



SUPPLEMENTAL/BID BULLETIN

Project Reference No. **IB No. 23-41**

Name of the Project **Procurement of Various Laboratory Equipment for Molecular Laboratory**

Location of the Project **WVSU Medical Center**

ADDENDUM NO. 01 - 2023

July 21, 2023

This Addendum No. 01 is issued to modify or amend items in the Bidding Documents. Attached is the **Revised Section VII. Technical Specifications (pages 18-26)**. This shall form an integral part of the Bidding Documents.

A. Invitation to Bid

As indicated in the Bidding Documents	Corrections/Modifications/Amendments (in bold & italicized words)
<p>9. Bid opening shall be on <u>August 2, 2023 9:00 A.M.</u> at the given <u>address below</u>. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity at the given <u>address below</u>.</p>	<p>9. Bid opening shall be on <u>August 2, 2023 9:00 A.M.</u> at the given <u>address below</u> or through <u>electronic submission using a two-factor security procedure consisting of an archive format compression and password protection with separate password for technical and financial component envelope</u>. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity <u>through video conferencing or webcasting via zoom</u>.</p>
<p>10. The <u>West Visayas State University Medical Center</u> reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.</p>	<p>10. Bidders who submit their bids online should likewise submit a two-factor security procedure consisting of an archive format compression and password protection with separate password for technical and financial component envelope and disclose the password for accessing their respective bid submission only during the actual bid opening.</p>
<p>11. For further information, please refer to: JULIUS L. JUANITO <i>West Visayas State University Medical Center</i> <i>BAC Secretariat Office, 2nd Floor Dormitory Building</i> <i>WVSU Medical Center</i> <i>Jaro, Iloilo City</i> <i>(033) 320-2431 local 224/15</i></p>	<p>11. The <u>West Visayas State University Medical Center</u> reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.</p>
<p>12. You may visit the following websites: For downloading of Bidding Documents: <u>www.wvsu.edu.ph</u> <i>July 12, 2023</i></p>	<p>12. For further information, please refer to: JULIUS L. JUANITO <i>West Visayas State University Medical Center</i> <i>BAC Secretariat Office, 2nd Floor Dormitory Building</i> <i>WVSU Medical Center</i> <i>Jaro, Iloilo City</i> <i>(033) 320-2431 local 224/153</i></p>
	<p>13. You may visit the following websites: For downloading of Bidding Documents: <u>www.wvsu.edu.ph</u> <u>For online submission: mc-bacprac@wvsu.edu.ph</u> <i>July 12, 2023</i></p>

B. Section VII Technical Specifications

As indicated in the Bidding Documents	Corrections/Modifications/Amendments (in bold & italicized words)				
<table border="1"> <thead> <tr> <th data-bbox="79 1848 135 1909">Item No.</th> <th data-bbox="135 1848 975 1909">Item Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="79 1909 135 2340">1</td> <td data-bbox="135 1909 975 2340"> <p>Automated Liquid Handling with HEPA Filter Cabinet</p> <ul style="list-style-type: none"> ● Removable Tray Capacity ● 9-position removable tray ● Control: Touchscreen tablet or PC control via USB and advance software control ● Pipette Head Options: <ul style="list-style-type: none"> a. Eight channel 1ul-20 ul b. Eight channel 20ul-200 ul c. Four channel 100ul-1200ul d. Single channel 1000 ul e. Pipette Head Mounts: Two pipetting heads (1ul-20 ul, 20ul-200 ul) ● Labware Compatibility: Standard shallow- and deep-well microplates and microcentrifuge tubes </td> </tr> </tbody> </table>	Item No.	Item Description	1	<p>Automated Liquid Handling with HEPA Filter Cabinet</p> <ul style="list-style-type: none"> ● Removable Tray Capacity ● 9-position removable tray ● Control: Touchscreen tablet or PC control via USB and advance software control ● Pipette Head Options: <ul style="list-style-type: none"> a. Eight channel 1ul-20 ul b. Eight channel 20ul-200 ul c. Four channel 100ul-1200ul d. Single channel 1000 ul e. Pipette Head Mounts: Two pipetting heads (1ul-20 ul, 20ul-200 ul) ● Labware Compatibility: Standard shallow- and deep-well microplates and microcentrifuge tubes 	<ul style="list-style-type: none"> ● 9-position removable tray
Item No.	Item Description				
1	<p>Automated Liquid Handling with HEPA Filter Cabinet</p> <ul style="list-style-type: none"> ● Removable Tray Capacity ● 9-position removable tray ● Control: Touchscreen tablet or PC control via USB and advance software control ● Pipette Head Options: <ul style="list-style-type: none"> a. Eight channel 1ul-20 ul b. Eight channel 20ul-200 ul c. Four channel 100ul-1200ul d. Single channel 1000 ul e. Pipette Head Mounts: Two pipetting heads (1ul-20 ul, 20ul-200 ul) ● Labware Compatibility: Standard shallow- and deep-well microplates and microcentrifuge tubes 				



