



دائرة اللوازم والمشتريات

عطاء رقم (T33 /2019.20)

أجهزة مخبرية

2019-2020



## عطاء أجهزة مخبرية

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- (1) دعوة العطاء
- (2) الشروط والتعليمات التنظيمية للعطاء
- (3) طريقة الدفع

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- (1) جدول الكميات ومواصفات الفنية



## الجزء الأول (1)

إعلان طرح عطاء رقم (T33/2019.20)

## عطاء أجهزة مخبرية

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- 04 2418888- تحويلة 1488 فاكس 04 2510972 بريد الكتروني pnp@aaup.edu مقابل مبلغ غير مسترد مقداره 100 دولار أمريكي تدفع في إحدى البنوك المعتمدة وذلك اعتباراً من يوم (الاثنين) الموافق 2020/2/10

## ملاحظات :

1. تقديم عرضين: فني ومالي، وسيتم دراسة العروض فنياً ومالياً لاختيار العرض المناسب.
2. آخر موعد لتسليم العطاءات هو في تمام الساعة الثانية من يوم (الاثنين) 2020/2/24 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 بالدولار وتشمل جميع الضرائب بما فيها ضريبة القيمة المضافة وعلى المورد تقديم الفواتير الضريبية وشهادة خصم المصدر.
5. الجامعة غير ملزمة بأقل الأسعار وبدون إبداء الأسباب.
6. رسوم الاعلان على من يرسو عليه العطاء.





## الشروط والتعليمات التنظيمية للعبء

(2)

1. على جميع المشاركين في العبء 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 الأمريكية بالاختصار (AAUP)".
3. يجب أن تكون الشركة المتقدمة للعبء 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 تغطي عملية الشراء.
6. يجب أن تشمل الأسعار على جميع المصاريف المطلوبة من النقل والتركيب والتشغيل والفحص والصيانة 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 الأمريكية".
9. إذا تخلف المناقص الفائز عن تقديم كفالة حسن التنفيذ عن الموعد المحدد في البند السابق فإنه يحق لـ (AAUP) إلغاء الإحالة.
10. إذا تخلف المناقص الفائز عن التوقيع على عقد التنفيذ وتسليم الكفالات والتأمينات المطلوبه منه خلال أسبوع من تاريخ قرار الاحالة، يعتبر مستنكفاً عن تنفيذ العبء ويصادر مبلغ الكفالة أو التأمين دخول العبء 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. إذا تخلف المناقص الفائز عن تنفيذ العبء الذي احيل عليه او خالف شرطاً من شروط العقد يحق للجامعة مصادرة كفالة دخول العبء أو حسن التنفيذ أو جزء منها وتنفيذ العبء مباشرة من الجامعة أو اية جهة تراها مناسبة بالاسعار والشروط والطريقة المناسبة ويتحمل المناقص أي فروقات بالاسعار مضاف اليها 15% من اجمالي قيمة العبء.
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 الأصلية 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) إلغاء 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.
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 المبينة في وثائق العطاء وبموجب الكميات المحددة في جدول 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 والموعده المحدد كآخر موعد لتقديم العروض.
22. يجب تعبئة جداول المواصفات المرفقة و لن ينظر بأي عرض لا يلتزم بتعبئة الجداول.

- ❖ ويسمح بتقديم عرضان اثنان فقط كحد اقصى لكل بند.
- ❖ يجب تقديم عرضي الاسعار الفني والمالي بنسختين: الأولى ورقية، والأخرى الكترونية (محواسبة).
- ❖ تقديم العرضين المالي والفني الورقيين بالطرف المختوم، مع ضرورة وضع ختم الشركة والتوقيع على كل الصفحات (للعرض المالي بالذات).



(3)

### طريقة الدفع

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





الجزء الثاني1. جدول الكميات ومواصفات الفنية  
عطاء أجهزة مخبرية

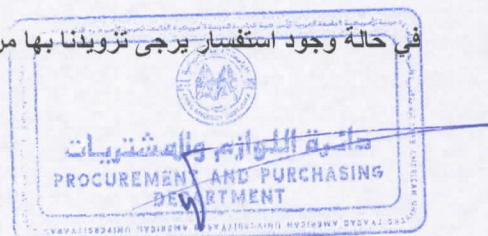
No.	Product	Qty	Unit Price USD	Total Price USD
1.	Incubator	1		
2.	Binocular Microscope	10		
3.	Dissecting microscope	5		
4.	Bench top Centrifuge (16 tubes )	5		
5.	Water bath	4		
6.	Vertical Autoclave 70 L	1		
7.	PH Meter	12		
8.	Water distiller.	2		
9.	Vortex	1		
10.	BACTERIA COLONY COUNTER	2		
11.	Micropipette Pipettes size : 0.5-2.5 ul . For PCR	7		
12.	Micropipette Pipettes size : 1- 10 ul For PCR	7		
13.	Micropipette Pipettes size : 5 – 50 ul For LAB application	7		
14.	Micropipette Pipettes size : 20 – 200 ul For LAB application	7		
15.	Micropipette Pipettes size : 100 – 1000 ul . For LAB application	7		
16.	Micropipette Pipettes size : 1000 – 5000 ul . For LAB application	7		
17.	(3digits ) analytical balance	8		





