 pairs, 41, 40	46 46 pairs, 41, 40	47 47 pairs, 41, 40	48 48 pairs, 41, 40	49 49 pairs, 41, 40	50 50 pairs, 41, 40	51 51 pairs, 41, 40	52 52 pairs, 41, 40	53 53 pairs, 41, 40	54 54 pairs, 41, 40	55 55 pairs, 41, 40	56 56 pairs, 41, 40	57 57 pairs, 41, 40	58 58 pairs, 41, 40	59 59 pairs, 41, 40	60 60 pairs, 41, 40	61 61 pairs, 41, 40	62 62 pairs, 41, 40	63 63 pairs, 41, 40	64 64 pairs, 41, 40	65 65 pairs, 41, 40	66 66 pairs, 41, 40	67 67 pairs, 41, 40	68 68 pairs, 41, 40	69 69 pairs, 41, 40	70 70 pairs, 41, 40	71 71 pairs, 41, 40	72 72 pairs, 41, 40	73 73 pairs, 41, 40	74 74 pairs, 41, 40	75 75 pairs, 41, 40	76 76 pairs, 41, 40	77 77 pairs, 41, 40	78 78 pairs, 41, 40	79 79 pairs, 41, 40	80 80 pairs, 41, 40	81 81 pairs, 41, 40	82 82 pairs, 41, 40	83 83 pairs, 41, 40	84 84 pairs, 41, 40	85 85 pairs, 41, 40	86 86 pairs, 41, 40	87 87 pairs, 41, 40	88 88 pairs, 41, 40	89 89 pairs, 41, 40	90 90 pairs, 41, 40	91 91 pairs, 41, 40	92 92 pairs, 41, 40	93 93 pairs, 41, 40	94 94 pairs, 41, 40	95 95 pairs, 41, 40	96 96 pairs, 41, 40	97 97 pairs, 41, 40	98 98 pairs, 41, 40	99 99 pairs, 41, 40	100 100 pairs, 41, 40
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Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	Capacity: 150 ml. Ideal for a wide variety of grinding application in the Lab. Diameter: 83 mm. Long about 95 mm. or equivalent	Mortar and Pestle	16
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Materials: Polypropylene. Rotary rack with solid base for safe standing. Rotary base and protects the pipettes' tips. 94 openings with different diameters for graduated pipettes and volumetric pipettes of all sizes or equivalent	Pipette racks	17
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Color: white Material: Acrylic. Capacity: 8 pipettes or equivalent	Acrylic Pipette Stand	18
each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Volume: 1-25 ml. Color: red Material: natural rubber or equivalent	Graduated Pipette Bulb	19
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Material: Polypropylene. Color: red. Easy to clean. Resistant to acids and alkalis. Quick Release for up to 25ml. Pipettes or equivalent.	Universal Pipette Filler	20
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	High-Grade Stainless Steel. Shelves, Adjustable shelves, providing flexibility in storing containers of varied sizes. Doors Lockable. Size (WxDxH): 34-Inch x 31-Inch x 65-Inch, or equivalent.	Reagent Cabinet	21

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pack (100 pcs)	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Material: Low density polyethylene. Size: 3 ml. or equivalent.	Dropper	30
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Sturdy metal rod. Chemically-resistant base. Perfect for distillation, titration, filtering, & more. or equivalent.	Ring Stand (retort stand)	31
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	hold burettes from 10 to 100 ml. square clamping mechanism. insert burets. release to hold securely. made of aluminum with white enamel finish. attaches to support rods up to 17 mm diameter. or equivalent	Double Buret Clamp	32
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Material: Stainless Steel Item dimensions: LxWxH: 8 x 5.25 x 24.5 inches Color: Blue. Metallic Rod: 24 Inch. Use for Glass Funnel Stand or Test Tube Holder. or equivalent	Lab Support Ring	33
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Type: Laboratory Test Tube Clamp Material: Stainless steel/Nickel-plated Brass Length (Metric): 13 cm. or equivalent	Test Tube Clamp	34
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Material: Polypropylene. Diameter: 90 mm. Capacity: 300 ml. Small perforations for better filtration efficiency: 90-100 or equivalent.	Buchner funnels	35
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	Material: Glazed porcelain. Temperature resistance: use up to 1050° C. Dimensions: 38 mm high x 55 mm. Lid fits loosely or equivalent.	Crucible and Cover	36

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	Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	material: ceramic, can withstand temperatures, or equivalent.
	Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	Diameter: 100 mm. Product can be used in applications in evaporative cooling glass. Product color translucent equivalent.
	Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	Capacity: 100 ml. Diameter: 100 mm, height: 40mm. Material: porcelain and glazed inside or equivalent.
	pair	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	-	Heat Resistant: 200 °C (392 °F) or equivalent.
	Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	1	Size: 6x6 inch. Shape: 80 x 80 x 3 mm. Material: Aluminum or equivalent.
	Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	20	Size: 600mm. Color: 70 x 100 x 11 mm. 85 x 85 x 21 mm or equivalent.
	Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	50	Size: Medium. Color: 108 x 183 x 206 mm. 108 x 183 x 206, or equivalent.
	Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	-	Shape: Pointed end, blunt end (Metric) 15 cm. Material: or equivalent.

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and extreme	Clav. Framek	2
use: The slightly r some uids, Material: on or	Wash Glass	18
approximately ly-stable easycleaning	Exporating Push	19
ip	Hot Min	20
Thickness: 2- equivalent	Wire Gauge	21
Injection T/A ne (mL): 85	Weighing Tool	22
Dimension L Volume (mL):	Weighing Tool	23
Length less Steel or Scoop) (Metal Scoop)		24

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pack (15 pcs)	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	2	Dimension (LxWxH mm): 127.71 x 85.43 14.10 columns; rows: 12.8 Bottom: round, or equivalent.	96 well plate	15
pack (10 pcs)	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Length (Metric): 250 mm, Tip type, Rounded autoclavable at 121°C or equivalent	Forceps	16
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Temperature Range: -10 to 100°C Division: ≤2 °C Type: Mercury-in-Glass, Length: 16 cm or equivalent	Thermometer	17
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Dimensions: 333 x 33 (25) x 6 (1.0) mm Material: stainless steel or equivalent	Rule	18
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Dimensions: 1000 x 25 x 1.5 mm Material: Polycarbonate or equivalent	Polycarbonate Stirring Rods	19
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Capacity: 250 ml, Material: Polyethylene Mouth Diameter: 38mm Graduations Increments: 100ml, or equivalent	Stirring Rod	20
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Capacity: 250 ml, Dimensions: 60x60x160 mm, or equivalent	Squeeze Wash Bottle with Squeeze Cap - Wide Mouth - Polyethylene	21
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Capacity: 250 ml, Dimensions: 60x60x160 mm, or equivalent	Wash Bottle	22
Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Capacity: 500 ml, Dimensions: 90x90x190 mm, or equivalent	Wash Bottle	23

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			Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Size: 10 inch, Overall Height: 16mm, Overall Width: 16mm, Material: Carbon Steel or equivalent
			Each	Medicine physiochemistry	14	Size: Universal, Large Jar O.D. 21mm-38mm, Small Jar O.D. 18mm-20mm, or Custom
			Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	Product Size: 52mm x 83mm, Neodymium magnet holds up Premium Stainless Steel Jar with
			Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	14	Material: Stainless Steel, Size: Material: Stainless Steel Product Dimensions: 2.04"W x 3.21"H
			Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Material Type: Stainless Steel, professional: Portable 1000ml Beverage Drink Dispenser
			Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	Material: High Density Polyethylene (capable of Meeting 20 L/min), Size: 36" x 165 x 485 mm
			Each	Physic-Chemistry, Microbiology, Water-Chemistry, Toxicology	7	For filter paper dia (mm) or plastic or equivalent.
			pcs	All Dep	7	floating protection band, water protection band waveband

365mm at High	Uniformity	54
cap with For cap with then	MTL11: FUNCTIONAL VIAL OPTIMR	55
High one opened or equivalent	Push Vent Pop Magnetic Bottle Opener	56
solid blade et equivalent	Stainless Steel Abrasive (30 Sawyer	57
in contact with equivalent	Crystalline	58
system visions of A A equivalent	Male Neck Irritant with Th colored connector	59
150 tubular 150	Panel with internal	60
and flange equivalent	Leaking Protection and waveband	61

PCS	All Dep	7	Fittings, filter valve, With FFP-2 and FFP-3 levels Application: For use in pharmaceutical and medical laboratories and clean rooms or equivalent	Respiratory protection mask	63
set 12	All Dep	7	Hard nylon bristles on twisted G.I wire, head 140 x 65 mm, overall length 160 mm or equivalent	Brush for round bottom flask	63
PCS	All Dep	7	Product: Dimensions: 15 x 0.75m (320 x 19mm) LW or equivalent	Laboratory Brush set	64
PCS	All Dep	7	Wet/dry dip, 4.5mm soft bristles, 6.5 x 120 x 6.5mm Max 50 x or equivalent	Van brush (Viduan Hand Brush)	65
roll	All Dep	7	Backing: impregnated white paper Adhesive: Dry natural rubber and resins Length: 50m Width: 19mm Total thickness: 0.135mm Tensile strength: 85 N/25 mm Adhesion to steel: 7 N/25 mm Elongation: 5% Sterilization conditions: 15 min/ 121°C / 10 min / 131°C Indicator colors: Light green to medium dark green Expiration: 30 months or equivalent	Sterilizer indicator tape	66
Box (100 pcs)	All Dep	7	Volume: Range 0.5-20 µl Length: 46 mm The tips should be graduated at 2 µl and 10 µl for quick volume check (color gray or equivalent).	Micro pipette tips	67

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70 mm 1.500 µl 6'000"	Microplate tips	68
2mm Bottom 1.000"	Permanente gel	69
Microplate channel		70
Aluminum shims		71
Whatman filter paper		72

