

**Bids and Awards Committee**

University of the Philippines Baguio  
Governor Pack Road, 2600 Baguio City

**MINUTES OF MEETING**

13 June 2019 9:13 AM – 12:35 PM  
Vice Chancellor's Conference Room

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Presiding: VCA Jessica K. Cariño, BAC Chair  
Members: Prof. Joel M. Addawe, Member Absent  
Prof. Jocelyn Rafanan, Member  
Prof. Arellano A. Colongon, Jr, Member  
Ms. Gloria Q. Rodriguera, Member Excused  
Ms. Cecile G. Dangawen, TWG  
Mr. Rodolfo T. Suyat, TWG Excused  
Ms. Irene J. Enriquez, Head Secretariat  
Mr. Mar P. Viernes, Secretariat  
Ms. Segrid Yan A. Bucagan, Secretariat

Also present: Prof. Roland Hipol, TWG  
Prof. Teodora D. Balangcod, Project Leader  
Ms. Maxinne Charisse R. Guinto, State Auditor

Agenda: I. Pre-bid Conference for the Supply, Delivery, and Installation of Various Scientific Equipment for the DOST-PCHRD Tuklas Lunas Eskape project  
II. Other Matters

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The meeting was called to order by Prof. Jessica K. Cariño at 9:13 AM.

**I. Pre-bid Conference for the Supply, Delivery, and Installation of Various Scientific Equipment for the DOST-PCHRD Tuklas Lunas Eskape project**

There are Three (3) prospective bidders who were present during the pre-bid conference:

Arjay Adamos	Rain Phil, Inc.
Mark Joseph Lolong	
Marife Antonio	Guill-Bern Corporation
Marianne Del Pinado	
Edwin P. Villanueva	Fil-Anaserve

This is a pre-bid conference for Supply, Delivery, and Installation of Various Scientific Equipment for DOST PCHRD-Tuklas Lunas Eskape Project. The following reminders were discussed during the pre-bid conference:

1. The total agency budget for the project is Php 3,774,000.00;
2. The Project has a reference number of UPB-BID-2019-020;
3. Bid Documents can be acquired at the cost of Php 4,000.00;

4. Delivery period was changed from Thirty (30) calendar days to Thirty (30) to Ninety (90) Calendar days;
5. The project is composed of One (1) lot with the following items:
  - a. Ultra-low Freezer with CO2 Back UP (-86C)
  - b. Multimode Microplate Reader
  - c. Refrigerated Incubator
  - d. Biosafety cabinet Class II- Type A2;
6. The documentary requirements which are the Eligibility, Technical, and Financial Documents to be submitted by the Bidders;
7. The Statement of all On-going Contracts should be properly filled out which includes the name of the contract, date of the contract, amount of the contract and value of outstanding contracts, and date of delivery or performance;
8. For the Single Largest Completed Contract (SLCC), the end-user's acceptance or official receipt should be attached as a proof and the SLCC should be related or similar to the project;
9. The Net Financial Contracting Capacity should be computed by the bidders to indicate that they are capable to bid for the project;
10. The Bid Security can be either Cash or Manager's Check which is 2% of the ABC, Surety Bond which is 5% of the ABC, and/or a notarized Bid Securing Declaration;
11. For the Cash or Manager's Check and Surety Bond, the amount of these will be depending to the items that the bidders will be bidding;
12. In the Conformity of Technical Specifications, bidders should indicate comply or not;
13. Bidders can offer products with equal or better specifications;
14. The Omnibus Sworn Statement should be notarized;
15. The soft copy of the bill of quantities contained in a flash drive or CD should be included in the original financial envelope;
16. Brochures and/or Manuals should be attached, if any;
17. The BAC will use a non-discretionary pass or fail criteria for Eligibility screening of documents submitted;
18. Bid Form and Schedule of Prices/ Bill of Quantities should be signed by duly authorized representative/s;
19. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s;
20. Each bidder should submit One (1) original and One (1) duplicate copy of the documents contained in Envelopes 1 and 2 of its bids;
21. Bid documents submitted should be arranged properly in accordance with the checklist with proper label or tag;
22. Submission of bids is until 9:00 AM of 25 June 2019, Tuesday, at the Office of the Vice Chancellor for Administration or Supply Property and Management Office;
23. Opening of bids at 9:30 AM of 25 June 2019, Tuesday, at the Chancellor's Board room;
24. Official Receipts of the Bidding Documents paid will be checked before accepting their bids;
25. Secretary's Certificate should be included in their bidding documents;
26. Accomplished UP Questionnaire should be notarized; and
27. All bids that will be received will be stamped with date and time of receipt.