No.	Product	Qty	Unit Price USD	Total Price USD
18.	Hotplate and stirrer	5		
19.	Vibrator/shaker	1		
20.	( 5digits ) analytical balance	1		
21.	Flaked ice maker	2		
22.	Eliza reader	1		
23.	low -30 C Deep Freezer	1		
24.	Spectrophotometer	11		
25.	Biological Safety Cabinet	1		
26.	FUME HOOD	3		
27.	Hotplate and stirrer	10		
28.	Water-Jet Aspirator Pump	2		
29.	(2digits ) analytical balance	1		
30.	Oven	1		
31.	MELTING POINT APPARTUS	10		
32.	Heating Mental	10		
33.	Blender,"STERILMIXER", 8 speeds ,1.25 liter ,Heat resistant	1		
34.	Portable xp pipet-aid Drummond 4-000-201 safe laboratory	3		
35.	Calorimeter 250 ml with cover	10		
36.	Voltmeter ,3,15,300 V	2		
37.	Low Voltage Power Supply, AC/DC	1		
<b>Total</b>				

في حالة وجود استفسار يرجى تزويدنا بها من خلال البريد الالكتروني للرد عليها [pnnp@aaup.edu](mailto:pnnp@aaup.edu)



## 1. Incubator

- origin (USA , Europe ) and brand name .
- 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 .
- program stored in case of power failure .
- Fast recovery time .
- Two shelves .
- Access port.
- With temperature calibration certificate.
  
- Optional : thermostat .

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

Incubator 100 L	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 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 .	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 2019		





## 2. Binocular Microscope

Origin: USA , EUPRE , 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 delicate (pack : 280 papers / pack ) , such as optics , instruction manual and service manual .

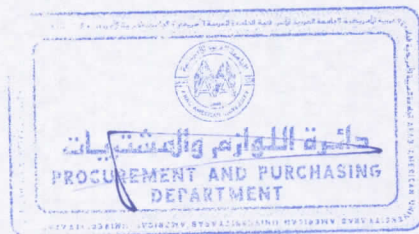
**❖ Kindly your offer will not be taken into our consideration if you don't fill below table.**

<u>Bench top Centrifuge</u>	<u>Yes/No</u>	<u>Comment</u>
Manufacture		
Model		
Origin : USA , EUPRE , japan		
Delivery time		
3 years Full warranty		
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 delicate (pack : 280 papers / pack ) , such as optics ,instruction manual and service manual .		
User's and service manual .		
Price include installation and team training in site.		
10 years availability for spare parts		



### 3. Dissecting microscope

Origin: USA , EUPRE , japan .

Optical system :

- infinity optical system .

Head :

- Two Eyepieces WF 10X/20 diopter adjustable .
- Tube inclination 360 ° .
- Interpupillary : 50 -75 mm .
- Anti fungus coating for : objectives , eyepieces , and observation tube .

Illumination :

- White LED illumination ( adjustable ) .

Focusing :

Zoom stereo microscope .

Zoom ration : 1 : 4.5 x

Include :

- Dust cover

<u>Dissecting microscope</u>	<u>Yes/No</u>	<u>Comment</u>
Manufacture	Manufacture	
Model	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time	Delivery time	
3 years warranty	Yes/No	
Origin: USA , Europe , Japan .	Yes/No	
Optical system :	Yes/No	
• infinity optical system .	Yes/No	
Head :	Yes/No	
• Two Eyepieces WF 10X/20	Yes/No	
• Tube inclination 360 ° .	Yes/No	
• Interpupillary : 50 -75 mm .	Yes/No	
• Anti fungus coating for : objectives , eyepieces , and observation tube .	Yes/No	
Illumination :	Yes/No	
• White LED illumination ( adjustable ) .	Yes/No	
Focusing :	Yes/No	
<b>Zoom stereo microscope .</b>	Yes/No	
<b>Zoom ration : 1 : 4.5 x</b>	Yes/No	
Include :	Yes/No	
<b>Dust cover</b>	Yes/No	
With all stander accessories and connections	Yes/No	
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	
Date of manufacturer not less than 2019		



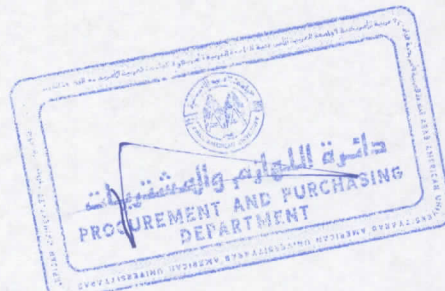


**4. Bench top Centrifuge (16 tubes )**

- **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 **or** fixed angle
  - swing out rotor with buckets and lids for buckets ( cover for bucket) .
  - Two size of buckets : 4 buckets ( **volume 50 ml test tube** ) and 4 buckets ( **15 ml** ) .
  - 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 .**