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pack/100 pcs	All Dep	7	No. 41, Material: Circles cotton filters Parameter: 0.22 psi wet burst 5 l sec 100 ml speed, Diam: 125 mm, thickness 270 µm, Pore size: 20-25 µm or equivalent	Whatman filter paper	73
pack/100 pcs	All Dep	7	No. 42, Material: Circles cotton filters Parameter: 0.22 psi wet burst 5 l sec 100 ml, speed, Diam: 125 mm, thickness 270 µm Pore size: 2.5 µm or equivalent	Whatman filter paper	74
pack/100 pcs	All Dep	7	Pore size: 0.45 µm, Material: Mixed cellulose esters, Diameter 47 mm or equivalent.	Membrane filter paper	75
pack/100 pcs	All Dep	7	Pore size: 0.45 µm, Material: Nylon Diameter: 30 mm or equivalent	Syringe filter, Nylon Syringe 100 ml	76
pcs	Toxicology and Physico- chemistry	7	Material: Stainless Steel Stpl, Mesh Size: 18 mesh test sieves, Diamet.: 70 mm, Height: 60 mm or equivalent.	Plastic Remasseter	77
pcs	All Dep	7	Measurement ranges: 0 to 101 °C, 30 to 100 °C, Resolution: 0.01 °C, 0.1 °C Accuracy: ±2.0 °C, at 25 °C, ±0.5 °C at 35 °C, Display: dual LCD or equivalent.	Digital Thermom Hygrometer	78

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	Each		10	7	Display: Digital 1.6" Diagonal Power: Dimensions (L x W x H) x 140 mm, 150 Steps Check, Data Battery: 1x LR14 With Rechargeable Review go to function manual equivalent
	Each	Toxicology and Physico-chemistry	2	2	Measuring range: 0 to 1000 mg/L overall length around 250 mm equivalent.
	Bottle (500ml)	All Dep	7	7	PIE: 4.0 (2.5 x 1.5 x 1.5) (mm) reference material: 1.0 ml (1.0 g) Format: Absence: storage: 1000 L equivalent.
	Bottle (500ml)	All Dep	7	7	PIE: 7.0 (2.5 x 1.5 x 1.5) (mm) reference material: 1.0 ml (1.0 g) Format: Mixture: 10 to 1000 L equivalent.
	Bottle (500ml)	All Dep	7	7	PIE: 10.0 (2.5 x 1.5 x 1.5) (mm) reference material: 1.0 ml (1.0 g) Format: Mixture: storage: 1000 L equivalent.
pes	All Dep	7	7	Length: 100 mm Steel, Tip Style: Sharp Round	

Two Way 30.1 x 12.3 Side Keys & Auto Lock	Cellular	79
Class A Acrobatic/Hydro craft	80	
Class B Acrobatic/Hydro craft	81	
Class C Acrobatic/Hydro craft	82	
Class D Acrobatic/Hydro craft	83	
Class E Acrobatic/Hydro craft	84	

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roll	All Dep		Range: 1-14, Pack Size: 5m x 7mm Reel or equivalent	PH Indicator papers	85
box/set	All Dep	1	Path length mm: 10, Type: Macro with lid Material: glass, Absorbance in the Visible range at 440nm, 465nm, 516nm, 590nm and 635nm wavelengths, Wavelength in the UV and visible range at 279.3nm, 366.0nm, 435.5nm, 536.5nm and 637.6nm or equivalent.	Spectrophotometer Calibration Standards	86
box (4 pcs)	All Dep	1	Polished Window: 2, Capacity: 1.5gpl Outside Dim. (mm): 45 x 13 x 13.5, Path Length (mm): 10, Inside Width (mm): 10 or equivalent.	Standard UV quartz cuvette with lid	87
pcs	All Dep	7	Plate size: 80 x 75 mm, Max. Sample Load Capacity: 30 kg, Working height: 100 - 117 cm, Color: blue or equivalent.	Packs (Box)	88
Each	All Dep	7	Capacity: 40 L or equivalent	Roll pedal bin	89
each	All Dep	7	Maximum usable capacity: 10 L, Material: PP, With handle or equivalent	Pure water storage tanks	90
each	All Dep	7	Maximum usable capacity: 25 L, Material: PP, With handle or equivalent	Pure water storage tanks	91



					Print Method: Direct thermal transfer, Display: LCD with touch screen, Connectivity: Ethernet, 2.2 USB Host, Wireless: Bluetooth, Type: Desktop, Size: 11p to 5 ips (127 mm/s), Max. Print Length: 180 RAM, 1 MB SDRAM, Keyboard: Standard keyboard or equivalent
	etch	All Dep		1	Volume: Range: 0.5ml-50ml, pressure max: 500mmHg, Vial: 10mm ² s, Temperature max: 100mm ² s or equivalent
	etch	All Dep		2	Used in many organic and inorganic solutions. Materials in contact with the instrument should be resistant to most acids, solvents, and bases. Available at 121°C (12.5°C), DIN EN 185, ppm threaded, with a pressure, suction tube, no air flow, quality certificate and instructions. Sealed volume 1-10 ml, with a (1.25, 0.28, 0.12, 0.05, 0.02, 0.01) telescopic, aspirating tube 1.0-0.00 available for sale in Spain

Serial RS- connectivity? min. speed: min. Width: min.	Label printer	1
Print density: min. density: min.	Printed process	0.5
Resolution: min. resolution: min.	Resolution: 1000 x 1000	0.5

pack	All Dep	7	Size: 1000 x 1000mm, 3-ply material, Fire blanket to extinguish fires, Two layers of woven fibre glass and a fire retardant inner, Clearly labelled PVC wallet or equivalent	Container for fire blanket, fibreglass	95
each	All Dep	7	Capacity: 4.5 KG, Fire rating: 4A:60B:E, Discharge Time: 19sec, Product Dimensions (H X Cyd O): 480mm X 145mm or equivalent.	Powder fire extinguisher	96
each	All Dep	7	Capacity: 4.5 Kg, CO2 fire extinguisher: 10 sec, Height: 140 mm, Diameter: 140 mm, Empty weight: 12.4 kg, Operating temperature: -30- (+60), Test pressure: 250 bar or equivalent.	CO2 fire extinguisher	97
each	All Dep	1	Washing Capacity (kg): 18, Drying Capacity (kg): 11, Door: Tint Door, Panel Display: AI Control, Spin Speed: 1100 rpm, Noise control: VRT Plus™ technology, Bubble technology, Net weight: 97 kg or equivalent.	Clothes washing Machine	98

1218	Total Number of Items
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QCL-Lab Team

Medicine Devision

Physicochemical Department

مشتقات نفتیکی	واحد	مقدار	وراثتی، نصب و تربیتینگ	قیمت فی واحد	قیمت مجموعی
Detector: PAD or DAD, Wavelength range (190nm- 800nm) The DAD detector must have a flow cell that can be easily cleaned if necessary. Pump: a quaternary pump system with capability of handling 4 solvents as mobile phase. These may be used together or individually or in any combination rate: 0.001 - 10ml/min, flow rate accuracy $\pm$ 1 %. Operating pressure: lower than 60 MPa. Pump Mode: gradient, isocratic mode. Column (Vvent, ThermoScan system $\pm$ 2 %). The system must have an in-built degasser. Clean and maintain methods for purging must be available. The tools for the purging must be provided along with the system. The must be easy to operate with the tools provided. Appropriate for maintenance must be provided. It is preferable to have leak detector system. Some spare consumables (syringes, filters) must be provided initially. Autosampler: can inject samples into the LC system with sample volumes ranging from 0.1 microliter to 100 microliters. The autosampler must be capable of holding at least 100 vials at a time and can be programmable automated injection of these vials into the LC system with an interruption of the operation. The autosampler must be able to hold vials (approximately 1.5 ml. vials) and septa that are interchangeable with standard HPLC vials and provided by other vendors. Columns: Standard and special column with guard column according to the HPLC system software system controlling all the aspects of the HPLC system mentioned above must be provided (original disk or DVD).	Each	1	Warranty: 1 years. Installation: Successful Installation at the laboratory. Training: on-site comprehensive training for a minimum of two scientific personnel operating the system		





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		Warranty: 1 years. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system		
	2	Each		Photometric system: Double beam . Wavelength range 190 - 1100 nm. Wavelength accuracy : ± 0.02 nm Source : Halogen Lamp, Deuterium Lamp, Special Bandwidth: 1 nm. Scanning Speed 10 - 8000 /min supply: AC 100-240 V , 50/60 Hz. ISO 13485. CE certificates or equivalent.



