

دائرة اللوازم والمشتريات

عطاء رقم (T21/2021.22)

أجهزة مختبرات علمية

2021-2022



AAUP

عطاء أجهزة مختبرات علمية

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الجزء الأول (1)

## إعلان طرح عطاء رقم T21-2021.22

## أجهزة مختبرات علمية

تدعو الجامعة العربية الأمريكية الشركات المختصة الى المشاركة في العطاء المذكور أعلاه. يمكن الاستفسار أو الحصول على وثائق العطاء من دائرة اللوازم والمشتريات في الجامعة/ مبنى الدوائر الإدارية الطابق الثاني، هاتف- 2418888 -04 وثائق العطاء من دائرة اللوازم و2510972 وثي pnp@aaup.edu مقابل مبلغ غير مسترد مقداره 100 دولار أمريكي تدفع في إحدى البنوك المعتمدة وذلك اعتباراً من يوم ( الخميس ) الموافق 2022/1/20

## ملاحظات:

- 1. تقديم عرضين: فني ومالي، وسيتم در اسة العروض فنيا ومالياً لاختيار العرض المناسب.
- 2. آخر موعد لتسليم العطاءات هو في تمام الساعة الثانية من يوم (الخميس) 2022/2/3 ولنفس المكان.
- 3. يجب تقديم كفالة دخول عطاء 5% من قيمة العطاء على شكل كفالة بنكية أو شيك بنكي مصدق لصالح الجامعة العربية الأمريكية .
- 4. الأسعار (دولار) وتشمل جميع الضرائب بما فيها ضريبة القيمة المضافة وعلى المورد تقديم الفواتير الضريبية وشهادة خصم المصدر.
  - الجامعة غير ملزمة بأقل الأسعار وبدون إبداء الأسباب.
    - 6. رسوم الاعلان على من يرسو عليه العطاء.
- 7. بإمكانكم الاطلاع على النظام الداخلي لدائرة اللوازم والمشتريات من خلال زيارة صفحة الجامعة العربية الامريكية على الانترنت. www.aaup.edu



## (2) الشروط والتعليمات التنظيمية للعطاء

- على جميع المشاركين في العطاء الالتزام التام بهذه الشروط والتعليمات، وهي تعتبر جزءاً لا يتجزأ من أي أمر
   شراء أو عقد يبرم مع المشارك الفائز ما لم ينص صراحة على خلاف ذلك في أمر الشراء أو العقد.
  - 2. في هذه الشروط والتعليمات يرمز إلى "الجامعة العربية الامريكية بالاختصار (AAUP).
    - 3. يجب أن تكون الشركة المتقدمة للعطاء مسجلة رسمياً ومشتغلاً مرخصاً.
  - 4. تقدم الأسعار (دولار شاملاً) لجميع الضرائب بما في ذلك ضريبة القيمة المضافة (VAT).
- 5. يلتزم المشارك الفائز بتقديم شهادات خصم المصدر والفواتير الضريبية اللازمة وأية مستندات قانونية أخرى
   تغطى عملية الشراء.
- 6. يجب أن تشتمل الأسعار على جميع المصاريف المطلوبة من النقل والتركيب والتشغيل والفحص والصيائة والتدريب في المواقع المحددة في جدول المواصفات والكميات المرفق.
  - 7. يجب أن تكون الأسعار المقدمة سارية المفعول لمدة لا تقل عن (90) يوماً من تاريخ تقديم العرض.
- 8. على المشارك الفائز تقديم كفالة حسن تنفيذ خلال أسبوع من تاريخ الاتفاقية بحيث تعادل (10%) من قيمة الاتفاقية على شكل كفالة بنكية صادرة عن إحدى البنوك العاملة في فلسطين أو شيك مصدق صادر لصالح "الجامعة العربية الامريكية".
- 9. إذا تخلف المناقص الفائز عن تقديم كفالة حسن التنفيذ عن الموعد المحدد في البند السابق فإنه يحق لـ (AAUP) الغاء الإحالة.
- 10. إذا تخلف المناقص الفائز عن التوقيع على عقد التنفيذ و تسليم الكفالات والتأمينات المطلوبه منه خلال أسبوع من تاريخ قرار الاحالة، يعتبر مستنكفا عن تنفيذ العطاء ويصادر مبلغ الكفالة أو التأمين دخول العطاء بالاضافة الى ذلك يتحمل فرق السعر و/أو اي أضرار أخرى قد تلحق بالجامعة نتيجة استنكافه ويحرم من لمشاركة في عطاءات الجامعة لمدة عام.
- 11.اذا تخلف المناقص الفائز عن تنفيذ العطاء الذي احيل عليه او خالف شرطا من شروط العقد يحق للجامعة مصادرة كفالة دخول العطاء أو حسن التنفيذ أو جزء منها وتنفيذ العطاء مباشرة من الجامعة أو اية جهة تراها مناسبة بالاسعار والشروط والطريقة المناسبة ويتحمل المناقص أي فروقات بالاسعار مضاف اليها 15% من الجمالي قيمة العطاء.
  - 12 يتحمل المناقص المتخلف دفع تعويض بدل اي عطل او ضرر قد يلحق بالجامعة نتيجة لذلك.

