



دائرة اللوازم والمشتريات

عطاء رقم (T38 /2021.22)

تجهيز مختبرات العمارة الداخلية



2021-2022

عطاء تجهيز مختبرات العمارة الداخلية

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الجزء الأول (1)

إعلان طرح عطاء رقم T38-2021.22

تجهيز مختبرات العمارة الداخلية

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 (الأربعاء) الموافق 20/4/2022

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 (الأربعاء) 18/5/2022 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 الأمريكية على الانترنت. www.aaup.edu



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 الفائزة 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 الفائزة 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 الفائزة 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 الفائزة عن تقديم كفالة حسن التنفيذ عن الموعد المحدد في البند السابق فإنه يحق لـ (AAUP) إلغاء الإحالة.
10. إذا تخلف المناقص الفائزة عن التوقيع على عقد التنفيذ و تسليم الكفالات والتأمينات المطلوبه منه خلال أسبوع من تاريخ قرار الاحالة، يعتبر مستكفا عن تنفيذ العبء ويصادر مبلغ الكفالة أو التأمين دخول العبء بالاضافة الى ذلك يتحمل فرق السعر و/أو اي اضرار أخرى قد تلحق بالجامعة نتيجة استنكافه ويحرم من لمشاركة في عطاءات الجامعة لمدة عام.
11. اذا تخلف المناقص الفائزة 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 ابداء أسباب.
17. يلتزم من يرسو عليه العطاء بتقديم كفالة بنكية (صيانة) بقيمة (5%) من قيمة الأعمال المنجزة صالحة لمدة عام من تاريخ تسليم الأعمال.
18. على المشارك في العطاء تقديم عرضه على أساس المواصفات الفنية 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 (محوسية).
- ❖ 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. جداول الكميات والمواصفات الفنية
عطاء تجهيز مختبرات العمارة الداخلية

- Division 01 - Cutting & Modeling Machines
- Division 02 – Electronics
- Division 03 – Wood Working Machines and Tools
- Division 04 - Miscellaneous workshop tools
- Division 05 – Furniture
- Division 06 – Safety
- Main Summary



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




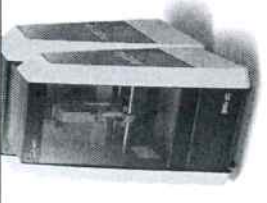

Bills of Quantities for (BOQ) the

Architecture Department Fabrication Lab



Prepared By:








