



دائرة اللوازم والمشتريات

عطاء رقم (T06 -2021.22)

أجهزة فحوصات غذائية

2021-2022



عطاء أجهزة فحوصات غذائية

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الجزء الأول (1)

إعلان طرح عطاء رقم T06-2021.22

أجهزة فحوصات غذائية

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 20/12/2021

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) 2022/1/10 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.
5. 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 للعبء

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 الامريكية 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 الامريكية".
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 و تسليم الكفالات والتأمينات المطلوبه منه خلال أسبوع من تاريخ قرار الاحالة، يعتبر مستنكفا عن تنفيذ العبء ويصادر مبلغ الكفالة أو التأمين دخول العبء بالإضافة 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 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) 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، كما يحق لـ (AAUP) تجزئة العطاء بما تراه مناسباً ودون إبداء 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 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 والموعد المحدد كآخر موعد لتقديم العروض.
22. يجب تعبئة جداول المواصفات المرفقة و لن ينظر بأي عرض لا يلتزم بتعبئة الجداول.

❖ ويسمح بتقديم عرضين اثنين فقط كحد أقصى لكل بند.

❖ يجب تقديم عرضي الاسعار الفني والمالي بنسختين: الأولى ورقية، والأخرى الكترونية (محواسبة).

❖ تقديم العرضين المالي والفني الورقيين بالظرف 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 الثاني

1. جدول الكميات والمواصفات الفنية
عطاء أجهزة فحوصات غذائية

No.	Product	Qty	Unit Price USD	Total Price USD
1.	Analytical Balance	1		
2.	Automatic nitrogen and protein analyzer	1		
3.	Balance	1		
4.	Bench top PH Meter	1		
5.	Binocular Microscope	1		
6.	Cooled Incubator	1		
7.	DIGITAL BENCHTOP HOMOGENIZER	1		
8.	Digital Salinometer	1		
9.	Digital T- Handle Thermometer	1		
10.	Diode Array NIR Analysis System	1		
11.	Homogenizer	1		
12.	Hot Air Oven	1		
13.	HPLC High Performance Liquid Chromatography	1		
14.	Legionella Thermometer Kit	1		
15.	Meat Analyzer	1		
16.	Automated Milk Analyzers	1		
17.	Olive Analyzer	1		
18.	Real-Time Q-PCR	1		
19.	Penetration/infrared thermometer	1		
20.	Refractometer	1		
21.	SCC and DSCC Analyzer	1		
22.	Spectrophotometer	1		
23.	Vertical Autoclave	1		
Total				

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



Item 1

Analytical Balance**Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * Capacity : 250 g .
- * with cover
- * 3 digits .
- * 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

Safety and Training:

- * User and service manual in English.
- * Full application training for the operators on site.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات

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

Analytical Balance	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Capacity : 250 g .	Yes/No	
with cover	Yes/No	
3 digits .	Yes/No	
Readability :0. 00001 g	Yes/No	
Display :LCD .	Yes/No	
Unit : Milligram, Gram,	Yes/No	
Stainless steel pan (resistance to chemicals) .	Yes/No	
With glass cover	Yes/No	
Internal & external calibration .	Yes/No	
Power : AC adaptor (supplied) or internal rechargeable battery.	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	

Item 2**Automatic nitrogen and protein analyzer****(Fully automated analyser (distillation, colorimetric titration, calculation), using the global reference method for protein determination)****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO , Japan**

- * User friendly: sample presentation and easy to operate.
- * Sample type: Feed, feed ingredients, forage, pet food, grain, cereal, oil seeds, meat, meat products, milk, dairy products, beer and beer ingredients.
- * Parameters: Nitrogen, protein, Non Protein Nitrogen (NPN) and volatiles (TVBN and more).
- * Sample capacity: 60-100 Sampels.
- * Analysis time: 3 – 6 min, depending on sample type and quantity.
- * Helium detection limits: 0.02 – 50 mg N absolute.
- * Large expandable internal memory for calibrations, methods and history results.
- * Clear and reproducible results.
- * Time management system.
- * Power Supply : 220V 50/60Hz.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * Full service training for one engineer at the manufacturer.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

❖ تلتزم الشركة بالتصريح عند احتياجات الجهاز والتجهيزات اللازمة للتشغيل والبيئة المحيطة به (غازات، مياه، تهوية،....) مسبقاً في عرض السعر المقدم للجامعة.

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

SCC and DSCC Analyzer	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
User friendly: sample presentation and easy to operate.	Yes/No	
Sample type: Feed, feed ingredients, forage, pet food, grain, cereal, oil seeds, meat, meat products, milk, dairy products, beer and beer ingredients.	Yes/No	

Parameters: Nitrogen, protein, Non Protein Nitrogen (NPN) and volatiles (TVBN and more).	Yes/No	
Sample capacity: 60-100 Sampels.	Yes/No	
Analysis time: 3 – 6 min, depending on sample type and quantity.	Yes/No	
Helium detection limits: 0.02 – 50 mg N absolute.	Yes/No	
Large expandable internal memory for calibrations, methods and history results.	Yes/No	
Clear and reproducible results.	Yes/No	
Time management system.	Yes/No	
Power Supply : 220V 50/60Hz	Yes/No	
تلتزم الشركة بالتصريح عند إحتياجات الجهاز والتجهيزات اللازمة للتشغيل والبيئة المحيطة به (غازات، مياه، تهوية،....) مسبقاً في عرض السعر المقدم للجامعة.	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Full service training for one engineer at the manufacturer	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 3

Balance**Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * Capacity: 0.2-5 kg.
- * With cover
- * 3 digits.
- * Readability: 0.1 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.