Prof. Cariño informed the prospective bidders that an addendum will be issued for the changes of the technical specifications and other details for the project (Annex A).

83 II. Other Matters


- 84 1. PhilGEPS posting of all project to be bidden out will be given to the Technical Working Group  
85 (TWG) immediately after posting.  
86 2. For the Supply, Delivery, and Installation of Various Scientific Equipment for Tuklas Lunas ETP  
87 Project, Lot 1 will be awarded to Golden Bat (Far East), Inc and Lot 2 will be awarded to  
88 Instrumix Supplier, Inc.  
89 3. Purchase Request (PR) No. 10061 for the Teatro Amianan will be bidden out. The following are  
90 the details of the PR:  
91 a. It consist of Nineteen (19) items;  
92 b. These items are IT Equipment and Peripherals to be installed at the Teatro Amianan;  
93 c. Total amount of the PR is Php 948,503.43; and  
94 d. This will be bidden out in 1 lot.

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96 The meeting was adjourned at 12:35 PM.

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98 Prepared by:

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101 Segrid Yan A. Bucagan  
102 BAC Secretariat

Noted by:

  
Prof. Jessica K. Cariño  
BAC, Chairman

QTY	ITEM	ORIGINAL	ADDENDUM
		<b>DELIVERY PERIOD: 30 DAYS</b>	<b>DELIVERY PERIOD: 30-90 DAYS</b>
1 LOT	<b>ULTRA-LOW FREEZER WITH CO<sub>2</sub> BACK UP (-86C)</b>	<p><b>SPECIFICATIONS:</b>  <b>Type: UPRIGHT</b>  Capacity: at least 422 L  Electrical: 208-230V/ 60Hz  Max Shelf Weight: 57 kg  Energy Consumption (kW-hr/day) Standard Mode: 9.4  Peak Variation from -80°C setpoint (°C): +8.5 / -2.4  Door Opening Recovery (minutes): not more than 13 minutes  Must be able to hold up to 300 2-inch boxes.  Display: Touch screen LCD  Insulation: Water-blown foam (should be snap compliant)  Door style: 1 outer and 4 inner  Must have Low peak variation to help ensure sample protection throughout entire cabinet  At least 0.93°C steady-state temperature variation over time  Warm-up time from -80°C to -50°C in 300 minutes  Noise Level (dBA): maximum of 52 dBA  Must have Stainless Steel Freezer Interior and locking mechanism  Alarm Delay Module: Should eliminate nuisance alarms due to intermittent or transitory conditions.  Preferably with Access Key Option Card Access control that includes five key cards. Must support ISO15693 and ISO14443 protocols.  Must have water-cooled condenser option to reduces heat output by almost 60%  Should be/have:  <ul style="list-style-type: none"> <li>- Touch-screen datalogging and temperature mapping</li> <li>- Built-in USB port for exporting data</li> <li>- Advanced security features (e.g. alarm settings, password-protected controller, padlock-compatible doors)</li> </ul> <b>WITH:</b>  1. <b>1 unit AVR</b> - 3KVA and compatible with the unit where it is to be used. Input voltage: 165 V to 280, Output voltage on Battery: 230 V, Frequency: 50/60 Hz auto-detection  Liquid CO2 Back up System x 1 unit  Cryovials/tube (2 inches length, polycarbonate) x 1 bag of 500 pcs</p>	<p><b>SPECIFICATIONS:</b>  <b>Type: UPRIGHT</b>  Capacity: at least 422 L  Electrical: 208-230V/ 60Hz  Max Shelf Weight: 57 kg  Energy Consumption (kW-hr/day) Standard Mode: 9.4  Peak Variation from -80°C setpoint (°C): +8.5 / -2.4  Door Opening Recovery (minutes): not more than 13 minutes  Must be able to hold up to 300 2-inch boxes.  Display: Touch screen LCD  Insulation: Water-blown foam (should be snap compliant)  Door style: 1 outer and 4 inner  Must have Low peak variation to help ensure sample protection throughout entire cabinet  At least 0.93°C steady-state temperature variation over time  Warm-up time from -80°C to -50°C in 300 minutes  Noise Level (dBA): maximum of 52 dBA  Must have Stainless Steel Freezer Interior and locking mechanism  Alarm Delay Module: Should eliminate nuisance alarms due to intermittent or transitory conditions.  <b>PREFERABLY</b> with Access Key Option Card Access control that includes five key cards. SupportS ISO15693 and ISO14443 protocols.  Must have water-cooled condenser option to reduces heat output by almost 60%  Should be/have:  <ul style="list-style-type: none"> <li>- Touch-screen datalogging and temperature mapping</li> <li>- Built-in USB port for exporting data</li> <li>- Advanced security features (e.g. alarm settings, password-protected controller, padlock-compatible doors)</li> </ul> <b>WITH:</b>  1. <b>1 unit AVR</b> - <b>MINIMUM 3KVA or COMPATIBLE</b> with the unit where it is to be used. Input voltage: 165 V to 280, Output voltage on Battery: 230 V, Frequency: 50/60 Hz auto-detection  - Liquid CO2 Back up System x 1 unit  - Cryovials/tube (2 inches length, polycarbonate) x 1 bag of</p>