Mar-22

Division 01 - Cutting & Modeling Machines							
Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD	Sample Image
1.01	Supply and install Laser cutting machine, as a minimum with the following specifications The laser cutting machine is necessary to cut various materials with specific thicknesses, such as cardboard, acrylic, and wood, the cut wood thickness can reach 1 cm. The basic technology is based on the laser emitted by the CO2 tube.	<p>Cuttable Material Fabric, leather, paper, cardboard, wood, acrylic, foam.</p> <p>Laser Type CO2 Dc glass laser tube</p> <p>Workpiece table size 1600mmx1000mm</p> <p>Head numbers One head</p> <p>Cooling System Constant temperature water chiller</p> <p>Power Supply AC220V , 50/60Hz</p> <p>Positioning Accuracy ±0.1mm</p> <p>X-, Y-, and Z-Axis Drive System Stepping motor</p> <p>Interface USB</p> <p>Power Requirements AC 220V ±10%, 50/60Hz</p> <p>PC Software Provide the preparation software supported Windows, MacOS</p>		1			
1.02	Supply and Operate Desktop Milling Machine, as a minimum with the following specifications The CNC machine is dedicated to drilling through three attempts for specific types of materials, such as wood, foam, and others, depending on head rotation speed for drilling based on computer commands.	<p>Cuttable Material Modeling Wax, Chemical Wood, Foam, Acrylic, Poly acetate, ABS</p> <p>X, Y, and Z Operation Strokes Minimum, (203.2 [X] x 152.4 [Y] x 60.5 [Z] mm)</p> <p>Workpiece table size Minimum, (232.2 [X] x 156.6 [Y] mm)</p> <p>Distance From Collet Tip to Table Maximum, (130.8mm)</p> <p>Loadable Workpiece Weight Minimum, 2kg</p> <p>X-, Y-, and Z-Axis Drive System Stepping motor</p> <p>Operating Speed Minimum, 5 – 1800mm/min</p> <p>Software Resolution 0.01 mm/step (RML-1), 0.001mm/step (NC code)</p> <p>Mechanical Resolution Around 0.001 mm/step</p> <p>Spindle Rotation Speed Adjustable 3,000 – 7,000 rpm</p> <p>Cutting Tool Chuck Collet method</p> <p>Interface USB</p> <p>Power Requirements Dedicated AC adapter: AC 240V ±10%, 50/60Hz</p> <p>Power Consumption Approx. 50W</p> <p>External Dimensions Less than, (460.0 (W) x 430.0 (D) x 430.0 (H) mm)</p> <p>Installation Environment Temperature of 5 to 40°C, 30 to 85% relative humidity (no condensation)</p> <p>Included Items USB cable, AC adapter, Power cord, Cutting tool, Collet, Set screw,</p>	Roland or equivalent	1			
1.03	Supply and install Hot-Wire Foam Cutter, as a minimum with the following specifications This machine is used to cut foam pieces with high smoothness and accuracy without burning it, by heating a wire dedicated to it.	<p>Hotwire height Between (7 mm and 210 mm)</p> <p>Wire Heat up time Less than 2 seconds</p> <p>Hotwire angle adjustment Does Angles, Straight Cuts & Circles</p> <p>Hotwire size 0.18mm Nichrome wire</p> <p>Input power Single phase 220V 50/60Hz</p> <p>Wire Temperature Variable Heat Settings up to 25 mm</p> <p>Glass thickness</p>	Manik or equivalent	1			
TOTAL CARRIED TO NEXT PAGE							