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

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	
<b>actual values are indicated During centrifugation .</b>	Yes/No	
<b>Speed display : RPM x 100, input in steps of 100</b>	Yes/No	
<b>RCF key : indication during run .</b>	Yes/No	
<b>Time ( t/min ) : 1 - 99 min, continuous operation .</b>	Yes/No	
<b>Impulse key: For short centrifugation operations .</b>	Yes/No	
Centrifuge chamber : <b>stainless steel .</b>	Yes/No	
Rotor :	Yes/No	
<b>Easily exchangeable rotors : Capability to use two types of rotor swing out or fixed angle</b>	Yes/No	
<b>swing out rotor with all accessories to work with tubes buckets and lids for buckets (cover for bucket) .</b>	Yes/No	





Include in your price Two size of buckets : Two size of buckets : 4 buckets ( <b>volume 15 ml test tube</b> ) and 4 buckets ( <b>15 ml</b> ). <b>with max speed : 2,400 RCF</b>	Yes/No	
Safety :	Yes/No	
<b>Emergency lid lock release, Imbalance switch-off .</b>	Yes/No	
<b>Automatic rotor recognition</b>	Yes/No	
Power : 220 V .	Yes/No	
Date of manufacture the machine not less than 2019		
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	



## 5. Water bath

Brand name

Origin: Japan , USA , Europe

**Volume : 22 L .**

**Control**

- microprocessor temperature controller .
- temperature range : 5 – 99.9 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 ( l x w x h ) :**

- ( 570 x 439 x 293 mm ) easy-to-clean interior material 1.4301 (ASTM 304), corrosion resistant and proof

**Exterior chamber ( l x w x h ) :**

- (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 for flasks volume ( 50 , 100 , 200 , 500 ml ) .

**With cover .**

**Electrical :**

- 220V 50Hz.
- 1700 W .

**With temperature calibration certificate .**

**Optional:**

Rack for small tubes ( 0.5 , 2 ml , 5ml )

Clips for small tubes ( 0.5 , 2 ml , 5ml )

Thermostat .

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

WATER BATH	Yes/No	Comment
Manufacture	Manufacture	
Model	Origin	
Origin: USA, Europe , japan	Model	
Delivery time	Time	
3years Full warranty	Yes / No	
<b>Volume : 22 L .</b>	Yes / No	
<b>Control :</b>	Yes / No	
microprocessor temperature controller .	Yes / No	
temperature range : 5 – 99.9 C□ with resolution 0.1	Yes / No	
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	
<b>Visual alarm :</b> Over temperature protection .	Yes / No	
<b>Interior chamber ( l x w x h ) :</b> ( 570 x 439 x 293 mm ) easy-to-clean interior material 1.4301 (ASTM 304), corrosion resistant and proof	Yes / No	





<b>Exterior chamber ( l x w x h ) :</b> (349 x 288 x 219 mm) made of stainless steel, material no. 1.4301 (ASTM 304), laser-welded ,corrosion resistance and proof.	Yes / No	
<b>Shaker control :</b> shaking frequency (10 – 130 oscillation /min ) with holder and clips for flasks volume (50 ,100 , 200 , 500 ml )	Yes / No	
<b>With cover .</b>	Yes / No	
<b>Electrical :</b> 220 V 50Hz. 1700 W	Yes / No	
<b>With temperature calibration certificate.</b>	Yes / No	
Price include installation training in site	Yes / No	
10 years availability for spare parts	Yes / No	
User's and service manual	Yes / No	
Date of manufacture the machine not less than 2019		
Optional : <b>Rack for small tubes (0.5 – 2 m l ) .</b> <b>Clips for small tubes ( 0.5 , 2 ml , 5ml )</b> <b>Thermostat</b>		





## 6. Vertical Autoclave 70 L

- laboratory application .
- Microprocessor control , Double Independent Monitoring.
- 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 , Cycle information recovery in the case of power failure or cycle interruption
- Water level sensor for Insufficient water detector in chamber or reservoir .
- 220 V ,50HZ.
- Stainless steel basket for flasks , cleaning material for cleaning chamber ( enough to 40 run cycles ) .
- with calibration certificate .
- Complete with all standard accessories.