		<p>Cryo-gloves x 3 pcs (medium) 2 inch box racks x 1 pc Cryo-boxes (2 inches, thermoplastic) x 10 pcs</p> <p>2. At least 1 year warranty on parts and services 3. After sales support (training), quick response to requests especially if the machine has problems</p>	<p>500 pcs - Cryo-gloves x 3 pcs (medium) - 2 inch box racks x 1 pc - Cryo-boxes (2 inches, thermoplastic) x 10 pcs</p> <p>2. At least 1 year warranty on parts and services 3. After sales support (training), quick response to requests especially if the machine has problems</p>
	<b>MULTIMODE MICROPATE READER</b>	<p><b>SPECIFICATIONS</b></p> <ol style="list-style-type: none"> <li>1. Top and bottom plate reading</li> <li>2. Multi-color detection</li> <li>3. Well scanning</li> <li>4. precise temperature control</li> <li>5. multi-mode shaking capabilities</li> <li>6. gas vent</li> <li>7. Can read all plate formats from 6- to 1536-well in absorbance and up to 384-well in all other detection modes</li> </ol> <p><b>Measurement Modes:</b> Top and bottom reading Endpoint and Kinetic measurements Sequential Multi Excitation measurements Sequential Multi Emission measurements Ratiometric measurements</p> <p><b>Detection Modes:</b> Fluorescence, Luminescence, UV-Vis Absorbance <b>Upgrade Options:</b> Fluorescence Intensity - (must include FRET upgrade option) Luminescence (flash and glow) - (must include BRET upgrade option) Time-Resolved Fluorescence - (Must be DELFIA ready upgrade option, AlphaScreen/AlphaLISA-ready upgrade option) <b>Microplate Formats:</b> 6 to 1536-well plates, must be user-definable <b>Microplate Carrier:</b> Robot compatible <b>Light Sources:</b> High energy xenon flash lamp <b>Detectors:</b> Side window photomultiplier tube <b>Wavelength Selection: Optical Filters:</b> Ex and Em wheels for 8 filters each ; <b>UV/Vis Absorbance Spectrometer:</b> Full spectra or 8 distinct wavelengths in &lt; 1 sec / well</p>	<p><b>SPECIFICATIONS</b></p> <ol style="list-style-type: none"> <li>1. Top and bottom plate reading</li> <li>2. Multi-color detection</li> <li>3. Well scanning</li> <li>4. precise temperature control</li> <li>5. multi-mode shaking capabilities</li> <li>6. gas vent</li> <li>7. Can read all plate formats from 6- to 1536-well in absorbance and up to 384-well in all other detection modes</li> </ol> <p><b>Measurement Modes:</b> Top and bottom reading Endpoint and Kinetic measurements Sequential Multi Excitation measurements Sequential Multi Emission measurements Ratiometric measurements</p> <p><b>Detection Modes:</b> Fluorescence, Luminescence, UV-Vis Absorbance <b>Upgrade Options:</b> Fluorescence Intensity - (must include FRET upgrade option) Luminescence (flash and glow) - (must include BRET upgrade option) <b>Time-Resolved Fluorescence - ready upgrade option, AlphaScreen/AlphaLISA-ready upgrade option)</b> <b>Well Scanning:</b> <b>Microplate Formats:</b> 6 to 1536-well plates, must be user-definable <b>Microplate Carrier:</b> Robot compatible <b>Light Sources:</b> High energy xenon flash lamp <b>Detectors:</b> Side window photomultiplier tube <b>OR ITS EQUIVALENT</b> <b>Wavelength Selection: Optical Filters:</b> Ex and Em wheels for 8 filters each; <b>UV/Vis Absorbance Spectrometer:</b> Full spectra or 8 distinct</p>