FORWARDED TOTAL					Sample Image		
Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD	
1.04	Supply and install 3D Printer, as a minimum with the following specifications All models and intricate details can be produced by 3D printing. These printers rely on specific materials manufactured in the form of filaments, most notably plastic.	<p>Pre-assembled</p> <p>Minimum, 0.40 mm nozzle: 200 to 20 microns 20 °C to 100 °C heated glass build plate</p> <p>Active leveling</p> <p>Arround 215 x 215 x 200 mm</p> <p>Fused Deposition Modeling (FDM)</p> <p>Minimum Dual extrusion print head</p> <p>Swappable print cores</p> <p>Minimum, 0.40 nozzle: up to 16 mm³/s 30 to 300 mm/s</p> <p>Dual geared feeder</p> <p>XYZ accuracy 12.5, 12.5, 2.5 micron</p> <p>Nozzle diameter 0.40 mm, 0.80 mm</p> <p>Nozzle temperature 180 °C to 280 °C</p> <p>Nozzle heat up time Less than 2 minutes</p> <p>Build plate heat up time Less than 4 minutes</p> <p>Operating sound Maximum 50 dBA</p> <p>Open filament system</p> <p>Filament diameter Arround 2.85 mm</p> <p>Supported materials Nylon, PLA, ABS, CPE, CPE+, PVA, PC, TPU 95A, and PP</p> <p>Supported file types STL, OBJ and 3MF</p> <p>Operating ambient temperature 15 °C to 32 °C</p> <p>Nonoperating temperature 0 °C to 32 °C</p> <p>Power Requirements Input 240 ±10% V, 4A, 50-60 Hz, 221 W max.</p> <p>Included Items Provide all free extra items</p> <p>PC Software Provide the preparation software supported Windows, MacOS</p>	Ultmaker 3 or equivalent	1			
1.05	Supply and install 3D UV Printer (provisional), as a minimum with the following specifications UV printers are another type of 3D printer, based on a different technology that works on the production of models through laser. The materials used are manufactured in a liquid form. These printers are more expensive than conventional printers and are intended for specific types of materials.	<p>Pre-assembled</p> <p>25, 50, 100 microns</p> <p>140 microns</p> <p>Automated</p> <p>Arround 145 x 145 x 175 mm</p> <p>1</p> <p>Stereolithography (SLA)</p> <p>Sliding Peel Process with wiper</p> <p>Automated</p> <p>Formlabs resins</p> <p>STL, OBJ</p> <p>Auto-heats to 35° C</p> <p>240 ± 10% V, 4A, 50-60 Hz, 221 W max.</p> <p>Provide all free extra items</p> <p>Provide-the preparation software supported Windows, MacOS</p>	Form Lab or equivalent	1			
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FORWARDED TOTAL							
Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD	
1.06	Supply 3D printer Filaments with the following specifications: Filament is used as input material for regular 3D printers, and it comes in different types and thicknesses. It must be compatible with existing printers.	materials material Diameter colors must be compatible with chosen 3d Printer must be compatible with chosen 3d Printer Black, white, Yellow, silver		10			
1.07	Supply 3D printer Resin (provisional) with the following specifications: Resin is used as input material for UV 3D printers, it must be compatible with existing printers.	materials material Type Clear and Black Resin must be compatible with chosen UV 3d Printer		4			
1.08	Supply and install Acrylic Bending machine (provisional), as a minimum with the following specifications: This machine is used to bend acrylic by heating a thermal wire inside it and then bending the piece manually. The acrylic can be bent at different angles without affecting its strength.	Wire thickness Heating type Power Dimensions ϕ 0.9mm Nichrome wire Single phase 220V 50/60(Hz), 180W Maximum, 850 x 410 x 220mm		1	Aecfun or equivalent		
1.09	Supply and install Etching Press machine, as a minimum with the following specifications:	Bed size Thickness of bed Bed Weight Rollers diameter Diameter of the drive wheel the upper roller Stand Max printing pressure (Nip) Weight with the stand Safety 80 cm x 140 cm at least 1 cm 85 Kg 16 cm 900 mm 50 mm Equipped with a stand 8000 kg 358 kg Base mounted safety guards		1			
1.10	Supply and install Printmaking Drying Racks (provisional), as a minimum with the following specifications: Used to put prints on them to dry	Sheet size Total size Number of shelves 100X70 cm 84X120X60 Cm 15 at least		1			
DIVISION 1 - (TOTAL CARRIED TO SUMMARY)							