- 13. تعاد كفالة حسن التنفيذ بعد استكمال التوريد وجميع شروط العقد أو أوامر الشراء وبموجب الوثائق الأصولية اللازمة للاستلام.
  - 14. على المشاركين في العطاء ارفاق كتالوجات عن المنتج.
- 15. يلتزم من يرسو عليه العطاء بدفع غرامة تأخير بواقع (0.1%) عن كل يوم تأخير من قيمة الأعمال المنجزة عن الوقت المحدد في الاتفاقية، ويتم احتساب هذه الغرامات من الدفعات المستحقة له أو من كفالة حسن التنفيذ.
- 16. يحق لـ (AAUP) إلخاء العطاء دون إبداء الأسباب كما أن (AAUP) غير ملزمة بإحالة العطاء على أقل العروض سعراً دون إبداء الأسباب. ولها أن ترفض كل أو بعض العروض المقدمة لها دون أن يكون لأي من المشاركين الحق في الرجوع إليها بأي خسارة أو ضرر ناجم عن تقديم عرضه ولا يترتب على (AAUP) أي التزامات مادية أو غير مادية مقابل ذلك، كما يحق ل (AAUP) تجزئة العطاء بما تراه مناسبا ودون ابداء أسباب.
- 17. يلتزم من يرسو عليه العطاء بتقديم كفالة بنكية (صيانة) بقيمة (5%) من قيمة الأعمال المنجزة صالحة لمدة عام من تاريخ تسليم الأعمال.
- 18. على المشارك في العطاء تقديم عرضه على أساس المواصفات الفنية االمبينة في وثائق العطاء وبموجب الكميات المرفق.
- 19. لا يجوز للمشارك في العطاء أن يتنازل لأي طرف آخر عن كل أو جزء من أمر الشراء دون الحصول على إذن خطي من (AAUP) مع الاحتفاظ بكامل حقوق (AAUP) وفقاً لشروط أمر الشراء.
- 20. عند دراسة العروض يؤخذ بعين الاعتبار كفاءة المناقص من الناحيتين المالية والفنية وقدرته على الوفاء بالتزامات العطاء وخبرته في تقديم اللوازم المطلوبة والسمعة التجارية والتسهيلات التي يقدمها ويجوز استبعاد عرضه لنقص كل أو بعض هذه المتطلبات.
  - 21. لا تقبل العروض أو التعديلات التي ترد بعد التاريخ والموعد المحدد كآخر موعد لتقديم العروض.
    - 22. يجب تعبئة جداول المواصفات المرفقة و لن ينظر بأي عرض لا يلتزم بتعبئة الجداول.
      - الله ويسمح بتقديم عرضين اثنين فقط كحد اقصى لكل بند.
    - \* يجب تقديم عرضي الاسعار الفني والمالي بنسختين: الأولى ورقية، والأخرى الكترونية (محوسبة).
  - خ تقديم العرضين المالي والفني الورقيين بالظرف المختوم، مع ضرورة وضع ختم الشركة والتوقيع على كل الصفحات (للعرض المالي بالذات).



(3)

## طريقة الدفيع

خلال (90) يوماً من التوريد والقبول والاستلام النهائي، مقابل تقديم الكفالات المطلوبة.



# الجزء الثانى

# 1. جدول الكميات والمواصفات الفنية أجهزة مختبرات علمية

No.	Product	Qty	Unit Price USD	Total Price USD
1.	Incubator	1		
2.	Binocular Microscope	28		
3.	میکروسکوب Dissecting Microscope	1		
4.	Bench top Centrifuge (16 tubes )	4		
5.	Water bath	1		
6.	Vertical Autoclave	1		
7.	Benchtop PH meter.	3		
8.	Water Distiller	1		
9.	Vortex mixer	1		
10.	Colony counter	1		
11.	Micropipette (0.5-10µI)	5		
12.	Micropipette (5-50µI)	7		
13.	Micropipette (20-200µI)	7		
14.	Micropipette (100-1000μl)	7		
15.	Micropipette (1000-5000µI)	7		
16.	(3 digits) balance	2		
17.	Hotplate and stirrer	3		
18.	Vibrator/shaker	1		
19.	(5 digits) analytical balance	1		

الماعلة النواته

AAUP

No.	Product	Qty	Unit Price USD	Total Price USD
20.	Flaked ice maker	1		
21.	Eliza reader	1		
22.	Spectrophotometer	5		
23.	Biological Safety Cabinet	1		
24.	FUME HOOD	1		
25.	Portable xp pipet-aid Drummond 4-000-201 safe laboratory	2		
26.	Oven	1		
27.	Spirit thermometer (alcohol) ( 0 C-300 C)	3		
28.	Automatic Pipette with Changeable filter Capp	2		
29.	Anaerobic Jar (Polycarbonate, 2.5 L)	1		
•	Total			

في حالة وجود استفسار يرجى تزويدنا بها من خلال البريد الالكتروني للرد عليها pnp@aaup.edu



## **Incubator**

- origin (USA, Europe).
- For general lab application .
- Volume 75 L .
- Temp range: up to 80 C.
- Microprocessor control .
- Adjustable parameter: time, temp, .....
- Self diagnostics for any error.
- · Clear display .
- · Double door one of them glass door .
- resolution of display for setpoint and actual temperature values 0.1°C.
- · programme stored in case of power failure .
- Fast recovery time .
- Two shelves .
- Access port.
- · With temperature calibration certificate.

