

Republic of the Philippines
TARLAC STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE
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August 11, 2023

SUPPLEMENTAL BID BULLETIN No. 1

**Project: Supply and Delivery of Laboratory Equipment for
 DOST-TSU TBI-Aslagan**

This Supplemental Bid Bulletin No. 1 is issued to add item/s and shall be an integral part of Bidding Documents.

Please be informed of the additional information in the bidding documents.

| POSTED TO PHILGEPS | | MODIFICATION | |
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| Section VII. TECHNICAL SPECIFICATIONS | | Section VII. TECHNICAL SPECIFICATIONS | |
| Item No. | Description | Item No. | Description |
| 1. | <p>VERTICAL AUTOCLAVE Specifications: Chamber size: Stainless Steel #304 300mm x 710mm(D) Chamber Capacity: approx. 50 Liter Overall: 600mm (W) x 1090mm (H) x 450mm (D) Power Consumption: 220V-240V / 2.3 KW (MAX) / 10A Using Pressure and Temperature: Unwrapped / Wrapped / Liquids 105-136°C / 0.5-2.3 KG / CM² Design Temperature: 140°C Safety Device: Over Heat (Low Water) Cut-Off Switch Safety Valve and Release Valve Emergency Exhaust Valve Door Safety Holder Pressure Protection Switch Temperature Control System Safety Approval: CE - EMC, LVD Approved CE - MDD Approved Chamber Designed by ASME / U.S.A. Standard P 360,000.00 Standard Accessories: Stainless Steel # 304 Basket X 2pc. Clip X 1pc. / Heater Cover X 1pc. 2000cc bottle X 1pc. Exhaust hose X 1pc. Features: -"LAB" series is the special design and easy for laboratory operation. - "LAB" series are devised with manual adjustable exhaust valve, special for liquid sterilization function. -WIDE RANGE USE: "LAB" series sterilizers are suitable for wrapped /unwrapped /liquid / utensils ... etc.</p> | 1. | <p>VERTICAL AUTOCLAVE Specifications: Chamber size: Stainless Steel #304 300mm x 710mm(D) Chamber Capacity: approx. 50 Liter Overall: 600mm (W) x 1090mm (H) x 450mm (D) Power Consumption: 220V-240V / 2.3 KW (MAX) / 10A Using Pressure and Temperature: Unwrapped / Wrapped / Liquids 105-136°C / 0.5-2.3 KG / CM² Design Temperature: 140°C Safety Device: Over Heat (Low Water) Cut-Off Switch Safety Valve and Release Valve Emergency Exhaust Valve Door Safety Holder Pressure Protection Switch Temperature Control System Safety Approval: CE - EMC, LVD Approved CE - MDD Approved Chamber Designed by ASME / U.S.A. Standard P 360,000.00 Standard Accessories: Stainless Steel # 304 Basket X 2pc. Clip X 1pc. / Heater Cover X 1pc. 2000cc bottle X 1pc. Exhaust hose X 1pc. Features: series is the special design and easy for laboratory operation. series are devised with manual adjustable exhaust valve, special for liquid sterilization function. - WIDE RANGE USE: series sterilizers are suitable for wrapped /unwrapped /liquid / utensils ... etc. Widely used in dental clinic, Hospital, Clinic, and Laboratories. EASY</p> |

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| <p>Widely used in dental clinic, Hospital, Clinic, and Laboratories. EASY MAINTENANCE: - "LAB" series sterilizers are made by stainless steel #304, and the heater is made by stainless steel #316L. So, it is easy to keep clean and maintain. -The new standard sterilization technology has been achieved in terms of testing, certification, and technical assistance. Intelligent design sterilization programs, fully automatic and easy control. - Several programs already for your selection. -SA-300VL: Sterilization temperature are adjustable from 105 °C to 136 °C (0.5 to 2.3 kg/cm²) Sterilization time 0 - 60 minutes for selection. -Automatic control from heating-up - sterilization to time-off. -The entire sterilization process is continuously monitored by a microprocessor indication system. -The sterilization time start counting when the chamber pressure (temperature) arriving the point you set-up. SECURITY and RELIABILITY: -Autoclave manufactured in conformity with 93/42/EEC. -Low water level protection system: The electric power will be cutup, when the water level too low -Each element with independent thermos protection switch, for security consideration. -The Microprocessor system can indicate the program working steps. -"LAB" series can be used for liquid sterilization. -CE standard approved. With one (1) year warranty on parts and services Installation (onsite)</p> | <p>MAINTENANCE: series sterilizers are made by stainless steel #304, and the heater is made by stainless steel #316L. So, it is easy to keep clean and maintain. -The new standard sterilization technology has been achieved in terms of testing, certification, and technical assistance. Intelligent design sterilization programs, fully automatic and easy control. - Several programs already for your selection. - SA-300VL: Sterilization temperature are adjustable from 105 °C to 136 °C (0.5 to 2.3 kg/cm²) Sterilization time 0 - 60 minutes for selection. -Automatic control from heating-up - sterilization to time-off. -The entire sterilization process is continuously monitored by a microprocessor indication system. -The sterilization time start counting when the chamber pressure (temperature) arriving the point you set-up. SECURITY and RELIABILITY: -Autoclave manufactured in conformity with 93/42/EEC. -Low water level protection system: The electric power will be cutup, when the water level too low -Each element with independent thermos protection switch, for security consideration. -The Microprocessor system can indicate the program working steps. series can be used for liquid sterilization. -CE standard approved. With one (1) year warranty on parts and services Installation (onsite)</p> <p>Note, word "LAB" is omitted</p> |
| <p>4. SINGLE CHANNEL MECHANICAL PIPETTOR (0.5 to 10ul) increment 0.01 ul; - Systematic Error for test volumes 1ul needs 0.030ul .5 ul needs 0.075ul and 10ul needs 0.10ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click</p> | <p>4. SINGLE CHANNEL MECHANICAL PIPETTOR (0.5 to 10ul) increment 0.01 ul; - Systematic Error for test volumes 1ul needs 0.030ul .5 ul needs 0.075ul and 10ul needs 0.10ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop</p> |