Division 02 - Electronics

Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD	Sample image
2.01	supply and operate PC computers, as a minimum with the following specifications Computers with good specifications to connect with existing printers, laser machine, CNC router ... Etc	<p>Processor Operating System Memory Hard Drive Graphic Card Display Optical Drive Main Programs</p> <p>Intel® Core i7 (Maximum 2.70GHz, 8MB cache, 4 cores) Windows® 10 or Windows® 7 64-Bit 4-8GB DDR3 SDRAM Minimum, 500GB HDD 2-4GB graphics card Maximum 21" Display with Minimum 1600x900 Resolution DVD R/W Autocad, Revit, Rhino, 3dsmax and Adobe suite</p>	HP, Lenovo Or equivalent	2			
2.02	Supply and operate PC computers (Workstation), as a minimum with the following specifications A Workstation computer for laboratory supervisor use, to manage and modify models files	<p>Processor Operating System Memory Hard Drive Graphic Card Display Optical Drive Main Programs</p> <p>Intel® Core i7 (Minimum, 2.7GHz, 8MB cache, 4 cores) or Intel Xeon E5-1620 V4(minimum) Windows® 10 or Windows® 7 64-Bit 8- 16GB DDR3 SDRAM Minimum,500 GB (6700rpm) SATA hard drive And 128-256GB SSD 8 GB graphics card 21-22" Display with Maximum 1920x1080 Resolution DVD R/W Autocad, Revit, Rhino, 3dsmax and Adobe suite</p>		1			
2.03	Supply and operate an A3 Printer, as a minimum with the following specifications Printing photos and documents in appropriate quantities, intended for small sizes and with high color quality.	<p>Print speed Time to first print Warm up time Processor speed Print Quality Paper capacity Connectivity Paper sizes Paper weight Power supply Memory</p> <p>Minimum,A4: 35ppm colour, 35ppm mono; A3: 20ppm colour, 20ppm mono Maximum, 9.5 seconds colour, 9.5 seconds mono Minimum, Up to 32 seconds from power on and up to 27 seconds from power save Minimum, 800MHz 1200 x 1200dpi Tray 1: Minimum,300 sheets of 80gsm; Multi-purpose tray: 100 sheets of 80gsm Tray 2: Minimum, 500 sheets of 80gsm (Standard on C841.cdn); Tray 3: Minimum, 500 sheets of 80gsm; Tray 4: 530 sheets of 80gsm Hi-Speed USB x 2, Ethernet, Wireless (optional) A3, A4, A5, A6, B4, B5 Maximum, 270gsm for all Trays Single phase 220 to 240VAC, frequency 50/60Hz +/- 2% Maximum RAM: 768MB</p>	HP or equivalent	1			
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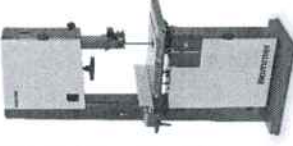


FORWARDED TOTAL		Description			Quantity	Unit Price USD	Total Price USD	Sample Image
2.04	Use Printing photos and posters on paper, dedicated to large sizes (A2-A0) and with very high color quality.	Supply and operate a plotter 44-inch or higher, as a minimum with the following specifications: Internal Storage 500 GB Print Quality 2400 X 1200 DPI Paper capacity Two Rolls, Automatic switching , 1 Cut Sheet Connectivity Hi-Speed USB x 2, Ethernet, Wireless (optional) Paper sizes 6" - 44" Paper weight Maximum, 270gsm Power supply Single phase 220 to 240VAC, frequency 50/60Hz +/- 2% Memory 128 GB(Virtual), 2 GB (Physical)			1			
2.05	Use mainly used to make signs, banners and advertisements, While these machines were designed for cutting vinyl, they can also cut through computer and specialty papers, as well as thicker items like thin sheets of magnet.	Supply and operate a Vinyl machine cutter with the following specifications: Driving method Digital control servo motor Cutting method Media-moving method Loadable material width 50 to 700 mm Maximum cutting area Minimum, Width: (550 mm) Minimum, Length: (25000 mm) Maximum cutting speed (500 mm/s) (all directions) Maximum cutting media thickness Up to (1 mm) Cutting speed (10 to 500 mm/sec) (all directions) Blade force 30 - 350 gf Mechanical resolution (0.0125 mm/step) Software resolution (0.025 mm/step) Distance accuracy Error of less than ±0.2 % of distance traveled, or ±0.1 mm, whichever is greater Repetition accuracy ±0.1 mm or less Alignment accuracy for printing and cutting when loading printed and/or material ±1 mm or less for movement distance of 210 mm or less in material-feed direction and movement distance of 170 mm or less in width direction (Excluding effects of printer and/or material) Interface USB interface (Connecting Multiple Units) Re-plot memory 2MB Input AC 240 V ±10 % 50/60 Hz 1.7 A Acoustic noise level during operation 70 dB (A) or less Acoustic noise level during standby 40 dB (A) or less Environment Temperature: 5 to 40°C (41 to 104°F), humidity: 35 to 80 % (no condensation) Included items AC adapter, power cord, blade, blade holder, roller base, alignment tool, USB cable, Set Up guide or all free extra items if available			1			
DIVISION 2 - (TOTAL CARRIED TO SUMMARY)								