Autoclave 70 L	Yes/No	Comment
Manufacture	Manu	
Model	Model	
Origin	Origin	
Delivery time	D. time	
3 years warranty	Yes/No	
Vertical	Yes/No	
Microprocessor control . Microprocessor control , Double Independent Monitoring.	Yes/No	
Chamber capacity : chamber volume not less than 70 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	
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	
220 V ,50HZ.	Yes/No	
Stainless steel basket for flasks	Yes/No	
Complete with all standard accessories.	Yes/No	
User's and service manual with calibration certificate.	Yes/No	
Price include installation and team training in site.	Yes/No	
10 years availability for spare parts	Yes/No	





## 7. PH Meter

- Applications : PH for general laboratory use .
- Parameter : PH . mV , Temp .
- Bench top .
- PH range : 0 – 13 .
- Resolution : 0.01 .
- Accuracy : 0.01 .
- Temperature range : - 5 - 105 C□ .
- PH and temperature in one probe , Interchangeable probe, Gel filed not refillable & plastic .
- Temperature : manual by key or automatic recognized by probe( integrated temperature in PH probe ) .
- Resolution for reading : 0.01 .
- Easy to read on a large screen .
- calibration : automatic one or two point for buffer ( 4 , 7 , 10 ) .
- memory :memory data and calibration memory .
- Power supply : universal power supply from AC to DC volt .
- Stand for probe.
- Dust cover .
- USB interface .
- Water proof
- Include startup set buffer Solution . ( 4 , 7 , 14 ) .

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

PH Meter	Yes/No	Comments
<b>Manufacture</b>		
<b>Origin</b>		
<b>Model</b>		
Applications : PH for general laboratory use .		
Parameter : PH . mV , Temp .		
Bench top .		
PH range : 0 – 13 .		
Resolution : 0.01 .		
Accuracy : 0.01 .		
Temperature range : - 5 - 105 C□ .		
PH and temperature in one probe , Interchangeable probe, <u>Gel filed not refillable</u> . & plastic		
Temperature : manual by key or automatic recognized by probe( integrated temperature in PH probe ) .		
Resolution for reading : 0.01 .		
Easy to read on a large screen .		
calibration : automatic one or two point for buffer ( 4 , 7 , 10 ) .		
memory :memory data and calibration memory .		
Power supply : universal power supply from AC to DC volt .		





Stand for probe.		
Dust cover .		
USB interface .		
Water proof		
Include startup set buffer Solution . ( 4 , 7 , 14 ) .		
Shelf life for gel PH probe .		
Price include installation and team training .		
3 years warranty .		
User and one service manual		



### 8. Water distiller.

- 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 )□S. cm-□.
- Safety Water level sensor ( min 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-□ .
- Tap water Pressure min-max : 20 – 600kPa.
- Three phase .
- Price include installation and team training ( operation , instruction of cleaning Daly or monthly ) in site .

Options :

- Heater element .

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

Water Distiller	Yes/No	Comment
<b>Manufacture</b>	Manufacture	
<b>Origin</b>	<b>Origin</b>	
<b>Model</b>	<b>Model</b>	
<b>3 years warranty</b>	Yes / No	
<b>Delivery time</b>	<b>time</b>	
<b>Output capacity 8 L/ H</b>	Yes / No	
<b>Single distillation</b>	Yes / No	
<b>Pyrogen free , PH : 5-6</b>	Yes / No	
<b>Power rating : 6 kw</b>	Yes / No	
Safety Water level sensor ( min and max level ) for tap water chamber ( tank of distillation )	Yes / No	
<b>protection sensor for Over temperature of heaters</b>	Yes / No	
<b>Wall mounted ( supplied with all necessary connection and hoses to connect to inlet and outlet water</b>	Yes / No	
<b>three phase</b>	Yes / No	
<b>Price include installation and team training ( operation , instruction of cleaning Daly or monthly ) in site</b>	Yes / No	
<b>Price include all necessary accessories to working of water distiller</b>	Yes / No	
<i>Date of manufacture not less than 2019</i>	Yes / No	





**9. Vortex**

brand name .

Vortex Tube .

Speed control : 200 – 2000 rpm .

Two modes : touch or continuous of mixing .

Universal rack that accommodate 1.5ml, 15ml,50ml tubes &amp; up to 200ml flasks.

Vortex	Yes/NO	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
Two years warranty	Yes/No	
Application : <b>General Laboratory .</b>	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 & up to 200ml flasks.	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 & up to 200ml flasks.	Yes/No	
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	



**10. BACTERIA COLONY COUNTER**

- For counting bacteria growing on area contaminated in different size of petri-dishes.
- For petri-dishes up to 10cm diameter
- Illumination by florescence lamp
- Magnifying glass 100mm on unadjustable focusing arm
- Modes of counting:
- Manual push button
- Needle point probing
- Marking pen probing
- 220V; 50Hz

❖ *taken into our consideration if you don't fill below table.*

	<u>Yes/No</u>	<u>Comment</u>
Manufacture		
Model		
Origin: USA , Europe .		
Delivery time		
3 years Full warranty		
<b>Brand name</b>		
For counting bacteria growing on area contaminated in different size of petri-dishes.		
For petri-dishes up to 10cm diameter		
Illumination by florescence lamp		
Magnifying glass 100mm on unadjustable focusing arm		
Modes of counting:		
Manual push button		
Needle point probing		
Marking pen probing		
220V; 50Hz		
Complete and Ready to use with all accessories.		
10 years availability for spare parts		





## 11-16 Micropipette

Brand name

Good quality.