Incubator 100 L	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery	
	time	
3 years Full warranty	Yes/No	
Country of origin ( USA , Europe )	Yes/No	
For general lab application .	Yes/No	
Microprocessor control	Yes/No	
Volume 75 L .	Yes/No	
Temp range : up to 80 C .	Yes/No	
Adjustable parameter : time , temp ,	Yes/No	
Self diagnostics for any error .	Yes/No	
Clear display .	Yes/No	
Double door one of them glass door .	Yes/No	
resolution of display for set point and actual temperature values 0.1°C.	Yes/No	
program stored in case of power failure .	Yes/No	
Fast recovery time . WITH HEATER 1200 w	Yes/No	
Two shelves .	Yes/No	
With temperature calibration certificate .	Yes/No	
10 years availability for spare parts	Yes/No	
Service and user manual	Yes/No	
Price should be include installation and team training in site	Yes/No	
Date of manufacture the machine not less than 2021		1000

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#### Item 2

# Binocular Microscope (WITH Optional Trinocular head)

Origin: USA, Europe, japan.

Observation modes:

Bright field.

Optical system:

· infinity optical system .

#### Head :

- Two Eyepieces WF 10X/18
- Tube inclination 30 °.
- Rotation 360°.
- Interpupillary: 48-75 mm.
- · Quadruple reverse angle Nosepiece .
- · Anti fungus coating for : objectives , eyepieces , and observation tube .

#### Illumination:

- White LED illumination (adjustable).
- · koehler illumination .

#### Objectives:

- Infinity objectives .
- 4x/0.10, 10x/0.25, 40x/0.65, spring loaded, 100x/1.25, oil, spring loaded.

#### Focusing

adjustable coaxial coarse and fine focusing knob with upper stop.

#### Condenser:

- Abbe Brightfield condenser N.A 1.25, with integrated iris diaphragm and filter tray.
- Condenser and light intensity adjustable.

#### Stage :

- Double layer mechanical stage size: 130 mm X 130 mm
- Stage movement up/down 20 mm.
- X/Y moving : 76 mm-30mm .

#### Power:

220V, 50 HZ.

#### Include :

Dust cover, filter, immersion oil, ) disposable delicate task wipers to clean something, such as
optics, instruction manual and service manual.

#### Optional:

- > Same above specification with trinocular head
- Camera 3 MP resolution (video, capture, live picture) for trinocular adaptor with C mount and SW cables and all accessories.
- \* Kindly your offer will not be taken into our consideration if you don't fill below table.

Binocular Microscope	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin: USA, EUPRE, japan.	Origin	
Delivery time	weeks	
3 years Full warranty 10 years availability for spare parts	Yes/No	
Observation modes:	Yes/No	- Same
Bright field .	YesAlo	1

Binocular Microscope	Yes/No	Comment
Optical system:	Yes/No	
infinity optical system .	Yes/No	
Head :	Yes/No	
Two Eyepieces WF 10X/18	Yes/No	
Tube inclination 30 °.	Yes/No	
Rotation 360 °.	Yes/No	
Interpupillary : 48 -75 mm .	Yes/No	
Quadruple reverse angle Nosepiece .	Yes/No	
Anti fungus coating for : objectives , eyepieces , and observation tube .	Yes/No	
llumination:	Yes/No	
White LED illumination (adjustable).	Yes/No	
koehler illumination .	Yes/No	
Objectives:	Yes/No	
Infinity objectives .	Yes/No	
<ul> <li>4x/0.10, 10x/0.25, 40x/0.65, spring loaded, 100x/1.25, oil, spring loaded.</li> </ul>	Yes/No	
ocusing :	Yes/No	
adjustable coaxial coarse and fine focusing knob with upper stop .	Yes/No	
Condenser :	Yes/No	11.0
Abbe Brightfield condenser N.A 1.25, with integrated iris diaphragm and filter tray .	Yes/No	
Condenser and light intensity adjustable.	Yes/No	
Stage :	Yes/No	
Double layer mechanical stage size : 130 mm X 130 mm .	Yes/No	
Stage movement up/down 20 mm .	Yes/No	
X/Y moving : 76 mm-30mm .	Yes/No	
Power:	Yes/No	
220V, 50 HZ.	Yes/No	
nclude :	Yes/No	
Dust cover , filter , immersion oil , ) disposable delicate task wipers to clean something delicate , such as optics ,instruction manual and service manual .	Yes/No	
Optional :	PRICE \$	PRICE \$
> trinocular MICROSCOPE WITH Same above specification	FRICE \$	TRICE 3
Camera 3 MP resolution (video, capture, live picture) for trinocular adaptor with C mount and SW cables and all accessories.		
rice include installation and team training in site.	Yes/No	
Date of manufacture the machine not less than 2022		



## Bench top Centrifuge (16 tubes )

- Origin : USA , Europe .
- Bench top centrifuge.
- Brushless motor .
- Microprocessor control .
- Control and display :
  - Digital display .
  - actual values are indicated During centrifugation .
  - Speed display: RPM x 100, input in steps of 100
  - RCF key: indication during run.
  - Time (t/min): 1 99 min, continuous operation.
  - Impulse key: For short centrifugation operations.
- Centrifuge chamber: stainless steel.
- Rotor :
  - Easily exchangeable rotors: Capability to use two types of rotor swing out <u>or</u> fixed angle
  - swing out rotor with buckets and lids for buckets (cover for bucket).
  - Two size of buckets : 4 buckets (volume 5 ml test tube) and 4 buckets (15 conical tube).
  - MAX Speed: RFC 2.400 for two types of above tubes volume and buckets.
- Safety:
  - Emergency lid lock release .
  - Imbalance switch-off.
  - Automatic rotor recognition .
- Power: 220 V.

