



Equipment needed for Sohag University (P9)

New Professional Diploma in Plant Clinic and Phytosanitary Technologies (PRO-DPCP)
609550-EPP-1-2019-1-BG-EPPKA2-CBHE-JP

No.	Item	Price (Euro)
1.	<p style="text-align: center;"><u>Horizontal Laminar Flow Cabinet</u></p> <p><i>Specifications:</i></p> <ol style="list-style-type: none"> 1. Type of Flow: Horizontal 2. Material of construction (Main body and rear panel) is stainless steel (antibacterial, anticorrosion and acids resistant). 3. Front and lateral panels in tempered glass, thickness greater than 5 mm, anti-UV. 4. Front panel tempered glass is motorized. 5. Lighting by 2 fluorescent lamps. 6. Germicide UV lamp (more than 1500 hours life-time). 7. UV lamp timer with warning signal (3 beeps) at the end of countdown. 8. HEPA absolute filter (99.99% at 0.3 micron) equipped with Pre-Filter: Polyester fiber, washable. 9. Blower: blower system with high RPM motor, enclosed in a powder coated casing. 10. Working Area size (W*D*H): 1225x640x650mm 11. Display: LED 12. Air flow velocity: Average of 0.3-0.5m/s 13. Work Table Material: stainless steel <p>Accessories, spares and consumables: Spare HEPA Filter and PRE Filter.</p> <p>Power Supply:</p> <ol style="list-style-type: none"> 1. Power input to be 220-240VAC, 50/60Hz. 2. Resettable overcurrent breaker shall be fitted for protection 3. Should be fitted with earth leakage circuit breaker. <p>Documentation</p> <ol style="list-style-type: none"> 1. Customs release certificate must be provided as a proof of origin. 2. Certificate of calibration and inspection. 3. User/Technical/Maintenance manuals to be supplied. 4. Warranty certificate. 	4300
2.	<p style="text-align: center;"><u>Ultra-low upright freezer</u></p> <p><i>Specifications:</i></p> <ol style="list-style-type: none"> 1. Green Features: Energy Efficient 2. Temperature Range: -50°C to -86°C with 1°C increment. 3. Capacity: 420-430 L 4. Insulation Type: Polyurethane foam 5. Holds: 300 2-inch boxes 6. Vial Capacity: 30,000 x 2mL 7. Electrical Requirements: 230 V 50 Hz 8. Refrigerant: R290 (1st stage), R170 + R290 mix (2nd stage) 9. Door Style: 1 Outer, 4 Inner 	5300



	<p>10. Shelves: 3 11. Capacity Shelf: 57 kg 12. Smart View Compatibility: Smart-View Compatible 13. Inner Doors: 4 14. Connectivity: External Monitoring/ Cloud Compatible; 4-20mA, RS485, Dry Contacts 15. Type: Ultra-Low Freezer, Upright 16. Fully programmable microprocessor controlled with membrane keypad and eye level control panel 17. System should have heated air vent with ice-cleaning plunger to prevent vacuum formation & allowing the door to be quickly & effortlessly opened anytime in the day. 18. Freezers should have heated air vent to prevent vacuum formation & easy door opening with front panel air filter for easy cleaning. 19. Should have security keyed locks on the outer doors and lids keep out unauthorized users 20. Freezer must have on board diagnostic software to trace system errors & lockable ON/OFF switch to prevent accidental switch off.</p> <p>Warranty: Five Years</p> <p>Documentation:</p> <ol style="list-style-type: none"> 1. Customs release certificate must be provided as a proof of origin. 2. User manual in English should be provided. 3. Installation qualification, Operation qualification, Design qualification 4. Warranty certificate. <p>Power Supply:</p> <ol style="list-style-type: none"> 1. Power input to be 220-240VAC, 50/60Hz. 2. Resettable overcurrent breaker shall be fitted for protection 	
3.	<p style="text-align: center;"><u>Laboratory Voltage Stabilizer 30kVA</u></p> <p><i>Specifications:</i></p> <ol style="list-style-type: none"> 1. Type: Cabinet 2. Capacity: 30-40 kVA 3. Input Voltage: 160-240 4. Input Frequency: 50 ~ 60 Hz 5. Output Voltage: 220 6. Output Frequency: input frequency synchronized 7. High accuracy Output 8. Response Time: < 40 ms 9. 24 Hours Duty Cycle 10. Display: LED that should display Input Voltage, Output Voltage, Load Amps. 11. Operation Temperature: -15 ~ 50°C 12. Protection over/low voltage, overload, short circuit, phase failure 13. Function: auto restart 14. Option: output circuit breaker, lightning surge arrestor 15. Alarm: buzzer + LED indicators 16. Surge Protected both on INPUT & Output 17. Epoxy Or Powder Coated Cabinet of Strong Sheet Metal 	1080