Division 03 - WoodWorking Machines and Tools		Description	Brand	Quantity	Unit Price USD	Total Price USD	Sample Image
3.01	<p>Supply an Air compressor according to the following specifications: It is used as another source of power instead of electricity, which can be relied on by many tools intended for work, such as brad nailer.</p>	<p>Motor Horse Power Capacity Pump Voltage Pressure Status RPM Dimensions (WxDxH) Noise</p> <p>Maximum, 1.5HP Minimum, 150 l/min Without Oil 220 V, 50Hz Minimum, 7 bar Portable Minimum, 2500 Maximum, 430x250x400mm With Low Noise Compressor</p>	Bostitch or	1			
3.02	<p>Supply a Belt & Disc Sander machine according to the following specifications: It's a multi-use tool. They are commonly used for trimming to a scribed line, sanding very rough surfaces, leveling surfaces, and freehand rounding and shaping.</p>	<p>Sanding Table Table Tilt Disc Diameter Disc Speed Belt Size Belt Speed Motor (Induction) Mitre Guide T Slot (W x D) Dimensions (WxDxH) Included Items</p> <p>Minimum 170mm x 250mm 90 to 45 Degrees Maximum 225mm Minimum 1800rpm Maximum 160mm x 1230mm maximum 7 metres /second 750w Maximum 20mm x 10mm Maximum 800mm x 550mm x 400mm Sanding Disc (10 Items), Sanding Belt (10 Items) for the machine</p>	Rikon or equivalent	1			
3.03	<p>Supply an electrical sander according to the following specifications: It used for ultra-smooth sanding.</p>	<p>Sand Pad Size No-Load Speed Voltage</p> <p>at least 6 inch 12000r/min 220-240V</p>	Makita or equivalent	2			
3.04	<p>Supply a Miter Saw according to the following specifications: a miter saw is used to make crosscuts and miter cuts in a workpiece. It is done by pulling a mounted circular saw blade down onto the piece that has been placed on a flat surface below. Can cut at different angles</p>	<p>Motor Amps Horse Power RPM No Load Depth Of Cut (90° Bevel) Depth Of Cut (45° & -45° Bevel) Width Cut (90° Miter) Width Cut (45° & -45° Miter) Miter Degree Duty Cycle Sound Pressure Level (Under Load) Tool Dimensions (HxWxD)</p> <p>220 V, 50/60Hz, Around 2000W Minimum, 12A Minimum 3.5 HP Minimum, 2500rpm Minimum, 80mm Minimum, 31mm Minimum, 3000mm Maximum, 220mm Maximum, 55 Left, 55 Right Maximum, 30mins Maximum, 95dB Maximum, 610x510x790mm</p>	Evolution or equivalent	1			
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Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD	Sample Image
3.05	Supply and install Drill Presses (provisional) with the following specifications: Drill presses are used mainly for drilling holes, they can also be used for enlarging holes with a boring tool or finishing holes with a reamer.	<p>Floor Drill Press</p> <p>Type 1 Hp 14" x 14" Table Construction Cast Iron Voltage 220 V</p>	Rikon or equivalent	1			
3.06	Supply and install a Table Saw Machine, as a minimum with the following specifications: It's useful for long, straight cuts along the wood's grain, typically to split a longboard into smaller parts.	<p>Table size mm Minimum, 760x660 mm Maximum, 1,200/720/1,300 Sliding carriage mm (extra) Maximum, 430 x 680 Sawblade ø mm/teeth Minimum, 270/24 Tilting range ø 45 Speed rpm Minimum, 3800 Cutting speed m/sec Minimum, 48 Ripping fence length mm Minimum, 800 Angle fence ø 2 x 60 Motor 220 V/50Hz Input kW (HP) Maximum, 3.0 (3.8) Output kW (HP) Minimum, 3.0 (3.7) Speed rpm Minimum, 2800 Brake Yes Motor protection Yes Switch/plug unit with no-volt release/Yes</p>	prescott or equivalent	1			
3.10	Supply and install a Band Saw Machine (provisional), as a minimum with the following specifications: A band saw can be used to cut curves, even in thick lumber, and to crosscut short pieces. The most common use for the band saw, however, is in cutting irregular shapes. The second most common use is in resawing or ripping lumber into thinner slabs.	<p>Motor power 900w Operation single-phase Saw tape length around 2240 mm Saw band width 6-16 mm Maximum cutting height up to 165 mm Maximum cutting depth 305 mm Engine speed 6.7 - 13.3 meters per second Voltage 220 V</p>		1			