## Optional price:

swing out rotor .

Thermal fuse .

buckets and lids for buckets (cover for bucket): 4 buckets (volume 5 ml) and 4 buckets (volume 15 ml)

Centrifuge	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	weeks	
3 years warranty	Yes/No	
Bench top centrifuge with rotor.	Yes/No	
Brushless motor .	Yes/No	
Microprocessor control .	Yes/No	
Control and display	Yes/No	The state of the s
actual values are indicated During centrifugation	Yes/No	
Speed display: RPM x 100, input in steps of 100	res/No PA	The state of the s

Centrifuge	Yes/No	Comment
RCF key : indication during run .	Yes/No	
Time (t/min): 1 - 99 min, continuous operation.	Yes/No	
Impulse key: For short centrifugation operations .	Yes/No	
Centrifuge chamber : stainless steel .	Yes/No	
Rotor:	Yes/No	
Easily exchangeable rotors : Capability to use two types of rotor swing out or fixed angle	Yes/No	
swing out rotor with all accessories to work with tubes buckets and lids for buckets (cover for bucket).	Yes/No	
Include in your price Two size of buckets: Two size of buckets: 4 buckets (volume 5 ml test tube) and 4 buckets (15 conical tube). with max speed: 2,400 RCF	Yes/No	
Safety:	Yes/No	
Emergency lid lock release, Imbalance switch-off.	Yes/No	
Automatic rotor recognition	Yes/No	
Power : 220 V .	Yes/No	
Date of manufacture the machine not less than 2021		
User's and service manual .	Yes/No	
Price include installation and team training in site.	Yes/No	
10 years availability for spare parts	Yes/No	
Optional price		
swing out rotor	price	
Thermal fuse .	price	
buckets and lids for buckets ( cover for bucket) : 4 buckets ( volume 5 ml ) and 4 buckets ( volume 15 ml )	price	



## Water bath

Origin: Japan, USA, Europe

Volume: 17 L.

#### Control

- microprocessor temperature controller.
- temperature range : 5 100 C□ with resolution 0.1.
- integrated auto diagnostic system with fault indicator .
- Digital display (LED) of set and actual temperature
- Digital timer: 1 min- 95,59 hours.
- Low water Sensor.

#### Visual alarm:

Over temperature protection .

Interior chamber: easy-to-clean interior material 1.4301 (ASTM 304),

corrosion resistant and proof

Exterior chamber: (349 x 288 x 219 mm) made of stainless steel, material no. 1.4301 (ASTM 304), laser-welded ,corrosion resistance and proof.

Shaking device :

Shaker control: shaking frequency (10 – 130 oscillation /min) with holder and clips Stainless steel --Gable cover.

## Electrical:

- 220V 50Hz.
- 1500 W .

With temperature calibration certificate .

## Optional:

- Shaker control: shaking frequency (10 130 oscillation /min) with holder and clips
- cover.
  - Rack for small tubes ( 0.2 ml , 0.5 , 2 ml , 5ml )
  - Clips for small tubes (0.2 ml, 0.5, 2 ml, 5ml)

table.		
WATER BATH	Yes/No	Comment
Manufacture	Manufacture	
Model	Origin	
Origin: USA, Europe , japan	Model	
Delivery time	Time	
3 years Full warranty ,10 years availability for	Yes / No	
spare part		
Volume : 17 L.	Yes / No	
Control:	Yes / No	
microprocessor temperature controller.	Yes / No	1577
temperature range : 5 – 100 C□ with resolution 0.1	Yes / No	Wa Wa

WATER BATH	Yes/No	Comment
integrated autodiagnostic system with fault indicator	Yes / No	
Digital display (LED) of set and actual temperature	Yes / No	
Digital timer: 1 min- 95,59 hours.	Yes / No	
Low water Sensor .	Yes / No	
Visual alarm: Over temperature protection.	Yes / No	
Interior chamber:) easy-to-clean interior material 1.4301 (ASTM 304), corrosion resistant and proof	Yes / No	
Exterior chamber: made of stainless steel, material no. 1.4301 (ASTM 304), laser-welded ,corrosion resistance and proof.	Yes / No	
Shaker control: shaking frequency (10 – 130 oscillation /min) with holder and clips	Yes / No	8
Stainless steel cover .	Yes / No	
Electrical: 220 V 50Hz. 1500 W	Yes / No	
With temperature calibration certificate.	Yes / No	
Price include installation training in site	Yes / No	
User's and service manual	Yes / No	
Date of manufacture the machine not less than 2021		
Optional: - Rack for small tubes ( 0.2 ml , 0.5 , 2 ml , 5ml ) - Clips for small tubes ( 0.2 ml , 0.5 , 2 ml , 5ml ) - Shaker control: shaking frequency (10 – 130 oscillation /min ) with holder and clips cover.		



## Vertical Autoclave

- laboratory application .
- vertical Stem sterilizer and mobile
- Microprocessor control .
- Chamber capacity: chamber volume not less than 70 L
- Cycles: Unwrapped, Wrapped and Porous Loads, Rubber and Heavy duty, liquid.
- Safety Features: Door Safety Features prevents the operator from opening the door if chamber is pressurized or temperature in the chamber is above safety level or any danger may happen to the operator, with Over Heat protection, Safety Valve, Low Water Indicator.
- Manual mode in malfunction case or emergency.
- Built in Vacuum pump for pre and post vacuum.
- Display for (cycle, Temp, pressure, time, status).
- · Auto shutoff at end of cycle.
- User friendly display .
- Cycle information recovery in the case of power failure or cycle interruption
- Water level sensor for Insufficient water detector in chamber or reservoir.
- · Interdependent temperature and pressure control.
- · Power:3 ph.
- · 2 Stainless steel basket .
- · Complete with all standard accessories.
- Operation and service manuals.