Safety and Training:

- * User and service manual in English.
- * Full application training for the operators on site.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

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

<u>Balance</u>	<u>Yes/No</u>	<u>Comment</u>
Manufacture .	Manufactur e	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Capacity: 0.2-5 kg.	Yes/No	
With cover	Yes/No	
3 digits.	Yes/No	
Readability: 0. 1 g	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	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	

Item 4**Bench top PH Meter****(PH meter for food safety laboratory use)****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO , Japan**

- * Applications: PH for general and food safety laboratories use.
- * Parameter: PH. mV, Temp.
- * Bench top.
- * PH range: -2 – 20
- * Resolution: 0.001
- * Accuracy: 0 .001
- * Temperature range: -30 – 130 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: 0.001 .
- * 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 start-up set buffer Solution (4,7,14).

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

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

Bench top PH Meter	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	

Applications: PH for general and food safety laboratory use.	Yes/No	
Parameter: PH. mV, Temp.	Yes/No	
Bench top.	Yes/No	
PH range: -2 – 20	Yes/No	
Resolution: 0.001	Yes/No	
Accuracy: 0 .001	Yes/No	
Temperature range: -30 – 130 C .	Yes/No	
PH and temperature in one probe, Interchangeable probe, Gel filed not refillable & plastic.	Yes/No	
Temperature: manual by key or automatic recognized by probe(integrated temperature in PH probe).	Yes/No	
Resolution for reading: 0.001 .	Yes/No	
Easy to read on a large screen.	Yes/No	
calibration: automatic one or two point for buffer (4,7,10).	Yes/No	
memory: memory data and calibration memory .	Yes/No	
Power supply: universal power supply from AC to DC volt.	Yes/No	
Stand for probe.	Yes/No	
Dust cover.	Yes/No	
USB interface.	Yes/No	
Water proof	Yes/No	
Include startup set buffer Solution (4,7,14)	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 5**Binocular Microscope****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO, 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 Bright field 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.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات



❖ 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 , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Observation modes: Bright field.	Yes/No	
Optical system: infinity optical system.	Yes/No	
Head:		
- 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	
Illumination :		
- White LED illumination (adjustable)	Yes/No	
- Koehler illumination.	Yes/No	
Objectives :		
- Infinity objectives.	Yes/No	
- 4x/0.10, 10x/0.25, 40x/0.65, spring loaded, 100x/1.25, oil, spring loaded.	Yes/No	
Focusing : Adjustable coaxial coarse and fine focusing knob with upper stop.	Yes/No	
Condenser :		
- Abbe Bright field condenser N.A 1.25, with integrated iris diaphragm and filter tray	Yes/No	
- Condenser and light intensity adjustable.	Yes/No	
Stage :		
- 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: 220V, 50 HZ.	Yes/No	
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.	Yes/No	
System should be CE/ISO certified	Yes/No	



User, Application and service manuals .	Yes/No	
Price include installation with application training in site	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 6**Cooled Incubator****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * For Food lab application.
- * Convection Type: Forced Air Circulation.
- * Volume: 100-150 L.
- * Temp range: -5 – 70 C.
- * Microprocessor control.
- * Adjustable parameter: time, temp, air flow.... .
- * Self-diagnostics for any error.
- * Clear display.
- * Resolution of display for set point and actual temperature values 0.1C.
- * Program stored in case of power failure.
- * Fast recovery time.
- * 3 shelves minimum.
- * Access port.

Safety and Training:

- * User and service manual in English.
- * Full application training for the operators on site.

❖ السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركييب في عرض السعر من ملحقات ومتطلبات.

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

Cooled Incubator	Yes/No	Comment
Manufacture .	Manufactur e	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
For Food lab application.	Yes/No	
Convection Type: Forced Air Circulation.	Yes/No	
Volume: 100-150 L.	Yes/No	
Temp range: -5 – 70 C.	Yes/No	
Microprocessor control.	Yes/No	
Adjustable parameter: time, temp, air flow.... .	Yes/No	
Self-diagnostics for any error.	Yes/No	
Clear display.	Yes/No	
Resolution of display for set point and actual temperature values 0.1C.	Yes/No	

Program stored in case of power failure.	Yes/No	
Fast recovery time.	Yes/No	
3 shelves minimum.	Yes/No	
Access port.	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 7

DIGITAL BENCHTOP HOMOGENIZER**Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * Food Laboratory application.
- * Speed Range: 4.0m/s - 7.0m/s (in steps of 0.05m/s).
- * Cycle Duration: 1~90s (in steps of 1s).
- * Pause Time: 0~2 minutes.
- * Acceleration: ≤2 sec. to max. speed.
- * Deceleration: ≤2 sec. to stop.
- * Programmable: 40 Saved Programs.
- * Number of Cycles 10.
- * Suitable Rotors .
- * Display: LED.
- * Number of Samples: 1~24 samples.
- * Speed:2400~4300 rpm.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

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

DIGITAL BENCHTOP HOMOGENIZER	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Food Laboratory application.	Yes/No	
Speed Range: 4.0m/s - 7.0m/s (in steps of 0.05m/s).	Yes/No	
Cycle Duration: 1~90s (in steps of 1s).	Yes/No	
Pause Time: 0~2 minutes.	Yes/No	

Acceleration: ≤2 sec. to max. speed.	Yes/No	
Deceleration: ≤2 sec. to stop.	Yes/No	
Programmable: 40 Saved Programs.	Yes/No	
Number of Cycles 10.	Yes/No	
Suitable Rotors .	Yes/No	
Power supply: 220V, 50HZ.	Yes/No	
Display: LED.	Yes/No	
Number of Samples: 1~24 samples.	Yes/No	
Speed:2400~4300 rpm	Yes/No	
Complete with all accessories.	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 8**Digital Salinometer****Brand name.****2 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * With LED LCD dual display, the measurement results can be clearly and visually displayed.
- * Hand-held design, small in size, light in weight, easy to carry around.
- * Measuring method: Conductivity measuring method.
- * Salinity detection range: 0-9999 mg/L.
- * Salinity Resolution: 1mg/L
- * Salinity Accuracy: $\pm 2\text{mg/L} \pm 2\% \text{FS}$
- * Application for: water (all water types), dilute solution of soy sauce, ketchup, mayonnaise, sauces, squeezed juice of pickles, etc..
- * Made of high-quality materials, corrosion-resistant, wear-resistant and durable.
- * With data hold function, easy to operate, convenient to use.
- * Power supply: lithium battery or button battery.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات.