FORWARDED TOTAL							
Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD	Sample Image
3.11	Supply and install a Scroll Saw Machine, as a minimum with the following specifications: It is a small electric or pedal-operated saw used to cut intricate curves in wood, metal, or other materials. The fineness of its blade allows it to cut more delicately than a power jigsaw, and more easily than a hand coping saw.	Machine, as a minimum with the following specifications Blade Length 14 Millimetres Motor Power 120 W Lifting Height 14 mm Max. Cutting height 52 mm around 408 x 250 mm cutting speed 400-1600rpm Voltage 220-240 V	Einhell	1			
3.12	Supply an electric screwdriver, as a minimum with the following specifications: An electric screwdriver is a portable electric device that allows you to screw and unscrew effortlessly.	Product Dimensions 13.3 x 4.1 x 8.6 inches Batteries 1 Lithium Ion batteries Power Source Battery-Powered Voltage 20 volts Item Package Quantity 1 Special Features Variable Speeds, Minimum 2 speeds Included Components (1) LD120 20V Drill/Driver with (2) batteries and (1) charger, (1) 34pc Project Kit, (1) Storage Bag Battery Cell Type Lithium Ion Average Battery Life Minimum, 24 hours Warranty Description 2 year limited warranty Voltage Minimum, 3.4 volts Wattage Minimum, 600 watts	Worx or equivalent	3			
3.13	Supply a Mini grinder with these specifications: Mini Grinder is a free hand power carving tool that comes with a dedicated grinder motor. Its most common use is to work small surfaces that are difficult to access with other tools.	Variable speed control 220-240V~50/60Hz With accessories	Ingo, Total or equivalent	1			
3.14	Supply Jigsaw according to the following specifications: Used to make curved, intricate cuts in wood, can also cut through a number of other materials such as plastic, sheet metal and ceramic tile.	20V Battery-Powered Voltage 20 volts Item Package Quantity 1 Certification certified Frustration-free Included Components (1) Cordless Jigsaw, (1) Jigsaw Blade kit, (2) batteries and (1) charger Warranty Description 2 year limited warranty	Worx or equivalent	1			
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FORWARDED TOTAL						
Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD
3.15	Supply a Paint Sprayer with the following specifications Paint sprayers can spread paint, stains, and clear finishes faster than any brush or roller.	<p>✓ Pressure Control 450 - 2100 psi Pressure Range 0.2 - 0.45 mm Tip Size Supported 4 FlexLiner Bags Included Power Source Battery or cable Batteries Included 2 battery with charger Filter Mesh Included Maximum 60 Mesh Fully Repairable ✓ Storage Bag Included ✓</p>		2		
3.16	Supply a vacuum cleaner with the following specifications used to remove dirt and dust after work.	<p>220V-240V~50/60Hz 12L minimum 16KPa 800W Wet and dry cleaning flexible hose, floor brush, plastic tube accessories</p>	Ingeo, Total or	1		
3.17	Supply a Blower with the following specifications Used for flow of air required for exhausting, aspirating, cooling, ventilating, conveying etc. can used to clean the space	<p>220V-240V~50/60Hz 400W 18000rpm</p>		1		
3.18	Supply a Heat Gun with the following specifications used to remove paint splashes and wallpapers. Heat is also used to bend plastics with the help of the gun and soften some types of adhesives.	<p>350°C/550°C 220V-240V~50/60Hz</p>	Ingeo or equivalen	1		
DIVISION 3 - (TOTAL CARRIED TO SUMMARY)						