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Item No.	As indicated in the Bidding Documents	Corrections/Modifications/Amendments <i>(in bold & italicized words)</i>
	<ul style="list-style-type: none"> • Dimensions (W x D x H) not greater than 54.4 x 65.5 x 53.1 cm • Environmental Conditions: Indoor use, Altitude: up to 2000 m • Temperature range: 5°C-40°C 	
	<ul style="list-style-type: none"> • Humidity: Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C. 	
	Applications:	
	a. PCR	
	b. qPCR	
	c. RT-PCR	
	d. NGS Library preparation	
	e. Cell-based assay	
	f. Kinase assay	
	g. Luminescent cell viability assay	
	h. Cytotoxicity assay	
	i. Caspase assay	
	j. Normalization – import volumes or concentrations as a .csv	
	k. Pooling	
	l. Cherry-picking – import wells as a .csv	
	m. Serial dilutions	
	n. 96 to 384 transfers	
	Accessories:	
	1. 2 robotic pipetting head (8 channel: 1-20ul; 20-200ul)	
	2. Tablet or Laptop with control software	
	3. 9-position tray	
	4. 3 pieces reload block	
	5. PCR tube rack	
	6. Rack for 0.5-2.0 ml tube screw cap	
	7. Rack for 1.5-2.0 ml tube flip cap	
	8. 3 Rack for 96 well plate with risers	
	9. 5 x 960 tips for (1-10ul tips)	
	10. 3 x 960 tips for (20-200 ul tips)	
	11. 96 well magnetic rack	
	12. Compatible AVR	
	13. PCR Cabinet that can fit the automated liquid handling system	
	14. Semi skirted PCR plates	
2	<ul style="list-style-type: none"> • 1 year warranty including Calibration and Preventive Maintenance <p>Multimode Reader</p> <ul style="list-style-type: none"> • Multi-label microplate reader, capable of alpha technologies, luminescence, fluorescence intensity (top & bottom) and absorbance reading. • Compact and light weight, can fit in a biosafety cabinet • Top and bottom reading of all standard technologies for plate formats from 1- to 1536-wells • With shaking and temperature control • Filter Set: <ul style="list-style-type: none"> a. For nucleic acid quantification (2 sets of 260nm and 280 nm) b. 405/10 nm for absorbance c. 480/30nm Excitation & 530/30nm emission for FITC • fluorescence intensity • 700 nm IR-cutoff for luminescence 	<ul style="list-style-type: none"> • 1 year warranty including Calibration and Preventive Maintenance <i>(Provide Certification)</i>



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Item No.	Item Description	
	<ul style="list-style-type: none"> ● 50/50 general beam splitter 	
	<ul style="list-style-type: none"> ● Alpha emission filter 575/110nm for alphascreen, alphasisa, alphasurefire, and alphaCETSA 	
	<ul style="list-style-type: none"> ● Browser-based control software 	
	<ul style="list-style-type: none"> ● Wifi router and network LAN cable for remote control 	
	<ul style="list-style-type: none"> ● MyAssays Desktop Pro analysis software 	
	<ul style="list-style-type: none"> ● Width: Not greater than 20 cm (8 in), Depth: 50 cm (19.5 in), Height (without dispenser): 26.5 cm (10.5 in) 	
	<ul style="list-style-type: none"> ● Weight: Not greater than 13 kg (29 lbs) without dispenser, 15 kg (33 lbs) with dispenser 	
	<ul style="list-style-type: none"> ● Plate Formats 1 – to 1536-wells 	
	<ul style="list-style-type: none"> ● Environmental Control Temperature Gas (optional) 3° C above ambient up to 65 °C (0.1 °C increments) CO2; 0% - 20% (<0.1% accuracy); 1% - 20% (<0.1% accuracy) 	
	<ul style="list-style-type: none"> ● Shaking Linear, orbital and double orbital modes 	
	<ul style="list-style-type: none"> ● Dispenser (optional) 2 injectors, 500 µl each syringe, manual rinsing and priming control 	
	<ul style="list-style-type: none"> ● Operating Environment 15° C - 35° C, <80 % humidity 	
	<ul style="list-style-type: none"> ● Power Supply: Autovolt: 110 – 230 V, 50/60 Hz 	
	<ul style="list-style-type: none"> ● Power Consumption 100 W 	
	<ul style="list-style-type: none"> ● Connection LAN, USB 	
	<ul style="list-style-type: none"> ● Remote Control Wi-Fi (modem included); LAN network 	
	<ul style="list-style-type: none"> ● Operating System Windows (Laptop/ PC); iOS (Mac); Android (tablet) 	
	<ul style="list-style-type: none"> ● Absorbance only Filter or Spectrometer for Absorbance Wavelength range 230 nm–1000 nm (1.0 nm increments) 	
	<ul style="list-style-type: none"> ● Variable bandwidth 2.0 nm, 5.0 nm, 10 nm 	
	DETECTOR:	
	<ul style="list-style-type: none"> ● Flexible measurement height 0 mm – 16 mm 	
	<ul style="list-style-type: none"> ● Wavelength range (Emission) 230 nm – 850 nm 	
	<ul style="list-style-type: none"> ● FLASH LAMP: Wavelength range (Excitation) 230 nm – 1000 nm 	
	<ul style="list-style-type: none"> ● PERFORMANCE SPECIFICATIONS: Absorbance Filter OD range 0 – 4 OD 0 – 4 OD OD accuracy <2.0% (OD 2) <2.0% (OD 2) 	
	<ul style="list-style-type: none"> ● Absorbance Spectrometer: OD range 0 – 2 OD 0 – 2 OD, OD accuracy <2.0% (OD 2) <2.0% (OD 2) 	
	<ul style="list-style-type: none"> ● Luminescence Sensitivity: <ul style="list-style-type: none"> a. (Top Reading) 50 amol² - b. Dynamic range 6 log 6 log 	
	<ul style="list-style-type: none"> ● Fluorescence Intensity: Sensitivity (Top Reading) 0.5 fmol 0.01 fmol ,Sensitivity (Bottom Reading) - 0.06 fmol 	
	<ul style="list-style-type: none"> ● Time-resolved Fluorescence Sensitivity (Top Reading) 2.25 amol 0.5 amol 	
	<ul style="list-style-type: none"> ● Fluorescence Polarization Sensitivity (Top Reading) 3mP 3 mP 	
	<ul style="list-style-type: none"> ● Inclusions: Branded laptop, 3KVA UPS, 3-in-1 printer, 96 Well microplate black and white color 	
3	<p>Fragment Analyzer</p> <ul style="list-style-type: none"> ● APPLICATION Microfluidics- based platform for the analysis of DNA, RNA, proteins and cells. Deliver automated, high quality digital data within 30 minutes. The gold standard for RNA QC, 21CFR Part 11 compliance and full compliance services Sophisticated user-friendly software with multiple functionality. 	
	<ul style="list-style-type: none"> ● Applicable for: <ul style="list-style-type: none"> ● DNA Solutions (sizing and quantitation) ● High sensitivity: use laser (LIF) detection to detect DNA fragments down to 5 pg ● RNA Solutions for RNA integrity check ● RNA Integrity Number (RIN), to compare quality 	