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| | <p>stop as volume locking; - Length 239 mm; - Weight of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> | | <p>as volume locking; - Length: \pm 10 % of 239 mm; Weight: \pm 10 % of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> |
| 5. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (10 to 100ul) increment 0.10 ul; - Systematic Error for test volumes 10ul needs 0.30ul, 50 ul needs 0.50ul and 100ul needs 0.80ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10μl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length 239 mm; - Weight of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> | 5. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (10 to 100ul) increment 0.10 ul; - Systematic Error for test volumes 10ul needs 0.30ul, 50 ul needs 0.50ul and 100ul needs 0.80ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10μl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length: \pm 10 % of 239 mm; Weight: \pm 10 % of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> |
| 6. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (20-200 ul) increment 0.20 ul; - Systematic Error for test volumes 20ul needs 0.46ul, 100 ul needs 0.80ul and 200ul needs 1.20ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10μl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click</p> | 6. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (20-200 ul) increment 0.20 ul; - Systematic Error for test volumes 20ul needs 0.46ul, 100 ul needs 0.80ul and 200ul needs 1.20ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10μl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length: \pm 10 % of 239 mm; Weight: \pm 10 % of 82 grams</p> |

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| | <p>stop as volume locking; - Length 239 mm; - Weight of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> | | <p>With one (1) year warranty on parts and services Installation (onsite)</p> |
| 7. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (100-1000ul) increment 1.0 ul; - Systematic Error for test volumes 100ul needs 12.0ul, 500 ul needs 4.0ul and 1000ul needs 7.0ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length 239 mm; - Weight of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> | 7. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (100-1000ul) increment 1.0 ul; - Systematic Error for test volumes 100ul needs 12.0ul, 500 ul needs 4.0ul and 1000ul needs 7.0ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length: ± 10 % of 239 mm; Weight: ± 10 % of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> |
| 8. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (500-5000 ul) increment 10.0 ul; Systematic Error for test volumes 500ul needs 0.46ul, 2,5000 ul needs 17.50ul and 5000ul needs 30.0ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length 239 mm; - Weight of 82 grams</p> | 8. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (500-5000 ul) increment 10.0 ul; Systematic Error for test volumes 500ul needs 0.46ul, 2,5000 ul needs 17.50ul and 5000ul needs 30.0ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length: ± 10 % of 239 mm; Weight: ± 10 % of 82 grams</p> |


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| | With one (1) year warranty on parts and services Installation (onsite) | | With one (1) year warranty on parts and services Installation (onsite) |
| 9. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (1000-10,000 ul) increment 20.0 ul; - Systematic Error for test volumes 1000ul needs 30.0ul, 5,000 ul needs 60.0ul and 10,000ul needs 60.0ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length 239 mm; - Weight of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> | 9. | <p>SINGLE CHANNEL MECHANICAL PIPETTOR (1000-10,000 ul) increment 20.0 ul; - Systematic Error for test volumes 1000ul needs 30.0ul, 5,000 ul needs 60.0ul and 10,000ul needs 60.0ul; Descriptions: - Easy volume adjustment with click stop system; - Large display for easy reading of volume - For both right- and left-handed users; - Color coded for easy matching of fitting tips; - Materials have high chemical and UV- resistance to secure long life-time of the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools; - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips; - With light tip ejector; - Fully autoclavable without the need for disassembly; - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop as volume locking; - Length: \pm 10 % of 239 mm; Weight: \pm 10 % of 82 grams With one (1) year warranty on parts and services Installation (onsite)</p> |

Additional Requirements:

The supplier will provide the following certificates:

1. Training Certificate of Service Engineer from Manufacturer
2. Distributorship Certificate from Manufacturer


DR. MURPHY P. MOHAMMED
Chairperson


D. TUAZON
End user