Division 04 - Miscellaneous workshop tools						
Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD
4.01	Supply Allied Tools Box ,	Minimum 25-Piece		1		
4.02	Supply Screwdriver set, Used to manually unscrew the screws	Minimum, 6 pieces with differet sizes	ingco or equivale	3		
4.03	Supply set of Pliers, The primary use of pliers is for gripping. You can put them to work at loosening or tightening bolts, holding objects for stabilization, or removing pins, nails or other fasteners.	Minimum, 6 pieces with differet sizes	ingco or equivale nt	3		
4.04	Supply Wrenchs Set, used for gripping, fastening, turning, tightening and loosening things like pipes, pipe fittings, nuts and bolts.	Minimum, 6 pieces with differet sizes and types (english wrench, ...)		1		
4.05	Supply Steel measuring Tapes, These tapes are generally used for standardizing chains, measurements of construction work, etc	5 m length	ingco or equivale	10		
4.06	Supply Fibreglass measuring tapes, Fiberglass tape can be used for easy and accurate measuring while also standing up to wear and tear at the job site.	30 m length	ingco or equivale	5		
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دائرة المشتريات
PROCUREMENT AND PURCHASING
DEPARTMENT

FORWARDED TOTAL						
Item No.	Use	Description	Brand	Quantity	Unit Price USD	Total Price USD
4.07	Supply Laser distance detector, The laser meter is used to measure distances such as interior spaces with very great accuracy.		ingco or equivalent	3		
4.08	Supply Didital Calipers, used to measure the distance between two opposite sides of an object. They are very simple measuring instruments and have an inward and outward point, it's suitable for very small dimensions .		Total, INGCO or equivalent	3		
4.09	Supply Air brad nailer, A pneumatic nailer uses compressed air to create enough force to shoot the nails and must be used with an air compressor.		-	1		
4.1	Supply spirit level, It is used to make sure that surfaces are level both horizontally and vertically.		-	2		
4.11	Supply an Air blow gun, used for applications requiring compressed air like removal of debris, non-contact drying and blowing.		ingco or equivalent	1		
4.12	Supply Hammers, used for general carpentry, framing, nail pulling, cabinet making, assembling furniture, upholstering, finishing, riveting, bending or shaping metal, striking masonry drill and steel chisels.	Iron as a main material Strong and massive. Fiberglass handle Dimensions are around 325*13 mm 450 g Weight	Total, INGCO or equivalent	2		
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ORWARDED							
Item No.	USE	Description	Brand	Quantity	Unit Price USD	Total Price USD	Sample Image
4.13	Supply Rubber Mallet, used in carpentry to knock wooden pieces together, or to drive dowels or chisels. A wooden mallet will not deform the striking end of a metal tool, as most metal hammers would.		INGCO or equivalent	2			
4.14	Supply wood file, used for Smoothing and Sharpening other tools, and for fine finishing wood.	Contained Types :flat, round, semi-circular, square, triangular	INGCO or equivalent	1			
4.15	Supply Hand Saw, used to cut pieces of wood into different shapes. This is usually done in order to join the pieces together and carve a wooden object.			2			
4.16	Supply Tennon Saw used for making deep, accurate cuts in furniture joinery. It should make straight, fast cuts without binding.		STANLEY or equivalent	2			
4.17	Supply Bow Saw, In woodworking the bow saw is used for straight, curved and crosscuts.			2			
4.18	Supply Gypsum Saw, to cut drywall down to size for building projects or to cut small-sized holes in drywall for installation purposes.			2			
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FORWARDED TOTAL						
Item No.	Description	Brand	Quantity	Unit Price	Total Price USD	Sample Image
4.19	Supply Clamps, hold work securely in place. They are used for many applications including carpentry, woodworking, furniture making, welding, construction and metal working.	-	6			
4.2	Supply caulking gun, Caulk guns are devices that help people use caulk, a type of sealant, effectively.	-	3			
4.21	Supply Hot Glue gun, Used to apply hot melt to components of the shoe-making process.	-	3			
4.22	Supply Cutters, Used to cut cardboard and paper.	Olfa or equivalent	10			
4.23	Supply Wood chisel set, Used to cut mortises, shave rough surfaces, chop out corners and scrape off glue.	-	1			
4.24	Supply Glass Cutting Kit, with all accessories Used to make a shallow score in one surface of a piece of glass (normally a flat one) that is to be broken into two pieces.		2			
TOTAL CARRIED TO NEXT PAGE						