	<p><b>Optical Filters:</b> Excitation and emission filter wheels for 8 filters each  <b>Optical Path Guides:</b>  <b>Top:</b> Liquid filled light guides  <b>Bottom:</b> Fiber optics</p> <p><b>Well Scanning:</b>  <b>Microplate Formats:</b> 6 to 1536-well plates, must be user-definable  <b>Microplate Carrier:</b> Robot compatible  <b>Light Sources:</b> High energy xenon flash lamp  <b>Detectors:</b> Side window photomultiplier tube  <b>Wavelength Selection:</b> <b>Optical Filters:</b> Ex and Em wheels for 8 filters each; <b>UV/Vis Absorbance Spectrometer:</b> Full spectra or 8 distinct wavelengths in &lt; 1 sec / well  <b>Optical Filters:</b> Excitation and emission filter wheels for 8 filters each  <b>Optical Path Guides:</b>  <b>Top:</b> Liquid filled light guides  <b>Bottom:</b> Fiber optics</p> <p><b>Spectral Range:</b>  <b>Filters</b>  240 - 750 nm or 240 - 900 nm for FI, FP, TRF  240 - 750 nm for LUM  <b>Spectrometer</b>  220 - 1000 nm for ABS</p> <p><b>Sensitivity:</b>  FI: &lt; 0.2 fmol/well Sodium Fluorescein  TRF: &lt; 30 amol/well Europium  High-End TRF for Omega &lt; 3 amol/well Europium  LUM: 20 amol/well  ABS with Spectrometer: Full spectrum captured in &lt; 1 s/well  Selectable spectral resolution: 1 - 10 nm  OD range: 0 to 4 OD  Accuracy: &lt; 1% at 2 OD  <b>Precision:</b> &lt; 0.5% at 1 OD and &lt; 0.8% at 2 OD  Read Times: Flying mode: 9 s (96), 16 s (384)  Reagent Injection: Injection at measurement position (6 to 384-well)  Individual injection volumes for each well (3 to 500 µL)  Variable injection speed up to 420 µL/s  Up to four injection events per well</p>	<p>wavelengths in &lt; 1 sec / well  <b>Optical Filters:</b> Excitation and emission filter wheels for 8 filters each  <b>Optical Path Guides:</b>  <b>Top:</b> Liquid filled light guides  <b>Bottom:</b> Fiber optics</p> <p><b>Spectral Range:</b>  <b>Filters</b>  <b>MUST HAVE 240 nm and maximum 750 nm</b> or 240 - 900 nm for FI, FP, TRF  240 - 750 nm for LUM  <b>Spectrometer</b>  220 - 1000 nm for ABS</p> <p><b>Sensitivity:</b>  FI: &lt; 0.2 fmol/well Sodium Fluorescein  TRF: &lt; 30 amol/well Europium  High-End TRF for Omega &lt; 3 amol/well Europium <b>OR EQUIVALENT</b>  LUM: 20 amol/well  ABS with Spectrometer: Full spectrum captured in &lt; 1 s/well  Selectable spectral resolution: 1 - 10 nm  OD range: 0 to 4 OD  Accuracy: &lt; 1% at 2 OD  <b>Precision:</b> &lt; 0.5% at 1 OD and &lt; 0.8% at 2 OD  Read Times: Flying mode: 9 s (96), 16 s (384)  Reagent Injection: Injection at measurement position (6 to 384-well)  Individual injection volumes for each well (3 to 500 µL)  Variable injection speed up to 420 µL/s</p>