Two years warranty .

Multichannel pipette variable volume : 0.5 up 300 ul

Pipettes size : 0.5-2.5 ul . For PCR

Pipettes size : 1- 10 ul . For PCR

Pipettes size : 5 – 50 ul . For LAB application

Pipettes size : 20 – 200 ul . For LAB application

Pipettes size : 100 – 1000 ul . For LAB application

Pipettes size : 1000 – 5000 ul . For LAB application



### 17. (3digits ) analytical balance

- Capacity : 200 g .
- with cover
- 3digits .
- Readability :0.001 g
- Display :LCD .
- Unit : Milligram, Gram, .....
- Stainless steel pan (resistance to chemicals) .
- Internal & external calibration .
- 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.

3digit Balance	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years warranty , 10 years availability for spare parts		
Capacity: <b>200 g</b> .	Yes/No	
Readability : <b>0.001g</b>	Yes/No	
3digits .	Yes/No	
With cover		
Display :LCD .	Yes/No	
Unit : <b>Milligram, Gram, .....</b>	Yes/No	
Stainless steel pan (resistance to chemicals).	Yes/No	
Internal & external calibration		
Power : <b>AC adaptor (supplied) or internal rechargeable battery</b>	Yes/No	
With calibration certificate.	Yes/No	
User's and service manual .	Yes/No	
Price include installation and team training in site.	Yes/No	
References in Palestine are Attached to your offer	Yes/No	
<i>Date of manufacture not less than 2019</i>		





### 18. Hotplate and stirrer

- **Brand**
- **Aluminum heating plate with protective layer and resistance to chemicals.**
- **Speed Control : up to 1000 rpm .**
- **Stirring volume : up to 1.5 L .**
- **Temperature range control : up to 200 C□ .**

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

Hot plate stirrer	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years Full warranty		
Aluminum heating plate with protective layer and resistance to chemicals.	Yes/No	
Speed Control : <b>up to 1000 rpm .</b>	Yes/No	
Stirring volume : <b>up to 1.5 L .</b>	Yes/No	
Temperature range control : <b>up to 200 C□ .</b>	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	
Date of manufacture not less than 2019		



## 19. Vibrator/shaker

Capacity : up to 1,5 Kg / 4 microliters plates  
 vibration : orbit performs gentle mixing for small sample .  
 Variable speed: 150 - 125 rpm .  
 Time : 0 - 120 min

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

Vibrator/shaker	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin: USA , Europe .	Origin	
Delivery time	weeks	
3 years Full warranty	Yes/No	
<b>Brand name</b>	Yes/No	
Capacity : up to 1,5 Kg / 4 microliters plates	Yes/No	
vibration : orbit performs gentle mixing for small sample .	Yes/No	
Variable speed: 150 - 125 rpm .	Yes/No	
Time : 0 - 120 min	Yes/No	
Capacity : up to 1,5 Kg / 4 microliters plates	Yes/No	
vibration : orbit performs gentle mixing for small sample .	Yes/No	
Variable speed: 150 - 125 rpm .	Yes/No	
<b>Complete and Ready to use with all accessories.</b>	Yes/No	
10 years availability for spare parts	Yes/No	





**20. ( 5digits ) analytical balance**

- Capacity : 250 g .
  - with cover
  - 3digits .
  - Readability :0. 00001 g
  - Display :LCD .
  - Unit : Milligram, Gram, .....
  - Stainless steel pan (resistance to chemicals) .
  - With glass cover
  - Internal & external calibration .
  - 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.**

5digit Balance	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years warranty , 10 years availability for spare parts		
Capacity: <b>250 g</b> .	Yes/No	
Readability : <b>0.00001g</b>	Yes/No	
5digits .	Yes/No	
With cover		
Display : <b>LCD</b> .	Yes/No	
Unit : <b>Milligram, Gram, .....</b>	Yes/No	
Stainless steel pan (resistance to chemicals).	Yes/No	
Internal & external calibration		
Power : <b>AC adaptor (supplied) or internal rechargeable battery</b>	Yes/No	
With calibration certificate.	Yes/No	
User's and service manual .	Yes/No	
Price include installation and team training in site.	Yes/No	
References in Palestine are Attached to your offer	Yes/No	
<i>Date of manufacture not less than 2019</i>		



## 21. Flaked ice maker

- **Application** : General Laboratory .
- **Flake Production for 24 H** : 235lbs.
- **Storage tank** : 80 lbs. .
- **Dimensions W x D**: 60 X 60 cm
- **BTU Per Hour**: 3,000 .
- **Power** : 220 V.