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

Digital Salinometer	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
With LED LCD dual display, the measurement results can be clearly and visually displayed.	Yes/No	
Hand-held design, small in size, light in weight, easy to carry around.	Yes/No	

Measuring method: Conductivity measuring method.	Yes/No	
Salinity detection range: 0-9999 mg/L.	Yes/No	
Salinity Resolution: 1mg/L	Yes/No	
Salinity Accuracy: $\pm 2\text{mg/L} \pm 2\%\text{FS}$	Yes/No	
Application for: water (all water types), dilute solution of soy sauce, ketchup, mayonnaise, sauces, squeezed juice of pickles, etc..	Yes/No	
Made of high-quality materials, corrosion-resistant, wear-resistant and durable.	Yes/No	
With data hold function, easy to operate, convenient to use.	Yes/No	
Power supply: lithium battery or button battery	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 9**Digital T- Handle Thermometer**

(Penetration thermometer combined for food core temperature measurements).

Brand name.**2 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * Application: For food temperature use.
- * With LED or LCD dual display.
- * The measurement results can be clearly and visually displayed.
- * Hand-held design(T), small in size, light in weight, easy to carry around.
- * Auto power off.
- * Audible and optical alarm.
- * With standard measuring tip.
- * Penetration probe measuring range: -60 to +280 °C.
- * Accuracy: +/- 1 C
- * Resolution: 0,1 °C
- * Stem Length: 15cm minimum.
- * Sampling: 0.5 second
- * Water proof.
- * Power supply: lithium battery or button battery.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات.

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

Digital T- Handle Thermometer	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Application: For food temperature use.	Yes/No	

With LED or LCD dual display.	Yes/No	
The measurement results can be clearly and visually displayed.	Yes/No	
Hand-held design(T), small in size, light in weight, easy to carry around.	Yes/No	
Auto power off.	Yes/No	
Audible and optical alarm.	Yes/No	
Penetration probe measuring range: -60 to +280 °C.	Yes/No	
Accuracy: +/- 1 C	Yes/No	
Resolution: 0,1 °C	Yes/No	
Stem Length: 15cm minimum.	Yes/No	
Sampling: 0.5 second	Yes/No	
Water proof.	Yes/No	
Power supply: lithium battery or button battery.	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 10**Diode Array NIR Analysis System**

(The system designed specifically for analysis in the food and agri industries. Gives wide range of applications, and measures moisture, protein, fat, fiber, starch and many other parameters in all types of samples – powders, pellets, grains, pastes, cakes, meal, and slurries)

Brand name.

4 years warranty, 10 years availability spare parts.

Origin: USA, EURO , Japan

- * Analysis time: 6-60 seconds.
- * Measurement mode: Down view reflection or transfectance .
- * Wavelength range: 850 - 2500 nm .
- * Sample types: Unground grains and pellets, powders, pastes, slurries, liquids, Compound feed, grains/cereals, vegetal protein meals, vegetal by-products, animal by-product/rendering and forages.
- * Parameters: Fat, protein, moisture, ash, starch and crude fiber plus the option to develop additional calibrations such as amino acids, NDF, ADF and more..
- * Sample volume: Flexible 1-400 mL, depending on sample type.
- * User friendly: sample presentation and easy to operate.
- * Large expandable internal memory for calibrations, methods and history results.
- * Clear and reproducible results.
- * Time management system.
- * Power Supply : 220V 50/60Hz.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * Full service training for one engineer at the manufacturer.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركييب في عرض السعر من ملحقات ومتطلبات

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

Olive Analyzer	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	

4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Analysis time: 6-60 seconds.	Yes/No	
Measurement mode: Down view reflection or transfectance .	Yes/No	
Wavelength range: 850 - 2500 nm .	Yes/No	
Sample types: Unground grains and pellets, powders, pastes, slurries, liquids, Compound feed, grains/cereals, vegetal protein meals, vegetal by-products, animal by-product/rendering and forages.	Yes/No	
Parameters: Fat, protein, moisture, ash, starch and crude fiber plus the option to develop additional calibrations such as amino acids, NDF, ADF and more..	Yes/No	
Sample volume: Flexible 1-400 mL, depending on sample type.	Yes/No	
User friendly: sample presentation and easy to operate.	Yes/No	
Large expandable internal memory for calibrations, methods and history results.	Yes/No	
Clear and reproducible results.	Yes/No	
Time management system.	Yes/No	
Power Supply : 220V 50/60Hz.		
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Full service training for one engineer at the manufacturer	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 11

Homogenizer

(It is a device that does the specimen material and the sterilized dilution that entered the sterilization bag in homogenizer. It's able to crush specimens containing boiled fish paste products, lettuce, cabbage, and sliced products).

Brand name.

4 years warranty, 10 years availability spare parts.

Origin: USA, EURO, Japan

- * For Food lab use.
- * Timer: 15, 30, 60sec. manual (continuousness for ten minutes).
- * Power supply: AC220V 50/60Hz.
- * The door with the window can be detached.