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ge: Juli	
Power PDA	
UV-Vis Spectrophotometer	

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1	Each	Basket: autobasket type A and type B Temperature: 15-50 °C. Screen: touch screen. Lift drive: step motor. Speed: 30 +/- Height of stroke: mm): 55 +/- 2. Heating: Integrated flow through heating system. Temperature control: External PT 100 temperature sensor. Automatic determination of the disintegration time: Autobasket type A (6 test tubes) or Autobasket Type B (3 test tubes plus discs). Power Supply: AC 100-230 V , 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Automated disintegration tester	4
1	Each	Test-stations: 14 in two row. Vessel capacity: 1000 ml. Low-head and high-head operations. Evaporation: Less than 1 % (50 rpm / 1000 ml / 37° C / 24 h). Heating range: 30-50° C. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Dissolution tester	5
1	Each	Instrument Operation: Touch foil keypad. Rotation speed: 20 - 100 +/- 1rpm. Total run timer: Infinitely adjustable up to 9 h., 59 min., 59 sec. +/- 0.1. Revolution counter: Infinitely adjustable up to 9999. Displays: LC. Test drums: 2 (TAR 220). Automatic removal of tablets. Voltage: 100 - 240 V / 50 - 60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Friability tester	6

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	Warranty: 1 years. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Air velocity: 0.3-0.8 m/s. System exhaust volume: 1140m³/h. Max opening: 750 mm. Exterior material: 1mm cold-rolled steel with bacteria powder coating. Interior material: compact material board with glue and alkaliresistance function. Lamp: LED (40W). Surface height: 900mm. Noise level: ≤68 dB. Exhaust PVC standard length: 4.3 meters. 300mm. The 1000 units should be work in electricity voltage and its life of 220V - 230V, 50/60Hz. ISO 13485, CE, FDA certificates or equivalent.
	Warranty: 1 years. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	pH range: 0 to 14, mV: ±1.00V, Accuracy: ±0.02, operating temperature: 5-40 °C. Calibration: 1-3 points automatic calibration with calibration instruction and self-checking Temp. measuring range: 0 to 100 °C. Power Supply: 230 volt, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.
	Warranty: 1 years. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Measuring range: 0.0001g-3mg. Readability: 0.1µg. Range: Full. Linearity: 0.2mm. Response Time: 3.0s. Automatic Internal Calibration. PC Interface, USB. Calibration Certificate with calibration weight set. Operating Temperature Range: 10° to 40 °C. Power: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.

1	Fume hood	7
2	Benchtop pH meter	8
3	Analytical Balance	9

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1	Each	Temperature range : 50-300 °C, Chamber volume: 100 L, walls: stainless. Power supply: AC 100-240 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.	Drying Oven	10
1	Each	Tank capacity: 8 L, Tank size (mm): 300x240x150, Ultrasonic Power: 200 W, Heating power: 300 W, Heating Temp: 0-80 °C, Time setting: 1-99 min, Display: Digital RED LED, Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.	Ultra Sonic Bath	11
1	Each	It should be a small foot print battery powered with a single Eyepiece with digital display Measurement of liquid, and viscous samples, regardless of their turbidity, viscosity, transparency and absorption. Measurement prism: Optical glass, Light source: LED (Approximating to wavelength of D-I line), Wavelength: 589 nm, Scale: Refractive Index & Brix, Measurement Range: Refractive index (nD): 1.3000 to 1.7000 Brix: 0.00 to 95.00% (5 to 75 °C A TC), Measurement Accuracy: Refractive Index (nD): 0.0004 Brix: 0.03%, Temperature control range: 5.0 to 75.0 °C, Calibration standards: Calibration block: 1 No and contact solution (1-Bromonaphthalene) and any other standard solutions. Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.	Abbs digital Refractometer	12

Warranty : Installation Installation laboratory site complete training for of two scientific personnel operating the		
Warranty : Installation Installation laboratory site complete training for of two scientific personnel operating the		
Warranty : Installation Installation laboratory site complete training for of two scientific personnel operating the		

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		Warranty: 1 years. Installation: Successful laboratory training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	RPM range: 50-5000 RPM. Increment range: 5 RPM. facility 1 min to 1.5 min or beyond. Rotor capacity: 1.2g (5 - 15 ml). Rotor type: fixed angel rotor. Power: 500W 230 volt, 50/60 Hz. ISO 13485, CE, FDA certificates equivalent. Complete Programmable each parameters
		Warranty: 1 years. Installation: Successful laboratory training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measuring method: Infrared heat drying mass measurement Sample pan size: ø130 mm Minimum display in weighing: 0.001g Measurement range of moisture content: 0.01% to 100.00% Moisture content minimum display: 0.01% Maximum sample capacity: 120g Measurement mode: Automatic or Timed halting modes. Rapid. Slow drying modes. Predictive Measuring mode Drying heater: Mid-wave infrared quartz heater Setting temperature range: 50°C to 180 °C (by 1°C increments) Dimensions & weight: W220xD415xH190 (mm), 4.5 Kg Operational temperature and humidity range: range 5 °C to 40°C, 85% RH maximum Standard accessories: Sample pan 2 pcs, sample pan windbreak case, sample pan, handler 2 pcs, aluminum sheet 20 pcs, spoon, spatula. Power supply: AC 100- V, 50/60 Hz. ISO 13485, CE, FDA certificates equivalent.

mer have (00)	Digital Control Centrifuge	13
Step 240	Electronic moisture balance	11

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		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Design Ignition: Must designed in strict accordance with the test method ASTM D93, Method A and B. A high movement of head for closing and opening of the (10) Microprocessor controlled unit with digital easy to read display of the results. Ignition: Electric ignition facility should also provide an automatic reignition facility. Electric Ignitor should be encapsulated. Detection: Thermal detection (with metal sample temperature of the flash to eliminate interference from water or silicone containing compound. Measuring Range: 100 point Ambient to 350 °C or more. Heating System rate: 0.5 °C to 12 °C/min. Heating should be microprocessor controlled at the specified rate. Temperature Measurement: Rugged metal and insulated Pt 100 probe with built-in calibration, min 5 calibration points. Temperature calibration: Resistance checked, temperature calibration with calibration certificate from ISO 17025/NABL, accredited laboratory. Sample Stirrer: Automatic stirrer test method or user-defined from 0 rpm to 250 rpm or more ISO 13485, CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Display type: Built-in-Display. Measuring range for dynamic viscosity: 0.2 to 30000 mPas. Measuring range for kinematic viscosity: 0.2 to 30000 mm ² /s. Measuring range for density: 0.65 to 2.5 gm/cm ³ . Accuracy: Viscosity: 0.5% of measured value or better Density: 0.001 gm/cm ³ or better Repeatability: 0.010C or better Standards: NIST traceable Viscosity and Density standards each at various temperatures. Control system: Interchangeable x USB, 1 Ethernet 1 x CA Bus, 1 x RS-232, 1 x VGA, 1 x Spindle/Speed combination: 18 or more ISO 13485, CE, FDA certificates or equivalent.

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Melting Point Apparatus	15
Viscosimeter	17

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		Warranty: 1 year. Installation: Successful laboratory Training, on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Speed range: 30-400rpm, Heavy duty maximum Power Supply: 100-230 V, 50/60 Hz, ISO 13485, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful laboratory Training, on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measurement Range: 0 to 100 % r.h., -30 to 100 °C. Resolution: 0.01 % r.h., 0.01 °C; Accuracy: +/- 0.2 % r.h., 25 °C, +/- 0.5 °C at 25 °C; Response time % r.h. 30 sec. (90 % @ 25 °C air temp.) Power Supply: AC 1500 VA, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful laboratory Training, on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measuring range: 0-3g /cm³; Temperature range: 0-100 °C. Pressure range: 0 to 10 bar; Density accuracy: +/- 0.001 g/cm³. Resolution: 0.0001 g/cm³; Wetted part: Borosilicate glass, PTFE. Minimum sample volume: 1 ml. Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.

and 6kg CFE	Orbital Laboratory Shaker	20
Heat about 10 -2.23V val: 11	Hygro meter	21
1.5 35. C.F. Density meter	Density meter	22

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		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Temperature range: -12 to 24 °C. Capacity: Range: cubic feet. Door Swing: Left Hinge. Double-Swing Power Supply: 100-230 V, 50/60 Hz. ISO 13485 FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Height: 68 in. Depth With Door Open 90 Degree Depth: 31 in. Capacity: 17. Cabinet Width: 28.0 in. Refrigerator Volume: 13.66 cu ft Door Style: 6 Panel Handle Material: Plastic Location of Controls: Right Top Front. Delt Drawer: 1 Flexi-Slide Bin. Door Type: Fixed Full-Width. Lighting: LED. Features: 1 LED Lighting. EZ Connect IceMaker Kit Compatible. 17.5 cu ft Slide Bin. Humidity-Controlled Crispers. ISO FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Speed Range: 200 to 3000 rpm. Material: Rubber Platform. Dimensions (L x W x H): 8.1 x 5.9 x 120.5 x 15.1 x 13.1 cm. Timer Range: 1 to 99 min Continuous. Power Supply: 100-230 V, 50/60 Hz. ISO 13485 FDA certificates or equivalent.

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Freezer (-20)	25
Refrigerator	26
Digital walla price	27

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1	Each	Capacity: 500 mL, Units: 6, Speed Range: 0-1200 rpm, Total watts: 1800 W, Dimension HxWxL (mm): 210x300x1200, Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.	Floating Manifold	28
1	Each	Max. flow rate: 20 L/min, Capacity: 300 mL / 1000 mL, Filter diameter: 17 mm / 50 mm, Effective filtration area: 13.1 cm², Filter: funnel, pt/S, Waste bottle, Borosilicate 1000ML, glass (with drain), Funnel lid: PP, System, complete set includes: VP-17, Vacuum Pump, MF 31, Filtration Set, Silicone Tube (1m), Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.	Vacuum Filtration System	29
1	Each	Measuring Range: 0-150 millimeter or 0-6 inch, Resolution: 0.01 millimeter or 0.0005 inch, Repeatability: 0.01 millimeter or 0.0005 inch, Maximum measurement speed: 1m/s 150-13485, CE, FDA certificates or equivalent.	Digital Vernier Caliper	30

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		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	It should be a small foot print battery powered with a single Eyepiece with digital display Measurement of liquid, and viscous samples, regardless of their turbidity, viscosity, transparency and absorption. Measurement of prism: Optical glass, Light source: LED (Approximate to wavelength of D-I-line). Wavelength: 589 nm. Scale: Refractive Index & Brix. Measurement Range: Refractive index (nD): 1.3000 to 1.7000 Brix: 0.00 to 95.00% (1 75 oC ATC). Measurement Accuracy: Refractive Index (nD): 0.0004 Brix: 0.03%. Temperature control range: to 75.0 oC. Calibration standards: (calibration blocks) and and contact solution (1-Bromonaphthalene) and all standard solutions. Power Supply: 100-230 V, 50/60 Hz ISO 13485, CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Temperature Range: 5 to 40°C. Humidity: 0 to 80% relative humidity. Viscosity limit: < 50 cP. Sample Clearance: 153 mm. Volume Accuracy: > 95% Sample Flow Rate: 10 to 100 ml/min. PharmSpec 3 Software/Processor: 1.0 GHz or faster processor Operating System: Windows 10 Enterprise 64-bit. Memory: 2GB of RAM). Standard Sensors range: 24 600 um (chemical compatibility). Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent