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

❖ <u>Flaked ice maker</u>	Yes/No	Comment
<u>Manufacture</u>	Manufacture	
<u>Model</u>	Model	
<u>Origin</u>	Origin	
<u>Delivery time</u>	Delivery time	
<u>Application</u> : <b>General Laboratory .</b>	Yes/No	
<u>Flake Production for 24 H</u> : <b>235lbs.</b>	Yes/No	
<u>Storage tank</u> : <b>80 lbs.</b>	Yes/No	
<u>Dimensions W x D</u> : 60 X 60 cm	Yes/No	
<u>BTU Per Hour</u> : <b>3,000 .</b>	Yes/No	
<u>Power</u> : <b>220 V.</b>	Yes/No	
<u>Plz specify water consumption during run ( L/H )</u>	( L/H )	
<u>Authorization letter from the manufacture to represent them in this offer .</u>	Yes/No	
<u>User's and service manual .</u>	Yes/No	
<u>Price include installation and team training in site.</u>	Yes/No	
<u>3 years warranty , 10 years availability for parts</u>	Yes/No	





## 22. Eliza reader

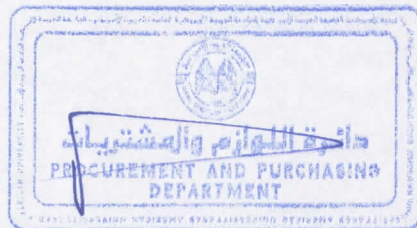
Origin: USA , Europe , Japan .  
 Wide applicability for life science .  
 Open system Kits .  
 Could Read: 6-, 12-, 24-, 48-, 96 plate " flat , U , V " shape .  
 Fully Automatic ELIZA microplate reader  
 Read Method: Endpoint, kinetic,.  
 5 filters or more : between 400 - 750 nm  
 Light Sources: 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.  
 Suitable Data Analysis Software .  
 Complete and Ready to use with all accessories.

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

Eliza reader	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin: USA , Europe .	Origin	
Delivery time	weeks	
3 years Full warranty	Yes/No	
<b>Brand name</b>	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 " shape .	Yes/No	
Fully Automatic ELIZA microplate reader	Yes/No	
Read Method: Endpoint, kinetic,.	Yes/No	
5 filters or more : between 400 - 750 nm	Yes/No	
Light Sources: Xenon Flash Lamp .	Yes/No	
Photometric range : 0.0–3.5 OD .	Yes/No	
Accuracy : $\leq 1.0\%$ or 0.010 from 0.000–3.000 OD at 490 nm .	Yes/No	
Linearity : $\leq 1.0\%$ from 0.0–2.0 OD ; $\leq 2.0\%$ from 0.0–3.0 OD .	Yes/No	
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	
Suitable Data Analysis Software .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	



10 years availability for spare parts	<u>Yes/No</u>	
<i>Optional Price:</i>	<u>Yes/No</u>	
Brand name PC.	<u>Yes/No</u>	
Lamp.	<u>Yes/No</u>	





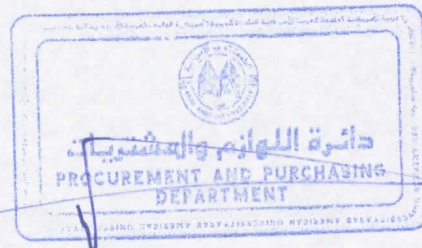
### 23. low -30 C Deep Freezer

Brand name.  
 Origin: USA, Europe , japan.  
 For research lab application.  
 Up right .  
 Volume: minimum 300 L.  
 Temp . Range : up to – 25 C .  
 Shelves : 4 .  
 Fully programmable microprocessor controlled with membrane keypad and eye level control panel .  
 Data Logger: Temp-monitoring system with electronic chart recorder  
 Refrigeration system: Cascade .  
 Minimum temperature recovery time after door opening.  
 lockable outer doors and lids are required.  
**Insulation: polyurethane 90 mm thick.**  
**Must have battery back-up .**  
**Audible and visible alarms for: Temp. High/low, filter check, self-diagnostics, door check, power failure, battery low ,**  
**Smart diagnostics for simpler system diagnostics**  
 Must use CFC-FREE, HCFC-FREE non-flammable refrigerants.  
 Freezers should have heated air vent and front panel air filter.  
 Heavy-duty lockable castors.  
 Noise Level: less than 50 (db).  
 Freezer must have standard quality test requirements and Electrical safety certified.  
**With Temperature calibration certificate.**  
**Warranty: 5 years**  
**Optional:**  
**7 different size Racks with Boxes.**

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

low -25 C Deep Freezer	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin: USA, Europe , japan	Origin	
Delivery time	Delivery time	
<b>Warranty: 5 years</b>	Yes/No	
research lab application.	Yes/No	
Up right .	Yes/No	
Volume: minimum 300 L.	Yes/No	
Temp . Range : up to – 30 C .	Yes/No	
Shelves : 4 .	Yes/No	
Fully programmable microprocessor controlled with membrane keypad and eye level control panel .	Yes/No	
Data Logger: Temp monitoring system with electronic chart recorder	Yes/No	
Refrigeration system : Cascade .	Yes/No	
Minimum temperature recovery time after door opening.	Yes/No	
lockable outer doors and lids are required .	Yes/No	