Safety and Training:

- * User and service manual in English.
- * Full application training for the operators on site.
- * **السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركييب في عرض السعر من ملحقات ومتطلبات.** ❖

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

<i>Homogenizer</i>	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
For Food lab use.	Yes/No	
Timer: 15, 30, 60sec. manual (continuousness for ten minutes).	Yes/No	
Power supply: AC220V 50/60Hz.	Yes/No	
The door with the window can be detached	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى نكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 12**Hot Air Oven****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * For general lab application.
- * Volume 65 L.
- * Temp range: up to 30 – 250 C.
- * Microprocessor control.
- * Adjustable parameter: time, temp, air flow....
- * Self-diagnostics for any error.
- * Clear display.
- * Resolution of display for set point and actual temperature values 0.1C.
- * Program stored in case of power failure.
- * Fast recovery time.
- * Two shelves.
- * Access port.
- * With temperature calibration certificate.
- *

Safety and Training:

- * User and service manual in English.
- * Full application training for the operators on site.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات

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

Hot Air Oven	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
For general lab application.	Yes/No	
Volume 65 L.	Yes/No	
Temp range: up to 30 - 250°C	Yes/No	
Microprocessor control.	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 0.1C.	Yes/No	
Fast recovery time	Yes/No	
Program stored in case of power failure.	Yes/No	

Two shelves.	Yes/No	
Access port.	Yes/No	
With temperature calibration certificate.	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	

طالبة اللواتي
PURCHASING

Item 13

HPLC High Performance Liquid Chromatography
(Isocratic & gradient operations):
(For food analysis and safety uses)

Brand**Origin: USA, EUR , JAPAN .****Warranty: 5 years**

يمكن تقديم جهازين أو جهاز يجمع الحالتين كتالي :

- A. **High Performance Liquid Chromatography (Isocratic).**
 B. **High Performance Liquid Chromatography (gradient operations).**

- * System equipped with a suitable Solvent Delivery Pump with manual, Column Compartment, PDA Detector, pc, software, UPS, complete system.
- * Capable of working in both Isocratic & gradient operations.
- * Application: Food analysis Lab.

HPLC Pump (or delivery system)

- * High Pressure binary gradient Two pump Integrated System.
- * The machine should be operable both in isocratic and gradient mode.
- * Flow Precision: $\leq 0.1\%$ or better.
- * Flow Accuracy: $\pm 1.0\%$ or better.

Manual Injector

- * Loop Size volumes should be of 5ul, 20ul, and 200 ul etc. with suitable syringe.
- * Column Oven.
- * Should have provision for housing at least four or more columns of 30 cm length.
- * Temperature setting rage: Ambient- 60oC or better.

PDA Detector

- * Operating modes: Direct Current pulsed amperometric detector (PAD) scan.
- * Potential Range: $\pm 200\text{mV}$ in 10mV steps (DC,PAD,Scan).
- * Column Oven: 70° C above ambient to 450 °C, 0.10° c resolution.
- * Auxiliary Electrode: Stainless steel.
- * PAD Mode.
- * Scan Cycles: Half, Full, Continuous.
- * Time event programming: DC & PAD.
- * Standard flow cell: 0.08uL min. volume, flow rate 25uL/min-2mL/min.
- *



Hardware

Good brand name Computer like HP, Dell or Lenovo should be supplied and compatible with above system and not less than manufacture recommendations.

- * Complete system with software and all accessories and ready to use.
- * With HPLC Start-up kit includes tubing's nuts, wrenches, and ferrules.
- * Your offer must be clear model numbers or catalogue numbers for each parts from Hplc with origin for like (detector,....)

Safety and Training:

- * System should be CE/ISO certified.
 - * User and service manual in English.
 - * Full application training for the operators at the manufacturer.
 - * Full service training for one engineer at the manufacturer.
 - * List of important spare parts and accessories with their part numbers and costing.
 - * Recommended spare parts to be available at least for 10 years.
- ❖ السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

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

HPLC	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
5 years Full warranty .	Yes/No	
Brand name .	Yes/No	
System equipped with a suitable Solvent Delivery Pump with manual, Column Compartment, PDA Detector, pc, software, UPS, compete system.	Yes/No	
Capable of working in both Isocratic & gradient operations.	Yes/No	
Application: Food analysis Lab.	Yes/No	
HPLC Pump (or delivery system) <ul style="list-style-type: none"> * High Pressure binary gradient Two pump Integrated System. * The machine should be operable both in isocratic and gradient mode. * Flow Precision: $\leq 0.1\%$ or better. * Flow Accuracy: $\pm 1.0\%$ or better. 	Yes/No	



<p>Manual Injector</p> <ul style="list-style-type: none"> * Loop Size volumes should be of 5ul, 20ul, and 200 ul etc. with suitable syringe. * Column Oven. * Should have provision for housing at least four or more columns of 30 cm length. * Temperature setting rage: Ambient- 60oC or better. 	Yes/No	
<p>PDA Detector</p> <ul style="list-style-type: none"> * Operating modes: Direct Current pulsed amperometric detector (PAD) scan. * Potential Range: $\pm 200\text{mV}$ in 10mV steps (DC,PAD,Scan). * Column Oven: 70° C above ambient to 450 °C, 0.10° c resolution. * Auxiliary Electrode: Stainless steel. * PAD Mode. * Scan Cycles: Half, Full, Continuous. * Time event programming: DC & PAD. * Standard flow cell: 0.08uL min. volume, flow rate 25uL/min-2mL/min. 	Yes/No	
<p>Hardware Good brand name Computer like HP, Dell or Lenovo should be supplied and compatible with above system and not less than manufacture recommendations</p> <ul style="list-style-type: none"> * Complete system with software and all accessories and ready to use. * With HPLC Start-up kit includes tubing's nuts, wrenches, and ferrules. * Your offer must be clear model numbers or catalogue numbers for each parts from Hplc with origin for like (detector,....) 	Yes/No	
<p>System should be CE/ISO certified.</p>	Yes/No	
<p>User and service manual in English.</p>	Yes/No	
<p>Full application training for the operators at the manufacturer.</p>	Yes/No	
<p>Full service training for one engineer at the manufacturer</p>	Yes/No	
<p>Recommended spare parts to be available at least for 10 years.</p>	Yes/No	
<p>Complete and Ready to use with all accessories.</p>	Yes/No	
<p>Date of manufacture not less than 2021.</p>	Yes/No	
<p>في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.</p>	Yes/No	