	<p>Warranty: Five Years</p> <p>Documentation – shall be provided at the time of delivery:</p> <ol style="list-style-type: none"> 1. Customs release certificate must be provided as a proof of origin. 2. User manual in English should be provided. 3. Installation qualification, Operation qualification, Design qualification 4. Warranty certificate. 	
4.	<p style="text-align: center;"><u>Gel Documentation System</u></p> <p><i>Specifications:</i></p> <ol style="list-style-type: none"> 1. Maximum sample size: 20 x 20 cm 2. Maximum image area: 20 x 20 cm 3. Excitation source: Trans UVB (302 nm) 4. Illumination control: Trans-UV, Trans-White 5. UV tray: 280-400 max 300 nm 6. Blue tray: 430-460, max 440 nm 7. White tray: visible spectra 8. Detector: CCD 9. Image resolution: 6000 × 4000 Pixel 10. Emission filters: Tray-based 11. Dynamic range: >3.0 orders of magnitude 12. Pixel density (gray levels): 4,096 13. Dynamic flat fielding: Yes 14. Focusing: Auto 15. Number of pixels: 24-30 16. Minimum PC requirements: Intel Core i5 1.8 GHz, 6 GB RAM, 500 GB HDD, Win 7/8/10, 2-3 free USB connections 	11700
5.	<p style="text-align: center;"><u>Balance</u></p> <p><i>Specifications:</i></p> <ol style="list-style-type: none"> 1. Weighing capacity: 120 g 2. Readability: 1 mg 3. Repeatability: 1 mg 4. Linearity: 1 mg 5. Typical stabilization time: 2 s 	1560
6.	<p style="text-align: center;"><u>Research microscopes Trinocular</u></p> <p><i>Specifications:</i></p> <p>Head : Trinocular 360° rotating, 30° inclined with adjustable interpupillary distance and dioptric compensation.</p> <ol style="list-style-type: none"> 1. Eyepiece : Wide field 10X / 18 mm. 2. Revolving nosepiece: Quadruple, reversed. 3. Objectives : DIN Achromatic 4x/0.10, 10x/0.25, 40x/0.65, 100x/1.25 4. Stage: Double layer, 125x115mm with X-Y 70x30mm moving range 5. Focusing: Coaxial coarse and fine focusing. 6. Illuminator: X-LED2 system with adjustable intensity. 7. Condenser: 1.25 N.A. Abbe type with adjustable height and iris diaphragm 8. supply: 220Vac/50Hz external power unit 7,5 Vdc output. 9. Body: enameled finishing with reagent resistance. 10. Dust cover 	1500
7.	<p style="text-align: center;"><u>Water Purification System</u></p> <p><i>Specifications:</i></p>	3450



	<ol style="list-style-type: none"> 1. Resistivity at 25 °C¹: at least 18.2 MΩ•cm 2. TOC: ≤ 10 ppb 3. Particulates (size > 0.22 µm): < 1 particulate/mL 4. Bacteria: < 0.01 CFU/mL 5. Pyrogens (endotoxins): < 0.001 EU/mL 6. RNases: < 1 pg/mL 7. DNases: < 5 pg/mL 8. Flow Rate: at least 0.5 L/min 9. Feed Source: Tap water 	
8.	<p style="text-align: center;"><u>Electrophoresis system</u></p> <ol style="list-style-type: none"> 1. Power supply 2. Vertical cell 3. Horizontal cell 	3110
9.	<p style="text-align: center;"><u>PCR</u></p> <p>Three independent sample blocks for ultimate flexibility Temperature Optimization Step technology to determine the optimal annealing temperature Protocol Wizard and Advanced User Management included for convenient operation</p>	8000