Digital Refractometer 11	*HOHQ 7DULK 6D\O 12
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		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system.	1	Each	Maximum number of samples per test: 6. Temperature precision °C: ± 0.5. Solvent recovery %: 1p to 80. External dimensions: L x D x H mm: 680 x 330 x 280. Accessories: Extraction thimbles set. Extraction Cass- test. Main fields of application (food, pharmaceutical, chemical and cosmetics). Power supply: (100 to 240V 50/60 Hz.
		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system.	1	Each	Volume: 20 L. Temperature range: 15-100 °C. 1 sample Resolution Ratio: 0.1 °C. Power: 2 KW. The proposed units should be work in electricity voltage and frequency of 220v - 230v - 50/60Hz. ISO 13485, CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system.	1	Each	Capacity: 10 Lit. (operating temperature: 0 to 40°C). Accuracy: ± 0.1 °C. Resolution: ± 0.1 °C. The proposed units should be work in electricity voltage and frequency of 220v - 230v - 50/60Hz. ISO 13485, CE, FDA certificates or equivalent.

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Sonnet Extractor Apparatus	36
Water Bath	37
Ice Bath	38

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1	Each	Application: acid-base titration, redox, precipitation, complexation, dead-stop, Karl Fischer moisture method of determination; potentiometric, dead-stop and Karl Fischer ISO 13485, CE, FDA certificates or equivalent.	Automatic Titrator	30
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		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Max Irradiance: 250 mW/cm ² . Wavelengths: 365 nm, 395 nm, 405 nm. Electrical Power Input: ~ 100W Main Supply: 100-240V AC. Interior Dimensions: 200mm x 300mm x 360mm. Power Supply: 100-230 V, 50/60 Hz ISO 13485 (CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measurement range: 3 - 500 N (±1 N). Measurement range: Diameter, Length (2 - 23mm (±0.05mm), 2 - 23mm (±0.05mm)). Thickness Measurement range: 2 - 10mm (±0.05mm). Weight Measurement range: 0.02 - 12.4g (±0.0001 g). Width Measurement range: 2 - 15mm (±0.05mm). Measurement principle: constant speed 3.00mm/sec. constant force Measurement principle: 200 200 N sec. Power supply: 100 - 240 V / 50-60 Hz. Hardness testing of up to 5 parameters for all kind of tablets. Parameters: Hardness testing. Weight. Thickness. Diameter/Length. Width. Display: Touch. Separation drum/ Vibrating separation system. Alignment threshold (adjustable). Alignment threshold (electronic, adjustable). Positioning arm for oblongs. Oblong Navigator. ISO 13485 (CE, FDA certificates or equivalent.

44

Total Number of Devices





85	mm (IV) Chankya	40
42	mm (IV) Chankya	40
41	mm (IV) Chankya	40
40	mm (IV) Chankya	40
39	mm (IV) Chankya	40
38	mm (IV) Chankya	40
37	mm (IV) Chankya	40
36	mm (IV) Chankya	40
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32	mm (IV) Chankya	40
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15	mm (IV) Chankya	40
14	mm (IV) Chankya	40
13	mm (IV) Chankya	40
12	mm (IV) Chankya	40
11	mm (IV) Chankya	40
10	mm (IV) Chankya	40
9	mm (IV) Chankya	40
8	mm (IV) Chankya	40
7	mm (IV) Chankya	40
6	mm (IV) Chankya	40
5	mm (IV) Chankya	40
4	mm (IV) Chankya	40
3	mm (IV) Chankya	40
2	mm (IV) Chankya	40
1	mm (IV) Chankya	40

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Autosomal (IV) Chankya

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Microbiology Department

شماره	نام دستگاه	مشخصات فنی	واحد	مقدار	ذرائع نصب و ترفیقه
1	Vertical Laminar Flow Bench	Standard version, working space: 1185x570x570mm, includes: radial fan, illumination, differential pressure indicator, pre-filter, HEPA filter, For bench mounting ISO 13485, CF, FDA certificates or equivalent	Each	1	any: 1 year. llation: Successful llation at the atory Training: on- omprehensive ing for a minimum o ific personnel ting the system
2	Analytical Balance	Measuring range: 0.0001g-220g, Repeatability: 0.1mg, Tare Range: Full, Linearity: 0.2mg, Response Time: 3 sec, Automatic Internal Calibration, PC Interface, USB, Calibration Certificate with calibration weight set, Operating Temperature Range: 10° to 40 °C, Power supply: AC 100-240 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.	Each	1	any: 1 year. llation: Successful llation at the atory Training: on- omprehensive ing for a minimum o ific personnel ting the system



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			in case of exhaust failure, the cabinet's main fan automatically shuts down to ensure safety to the user. Air Balancing : 100% Exhaust & 0 % Re-Circulation. Direction of flow : Vertical, HEPA Filters: Type: Separator less type. Mini-Pleats HEPA Media, Media: Ultra clean glass fiber paper, Retention: 0.3 Micron Efficiency: 99.997%.Initial Pressure: 12 mm WG, Grade: H14 rating, Real-time display panel for remaining Filter ISO 13485, CE, FDA certificates or equivalent.		
year. Successful of the Training; on- line minimum panel the system	1	Each	Chamber: Vertical loading type chamber with service basket. Chamber size: 80 -120 L. Gauges: Should have a water level gauges. Display: Fully Automatic PID control $\pm 0.1^{\circ}\text{C}$. LED display for temperature and remaining time. Operation temperature 140°C. Temp accuracy ± 0.5 at 121°C. Operation time pressure 15-20 $^{\circ}\text{C}$. Timer: Auto in the start and stop timer. Must have safety warning alarm. Must have Nursery accessories. Must be with calibration certification ISO 13485, CE, FDA certificates or equivalent.	Vertical Autoclave	2

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		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Speed Range: 50 rpm to 2000 rpm. Stirring Capacity temperature range: 80-380 °C. Maximum load KC Body Material : Polypropylene Corrosion resistant surface and panels. A design that prevents liquid spillages from entering instrument. Digital Output connectivity: RS232. Retort stand attachment(s). Set safety temperature limit displayed digitally. supply: AC 160-240 V, 50/60 Hz, 15(1) 13485.4 certificates or equivalent.
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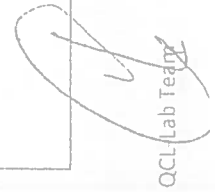
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g the Surfers	Hot Plate with Magnetic
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QCL Lab Team

			Capacity: 12 L. Material of construction: Tumbreakable polycarbonate jar. Unit: Jar should be provided with pressure -cum- vacuum gauge. The lid, jar should be ideal for all strict anaerobic conditions. Lid should consist of O-ring gasket be provided with petri dish (100 mm diameter rack, Schrader valve and screws to connect pump, Vacuum pump; Suitable oil free vacuum the system. Accessories: Catalysts/gas pouch, Anaerobe indicator tablets. Lid, complete with screw, O-rings. Power supply: 100-230 V, 13485, CE, FDA certificates or equivalent.	1	Each	
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system		1	Each	Capacity: 5 L with easy cleaning facility. All construction: Body should be compact, sturdy and made of stainless steel/heavy duty plastic should be compatible with all disinfectant concentrations. It should be compatible with range (both acid and alkali). The equipment good quality and conform to national/international standards. Power supply: AC 160-240 V, 50 13485, CE, FDA certificates or equivalent.

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Successful training; on- the-job minimum personnel competency	2	Each	Temperature range : 50-300 °C. Chamber volume: 100 L, walls: stainless. Power supply : AC 100-240 V , 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Drying Oven	10
Successful training; on- the-job minimum personnel competency	1	Each	Ph range: 0 to 14, mv; $\pm$ 1999, Accuracy: $\pm$ 0.02, operating temperature: 5-40 °C. Calibration: 1-3 points automatic calibration with calibration instruction and self-diagnosis. Temp. measuring range: 0 to 100 °C. Power Supply: 100- 230 volt , 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent	Bench top pH meter	11
Successful training; on- the-job minimum personnel competency	1	Each	Material of construction: Full Stainless-steel fabricated body with duly heat cured epoxy coating. Display and counting: It should consist of: Digital display up to 4 digits with confirmation by audible tone. It should consist of Magnifying lens (greater than 2X magnification with digital marking pen). Accepts petri dish up to size 140 mm diameter with a centering adaptor for standard 90 mm petri dish. Glare free viewing low energy bright LED's. A switchable black background viewing translucent and difficult to see colonies. Zero reset button. Power supply: AC 100-230 V , 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Digital Colony counter	12

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QCL-Lab Team

Freezer (-20)	13
Refrigerator	14
Digital vortex mixer	15

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Warranty: Installation Installation Laboratory site comp training fo of two scientific operating t		

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QCL-Lab Team

Technical Specification

11.C. Plate/Cutter size: 200x206 mm. Drying rack
11.C. plates with the formats 200 x 200, 200 x 140
x 50 mm. Simultaneous Separating Chamber. The
grooves in the transverse walls should hold 10
x 200 mm 11.C. plates. Desiccator (Openers: 1 liter)
should be suitable for all sizes of desiccators.
Chromatography Filter Paper: Capillary Dis-
penses: The pipettes should fill automatically
and dipped into the sample liquid. Micro (100 µl)
accuracy should be better than 1%. (11.C. 3000) &
ISO 13485. CE, FDA certificates or equivalent.