Item 14**Legionella Thermometer Kit**

(Penetration thermometer combined for food core temperature measurements).

Brand name.**2 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * Application: For food temperature use.
- * Including:
 - Temperature measuring instrument.
 - Temperature probes for surface measurement
 - Temperature probes for immersion/penetration measurement
 - Temperature probes for air measurement
 - Strap-on probe
 - Carry case
- * With LED or LCD dual display.
- * The measurement results can be clearly and visually displayed.
- * Hand-held design, small in size, light in weight, easy to carry around.
- * Auto power off.
- * Continuous display of min/max values.
- * Audible and optical alarm.
- * With standard measuring tip.
- * Penetration probe measuring range: -60 to +280 °C.
- * Accuracy: +/- 1 C
- * Resolution: 0,1 °C
- * Stem Length: 15cm minimum.
- * Sampling: 0.5 second
- * Water proof.
- * Power supply: lithium battery or button battery.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات.

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

Legionella Thermometer Kit	Yes/No	Comment
Manufacture.	Manufacture	
Model.	Model	
Origin: USA, Europe, Japan.	Origin	
Delivery time.	Weeks	
4 years Full warranty.	Yes/No	
Brand name.	Yes/No	
Application: For food temperature use.	Yes/No	

السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات.

PURCHASING

Including: - Temperature measuring instrument. - Temperature probes for surface measurement. - Temperature probes for immersion/penetration measurement. - Temperature probes for air measurement. - Strap-on probe. - Carry case.	Yes/No	
	Yes/No	
	Yes/No	
	Yes/No	
	Yes/No	
	Yes/No	
	Yes/No	
With LED or LCD dual display.	Yes/No	
The measurement results can be clearly and visually displayed.	Yes/No	
Hand-held design, small in size, light in weight, easy to carry around.	Yes/No	
Auto power off.	Yes/No	
Continuous display of min/max values.	Yes/No	
Audible and optical alarm.	Yes/No	
With standard measuring tip.	Yes/No	
Penetration probe measuring range: -60 to +280 °C.	Yes/No	
Accuracy: +/- 1 C	Yes/No	
Resolution: 0,1 °C	Yes/No	
Stem Length: 15cm minimum.	Yes/No	
Sampling: 0.5 second	Yes/No	
Water proof.	Yes/No	
Power supply: lithium battery or button battery.	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 15

Meat Analyzer

('Infrared meat analyzer & NIR fat analyzer' Accurate and easy analyzer of meat and processed meat products).

Brand name.

4 years warranty, 10 years availability spare parts.

Origin: USA, EURO , Japan

- * User friendly: sample presentation and easy to operate.
- * Easy to clean .
- * Accurate, calibrated, and ready to run.
- * Sample type: Any type of ground or homogenised meat sample.
- * Parameters: Fat, moisture, protein, collagen, saturated fat, carbohydrates, energy, salt, sodium, water activity and ash, colour measurement and batch standardisation functionality.
- * Technology: Diode Array, NIR transmission and reflection, wavelength 400 – 1200 nm.
- * Analysis time: 10 - 50 sec , depending on sample.
- * PC Software for data management and enhanced functionality.
- * Clear and reproducible results.
- * Time management system.
- * Power Supply : 220V 50/60Hz.

Safety and Training:

- * System should be CE/ISO and FDA approvals and certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * Full service training for one engineer at the manufacturer.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

❖ تلتزم الشركة بالتصريح عند احتياجات الجهاز والتجهيزات اللازمة للتشغيل والبيئة المحيطة به (غازات، شبكات اتصال، تهوية،....) مسبقاً في عرض السعر المقدم للجامعة.

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



Meat Analyzer	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
User friendly: sample presentation and easy to operate.	Yes/No	
Easy to clean .	Yes/No	
Accurate, calibrated, and ready to run.	Yes/No	
Sample type: Any type of ground or homogenised meat sample.	Yes/No	
Parameters: Fat, moisture, protein, collagen, saturated fat, carbohydrates, energy, salt, sodium, water activity and ash, colour measurement and batch standardisation functionality.	Yes/No	
Technology: Diode Array, NIR transmission and reflection, wavelength 400 – 1200 nm.	Yes/No	
Analysis time: 10 - 50 sec , depending on sample.	Yes/No	
PC Software for data management and enhanced functionality.	Yes/No	
Clear and reproducible results.	Yes/No	
Time management system.	Yes/No	
Power Supply : 220V 50/60Hz.	Yes/No	
تلتزم الشركة بالتصريح عند إحتياجات الجهاز والتجهيزات اللازمة للتشغيل والبيئة المحيطة به (غازات، شبكات إتصال، تهوية،....) مسبقاً في عرض السعر المقدم للجامعة.	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Full service training for one engineer at the manufacturer	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 16

Automated Milk Analyzers**(XRF and FT-IR technology for analysis of milk, dairy and plant-based products).****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO , Japan**