Vertical Autoclave 70 L	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years warranty	Yes/No	
laboratory application .	Yes/No	
Vertical Stem sterilizer .	Yes/No	
Microprocessor control .	Yes/No	
Chamber capacity: chamber volume not less than 85 L	Yes/No	
Cycles: Unwrapped , Wrapped and Porous Loads, Rubber and Heavy duty , liquid .	Yes/No	
Safety Features: Door Safety Features prevents the operator from opening the door if chamber is pressurized or temperature in the chamber is above safety level or any danger may happen to the operator, with Over Heat protection, Safety Valve, Low Water Indicator	Yes/No	

Vertical Autoclave 70 L	Yes/No	Comment
Manual mode in malfunction case or emergency .	Yes/No	
Built in Vacuum pump for pre and post vacuum.	Yes/No	
Display for ( cycle , Temp, pressure ,time , status ) .	Yes/No	
Auto shutoff at end of cycle .	Yes/No	
Cycle information recovery in the case of power failure or cycle interruption	Yes/No	
Water level sensor for Insufficient water detector in chamber or reservoir .	Yes/No	



## Benchtop PH meter.

Brand name, USA, Europe origin

Applications : general laboratory use . Parameter : PH . mV , Temp ,

Bench top

PH range: -1 - 14

Temperature range : - 5 - 105 C□.

PH and temperature probe (plastic not glass).

Accuracy : 2%

Temperature: manual by key or automatic recognized by probe (ATC).

Easy to read on a large screen

calibration: automatic one or two point for buffer (4, 7, 10).

memory :memory data and calibration memory . Include startup set buffer Solution . (4,7,14).

Stand for probes .

Dust cover

Water proof.

Complete system and ready to use with all necessary solution for (calibration, cleaning, storage) and probe stand.

## Optional Accessories (quote it separately ) : PH probe

Bench top PH meter	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery	
	time	
3 years warranty and 10 years availability for spare parts	Yes/No	
Applications : general laboratory use .	Yes/No	
Parameter : PH . mV , Temp .	Yes/No	
PH range: -1 – 14 .	Yes/No	
Temperature range : - 5 - 105 C□ .	Yes/No	
PH and temperature probe (plastic not glass).	Yes/No	
Accuracy: 2%.	Yes/No	
Temperature :manual by key or automatic recognized by probe ( ATC)	Yes/No	
calibration : automatic one or two point for buffer (4,7,10)	Yes/No	
memory data and calibration memory Easy to read on a large screen	Yes/No	
You price Include startup set buffer Solution . (4, 7, 14)	Yes/No	
With Stand for probes , Dust cover , Water proof	Yes/No	
Complete system with all necessary solution for	Yes/No	
(calibration, cleaning ,storage ) and probe with probe stand .		
Optional price : PH probe	Price	1
		المالة من اللها

## Water Distiller

- Brand name
- Origin: Japan , USA , Europe
   Fully automatic Water distiller .
- Output capacity : 8L/Hour.
- Single distillation .
- Pyrogen free .
- PH: 5-6.
- Conductivity approx. : from( 1.5- 2.5 )µS. cm-¹.
- Power rating: 6 kw.
- Automatic cleaning mode.
- Safety Water level sensor ( mim and max level ) for tap water chamber ( tank of distillation )
- protection sensor for Over temperature of heaters.
- Wall mounted ( supplied with all necessary connection and hoses to connect to inlet and outlet water ).
- Tap water flow (min): 2 liters. min-1
- Tap water Pressure min-max : 20 600kPa.
- Complete Reservoir level control with the accessories can be fitted to tank to turn the still off when reservoir is full and restart it when the level of water distiller reduced ( without reservoir).
- Three phase
- Price include installation and team training in site.
- Price include all necessary accessories to working the distiller.
- service and user manuals Included .

Manufacture Origin Model Cat No Date of manufacture	
Model Cat No Date of	
Cat No Date of	
Date of	
time	
Yes / No	A CONTRACTOR OF THE PARTY OF TH
Yes / No	AND CHI
	Yes / No

Water Distiller	Yes/No	Comment
Automatic cleaning mode ( for internal chamber )	Yes / No	
Wall mounted (supplied with all necessary connection and hoses to connect to inlet and outlet water	Yes / No	
inputof Tap water flow (min): 2 liters. min-1.	Yes / No	
Tap water Pressure min- max :20 - 600kPa.	Yes / No	
three phase		
Price include installation and team training in site	Yes / No	
Price include all necessary accessories to working of water distiller	Yes / No	
Date of manufacture not less than 2021		



## Vortex mixer

- · Brand name , USA, Europe origin
- Vortex Tube .
- Speed control : 200 2000 rpm .
- Two modes : touch or continuous of mixing .
- Universal rack that accommodate 1.5ml, 15ml,50ml tubes .