List

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Warning! Year
Installation Successful
Installation at the
Laboratory Training: on-
site comprehensive
training for a minimum
of two
scientific personnel
operating the system

fully PC based Atomic Absorption Spectrophotometer for both flame and furnace automatic operation. Detector: SiO sensors. Light Source: Hollow Cathode (HCL). Background Correction: Deuterium Arc Lamp range: 185-900 nm. (Optical Design: Czerny Turn Spectrometer. Wavelength Precision : 0.005 nm). A suitable computer system must be provided for the operation that can handle all the operations. Power supply: 240 V, 50/60 Hz, 150-13485, CE, IPDA certified equivalent.



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Device Name	No
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520	

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Year. Successful completion of the training: on- campus for a minimum of 3 personnel per system	2	Each	Measuring range: 0.0001g-220g. Readability: 0.1mg. Tare Range: Full. Linearity: 0.2mg. Response Time: 3 sec. Automatic Internal Calibration, PC Interface, USB, Calibration Certificate with calibration weight set, Operating Temperature Range: 10° to 40 °C. Power supply: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Analytical Balance	5
Year. Successful completion of the training: on- campus for a minimum of 3 personnel per system	1	Each	Hand / Motor lift. Height adjustment speed: manual. Height adjustment: 155 mm. Rotation speed: 10 280 rpm. Rotation speed setting: 1/3, 1/10 display. Drive: brushless DC motor with electronic speed control Heating capacity: 1300 w. Temp. range heating bath: 20 210 °C. Temperature accuracy bath: 1. Overheat protection bath, cut-off at 5 °C over set temperature via separate Pt 1000. Bath temperature setting: 3.5" LCD display. Heating bath temperature control: electronic / digital. Material heating bath: stainless steel. Diameter heating bath: 255 mm. Volume heating bath: 4.5 l. Flask volume: 1 l. Finner: yes. Rate of evaporation: Ethanol: 3.5 L/h. Water: 1.2 L/h. Condensing surface: 1,200 cm2 ISO 13485, CE, FDA certificates or equivalent.	Vacuum Rotary Evaporator (it included vacuum pump and water chiller)	4

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QCL-Lab Team

		Warranty: 1 year. Installation: Successful laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Speed Range: 50 rpm to 2000 rpm. Stirring Capacity: temperature range: 80-380 °C. Maximum load: 17 KG. Body Material : Polypropylene. Corrosion resistan surface and panels. A design that prevents liquid spilla from entering the instrument. Digital Output connecti RS232. Retort stand attachment(s). Set safety tempera limit displayed digitally. Power supply: AC 100-240 V 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent
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VD\ÕÕÕC((HNVUQLNÖ)D.DOXQXQ YUDN VRUJXODPDVQWVVGDERGVDHEV VD\ÕÕÕC((HNVUQLNÖ)D.DOXQXQ YUDN VRUJXODPDVQWVVGDERGVDHEV	1	Each	Volume : 20 Lt. Temperature range: 15-100 C. Temperature Resolution Ratio: 0.1 C. Power: 2 KW. The proposed units should be work in electricity voltage and frequency of 220v - 230v, 50/60Hz. ISO 13485, CE, FDA certificates or equivalent.	Water Bath	6
VD\ÕÕÕC((HNVUQLNÖ)D.DOXQXQ YUDN VRUJXODPDVQWVVGDERGVDHEV	1	Each	RPM range: 50-5000 RPM. Increment range: 5 RPM. Timer facility 1 min to 15 min or beyond. Rotor capacity: 12 or more (5 - 15 ml). Rotor type: fixed angle rotor. Power Supply 100- 230 volt , 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent. Complete Programmable each parameters	Digital Control Centrifuge	7
VD\ÕÕÕC((HNVUQLNÖ)D.DOXQXQ YUDN VRUJXODPDVQWVVGDERGVDHEV	1	Each	Temperature range: -12--24°C. Capacity Range: 24 cubic feet. Door Swing: Left Hinge, Double-Swing. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Freezer (-20)	8

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Refrigerator	9
Benchtop pH meter	100

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1	Each	Photometric system: Double beam . Wavelength range: 190 - 1100 nm. Wavelength accuracy : ± 0.02 nm. Light Source : Halogen Lamp, Deuterium Lamp. Spectral Bandwidth: 1 nm. Scanning Speed 10 - 8000 /min. Power supply: AC 100-240 V , 50/60 Hz ISO 13485, CE, FDA certificates or equivalent.	UV-Vis Spectrophotometer	11
1	Each	Temperature range : 50-300 °C. Chamber volume: 100 L. walls: stainless . Power supply: AC 100-240 V , 50/60 Hz.ISO 13485 CE, FDA certificates or equivalent	Drying Oven	12
14	Total number of device			

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QCL-Lab Team

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شماره	نام دستگاه	توضیحات
1	HP LC-MS	Handling together

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system mentioned above must be provided (original disk or Drive or CD).

The software should have the capability of different display parameters during the run of a sample. The post run data analysis should be available in the same software where the chromatogram of a run sample must be available for analysis. Data analysis must include standard chromatogram operations such as area, height, width and percentage estimation. The software system must also allow the easy integration of calibration data into data analysis methods. The software must be able to perform spectral analysis for UV-visible, fluorescence and RI detectors. The software data analysis system must also allow for the integration of UV spectral library information for automatic matching of the peaks with reference spectra, even if this might not be standard features. If this UV spectral matching feature is available.

A suitable computer system must be provided for this system that can handle all the operations.

UPS system more than 30 min backup.

A generic C-18 column must be provided that can separate a mixture of polycyclic aromatic hydrocarbons. A tubing kit and maintenance tool kit must be provided along with the system.

Double Quadrupole : Mass range : m/z 10-2000 Mass Stability : 0.05u/2h, polarity switching time: 15 msec, Scan Speed: 15000 u/sec, Application flow rate, ESI 1 µL/min to 2 mL/min, NRI V transmission speed: Max 555 channels / sec, DL maximum temperature: 300 C, Block heater maximum temperature: 500 C

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QCL-Lab Team

					Minimum pause time: 1msec. Minimum dwell time: 48 sec. Interface: ESI (Standard),APCI (Option),DUI (Option), talk: <0.003%. Resolution: R < 0.7 FWHM. Sensitivity: positive: 1 pg respire, S/N 3,000:1 (RMS). A suitable micro-spray generator that can supply and satisfy proposed HPLC-MS system. All proposed units should be work in electrical and frequency of 220V - 230V, 50/60Hz. ISO 13485 CE, certificates or equivalent.
		Warranty: 1 year. Installation Successful laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Optical system: all-reflective single-beam CF optical path length of monochromator: 350mm, oil-water proof and compressor. Blazed wave-length of gratings: 230nm-2400nm grating grooves: 1800g/mm. Wave-length range: 190nm- Wavelength accuracy: ±0.1nm. Wave-length repeatability: ±0.1nm. Spectrum bandwidth: 0.1nm, 0.2nm, 0.4nm, 2.2nm, 1.4nm. Noise: 0.005 Abs/stray; 0.006 Abs/Dynamic range: drift: 0.003 Abs/0.5hr; best performance. Background level: ED2 lamp + self reversal. Number of the lamps: 8. Number of preload lamps: software controlled. 8. Gas path safety measures: yes. Atomizer: flame atomizer. Automatic gas slit / wavelength: gas path / ignition / burner / safety measures C2H2 monitoring. Power Supply: AC 100-230 V, 50/60Hz ISO 13485, CE, FDA certificates or equivalent.




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					Repeatability: $\pm 1\%$ Sampling and valves: Diaphragm valves, diaphragm piston valves, sliding vane rotary valves, slider valve liquid injection valve Auto sampler for liquid injection 10ul syringe adapter Rinse with two different solvents; Rack of samples: at least 60 positions for capacity 1 vials. Gas supplier Nitrogen compressed gas cylinder, purity 99.998% Helium compressed gas cylinder, purity 99.998% Hydrogen compressed gas cylinder, purity 99.999% Inlet Pressure: 2-125 psig (825 kPa) Airflow, regulators and connectors All proposed units should be work in electricity* with and frequency of 220v - 230v, 50/60Hz. ISO 13485, CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Speed Range: 50 rpm to 2000 rpm, Stirring Capacity temperature range: 80-380 °C, Maximum load: 2500 KG, Body Material : Polypropylene, Corrosion resistant surface and panels.A design that prevents liquid spill from entering the instrument. Digital Output connector RS232. Retort stand attachment(s).Set safety temperature limit displayed digitally. Power supply: AC 100-240 50/60 Hz ISO 13485, CE, FDA certificates or equivalent.