- * User friendly: sample presentation and easy to operate.
- * Sample type: Liquid and semi-solid dairy products such as milk, cream, whey, yoghurt, protein concentrates including WPC and more.
- * Parameters: Global calibrations: Fat, protein, lactose (incl. low lactose products), total solids, solids non fat, freezing point, titratable acidity, density, free fatty acids, citric acids, casein, urea, sucrose, glucose, fructose and galactose. Targeted and untargeted adulteration screening..
- * Conductivity sensor.
- * Sample volume: <10 mL
- * Analysis time: <30 sec , depending on sample type and quantity.
- * Adjustment routine: Automated slope/intercept procedure.
- * Automatic Cleaning and Zeroing: Automatic zero setting and clean. Cleaning defined according to properties and auto-adjust to each specific sample.
- * Protected automatic drying system
- * The system should be connected to the manufactured cloud .
- * Clear and reproducible results.
- * Time management system.
- * Power Supply : 220V 50/60Hz.

Safety and Training:

- * The system should be CE/ISO and FDA approvals and certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * Full-service training for one engineer at the manufacturer.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

❖ تلتزم الشركة بالتصريح عند احتياجات الجهاز والتجهيزات اللازمة للتشغيل والبيئة المحيطة به (غازات، شبكات اتصال، تهوية،....) مسبقاً في عرض السعر المقدم للجامعة.

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

Automated Milk Analyzers	Yes/No	Comment
Manufacture.	Manufacture	
Model.	Model	
Origin: USA, Europe, Japan.	Origin	

Delivery time.	Weeks	
4 years Full warranty.	Yes/No	
Brand name.	Yes/No	
User friendly: sample presentation and easy to operate.	Yes/No	
Sample type: Liquid and semi-solid dairy products such as milk, cream, whey, yogurt, protein concentrate including WPC, and more.	Yes/No	
Parameters: Global calibrations: Fat, protein, lactose (incl. low lactose products), total solids, solids non-fat, freezing point, titratable acidity, density, free fatty acids, citric acids, casein, urea, sucrose, glucose, fructose and galactose. Targeted and untargeted adulteration screening..	Yes/No	
Conductivity sensor.	Yes/No	
Sample volume: <10 mL	Yes/No	
Analysis time: <30 sec, depending on sample type and quantity.	Yes/No	
Adjustment routine: Automated slope/intercept procedure.	Yes/No	
Automatic Cleaning and Zeroing: Automatic zero setting and clean. Cleaning is defined according to properties and auto-adjust to each specific sample.	Yes/No	
Protected automatic drying system	Yes/No	
The system should be connected to the manufactured cloud.	Yes/No	
Clear and reproducible results.	Yes/No	
Time management system.	Yes/No	
Power Supply : 220V 50/60Hz.	Yes/No	
تلتزم الشركة بالتصريح عند إحتياجات الجهاز والتجهيزات اللازمة للتشغيل والبيئة المحيطة به (غازات، شبكات إتصال، تهوية، ...) مسبقاً في عرض السعر المقدم للجامعة.	Yes/No	
The system should be CE/ISO certified	Yes/No	
User, Application, and service manuals.	Yes/No	
Price includes installation with application training on site.	Yes/No	
Full-service training for one engineer at the manufacturer	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 17**Olive Analyzer**

(Olive oil analysis instrument for testing the most common (parameters) required within the olive oil extraction processes.)

Brand name.

4 years warranty, 10 years availability spare parts.

Origin: USA, EURO , Japan

- * Technology: Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm or Transmittance.
- * Sample type: Ground olives and olive pomace .
- * Wavelength Range: 1400 - 2600 nm.
- * Analysis Time: 10 - 60 seconds.
- * Parameters: Fat and moisture acidity, peroxides and others if available.
- * User friendly: sample presentation and easy to operate.
- * Large expandable internal memory for calibrations, methods and history results.
- * Clear and reproducible results.
- * Time management system.
- * Power Supply : 220V 50/60Hz.

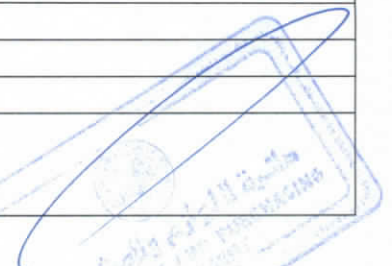
Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * Full service training for one engineer at the manufacturer.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات

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

<i>Olive Analyzer</i>	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Technology: Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm or Transmittance.	Yes/No	



Sample type: Ground olives and olive pomace .	Yes/No	
Wavelength Range: 1400 - 2600 nm	Yes/No	
Analysis Time: 10 - 60 seconds	Yes/No	
Parameters: Fat and moisture acidity, peroxides and others if available.	Yes/No	
User friendly: sample presentation and easy to operate.	Yes/No	
Large expandable internal memory for calibrations, methods and history results.	Yes/No	
Clear and reproducible results.	Yes/No	
Time management system.	Yes/No	
Power Supply : 220V 50/60Hz	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Full service training for one engineer at the .manufacturer	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 18**Real-Time Q-PCR****(Precise and powerful molecular pathogen detection technology for food safety testing)****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO , Japan**