Insulation: polyurethane 135 mm thick.	Yes/No	
Must have battery back-up .	Yes/No	
Audible and visible alarms for: Temp. High/low, filter check, self-diagnostics, door check, power failure, battery low ,	Yes/No	
Smart diagnostics for simpler system diagnostics	Yes/No	
Must use CFC-FREE, HCFC-FREE non-flammable refrigerants.	Yes/No	
Freezers should have heated air vent and front panel air filter.	Yes/No	
Heavy-duty lockable castors.	Yes/No	
Noise Level: less than 50 (db) .	Yes/No	
Freezer must have standard quality test requirements and Electrical safety certified.	Yes/No	
With Temperature calibration certificate.	Yes/No	
optional:	Yes/No	
7 different size Racks with Boxes .	Yes/No	
10 years availability for spare parts ,	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 2019		





## 24. Spectrophotometer

For simple and basic testing – Teaching Spectrophotometer ( chemistry department ) .

Application : **from Enzyme to phosphates .**

Wavelength **from 330 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 1lamps ( include with main price )

Power : 220V .

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

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

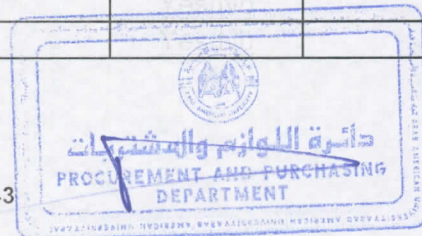


## 25. Biological Safety Cabinet

**Brand name .**  
**Origin : USA , Europe .**  
**Application : research lab .**  
**Dimension : w xd : 110 x 60 cm**  
**With stand**  
**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 consideration if you don't fill below table.**

Biological Safety Cabinet	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	time	
3 years Full warranty	Yes/No	
Dimension : w xd : 110 x 60 cm	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 sash opening	Yes/No	
Noise Level : <40 dBA .	Yes/No	
Working area : good quality Stainless steel . with stand	Yes/No	
Blower : High efficient centrifugal type with lifetime lubricated bearings .	Yes/No	
<b><u>Optional price :</u></b>		
<b>HEPA filter with cat. Number .</b>		
<b>UV Lamp. Fluorescent light.</b>		
<b>Lab stool .</b>		
Should have FDA CE approval , NSF listed		
10 years availability for spare parts		





Complete and Ready to use with all accessories	Yes/No	
User's and service manual	Yes/No	
<i>Date of manufacture not less than 2019</i>	Yes/No	
Price include installation and training in site	Yes/No	



## 26. FUME HOOD

Brand name

Origin: USA , ERUOPE , JAPAN .

Hood to protects operator from toxic vapor and environment

Application : **for general purpose chemistry Lab**

Working Dimension WX D : **110 cm w x 70 cm D .**

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

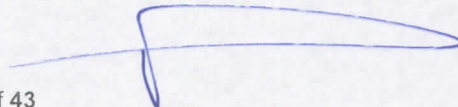
❖ **Kindly your offer will not be taken into our consideration if you don't fill below table**

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 : <b>for general purpose chemistry Lab</b>	Yes/No	
Working Dimension WX D : <b>110 cm w x 70 cm D .</b>	Yes/No	
Microprocessor control ( clear and simple ) .	Yes/No	
Construction and Material: <b>Made of good quality melamine board with good acid and alkali resistance function anti chemical, heat, fire resistant and easily cleanable .</b>	Yes/No	
Sash : <b>Tempered Glass vertical rising sash.</b>	Yes/No	
Sink, Tap Water, Drainage: <b>At least one sink made of porcelain required inside the hood with inlet and outlet arrangement.</b>	Yes/No	
With Gas line water line and electric socket ( water proof ) .	Yes/No	
Lighting: <b>fluorescent lamp with vapor proof design .</b>	Yes/No	
Blower : <b>Built-in centrifugal blower for air suction in hood, silent (compatible with above specification) .</b>	Yes/No	





<b>Adjustable air speed.</b>		
casters and locking for casters .	Yes/No	
with stand .	Yes/No	
Noise level : 55 db.		
Ducting :		
<b>chemical resistant rigid and flexible ductwork from hood to exhaust .</b>	Yes/No	
Should have FDA CE approval , NSF listed	Yes/No	
10 years availability for spare parts	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 2019	Yes/No	



## 27. Hotplate and stirrer

- **Brand**
- **Aluminum heating plate with protective layer and resistance to chemicals.**
- **Speed Control : up to 1000 rpm .**
- **Stirring volume : up to 1.5 L .**
- **Temperature range control : up to 200 C□ .**