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VD\Ö. Q (Successful in the Training; on- elements minimum r a minimum the system	1	Each	Ph range: 0 to 14. mv: ±1999. Accuracy: ±0.02. operating temperature: 5-40 °C. Calibration: 1-3 points automatic calibration with calibration instruction and self-diagnosis. Temp. measuring range: 0 to 100 °C. Power Supply: 100-230 volt. 50/60 Hz. ISO 13485. CE. FDA certificates or equivalent.	Benchtop PH meter	6

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QCL-Lab Team

		Warranty: 1 year Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Temperature range : 50-300 °C. Chamber volume: walls: stainless. Power supply: AC 100-240 V : 50 ISO 13485. CE, FDA certificates or equivalent
		Warranty: 1 year Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measuring range: 0.0001g-220g. Repeatability: 0.01mg Range: Full. Linearity: 0.2mg. Response Time: 3-5s Automatic Internal Calibration. PC Interface. 15.3" LCD Calibration Certificate with calibration weight set Operating Temperature Range: 10° to 40 °C. Power AC 100-240 V. 50/60 Hz. ISO 13485. CE, FDA certificates or equivalent

100 L, 60 Hz.	Drying Oven	7
g. 2000 C ₂ suppl.	Analytical Balance	2
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	1	Each	TLC Plate Cutter size: 200x200 mm. Drying Rack: 10 TLC plates with the formats 200 x 200, 200 x 100 and 200 x 50 mm. Simultan Separating Chamber: The vertical grooves in the transverse walls should hold up to five 200 x 200 mm TLC plates. Desiccator Opener: This opener should be suitable for all sizes of desiccators. Thin Layer Chromatography Filter Paper: Capillary Dispensing Pipettes: The pipettes should fill automatically when they are dipped into the sample liquid. Micro Capillaries: Their accuracy should be better than 1%. Power Supply: 100-250 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Thin Layer Chromatography (TLC)	9
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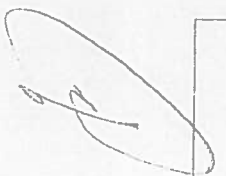


QCI-Lab Team

		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each

Standard configuration: MCU-710D+MKV-710+Automatic Solvent Change unit. Measuring unit: Karl Fischer Volumetric titration. Measuring range: content : 0.1 to 500mgH₂O (depends on K_F reagent factor). Concentration : 1 ppm to 100% H₂O. 13mV precision: 10mL burette +/- 0.015mL ; reproducibility 0.005mL. Endpoint detection: By polarized potentiometric detected with a twin platinum electrode. Titration unit: Normal titration / Back titration. Required solvent: 100mL (in S-type titration vessel). Key operation panel. Data storage: Method: 120 (per channel). Measurement results: 5,000 samples (per channel). Operation history: 100,000 (Total for 2 channels). Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.

Speed Range: 200 to 3000 rpm. Material: Rubber Platform. Dimensions (L x W x H): 8.1 x 5.9 x 3.1 in (20.5 x 15.1 x 13.1 cm). Timer Range: 1 to 99 min. Continuous. Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates or equivalent.




Method: Water		
Accuracy: ±0.1 level	Karel fisher (N°) titrator	10
Base * HOHQ 7DUŁK 6DVŌ	Digital vortex mixer	11

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		Warranty: 1 year. Installation: Successful laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Application: liquid and semi solid mixer homogenizer PLC automated touch screen control, jacketed process vessel for temperature controlled processing L. (Model: UHOM-1/3 Ltr), Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates of equivalence
		Warranty: 1 year. Installation: Successful laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Capacity: 500 ml. Units: 6. Speed Range: 0-1200 rpm Total weight: 1800 W. Dimension LxWxL (mm): 210x300x1200. Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates of equivalence




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Homogenizer

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Heating Marble

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QCL-Lab Team

Herbal Department

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		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	TLC Plate Cutter size: 200x200 mm. Drying rack: TLC plates with the formats 200 x 200, 200 x 100 & x 50 mm. Simultan Separating Chamber: The grooves in the transverse walls should hold up to 1.5 l. x 200 mm TLC plates. Desiccator Opener: This ap- pliance should be suitable for all sizes of desiccators. 100 Chromatography Filter Paper: Capillary Dispensing Pipettes: The pipettes should fill automatically with- out the need for blowing. The capillary tubes should be dipped into the sample liquid. Micro Capillary Pipettes: The pipettes should be better than 1%. Power Supply: 230 V, 50/60 Hz. ISO 13485, CE, FDA certification equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Max. flow rate: 20 l/min. Capacity: 300 ml / 1000 ml Filter diameter: 47 mm / 50 mm. Effective filtration 13.1 cm². Filter funnel: PES. Waste bottle: 500 ml 1000ML glass (with drain). Funnel lid: PP. Syringe complete set includes : VP-17, Vacuum Pump, A.P. Filtration Set, Silicone Tube (1m). Power Supply: 230 V, 50/60 Hz. ISO 13485, CE, FDA certification equivalent.

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شماره	نام دستگاه	توضیحات
1	Thin Layer Chromatography (TLC)	Thin Layer Chromatography (TLC)
2	Vacuum Filtration System	Vacuum Filtration System

1	Each	Capacity: 500 ml. Units: 6. Speed Range: 0-1200 rpm. Total watts: 1800 W. Dimension HxWxL (mm): 210x300x1200. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Heating Mantle	3
1	Each	Speed range: 30-100rpm. Heavy duty maximum load 6kg. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.	Orbital Laboratory Shaker	4
1	Each	Sieve diameter: 200 mm, Quantity of sieve: 1 to 5 Nos. Vibrating frequency 1400r/min, Exciting force: 3 KN, Timer: 999 min. Motor: Vertical vibration motor. Accessories: Supporting clamps & Rods (model: STXVSS8). Power Supply: 100-230 V, 50/60 Hz ISO 13485, CE, FDA certificates or equivalent.	Sieve Shaker	5

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Page 50

Pycnometer	5
Schlenk reactor Apparatus	7
Melting point analyzer	8

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		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	External dimension (mm): 524X1067X574. Internal dimension (mm): 483X853X560. Dehumidification: H2O electrolysis discharge by solid polymer electrolyte. Dehumidification element. Dehumidified ability 30% rh is set). Within 8 hours. • Humidity Range: 160% RH, 0 to 60 °C/10 measurement range 60% RH. Temperature and humidity sensors: Temperature/humidity elements, humidity/resistive low humidity measurement sensors. Area of dehumidifying element: about 49 cm2. Temperature/humidity display accuracy: ±1 °C. Power Supply: 230 V, 50/60 Hz. ISO 13485, CE, FDA certificates equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Hand / Motor lift: hand lift. Height adjustment: speed manual. Height adjustment: 155 mm. Rotation speed: 280 rpm. Rotation speed setting: 3.5" (1/3) display. brushless DC motor with electronic speed control. Heating capacity: 1300 w. Temp. range heating: 210 °C. Temperature accuracy bath: ±1. Overheat protection bath, cut-off at 5 °C over set temperature. separate Pt 1000. Bath temperature setting: 3.5" (1/3) display. Heating bath temperature control: electronic digital. Material heating bath: stainless steel. 1. Heating bath: 255 mm. Volume heating bath: 4.5 L. Volume: 1L. Timer: yes. Rate of evaporation: 1.200 L/h. Water: 1.2 L/h. Condensing surface: 1.200 cm2. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.

system: lytic hen 0 to 1. ce ape	Digital Dry Desiccator	12
* HOHQ 7DULK 6D\O	Rotary vacuum evaporator (included vacuum pump and water chiller)	13

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		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measuring range: 0.0001g-220g; Readability: 0.1mg Range: Full; Linearity: 0.2mg; Response Time: 30sec Automatic Internal Calibration; PC Interface : USB. Calibration Certificate with calibration weight set Operating Temperature Range: 10° to 40 °C. Power AC 100-240 V ; 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Maximum Capacity: 4100 gm. Readability : 0.1g Calibration tools: Standards weights. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE, FDA certificates equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Temperature range : 50-300 °C, Chamber volume walls: stainless. Power supply: AC 100-240 V ; 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.

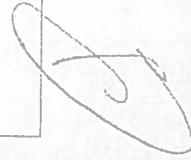
Supply:	Analytical Balance	15
Test:	Analytical Balance (Top Pan Loading)	16
00 L. 0 Hz.	Drying Oven	17

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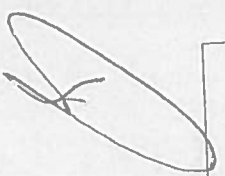
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QCL-Lab Team

				Measuring Mode: Optical Rotation, Specific Rotation Specific Rotation Plus Concentration, Sugar Scale °Z(ISS), Display: On screen LCD / LED (touchscreen) Accuracy: 0.001 deg Arc or better, Measuring Range: 89.9 deg Arc Optical Rotation, ± 999.99° Arc Specific Rotation, 0-99.9% Concentration, Optical Wavelength: 589 nm Na and Tungsten-halogen or Hg- Lamp (10000h mm/ 578 nm / 546 nm / 436 nm / 405 nm, Light Source: Sodium/Tungsten-halogen/LED with life time 100,000h of operation, Prism: Gian Thompson Calcite prism with life time Guarantee, Detector: PMT, Calibration Automatic: Calibration In-built via touchscreen, Calibration Standards: Certified values of Certified Reference Materials (CRM) provided by an accredited Reference Material Producer with stated metrological traceability to the SI for sugar solutions. Power Supply: 100-230 V, 50/60 Hz, ISO 13485, CE, FDA certificates equivalent.
	Each	1	Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	




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Automated digital
Polarimeter

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		Warranty: 1 year Installation: Successful laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Temperature Range: RT+10°C to 200°C. Display Resolution: 0.1°C. Temperature Stability: ±1°C. Accuracy Degree: 133 Pa. Chamber Material: Stainless steel Aluminum Shelves: 2. ISO 13485, CE, FDA certified or equivalent.
			23	Total Number of Device	




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Vacuum oven	
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Biochemistry Department

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	1	Each	Detector: DAD. Pump: a quaternary pump system with the capability of handling 4 solvents as mobile phase. These solvents may be used together or individually or in any combination. Flow rate: 0.001 - 10mL/min, flow rate accuracy $\pm$ 1 %. Operating pressure: more than 60 MPa. Pump Mode: gradient system or isocratic mode. Column Oven: Thermostat system 12 C - 90 C. The system must have an in-built degasser. Clear and easy valves and methods for purging must be available. The tools required for the purging must be provided along with the system. The fittings must be easy to operate with the tools provided. Appropriate tools for maintenance must be provided. It is preferable to have some leak detection system. Some spare consumables (such as inline filters) must be provided initially. Autosampler: can inject samples into the LC system with sample volumes ranging from 0.1 microliters to 100 microliters. The autosampler must be capable of holding at least 100 vials at a time and must allow for programmable automated injection of these samples into the LC system without interruption of the operation. The autosampler must be able to hold vials (approximately 1.5 mL with screw cap and septa) that are interchangeable with standard HPLC vials provided by other vendors. Column: Standard and suitable column with guard column according to the HPLC system. A software system controlling all the aspects of the HPLC system mentioned above must be provided (original disk or Drive or CD). The software should have the capability of different display parameters during the run of a sample. The post run data analysis should be available in the same software where the chromatogram of a sample must be available for analysis. Data analysis must	SH-C-HPLC	1

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of a suitable computer must be available for analysis. Data analysis should include standard chromatogram operations such as area, retention time, peak width and percentage estimation. The software system must also allow the easy integration of calibration data into data analysis methods.