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		<p>Reagent back flushing</p> <p>Power requirement: 60 W Shaking: Linear, orbital, and double-orbital with user-definable time and speed Incubation: +5°C above ambient up to 45°C or 60°C Dimensions: Width: 44 cm, depth: 48 cm, height: 30 cm; weight: 28 kg</p> <p><b>WITH:</b></p> <ol style="list-style-type: none"> <li><b>1. PRINTER,DESKTOP AND MONITOR FOR THE EQUIPMENT</b> With at least the following specifications: Tower (Minimum requirement) CPU: Intel Core i5 – 6500 GPU: Intel HD Graphics 530 Ram: 4.00 GB Storage Drive: 1 TB System Type: 64-Bit Operating System With Optical Drive Operating System: Windows 10 Power Supply: 280W Monitor Display Size: 24 inches Resolution: 1980 X 1080 Aspect Ratio: 16:9 With Stand Tilt Video Input: HDMI, VGA LED-Backlit</li> <li><b>2. Printer – minimum requirement</b> Printing Method: print head. Nozzle Configuration. 180 Nozzles Black, 59 Nozzles per <b>Color</b>. Minimum Droplet Size. 3 pl. Ink Technology. Dye Ink. Printing Resolution. 720 x 720 DPI.</li> <li><b>3. Software:</b> Multi-user Reader Control and Data Analysis Software package should be included</li> <li><b>4. UPS</b> - this would ensure that during power loss the samples would not be affected. Provides emergency power to a load when the input power source or mains power fails.) - 3KVA, Input: 208-240 VAC,</li> </ol>	<p>Up to four injection events per well Reagent back flushing</p> <p>Power requirement: 60 W Shaking: Linear, orbital, and double-orbital with user-definable time and speed Incubation: +5°C above ambient up to 45°C or 60°C Dimensions: <b>MUST BE COMPACT</b></p> <p><b>WITH:</b></p> <ol style="list-style-type: none"> <li><b>1. PRINTER,DESKTOP AND MONITOR FOR THE EQUIPMENT</b> With at least the following specifications: Tower (Minimum requirement) CPU: Intel Core i5 – 6500 GPU: Intel HD Graphics 530 Ram: 4.00 GB Storage Drive: 1 TB System Type: 64-Bit Operating System With Optical Drive Operating System: Windows 10 Power Supply: 280W Monitor Display Size: 24 inches Resolution: 1980 X 1080 Aspect Ratio: 16:9 With Stand Tilt Video Input: HDMI, VGA LED-Backlit</li> <li><b>2. Printer – minimum requirement</b> Printing Method: print head. Nozzle Configuration. 180 Nozzles Black, 59 Nozzles per <b>Color</b>. Minimum Droplet Size. 3 pl. Ink Technology. Dye Ink. Printing Resolution. 720 x 720 DPI.</li> <li><b>3. Software:</b> Multi-user Reader Control and Data Analysis Software package should be included</li> <li><b>4. UPS</b> - this would ensure that during power loss the samples would not be affected. Provides emergency power to a load when the input power source or mains power fails.) - 3KVA, Input: 208-</li> </ol>
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		<p>50/60 Hz, Output: 208-240 VA, capacity: 3KVA/2700 Watts</p> <ol style="list-style-type: none"> <li>5. User-acceptance Training from Manufactured trained engineers/application specialist</li> <li>6. After sales support - Regular check-up and calibration of the machine., provides quick service/technical support when needed</li> <li>7. Warranty: At least 1 year warranty on parts and service and 2 years additional warranty on services</li> <li>8. <b>Consumables</b> – to enable the user to start immediately with their project 200 pcs 96 Well Plates - 100 PCS CLEAR and 100 PCS BLACK (for reading of samples -absorbance and fluorescence.