Vortex mixer	Yes/NO	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years warranty 10 years availability for spare parts	Yes/No	
Application : General Laboratory .	Yes/No	
Vortex Tube .	Yes/No	
Speed control: 200 - 2000 rpm.	Yes/No	
Two modes: touch or continuous of mixing.	Yes/No	
Universal rack that accommodate 1.5ml, 15ml,50ml tubes	Yes/No	
User's and service manual .	Yes/No	
Price include installation and team training in site.	Yes/No	



## Colony counter

For counting bacteria in different size of petri dishes . Illumination lamp . Magnifying glass

Colony counter	Yes/NO	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
Two years warranty	Yes/No	
For counting bacteria different size of petri dishes .	Yes/No	
Illumination lamp .	Yes/No	
Magnifying glass	Yes/No	
Price include installation and team training in site.	Yes/No	



## ( 3digits) balance

- Brand name , USA, Europe origin
- Capacity: 2000 g.
- with cover
- Readability: 0.001 g
- 3 digits .
- Internal & external calibration .
- Display :LCD .
- Unit: Milligram, Gram, .......
- Stainless steel pan (resistance to chemicals).
- Power : AC adaptor (supplied) or internal rechargeable battery.
- With calibration certificate .
- Kindly your offer will not be taken into our consideration if you don't fill below table.

3 digit Balance	Yes/No	Comment
Manufacture	Manufacture	
Model	Mode/	
Origin	Origin	
Delivery time	Delivery time	
3 years warranty and 10 years availability for spare parts	Yes/Na	
Capacity: 2000 g.	Yes/No	
Readability :0.001g	Yes/No	
With cover	Yes/No	
Display :LCD.	Yes/No	
Unit: Milligram, Gram,	Yes/No	
Stainless steel pan (resistance to chemicals).	Yes/No	
Internal & external calibration	Yes/No	
Power : AC adaptor (supplied) or internal rechargeable battery	Yes/No	
With calibration certificate .	Yes/No	



## Hotplate and stirrer

- Brand name , USA, Europe origin
- Ceramic heating plate with protective layer and resistance to chemicals.
- Speed Control: up to 1000 rpm.
- Stirring volume: up to 2L.
- With stirrer bar
- Temperature range control: up to 200 C□.
- Optional price :

Heater , thermostat , stirring bar and stir bar removal , holding rod .

Hot plate stirrer	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years Full warranty		
Ceramic heating plate with protective layer and resistance to chemicals.	Yes/No	
Speed Control: up to 1000 rpm.	Yes/No	
With stirrer bar		
Stirring volume: up to 2 L.	Yes/No	
Temperature range control: up to 200 C□.	Yes/No	
Power : 220 V .	Yes/No	
Price include installation training in site	Yes/No	
User's and service manual	Yes/No	
10 years availability for spare parts	Yes/No	
Optional price :		
Heater , Thermostat , stirring bar and stir bar removal , holding rod .	Price	



## Vibrator/shaker

Brand name , USA, Europe origin

Capacity: 8 or 10 flasks different sizes

vibration: orbit performs gentle mixing for small sample .

Variable speed: 150 - 2000 rpm .

Time : 0 - 120 min

With clip for flask and clamps .

Vibrator/shaker	Yes/No	Comment
Manufacture	Manufacture	
	Model	
Model	Origin	
Origin: USA , Europe .	weeks	
Delivery time	Yes/No	
3 years Full warranty 10 years availability for spare	Tes/No	
parts	57 181	
Capacity: 8 or 10 flasks different sizes	Yes/No	
vibration: orbit performs gentle mixing for small sample	Yes/No	
Variable speed: 150 - 2000 rpm .	Yes/No	
Time : 0 - 120 min	Yes/No	
With clip for flask and clamps .	Yes/No	
Capacity: 8 or 10 flasks different sizes	Yes/No	
vibration: orbit performs gentle mixing for small sample	Yes/No	
	Ventile	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021	Yes/No	
Price include installation and training in site	Yes/No	
With service and users manual	Yes/No	



## (5 digits) analytical balance

- Brand name , USA, Europe origin
- Capacity: 200 g.
- with cover
- Readability :0. 01 mg
- Display :LCD .
- Unit: Milligram, Gram, .......
- Stainless steel pan (resistance to chemicals).
- Power: AC adaptor (supplied) or internal rechargeable battery.
- With calibration certificate .
- Kindly your offer will not be taken into our consideration if you don't fill below table.

Balance	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
Capacity: 200 g.	Yes/No	
Readability :0.01mg	Yes/No	
With cover		
Display :LCD.	Yes/No	
Unit: Milligram, Gram,	Yes/No	
Stainless steel pan (resistance to chemicals).	Yes/No	
Power : AC adaptor (supplied) or internal rechargeable battery	Yes/No	
Power : 220 V .	Yes/No	
Internal and external calibration .		
User's and service manual .	Yes/No	
Price include installation and team training in site.	Yes/No	
3 years warranty	Yes/No	
10 years availability for spare parts	Yes/No	



## Flaked ice maker

• Origin: USA, Europe.

Application: General Laboratory.
Flake Production for 24 H: 395lbs.

· Storage tank: 80 lbs..

• Dimensions: 24.25" W x 24" D x 33" H

• BTU Per Hour: 3,000.

Power: 220 V.Water cooling .