FORWARDED TOTAL					
4.25	<p>Supply soldering iron, use a minimum with these specifications : Used to heat solder, usually from an electrical supply at high temperatures above the melting point of the metal alloy.</p>	25W Power	2		
4.26	<p>Supply carpenter square, In the workshop, it's handy for marking cutoff work on wide stock.</p>	Length: 20 cm minimum	2		
DIVISION 4 - (TOTAL CARRIED TO SUMMARY)					










Division 05 – Furniture

Item No.	Use	Description	Quantity	Unit Price USD	Total Price USD	Sample Image
5.01	Supply and Fix Supervisor desk with the following specifications: For lab supervisor use.	Dimensions Height 60 * 120 cm 75 sandwich wood covered by a white HPL layer, 4 cm thick, 4 cm thick Top surface Structure All-welded square section metal Structure finish Black powder coat paint Undershelf yes, wooden surface	1			
5.02	Supply and Fix Copmputer tables with the following specifications: Tables to put computers on it.	Dimensions Height 60 * 120 cm 75 cm sandwich wood covered by a white HPL layer, 4 cm thick Top surface Structure All-welded square section metal Structure finish Black powder coat paint Undershelf yes, wooden surface	2			
5.03	Supply and Fix Working tables with the following specifications: Dedicated tables for students to work on with various tools, the lower part of which can be used as a temporary storage shelf.	Dimensions Height 80 * 120 cm 90 cm Solid natural wood, 4 cm thick Top surface Structure All-welded square section metal Structure finish Black powder coat paint Undershelf yes, wooden surface	10			
5.04	Supply and fix Healthy office chair For lab supervisor use.					
5.05	Supply and fix Office Chairs . For use when using devices.		1			
TOTAL CARRIED TO NEXT PAGE						



		FORWARDED TOTAL	
5.06	Supply and fix Stools with the following specifications: For students to use when working.	Dimensions Height Top surface structure legs dimensions Structure finish	circular, 45 cm diameter 75 cm Solid natural wood, 4 cm thick All-welded circular section metal 20 mm circular section Black powder coat paint
			20
5.07	Supply and install Tools hanging board with the following specifications: For hanging different tools.	Dimensions Material	240 X 80 cm wood or metal
			1
		DIVISION 5 - (TOTAL CARRIED TO SUMMARY)	



Division 06 - Safety					
Item No.	Description	Quantity	Unit Price USD	Total Price USD	Sample Image
The supply of safety apparel, which must include:					
A	Safety goggles	10			
B	Disposable masks (Pack of 10 pieces)	10			
C	Vests	10			
D	Hats	5			
E	safety gloves	15			
F	Safety Earmuff	5			
6.02	First aid kit	1			
DIVISION 6 - (TOTAL CARRIED TO SUMMARY)				\$ -	



Main Summary		
Sec.	Description	Amount USD
1	Total for Machines	\$ -
2	Total for Electronics	\$ -
3	Total for Wood Working machines	\$ -
4	Total for Miscellaneous tools	\$ -
5	Total for Furniture	\$ -
6	Total for Safety	\$ -
Grand Total including VAT		