</li> </ol>	<p>240 VAC, 50/60 Hz, Output: 208-240 VA, capacity: 3KVA/2700 Watts</p> <ol style="list-style-type: none"> <li>5. User-acceptance Training from Manufactured trained engineers/application specialist</li> <li>6. After sales support - Regular check-up and calibration of the machine., provides quick service/technical support when needed</li> <li>7. Warranty: At least 1 year warranty on parts and service and 2 years additional warranty on services</li> <li>8. <b>Consumables</b> – to enable the user to start immediately with their project 200 pcs 96 Well Plates - 100 PCS CLEAR and 100 PCS BLACK (for reading of samples -absorbance and fluorescence)</li> </ol>
	<b>REFRIGERATED INCUBATOR OR</b>	<p><b>SPECIFICATIONS:</b>  Volume: at least 99 liters  Shelf dimensions: with at least three (3) shelves  Unit weight: must not be more than 50 kilograms  Interior metal: Aluminum  Exterior metal: Painted cold roll steel  Operating temperature range: -15°C to 40°C  Temperature uniformity - midrange: 0.5 °C  Temperature stability - midrange: 0.1 °C  Controller type: Digital  Display resolution: 0.1 °C  Power voltage, frequency and current: 220 vac, 50/60 hz, 4.0 amps  Max hvac load: At least 1023 btus/hr  Safety certifications: UL 61010-1, EN 61010-1, CSA 61010-1, CE</p> <p><b>WITH:</b>  1. <b>1 unit AVR</b> - 3KVA and compatible with the unit where it is to be used.  Input voltage: 165 V to 280, Output voltage on Battery: 230 V, Frequency: 50/60 Hz auto-detection</p> <p>2. After sales support : training, quick response to requests especially if the machine has problems</p> <p>3. Warranty: At least 1 year warranty on parts and service and At least 1 year warranty on services</p>	<p><b>SPECIFICATIONS:</b>  Volume: at least 99 liters  Shelf dimensions: with at least three (3) shelves  Unit weight: must not be more than 50 kilograms  Interior metal: Aluminum  Exterior metal: Painted cold roll steel  Operating temperature range: <b>0°C to 40°C or higher</b>  Temperature uniformity - midrange: 0.5 °C  Temperature stability - midrange: 0.1 °C  Controller type: Digital  Display resolution: 0.1 °C  Power voltage, frequency and current: 220 vac, 50/60 hz, 4.0 amps  Max hvac load: At least 1023 btus/hr  <b>With Safety certifications for electrical Equipment for Laboratory use</b></p> <p><b>WITH:</b>  1. <b>1 unit AVR – minimum 3KVA or</b> compatible with the unit where it is to be used. Input voltage: 165 V to 280, Output voltage on Battery: 230 V, Frequency: 50/60 Hz auto-detection</p> <p>2. After sales support : training, quick response to requests especially if the machine has problems</p> <p>3. Warranty: At least 1 year warranty on parts and service and At least 1 year warranty on services</p>