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

Hot plate stirrer	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years Full warranty		
Aluminum heating plate with protective layer and resistance to chemicals.	Yes/No	
Speed Control : up to 1000 rpm .	Yes/No	
Stirring volume : up to 1.5 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	
Date of manufacture not less than 2019		

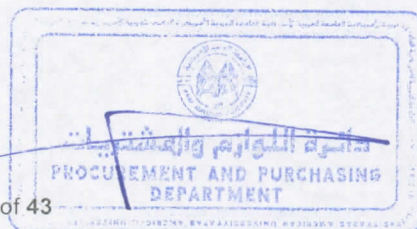




### 28. Water-Jet Aspirator Pump

- For chemistry.
  - Vacuum pump .
  - Built-in circulating pump and water tank make these units portable and eliminate water waste
  - 220v .
- ❖ Kindly your offer will not be taken into our consideration if you don't fill below table.

Water-Jet Aspirator Pump	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years Full warranty		
For chemistry.	Yes/No	
Vacuum pump .	Yes/No	
Built-in circulating pump and water tank make these units portable and eliminate water waste	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	
Date of manufacture not less than 2019		



### 29. (2digits ) analytical balance

- **Capacity : 200 g .**
  - **with cover**
  - **3digits .**
  - **Readability :0. 01 g**
  - **Display :LCD .**
  - **Unit : Milligram, Gram, .....**
  - **Stainless steel pan (resistance to chemicals) .**
  - **Internal & external calibration .**
  - **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.***

2digit Balance	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
3 years warranty , 10 years availability for spare parts		
Capacity: 200 g .	Yes/No	
Readability :0.01 g	Yes/No	
3digits .	Yes/No	
With cover		
Display :LCD .	Yes/No	
Unit : Milligram, Gram, .....	Yes/No	
Stainless steel pan (resistance to chemicals).	Yes/No	
Internal & external calibration		
Power : AC adaptor (supplied) or internal rechargeable battery	Yes/No	
With calibration certificate.	Yes/No	
User's and service manual .	Yes/No	
Price include installation and team training in site.	Yes/No	
References in Palestine are Attached to your offer	Yes/No	
Date of manufacture not less than 2019		





**30. 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 set point and actual temperature values 0.1°C .
- program stored in case of power failure.
- Fast recovery time .
- Two shelves .
- Access port.
- With temperature calibration certificate.

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

Oven	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 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	
10 years availability for spare parts , 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 2019	Yes/No	

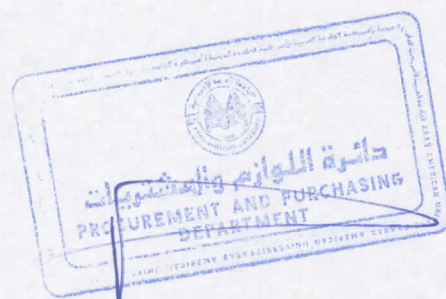


### 31. MELTING POINT APPARTUS

- for educational use .
- Analog melting point .
- Temperature range : Ambient to 300°C .
- Number of samples : up to 3 simultaneously .
- with thermometer and pack of 200 melting point tubes sealed one aside (include with your Unit price )
- Electrical supply :220 v .

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

MELTING POINT APPARATUS	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
for educational use .	Yes/No	
Analog melting point .	Yes/No	
Temperature range : <b>Ambient to 300°C .</b>	Yes/No	
Number of samples : <b>up to 3 simultaneously .</b>	Yes/No	
with thermometer and pack of 200 melting point tubes. sealed one aside	Yes/No	
Power : 220 V .	Yes/No	
User's and service manual .	Yes/No	
Price include installation and team training in site.	Yes/No	
References in Palestine are Attached to your offer	Yes/No	
3 years warranty	Yes/No	
10 years availability for spare parts	Yes/No	
Optional price		
<b>100 melting point tubes closed at one side..</b>	Price	
<b>Heater element</b>		
<b>Thermostat</b>		





### 32. Heating Mental

- Table top heating mental .
- Made from flexible fabrics .
- Fit easy into tight spaces .
- Max temp : 450 C□ .
- The mantles cover the bottom half of single and multi-neck flasks, allowing for full view of contents .
- With temp. controller .
- For flask 250 ml .
- Power : 220V .

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

Heating mental	Yes/No	Comment
Manufacture	Manufacture	
Model	Model	
Origin	Origin	
Delivery time	Delivery time	
Table top heating mental .	Yes/No	
Made from flexible fabrics .	Yes/No	
Fit easy into tight spaces .	Yes/No	
Max temp : 450 C□ .	Yes/No	
The mantles cover the bottom half of single and multi-neck flasks, allowing for full view of contents	Yes/No	
For flask 250 ml .	Yes/No	
Temperature control included	Yes/No	
Power : 220 V .	Yes/No	
3 years warranty	Yes/No	
10 years availability for spare parts	Yes/No	
Optional price		
<b>Thermostat ..</b>		
<b>Heater element</b>		