- * 96-well format for maximum sample throughput.
- * System should complete Fast 40 cycle protocol in less than 40 minutes and standard protocol in under 2 hours.
- * Clear and reproducible results.
- * Automated cycling, detection and analysis
- * System software should provide simultaneous analysis data for relative quantitation of Unlimited plates of 96 wells each.
- * The instrument software must be capable of detecting and analysing a different gene, SNP or pathogen target in every well of the 96/384 well plate. The instrument software should not restrict the number of assays or targets that can be run on a single 96/384 well plate.
- * Independent of operator technique .
- * Internal positive control with every assay to validate negative results.
- * 6 colors (21 filter combinations).
- * Continuous detection during PCR cycling collects data in "real-time" reducing time to result.
- * Time management system.
- * Multi-wavelength real-time detection in a single sample.
- * Applications:
 - Gene expression
 - miRNA profiling
 - SNP genotyping
 - Copy number variation
 - Protein thermal shift
 - High resolution melt
 - Pathogen detection
 - Pharmacogenomics
- * All assays should run using Universal Thermal Cycling conditions to eliminate for the Optimisation of PCR machine.
- * The temperature range of the thermo block should be 4°C to 99°C with accuracy of $\pm 0.25^\circ\text{C}$
- * The system should be supplied with latest configuration desktop system.
- * Power Supply : 220V 50/60Hz

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركييب في عرض السعر من ملحقات ومتطلبات

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

Real-Time Q-PCR	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	

Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
96-well format for maximum sample throughput.	Yes/No	
System should complete Fast 40 cycle protocol in less than 40 minutes and standard protocol in under 2 hours.	Yes/No	
Clear and reproducible results.	Yes/No	
Automated cycling, detection and analysis	Yes/No	
System software should provide simultaneous analysis data for relative quantitation of Unlimited plates of 96 wells each.	Yes/No	
The instrument software must be capable of detecting and analysing a different gene, SNP or pathogen target in every well of the 96/384 well plate. The instrument software should not restrict the number of assays or targets that can be run on a single 96/384 well plate.	Yes/No	
Independent of operator technique .	Yes/No	
Internal positive control with every assay to validate negative results.	Yes/No	
6 colors (21 filter combinations).	Yes/No	
Continuous detection during PCR cycling collects data in "real-time" reducing time to result.	Yes/No	
Time management system.	Yes/No	
Multi-wavelength real-time detection in a single sample.	Yes/No	
96-well format for maximum sample throughput.	Yes/No	
Applications: <ul style="list-style-type: none"> • Gene expression • miRNA profiling • SNP genotyping • Copy number variation • Protein thermal shift • High resolution melt • Pathogen detection • Pharmacogenomics 		
All assays should run using Universal Thermal Cycling conditions to eliminate for the Optimisation of PCR machine.	Yes/No	
The temperature range of the thermo block should be 4°C to 99°C with accuracy of $\pm 0.25^\circ\text{C}$	Yes/No	
The system should be supplied with latest configuration desktop system.	Yes/No	
Power Supply : 220V 50/60Hz		
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.		
10 years availability for spare parts.		
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 19**Penetration/infrared thermometer**

(Penetration thermometer combined with an infrared sensor for core and surface temperature measurements).

Brand name.

2 years warranty, 10 years availability spare parts.

Origin: USA, EURO, Japan

- * Application: For food temperature use.
- * With LED LCD dual display, the measurement results can be clearly and visually displayed.
- * Hand-held design, small in size, light in weight, easy to carry around.
- * Infrared measuring range: -30 to +250 °C.
- * Penetration probe measuring range: -50 to +250 °C.
- * Resolution: 0,1 °C
- * Salinity Accuracy: $\pm 2\text{mg/L} \pm 2\%FS$
- * Power supply: lithium battery or button battery.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.

❖ السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركييب في عرض السعر من ملحقات.

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

<i>Penetration/infrared thermometer</i>	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Application: For food temperature use.	Yes/No	
With LED LCD dual display, the measurement results can be clearly and visually displayed.	Yes/No	



Hand-held design, small in size, light in weight, easy to carry around.	Yes/No	
Infrared measuring range: -30 to +250 °C.	Yes/No	
Penetration probe measuring range: -50 to +250 °C.	Yes/No	
Resolution: 0,1 °C	Yes/No	
Salinity Accuracy: $\pm 2\text{mg/L}$ $\pm 2\%\text{FS}$	Yes/No	
Power supply: lithium battery or button battery	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 20

Refractometer**Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO , Japan**

- * Application: measurement for Food, laboratories, Training, Chemicals .
- * Digital refractometer.
- * Light source LED
- * The integrated scale allows the use in different applications and provides the best possible security to read the measurement results accurately.
- * simple reliable refractometer with a digital thermometer.
- * Scales: brix refractive index .
- * Measuring range : 0- 95% 13000 to 17000 nD.
- * Accuracy : $\pm 0.1 \pm 0.0002$ nD.
- * It measures the refractive index (nD).
- * Liquid, solid and pasty samples can be evaluated.
- * Complete System ready to use with all accessories.
- * Optional: Calibration solution and Calibration block .

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

❖

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

Refractometer	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Application: measurement for Food, laboratories, Training, Chemical .	Yes/No	
Digital refractometers	Yes/No	



Light source LED	Yes/No	
The integrated scale allows the use in different applications and provides the best possible security to read the measurement results accurately	Yes/No	
simple reliable refractometer with a digital thermometer	Yes/No	
Scales: brix refractive index .	Yes/No	
Measuring range : 0- 95% 13000 to 17000 nD	Yes/No	
Accuracy: $\pm 0.1 \pm 0.0002$ nD	Yes/No	
It measures the refractive index (nD).	Yes/No	
Liquid, solid and pasty samples can be evaluated	Yes/No	
Complete System ready to use with all accessories	Yes/No	
Optional: Calibration solution and Calibration block	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 21

SCC and DSCC Analyzer**(counts total somatic cells as well as differential somatic cells in raw milk.)****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO , Japan**

