

# 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	
Section VII. TECHNICAL SPECIFICATIONS		Section VII. TECHNICAL SPECIFICATIONS	
Item No.	Description	Item No.	Description
1.	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 functionWIDE RANGE USE: "LAB" series sterilizers are suitable for wrapped /unwrapped /liquid / utensils etc.	1.	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

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 heatingup - 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)

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)

Note, word "LAB" is omitted

### 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

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as volume locking; - Length: \(\pi\) 10 \(%\) of 239 stop as volume locking; - Length 239 mm; mm; Weight: 710 % of 82 grams Weight of 82 grams With one (1) year warranty on parts and With one (1) year warranty on parts and services services Installation (onsite) Installation (onsite) 5. SINGLE CHANNEL MECHANICAL 5. SINGLE CHANNEL MECHANICAL PIPETTOR (10 to 100ul) PIPETTOR (10 to 100ul) increment 0.10 ul; - Systematic Error for test increment 0.10 ul: - Systematic Error for test volumes 10ul needs 0.30ul, 50 ul needs volumes 10ul needs 0.30ul, 50 ul needs 0.50ul 0.50ul and 100ul needs 0.80ul; Descriptions: and 100ul needs 0.80ul; Descriptions: - Easy - Easy volume adjustment with click stop volume adjustment with click stop system; system; - Large display for easy reading of Large display for easy reading of volume - For volume - For both right- and left-handed both right- and left-handed users; - Color coded users; - Color coded for easy matching of for easy matching of fitting tips; - Materials fitting tips; - Materials have high chemical have high chemical and UV- resistance to and UV- resistance to secure long life-time of secure long life-time of the pipette: - Easy the pipette; - Easy cleaning only with 3 parts cleaning only with 3 parts needed to needed to disassemble for deep cleaning, disassemble for deep cleaning, without any without any tools: - Safe-cone filters tools: - Safe-cone filters available for models available for models above 10µl for extra above 10µl for extra protection when using nonprotection when using non-filtered tips; filtered tips; - With light tip ejector; - Fully With light tip ejector; - Fully autoclavable autoclavable without the need for disassembly: without the need for disassembly; - Superior - Superior Ergonomics - designed handle and Ergonomics - designed handle and finger finger hook; - Good Thermal Insulation to hook: - Good Thermal Insulation to avoid avoid transfer of heat from hand to mechanical transfer of heat from hand to mechanical spring coil; - Pipetting force of 15N to avoid spring coil; - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI); - With click stop Repetitive Strain Injury (RSI); - With click as volume locking; - Length: ∓ 10 % of 239 stop as volume locking; - Length 239 mm; mm; Weight: 710 % of 82 grams Weight of 82 grams With one (1) year warranty on parts and With one (1) year warranty on parts and services services Installation (onsite) Installation (onsite) SINGLE CHANNEL MECHANICAL SINGLE CHANNEL MECHANICAL 6. 6. PIPETTOR (20-200 ul) PIPETTOR (20-200 ul) increment 0.20 ul: - Systematic Error for test increment 0.20 ul; - Systematic Error for test volumes 20ul needs 0.46ul, 100 ul needs volumes 20ul needs 0.46ul, 100 ul needs 0.80ul 0.80ul and 200ul needs 1.20ul; Descriptions: and 200ul needs 1.20ul; Descriptions: - Easy volume adjustment with click stop system; -- Easy volume adjustment with click stop system; - Large display for easy reading of Large display for easy reading of volume - For both right- and left-handed users; - Color coded volume - For both right- and left-handed for easy matching of fitting tips; - Materials users: - Color coded for easy matching of have high chemical and UV- resistance to fitting tips; - Materials have high chemical secure long life-time of the pipette; - Easy and UV- resistance to secure long life-time of cleaning only with 3 parts needed to the pipette; - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, disassemble for deep cleaning, without any tools; - Safe-cone filters available for models without any tools; - Safe-cone filters above 10µl for extra protection when using nonavailable for models above 10µl for extra protection when using non-filtered tips; filtered tips: - With light tip ejector: - Fully With light tip ejector; - Fully autoclavable autoclavable without the need for disassembly; without the need for disassembly; - Superior - Superior Ergonomics - designed handle and finger hook; - Good Thermal Insulation to Ergonomics - designed handle and finger avoid transfer of heat from hand to mechanical hook; - Good Thermal Insulation to avoid spring coil; - Pipetting force of 15N to avoid transfer of heat from hand to mechanical

spring coil; - Pipetting force of 15N to avoid

Repetitive Strain Injury (RSI); - With click

Repetitive Strain Injury (RSI); - With click stop

as volume locking; - Length: ∓ 10 % of 239

mm; Weight: 7 10 % of 82 grams

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

	With one (1) year warranty on parts and		With one (1) year warranty on parts and
	services		services
	Installation (onsite)		Installation (onsite)
9.	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)	9.	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: \(\pi\) 10 % of 239 mm; Weight: \(\pi\) 10 % of 82 grams With one (1) year warranty on parts and services Installation (onsite)

### **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

End user

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