Kindly your offer will not be taken into our c  Flaked ice maker	Yes/NO	Comment
Manufacture	Manufacture	
Model	Wodel	
Origin	Origin	
Delivery time	Delivery	
	time	
3 years warranty 10 years availability for spare parts	Yes/No	
Application : General Laboratory .	Yes/No	
Flake Production for 24 H: 395lbs.	Yes/No	
Storage tank : 80 lbs.	Yes/No	
Dimensions: 24.25" W x 24" D x 33" H	Yes/No	
BTU Per Hour: 3,000 .	Yes/No	
Power : 220 V.	Yes/No	=
Plz specify water consumption during run (L/H)	( L/H )	
Water cooling .		
Authorization letter from the manufacture to represent them in this offer .	Yes/No	
User's and service manual .	Yes/No	
Price include installation and team training in	Yes/No	
site.		
References in Palestine are Attached to your offer	Yes/No	
10 years availability for spare parts	Yes/No	
Date of manufacture not less than 2021	1,30,501,513	



## Eliza reader

Origin: USA , Europe , Japan . Wide applicability for life science .

Open system Kits .

Could Read: 6-, 12-, 24-, 48-, 96 plate "flat, U, V" shape.

Fully Automatic ELIZA microplate reader

Read Method: Endpoint, kinetic,.

5 filters or more: between 340 - 750 nm

Light Sources: Xenon Flash Lamp. Photometric range: 0.0-3.5 OD.

Accuracy :  $\leq 1.0\%$  or 0.010 from 0.000-3.000 OD at 490 nm . Linearity :  $\leq 1.0\%$  from 0.0-2.0 OD ;  $\leq 2.0\%$  from 0.0-3.0 OD .

Resolution: 0.001 OD.

LAMP : Tungsten halogen lamp With wide and clear Display

Built in Shaker.

Incubator with programmable temperature control.

Fast microplate reading speeds Stores 100 user entered tests.

Complete and Ready to use with all accessories.

Warranty for at least 2 years.

## **Optional Price:**

Lamp.

Brand name PC

performance verification kit NIST-certified to confirm calibration traceability.

Eliza reader	Yes/No	Comment
Manufacture	Manufacture	
Model	Wodel	
Origin: USA, Europe.	Origin	
Delivery time	weeks	
3years Full warranty	Yes/No	
Brand name	Yes/No	
Wide applicability for life science.	Yes/No	
Open system Kits .	Yes/No	
Could Read: 6-, 12-, 24-, 48-, 96 plate " flat , U , V	Yes/No	
" shape.		
Fully Automatic ELIZA microplate reader	Yes/No	
Read Method: Endpoint, kinetic,.	Yes/No	
5 filters or more : between 340 - 750 nm	Yes/No	
Light Sources: Xenon Flash Lamp .	Yes/No	
Photometric range: 0.0-3.5 OD.	Yes/No	
Accuracy : ≤1.0% or 0.010 from 0.000-3.000 OD at 490	Yes/No	
nm.		1
Linearity : ≤1.0% from 0.0–2.0 OD ; ≤2.0% from 0.0–3.0	Yes/No	
OD .	10000	
	11	المان اللمان

Eliza reader	Yes/No	Comment
Resolution: 0.001 OD.	Yes/No	
LAMP : Tungsten halogen lamp	Yes/No	
With wide and clear Display	Yes/No	
Built in Shaker .	Yes/No	
Incubator with programmable temperature control.	Yes/No	
Fast microplate reading speeds	Yes/No	
Stores 100 user entered tests.	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts	Yes/No	
Date of manufacture the machine not less than 2021	Yes/No	
Price include installation and training in site .	Yes/No	
User's and service manual .	Yes/No	
Optional Price:	Yes/No	
Lamp.	Yes/No	
Performance verification kit NIST-certified to confirm calibration traceability .	Yes/No	



## Spectrophotometer

For simple and basic testing - Teaching Spectrophotometer .

Application: from Enzyme to phosphates.

Wavelength from 340 to 950 nm . Photometric Accuracy: ± 2%T . Spectral Slit Width: 20 nm .

Wave length accuracy: ± 2.5 nm near 525 nm.

Very easy to select filter . Digital display : LED

Photometer range and display : T (0-100%) - abs (0-1.95) - CONc (0-1999)

- 0.1 to 1000 Concentration Factor

Price should be include suitable cuvettes for our application and holder (to attached cuvettes and fit to spectrophotometer if needed ) Included with your main price offer .

Extra 1 lamps (include with main price)

Power: 220V.

Your price should be include installation and team training in site.

Spectrophotometer	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	k .
Origin	Origin	
Two years warranty	Yes/No	
Delivery time	Delivery time	
For simple and basic testing and teaching ( chemistry department ).	Yes/No	
Application: from Enzyme to phosphates.	Yes/No	N .
Wave length from 340 to 950 nm.	Yes/No	
Photometric Accuracy: ± 2%T.	Yes/No	
Spectral Slit Width: 20 nm.	Yes/No	
Wave length accuracy : ± 2.5 nm near 525 nm .	Yes/No	
Very easy to select filter .	Yes/No	
Digital display : LED	Yes/No	
Photometer range and display : T (0-100%) - abs (0-1.95) - CONc (0-1999) - 0.1 to 1000 Concentration Factor	Yes/No	
Price should be include suitable cuvettes for our application and holder (to attached cuvettes and fit to spectrophotometer if needed).	Yes/No	All and
Extra 1 lamps ( include with main price )	Yes/No	واد براء

Spectrophotometer	Yes/No	Comment
Power : 220 V .	Yes/No	
User's and service manual .	Yes/No	
Price include installation and team training ( at least run one sample as training ) in site.	Yes/No	
Date of manufacture not less than 2021	Yes/No	
10 years availability for spare parts	Yes/No	
Optional price		
lamps	price	



## **Biological Safety Cabinet**

Bench top: 5 ft.

light: UV, Florescence

Air purification : HEPA Filter: 99.999 %efficiency removal 0.3 um practical I

removal.