A suitable computer system must be provided for this system which can handle all the operations.

LPS system more than 30 min backup

Column: 10 C below ambient to 100 C, Temperature accuracy 0.08 C, column capacity, three 30 cm column, Dimension (HxWxD): 14x34.5x43.5cm, Bio SEC-5 Size Exclusion Column

3 µm particle size, Pore sizes: 1000 Å (10 to 100 kDa), 1500 Å (100 to 150 kDa), 3000 Å (5 to 1250 kDa), Bio SEC-5 Size Exclusion Column

5 µm particle size, Pore sizes: 1000 Å (10 to 100 kDa), 1500 Å (100 to 150 kDa), 3000 Å (5 to 1,250 kDa), 5000 Å (15 to 5,000 kDa), 10000 Å (50 to 7,500 kDa) and 20000 Å (100 to 30 kDa).

. A tubing kit and maintenance tool kit must be provided along with the system. ISO 13485, CE, FDA certificates or equivalent.

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		Warranty: 1 year. Installation: Successful laboratory training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Measuring range: 0.0001g-220g; Repeatability: 0.1mg; Full Range: Full; Linearity: 0.2mg; Response time: 3 sec. Auto Internal Calibration. PC Interface, USB. Calibration certificate with calibration weight set. Operating Temperature Range: to 40 °C. Power supply: AC 100-240 V . 50/60 Hz; ISO 13485 CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful laboratory training: on- site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Capacity : 150 L. Temp Range: 0- 60 °C. Temp Fluctuation ±/ - 1 °C. Temp Fluctuation: ±/ - 1 °C. Maximum time range Hours: Display: 1(°C) 1 Humidity Range: 50-90 % rh. 2000 Supply: 100-230 volt, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.

Incubator	Analytical Balance
4	4

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Successful in 30 days. Training: on-site. Minimum personnel required to operate the system.	Each	Chamber. Vertical loading type chamber with service basket. Chamber size: 80 -120 L. Gauges: Should have a water level gauges. Display: Fully Automatic PID control +/- 0.1 °C. LED display for temperature and remaining time. Operation temperature 140 °C. Temp accuracy +/- 0.5 at 121 °C. Operation time pressure 15-20 °C. Timer. Automatic start and stop timer. Must have safety warning alarm. Must have Nassyry accessorize. Must be with calibration certification. ISO 13485, CE, FDA certificates or equivalent.	Vertical Autoclave	6
Successful in 30 days. Training: on-site. Minimum personnel required to operate the system.	Each	Gel Size (mm): 60 x 60. Number of samples: 6, 8, 11. Comb Thickness (mm): 1.0, 1.5. Max. Input Voltage (V): 100. Max Current (mA): 50. Continuous Working Time: >24 hours. Buffer volume (ml): 150 ml. Overall Dimensions (L x W x H) (mm): 197 x 96 x 64 ISO 13485. CE, FDA certificates or equivalent.	Gel Electrophoresis System	7

Warranty Installation Installation Laboratory Site completion training for of two scientific operating		

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QCL-Lab Team

		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system		1 Each	Working temperature: Ambient + 5 ~ 200 degree C, 1 mode: 1-999 minutes. Capacity (liters): 50. Accessory shelves. Power supply: 220V 50/60Hz ISO 13485. CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system		1 Each	Measuring range: 0.00 to 50.0 mOsm/kg. Resolution: 0.01 and 1 mOsm/kg. Accuracy: $\pm 5\%$ of measured value or ± 0.1 mOsm/kg. Light source: LED, infrared at 850 nm. Light source: unlimited. Light detector: Photodiode. Measurement time: < 10 sec. Operating conditions: 15-30°C, 13485, CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on- site comprehensive training for a minimum of two scientific personnel operating the system		1 Each	Sample volume: 50—150 µl. Resolution: 1 mOsm/kg. Test time: ~ 2 min. Precision: SD ≤ 4 mOsm/kg. 100 mOsm/kg. Linearity: $\pm 1\%$ (0—1500 mOsm/kg). Calibration: Two-point calibration (0 mOsm/kg and free selectable osmolality). optional: Three-point calibration. Control Keypad (LCD display, 2 rows with 24 characters). Power supply: 100—240 V, 50—60 Hz, 70 W, 13485, CE, FDA certificates or equivalent.

QC Lab Team

me	Oven Hot Air	8
me	Kinetic Turbidimeter	9
me	Freezing point analyzer (osmol meter)	10

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11/30/2024

1	1	Material: 316L stainless steel for (for cover, pump head, holder of bottle, pump, support for drain tray), EPDM rubber seal, glass window toughened, polyester keys, polyphenylsulfone (PPSU) container (for drain tray), polyphenylsulfone (PPSU) guide(s) (for tubing) silicon seal. H × W × depth: 41.0 cm × 41.0 cm × 37.2 cm, with accessories, pump body H × W × depth: 27.2 cm × 33.3 cm × 37.2 cm, pump head H: 15.8 cm, input: sample type pharmaceutical, ISO 13485, CE, FDA certificates or equivalent.	Sterility tester	11
1	1	Speed Range: 50 rpm to 2000 rpm. Stirring Capacity: 4L, temperature range: 80-380 °C. Maximum load: 15 to 20 KG. Body Material : Polypropylene, Corrosion resistant surface and panels. A design that prevents liquid spillages from entering the instrument. Digital Output connectivity, RS232. Retort stand attachment(s). Set safety temperature limit displayed digitally. Power supply: AC 100-240 V , 50/60 Hz ISO 13485, CE, FDA certificates or equivalent.	Hot Plate with Magnetic Stirrer	12
1	1	Volum : 16 Li. Temperature range: 15-100 C. Temperature Resolution Ratio: 0.1 C. Power: 2 KW. The proposed units should be work in electricity voltage and frequency of 220v - 230v, 50/60Hz, ISO 13485, CE, FDA certificates or equivalent.	Water Bath	13

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QCL-104-1000

QCL-104-1000

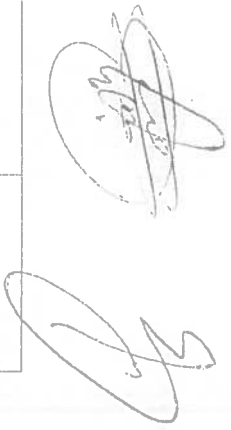
			Height: 68 in. Depth With Door Open 90 Degrees: 37.0 in. Depth: 31 in. Capacity: 17. Cabinet Width: 28.0 in. Refrigerator Volume: 13.66 cu. ft. Door Style: Comfort Handle Material: Plastic. Location of Controls: Interior Lip Front. Deli Drawer: 1 Flexi-Slide Bin. Door Bins: 2 Fixed Full-Width. Lighting: LED. Features: LED Lighting, EZ Connect Iceemaker Kit Compatible, Flexi-Slide Bin, Humidity-Controlled Crispers. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE. FDA certificates equivalent.	1	Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on-site comprehensive training for a minimum of two scientific personnel operating the system			
			Temperature range: -12—24°C. Capacity Range: 1.4 cubic feet. Door Swing: Left Hinge, Double-Swing. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE. FDA certificates or equivalent.	1	Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on-site comprehensive training for a minimum of two scientific personnel operating the system			
			Speed Range: 200 to 3000 rpm. Material: Rubber. Platform. Dimensions (L x W x H): 8.1 x 5.9 x 5.2 in. (20.5 x 15.1 x 13.1 cm). Timer Range: 1 to 99 min. Continuous. Power Supply: 100-230 V, 50/60 Hz. ISO 13485, CE. FDA certificates or equivalent.	1	Warranty: 1 year. Installation: Successful Installation at the laboratory. Training: on-site comprehensive training for a minimum of two scientific personnel operating the system			

Refrigerator	14
Freezer (-20)	15
Digital vortex mixer	16

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Warranty	Installation	Installation	Laboratory	Site comp	training f	of two	scientific	operating

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QCL-lab Team

18

Total number of Device

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Incubator
Date: 11/24

18

11/30/2024

Medical Equipment Department

وراثتی، نمبر و	مقدار	واحد	مشخصات فنی	نام دستگاه	شماره
to wear. of the Training: ive two ersonnel the system	1	Each	Flow under the max rotation speed : 500ml/min. Speed : 0-220rpm. Total height of hanger : 405mm. stainless steel: 304 steel, ISO 13485 CE, FDA certificates or equivalent.	Sterility test pump (Complete system)	1

رقم	تاريخ	ملاحظات
1	2023/05/01	تمت
2	2023/05/02	تمت
3	2023/05/03	تمت
4	2023/05/04	تمت
5	2023/05/05	تمت
6	2023/05/06	تمت
7	2023/05/07	تمت
8	2023/05/08	تمت
9	2023/05/09	تمت
10	2023/05/10	تمت

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QCL-Lab Team

Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1 Each	Vacuum Degree: 0 ~ -90 KPa/ 0 ~ -13 psi. Accuracy: $\pm 0.25\%$ FS. Resolution: 0.1 KPa / 0.01 psi. Vacuum Chamber Effective Sizes: $\phi 270$ mm x 210 mm (17" x 16") Supply: Air (outside of supply scope). Gas Supply Pressure: 0.5 MPa ~ 0.7 MPa (73psi ~ 101psi). Inlet Supply: 100-230 volt, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent.
Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1 Each	Load capacity: 255 kgf. Max speed (mm/min): 2540 mm/min. speed (mm/min): 0.005. Maximum force at full speed: 0.75. Position control resolution μm: 0.61. Total Gravel (mm): 1041. Total Vertical Test space (mm): 1210mm. 13485, CE, FDA certificates or equivalent.