- * Technology: flow cytometry (NIR-Direct Diode Array).
- * Measurement range: 0-10.000.000 cells/mL
- * Sample type: Total SCC: Cow's milk and DSCC: Cow's milk.
- * Parameters: Total somatic cell count (SCC) and differential somatic cell count (DSCC).
- * Performance range: SCC and DCSS 50k – 1.5 mill.
- * Throughput: up to 600 samples per hour.
- * Built-in quality control protocols.
- * Built-in automatic rinsing and cleaning function.
- * User friendly: sample presentation and easy to operate.
- * Large expandable internal memory for calibrations, methods and history results.
- * Clear and reproducible results.
- * Time management system.
- * Power Supply : 220V 50/60Hz.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * Full service training for one engineer at the manufacturer.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

السعر يشمل التوريد والتركييب ويجب أن يتم توضيح جميع متطلبات التركييب في عرض السعر من ملحقات ومتطلبات

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

SCC and DSCC Analyzer	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	



Technology: flow cytometry (NIR-Direct Diode Array).	Yes/No	
Measurement range: 0-10.000.000 cells/mL	Yes/No	
Sample type: Total SCC: Cow's milk and DSCC: Cow's milk.	Yes/No	
Parameters: Total somatic cell count (SCC) and differential somatic cell count (DSCC).	Yes/No	
Performance range: SCC and DCSS 50k – 1.5 mill.	Yes/No	
Throughput: up to 600 samples per hour.	Yes/No	
Built-in quality control protocols.	Yes/No	
Built-in automatic rinsing and cleaning function.	Yes/No	
User friendly: sample presentation and easy to operate.	Yes/No	
Large expandable internal memory for calibrations, methods and history results.	Yes/No	
Clear and reproducible results.	Yes/No	
Time management system.	Yes/No	
Power Supply : 220V 50/60Hz	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Full service training for one engineer at the manufacturer	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 22**Spectrophotometer****(UV/VIS DOUBLE BEAM SPECTROPHOTOMETER FOR FOOD ANALYSIS)****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO , Japan**

- * Application : For food safety tests.
- * Double beam .
- * Clear Display .
- * Optical: All reflecting optical system Quartz coated .
- * Single monochromator
- * Measurement modes : scanning , Quantitative analysis with calibration curves , Time course measurement , Fixed wavelength , Wavelength: 190-1000 nm
- * Wavelength accuracy: ± 0.1 nm .
- * Light Source: xenon
- * Optics : 1200 – 1300 lines/mm
- * Photometric Range: 3 A , Photometric accuracy: ± 0.01 nm
- * Lamp change : automatic or fixed .
- * Scanning speed : 8 to 10000 nm/min
- * Detector: Silicon photodiode.
- * Data : auto print , auto save to USB flash .
- * Cuvettes : should be supply with ONE Pair of 10 mm path quartz cuvettes included .
- * Power Supply : 220V 50/60Hz.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

❖

❖ **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: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	
Application : For food safety tests.	Yes/No	
Double beam .	Yes/No	
Clear Display .	Yes/No	
Optical: All reflecting optical system Quartz coated .	Yes/No	
Single monochromator	Yes/No	
Measurement modes : scanning , Quantitative analysis with calibration curves , Time course measurement , Fixed wavelength , Wavelength: 190-1000 nm	Yes/No	
Wavelength accuracy: ± 0.1 nm .	Yes/No	
Light Source: xenon	Yes/No	
Optics : 1200 – 1300 lines/mm	Yes/No	
Photometric Range: 3 A , Photometric accuracy: ± 0.01 nm	Yes/No	
Lamp change : automatic or fixed .	Yes/No	
Scanning speed : 8 to 10000 nm/min	Yes/No	
Detector: Silicon photodiode.	Yes/No	
Data : auto print , auto save to USB flash .	Yes/No	
Cuvettes : should be supply with ONE Pair of 10 mm path quartz cuvettes included .	Yes/No	
Power Supply : 220V 50/60Hz.	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	



Item 23**Vertical Autoclave****Brand name.****4 years warranty, 10 years availability spare parts.****Origin: USA, EURO, Japan**

- * 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 shut off 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.
- * Power supply: 220V, 50HZ.
- * Stainless steel basket for flasks, cleaning material for cleaning chamber (enough to 40 run cycles).
- * With calibration certificate.
- * Complete with all standard accessories.

Safety and Training:

- * System should be CE/ISO certified.
- * User and service manual in English.
- * Full application training for the operators on site.
- * List of important spare parts and accessories with their part numbers and costing.
- * Recommended spare parts to be available at least for 10 years.

❖ السعر يشمل التوريد والتركيب ويجب أن يتم توضيح جميع متطلبات التركيب في عرض السعر من ملحقات ومتطلبات.

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

Vertical Autoclave	Yes/No	Comment
Manufacture .	Manufacture	
Model .	Model	
Origin: USA , Europe , Japan .	Origin	
Delivery time .	Weeks	
4 years Full warranty .	Yes/No	
Brand name .	Yes/No	

Laboratory application.	Yes/No	
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, 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 shut off at end of cycle, 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	
Power supply: 220V, 50HZ.	Yes/No	
Stainless steel basket for flasks, cleaning material for cleaning chamber (enough to 40 run cycles).	Yes/No	
With calibration certificate.	Yes/No	
Complete with all standard accessories.	Yes/No	
System should be CE/ISO certified	Yes/No	
User, Application and service manuals .	Yes/No	
Price include installation with application training in site .	Yes/No	
Complete and Ready to use with all accessories.	Yes/No	
10 years availability for spare parts.	Yes/No	
Date of manufacture not less than 2021.	Yes/No	
في حال وجود أية قطعة ضرورية لتشغيل الجهاز غير موضحة يرجى ذكرها وتوضيحها في العرض غير ذلك تعتبر الشركة بتحمل وجود أية نواقص.	Yes/No	