	<b>BIOSAFETY CABINET CLASS II - TYPE A2</b>	<b>SPECIFICATIONS:</b> <b>Dimensions</b> External: 1300 x 2200 x 795 mm (51.2 x 86.6 x 31.3 in) Internal: 1200 x 780 x 495 mm (47.2 x 30.7 x 19.5 in) Work surface with adjustable stand 750 to 960 mm (30 to 39 in) Interior work surface area: 0.56 m2 (930 sq. In) Working height of front window: 200 mm (8 in) Maximum lifting height of front window: 535 mm (21 in) <b>Weight</b> Net weight: 240 kg (530 lbs) Maximum weight load of one-piece work tray: 50 kg (110 lbs) Maximum weight load of divided work tray: 25 kg (55 lbs) (max of 50 kg) <b>Ventilation system</b> Exhaust/ inflow air volume: 400 m2/h (230 cfm) Heat emission at 25c ambient: -0.15kw <b>Filter specification</b> Supply/exhaust air filter: Hepa h 14 en 1822, 99.999% at 0.3 um particle size Additional exhaust filter option (aef): Hepa h 14 en 1822, 99.999% at 0.3 um particle size <b>Performance</b> Certification: Must be En 12469; gs nord cert-tuv Sound pressure level: <55 db (a) Lighting power: >1200 lx <b>Electrical data:</b> Voltage: 1/n/pe 230 v ac Frequency: 50 hz Power consumption: 0.4 kw Current consumption: 1.7 a Protection class: I/ ip 20 Protective measure: Conductor connection <b>Should have:</b> Access port: 4 (2 on each side) Service valves: Up to 4 (installed through access ports) Receptacles: One double, right side	<b>SPECIFICATIONS:</b> <u>work area of approximately four (4) feet and with adjustable stand</u>  <b>Weight</b> Maximum weight load of one-piece work tray: 50 kg (110 lbs) Maximum weight load of divided work tray: 25 kg (55 lbs) (max of 50 kg) <b>Ventilation system</b> Exhaust/ inflow air volume: 400 m2/h (230 cfm) Heat emission at 25c ambient: -0.15kw <b>Filter specification</b> Supply/exhaust air filter: Hepa h 14 en 1822, 99.999% at 0.3 um particle size Additional exhaust filter option (aef): Hepa h 14 en 1822, 99.999% at 0.3 um particle size <b>Performance</b> <u>With appropriate Safety Certifications</u> Sound pressure level: <55 db (a) Lighting power: >1200 lx <b>Electrical data:</b> Voltage: 1/n/pe 230 v ac Frequency: 50 hz Power consumption: 0.4 kw Current consumption: 1.7 a Protection class: I/ ip 20 Protective measure: Conductor connection <b>Should have:</b> Access port: 4 (2 on each side) Service valves: Up to 4 (installed through access ports) Receptacles: One double, right side

		<p><b>Should INCLUDE:</b></p> <ol style="list-style-type: none"> <li>1 unit AVR <ul style="list-style-type: none"> <li>AVR - 3KVA and compatible with the unit where it is to be used. Input voltage: 165 V to 280, Output voltage on Battery: 230 V, Frequency: 50/60 Hz auto-detection</li> </ul> </li> <li>After sales support (training from manufactured trained engineers/application specialist), quick response to requests especially if the machine has problems</li> <li>Warranty: At least 1year warranty on parts and service and At least 1year warranty on service</li> </ol>	<p><b>Should INCLUDE:</b></p> <ol style="list-style-type: none"> <li>1 unit AVR <ul style="list-style-type: none"> <li>AVR – <b>MINIMUM 3KVA or compatible</b> with the unit where it is to be used. Input voltage: 165 V to 280, Output voltage on Battery: 230 V, Frequency: 50/60 Hz auto-detection</li> </ul> </li> <li>After sales support (training from manufactured trained engineers/application specialist), quick response to requests especially if the machine has problems</li> <li>Warranty: At least 1year warranty on parts and service and At least 1year warranty on service</li> <li><b>WITH THIRD PARTY VALIDATION OF CALIBRATION</b></li> </ol>
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