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Suture Tensile Strength Testing machine	Leak and Seal Strength Tester

year. analysis at the training; chensive good two personnel the system	1	Each	Test effective area: 105*100 mm, up to 105*152 mm. Effective stroke:150mm. Maximum load:500N. Accuracy:±0.5% ISO 13485, CIE, FDA certificates or equivalent.	Manual Peel Strength Tester	1
year. the at the training; ive two personnel the system	1	Each	Test Stroke: 1.5 mm Size: 500mm x 590mm x 150mm. Maximum Blade Length: 200mm, but longer and wider blades can be accommodated with a special adaptor. Maximum Blade Width: 100mm ISO 13485 CIE, FDA certificates or equivalent	Razer Edge Sharpness Tester	1

Warra	Install	Success	Install	laborat	on-site	compre	training	minim	scienti	operat

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QCL-Lab Team

		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system		1 Each	Capacity : 150 L. Temp Range: : 0- 60 °C. Temp Fluctuation: ±/- 1 °C. Maximum time 24 hours. Display: LCD. Humidity Range: 50-90 % rh. Power Supply: 100-230 volt , 50/60 Hz. ISO 13485, CFE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system		3 Each	Measuring Range: 0-150 millimeter or 0-6 inch. Resolution: 0.01 millimeter or 0.0005 inch. Reproducibility: 0.01 millimeter or 0.0005 inch. Maximum measuring speed: 1m.s. ISO 13485, CFE, FDA certificates or equivalent.




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		7	

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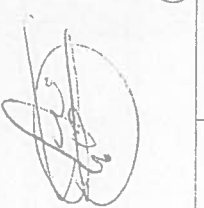
Warrant Installation Successful Installation Laboratory on-site completing training minimum scientific operating		
Warrant Installation Successful Installation Laboratory on-site completing training minimum scientific operating		





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		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Speed Range: 50 rpm to 2000 rpm. Stirring Capacity: temperature range: 80-380 °C. Maximum load: 1 Kg. K.G. Body Material : Polypropylene. Corrosion resistant surface and panels. A design that prevents liquid spillages from entering the instrument. Digital Output connectivity: RS232. Reort stand attachment(s). Set safety temperature limit displayed digitally on the supply: AC 100-240 V . 50/60 Hz ISO 13485. CE, FDA certificates or equivalent.
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	1	Each	Volum : 20 L. Temperature range: 15-100 C. Temperature Resolution Ratio: 0.1 C. Power: 2 KW. The prop. sec. units should be work in electricly voltage and frequency of 220v - 230v, 50/60Hz. ISO 13485, CE, FDA certificates or equivalent.

4L 20	the Hot Plate with Magnetic Stirrers	10
*HOHQ 7DULK 6D\O	Water Bath	11

11/30/2024

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Warrant		
Installation		
Successful		
Installation		
laboratory		
on-site		
completing		
training		
minimum		
scientific		
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QCL-Lab Team

		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system		1 Each	Speed Range: 200 to 3000 rpm. Material: Rubber Platform. Dimensions (L x W x H): 8.1 x 5.9 x 2.6 ft (20.5 x 15.1 x 13.1 cm). Timer Range: 1 to 99 min. Continuous. Power Supply: 100-230 V, 50/60 Hz. ISO 13485 CE FDA certificates or equivalent
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system		1 Each	Temperature range : 50-300 °C. Chamber volume: 100 L. Chamber material: 304 stainless steel. Walls: stainless. Power supply: AC 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certificates or equivalent




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Drying Oven	Digital vortex mixer
15	14

11/30/2024

1 year. on the training: new for two personnel the system year. of the training: new for two personnel the system	1 Each	Chamber: Vertical loading type chamber with service basket. Chamber size: 80 -120 L. Gauges: Should have a water level gauges. Display: Fully Automatic PID control ± 0.1 °C. LED display for temperature and remaining time. Operation temperature 140 °C. Temp accuracy ± 0.5 at 121 °C. Operation lng pressure 15-20 °C. Timer: Automatic start and stop timer. Must have safety warning alarm. Must have Nassyery accessorize. Must be with calibration certification. ISO 13485. CE, FDA certificates or equivalent.	Vertical Autoclave	16
1 year. on the training: new for two personnel the system year. of the training: new for two personnel the system	1 Each	Standard version, working space: 1185x570x570mm. Includes: radial fan, illumination, differential pressure indicator, pre-filter, HEPA filter. For bench mounting ISO 13485, CE, FDA certificates or equivalent.	Vertical Laminar Flow Bench	17
17		Total number of device		

Warrant	Installation	Successful	Installation	Laboratory	On-site	Comprehensive	Training	Minimum	Scientific	Operational

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QCL-Lab Team

Water purification plant

قيمت مجموعتي	قيمت في واحد	ورائتي، نصب و تربيتي	مقدار	واحد	مشتريات فنيي
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	2	Each	Product Water Type: Type 1 and Type 2. Resistivity: 18.2MO.cm at 25°C. Type 2: 10 to 15MO.cm at 25°C. Conductivity: Type 1: 0.05µS/cm. Type 2: 0.05µS/cm. Feedwater Source: tap. Flow Rate: 0.1 m³/h. Organic Carbon: 1 to 5ppb. Endotoxin Concentration: 0.005EU/mL. Bacterial Content: <0.01 CFU/mL. Pressure: 1-6 Bar. RO Flow Rate: 12L/hr. Permeate performance: 12L/hr. at 10°C. Power supply: AC 1 50/60 Hz. ISO 13485 CE. FDA certifies equipment In case the total dissolved solids (TDS) in the feed site exceed 150 ppm, the supplier is responsible for pre-filtration system (RO system).
		Warranty: 1 year. Installation: Successful Installation at the laboratory Training: on-site comprehensive training for a minimum of two scientific personnel operating the system	4	Each	Distillation capacity: 10 l/h. Distillate conductivity: µS/cm (at 25°C). Material: Stainless steel. Power: 100-240 V, 50/60 Hz. ISO 13485, CE, FDA certifi equivalent. * In case the total dissolved solids (TDS) in the feed installation site exceed 150 ppm, the supplier is responsible the pre-filtration system (RO system).




شماره	نام دستگاه	توضیحات
1	Water Purification System (Water deionizer machine)	تجهیزات تصفیه آب (دستگاه تصفیه آب)
2	Water Distiller machine	دستگاه تصفیه آب (دستگاه تصفیه آب)

اسم شرکت:

آدرس:

1403

تاریخ:

- (1) معینیت غذا و ادویه وزارت صحت تمامه تخصیص بودجه لازم برای تدارک احسان / خدمات غیر مشورتی مندرج این درخواست را دارد.
- (2) آفر سر بسته شانباتاریخ 1403 / ساعت 02:00 بعد از ظهر یا قبل از آن به شعبه هیات خاص خریداری ماشین آلات لایراتوار + زون کشور، معینیت غذا و ادویه وزارت صحت عامه واقع ده افغانان تسلیم داده شود.
- (3) آفر ها نیکه بعد از میعاد تسلیسی ارائه گردند. بدون اینکه بارشود مسترد می گردد. پاکت حاوی آفر باید به صورت واضح عبارت نرخ قبه و تدارک 344 قلم ماشین آلات لایراتوار + زون مورد ضرورت لایراتوار های ولایت هرات، قندهار، ننگرهار و بلخ در بنایی نشانی شده باشد.
- (4) آفر ارائه شده درآفرها باید الی مدت (30) روز تقویمی سر از تاریخ ختم میعاد تسلیسی آفرها اختیار داشته باشد.
- (5) در صورت تغییر در مقدار نیازمندی. اداره می تواند مقدار نیازمندی تقاضا شده را الی (15) فیصد زیاد و یا کم نماید. مشروط به اینکه قیمت مجموعی آن از حدود صلاحیت پولی برای درخواست نرخ گیری تجاوز ننماید.
- (6) ترجیح داخلی مطابق حکم چهار طرز العمل تدارکات قابل اجرا است. (25%) (بیست و پنج فیصد) تولیدات داخلی ارجحیت دارد.
- (7) آفر گشائی درمختصر عام حتمی نبوده و فرمایش دهندد مکلفه به نیازترین نرخ می باشد. در صورت رد هریک یا تمام آفرها فرمایش دهندد کدام مسئولیت در قبال داوطلب قبه ارائه کننده ندارد.

(8) آفر دهندد اسناد ذیل را با آفر خویش ضمیمه می نماید:

1- حوار تجارتي / فعالیت / کار قابل اعتبار:

2- تمرشخیصیه مالیه: (اختیاری)

(9) سند نرخ گیری تکمیل و توسط شخص با صلاحیت با نماینده قبه / ارائه کننده در هر صفحه مهر امضاء شده باشد.

(10) تحویل دهی حسن در مرکز ولایات های ولایت هرات، قندهار، ننگرهار و بلخ می باشد.

نام کارمند صادر کننده درخواست نرخ گیری:

وظیفه کارمند:

شماره تماس:

امضای هیئت خریداری:

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(1) יתכן כי מדובר בכתב יד של חוק או חוקה.

המסמך נמצא בידיו של...

המסמך נמצא בידיו של...

המסמך נמצא בידיו של...

המסמך נמצא בידיו של...