Microprocessor control.

Filter replacement warning signal .

Slash opening 8 " with automatic UV shut-off on sash opening .

Noise Level: <40 dBA.

Working area: good quality Stainless steel.

Blower: High efficient centrifugal type with lifetime lubricated bearings.

Electric supply: 220 V.

Electric socket internally .220V

Should have FDA CE approval, NSF listed

Optional price:

HEPA filter with cat. Number . UV Lamp. Fluorescent light.

Lab stool.

Kindly your offer will not be taken into our consideral Biological Safety Cabinet	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	time	
3 years Full warranty	Yes/No	
Bench top: 5 ft.	Yes/No	
light: UV, Florescence	Yes/No	
Air purification: HEPA Filter: 99.999 %efficiency removal 0.3 um practical I removal.	Yes/No	
Microprocessor control .	Yes/No	
Filter replacement warning signal .	Yes/No	
Slash opening 8 " with automatic UV shut-off on	Yes/No	
sash opening	Yes/No	
Noise Level : <40 dBA .	Yes/No	
Working area: good quality Stainless steel.		
Blower : High efficient centrifugal type with lifetime lubricated bearings .	Yes/No	
Optional price :		
HEPA filter with cat. Number .		
UV Lamp. Fluorescent light.		
Lab stool .		
10 years availability for spare parts	Yes/No	
Complete and Ready to use with all accessories	Yes/No	The state of the s
User's and service manual	Yes/No	The state of the s
Date of manufacture not less than 2021	Yes/No	
Price include installation and training in site	Yes/No	BISH ALISME

## **FUME HOOD**

Hood to protects operator from toxic vapor and environment

Application : for general purpose chemistry Lab Working Dimension : 130 cm w x 70 cm D x 75 cm .

Microprocessor control ( clear and simple ) .

Construction and Material: Made of good quality melamine board with good acid and alkali resistance function anti chemical, heat, fire resistant and easily cleanable.

Sash: Tempered Glass vertical rising sash.

Sink, Tap Water, Drainage: At least one sink made of porcelain required inside the hood with inlet and outlet arrangement.

With Gas line water line and electric socket ( water proof ) .

Lighting: fluorescent lamp with vapor proof design .

Blower:

Built-in centrifugal blower for air suction in hood, silent (compatible with above specification).

Adjustable air speed.

casters and locking for casters.

with stand.

Noise level: 55 db.

Ducting:

- chemical resistant rigid and flexible ductwork from hood to exhaust.
- التركيب يشمل توصيل الجهاز لتمديدات وتركيب في الموقع المخصص

\* Kindly your offer will not be taken into our consideration if you don't fill below table.

* Kindly your offer will not be taken into our consideration if you define Fume hood	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3years Full warranty	Yes/No	
Hood to protects operator from toxic vapor and environment	Yes/No	
Application : for general purpose chemistry Lab	Yes/No	
Working Dimension: 130 cm w x 70 cm D x 75 cm.	Yes/No	
Microprocessor control ( clear and simple ) .	Yes/No	
Construction and Material: Made of good quality melamine board with good acid and alkali resistance function anti chemical, heat, fire resistant and easily cleanable.	Yes/No	
Sash : Tempered Glass vertical rising sash.	Yes/No	
Sink, Tap Water, Drainage: At least one sink made of porcelain required inside the hood with inlet and outlet arrangement.	Yes/No	
With Gas line water line and electric socket (water proof).	Yes/No	A STATE OF THE STA
Lighting: fluorescent lamp with vapor proof design .	Yes	131
Blower:	The state of the s	

Purchasing

Fume hood	Yes/No	Comment
Built-in centrifugal blower for air suction in hood, silent (compatible with above specification).		
Adjustable air speed.		
casters and locking for casters .	Yes/No	
with stand.	Yes/No	
Noise level : 55 db.		
Ducting:		
chemical resistant rigid and flexible ductwork from hood to exhaust .	Yes/No	
Price include installation and training in site	Yes/No	
Complete and Ready to use with all accessories	Yes/No	
User's and service manual	Yes/No	
Date of manufacture not less than 2021	Yes/No	



## Oven

- Country of origin (USA, Europe) and brand name.
- For general lab application.
- Volume 65 L .
- Temp range: up to 30 250°C
- Microprocessor control .
- Adjustable parameter: time, temp, .....
- Self diagnostics for any error.
- Clear display.
- resolution of display for setpoint and actual temperature values 0.1°C.
- · programme stored in case of power failure.
- · Fast recovery time .
- Two shelves .
- · Access port.
- With temperature calibration certificate.

Oven	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery	
	time	
3 years Full warranty , 10 years availability for spare parts	Yes/No	
Country of origin ( USA , Europe )	Yes/No	
For general lab application .	Yes/No	
Microprocessor control	Yes/No	
Volume 70 L .	Yes/No	
Temp range: up to 30 - 250°C	Yes/No	
Adjustable parameter : time , temp ,	Yes/No	
Self diagnostics for any error .	Yes/No	
Clear display.	Yes/No	
resolution of display for set point and actual temperature values 0.1°C.	Yes/No	
program stored in case of power failure .	Yes/No	
Fast recovery time .	Yes/No	
Two shelves .	Yes/No	
With temperature calibration certificate .	Yes/No	
Price should be include installation and team training in site	Yes/No	
Date of manufacture the machine not less than 2021	Yes/No	