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	Item Description	
	<ul style="list-style-type: none"> 1ul sample consumption: use as little as 50pgof total RNA for analysis 	
	<ul style="list-style-type: none"> Protein detection in ng range: Fast and reproducible protein sizing and quantification • Protein detection in pg range: High sensitivity (down to 1 pg) and QA/QC applications 	
	<ul style="list-style-type: none"> ESSENTIAL FEATURES 	
	<ul style="list-style-type: none"> Faster than gels (digital data in 30 minutes for quality and quantity of up to 12 samples) 	
	<ul style="list-style-type: none"> Reproducible and complete digital data with the micro-fabricated chips 	
	<ul style="list-style-type: none"> Quantification of each individual fragment per sample offers purity results 	
	<ul style="list-style-type: none"> Compliance Services allow work within regulated environments (e.g. QA/QC labs) 	
	<ul style="list-style-type: none"> Analysis software for easy digital handling and storage of all data 	
	<ul style="list-style-type: none"> Option for Security Pack software providing tools for 21CFR part 11 compliance 	
	<p>INSTRUMENT SPECIFICATION:</p>	
	<ul style="list-style-type: none"> Weight: not greater than 10kg (22lbs) 	
	<ul style="list-style-type: none"> Dimension: Not greater than (H x W x D): 290x162x412 mm 	
	<ul style="list-style-type: none"> Line voltage: Autovolt: 100-240 VAC 	
	<ul style="list-style-type: none"> Line frequency: 50/60 Hz 	
	<ul style="list-style-type: none"> Power consumption: 60VA 	
	<ul style="list-style-type: none"> Ambient operating temperature: 5-40°C 	
	<ul style="list-style-type: none"> Safety standard IEC, EN, CSA, UL: Installation category II, Pollution degree 2, Laser class 1 	
	<ul style="list-style-type: none"> Bayonet cartridge with exchangeable electrode for regular cleaning 	
	<ul style="list-style-type: none"> The System comes complete with: - laptop PC, - Analysis software for running the system and data analysis, - UPS, - vortex mixer, - chip loading station, - cables and manuals, etc. with the electrophoresis electrode cartridge 	
	<ul style="list-style-type: none"> WITH START UP REAGENT- HIGH SENSITIVITY DNA KITS 	
	<p>HARDWARE</p>	
	<ul style="list-style-type: none"> Metal made body with epoxy coated paint. 	
	<ul style="list-style-type: none"> The cartridge have 16 platinum electrodes which are connected to high voltage power supplies within the instrument and forming an electrical circuit by touching the liquid in the wells. 	
	<ul style="list-style-type: none"> Have a chip holder with heater plate for temperature control. 	
	<ul style="list-style-type: none"> Have two different optics, red laser with an excitation wavelength of 635nm and emission wavelengths in the range 674 to 696nm and a high intensity blue LED that detects emissions in the range510 to 546nm. 	
	<ul style="list-style-type: none"> The limits of detection for each assay are: 0.5 pg DNA fragments, 200 pg of Total RNA, and 500 pg of mRNA, 1 pg protein. 	
	<p>TYPICAL APPLICATIONS:</p>	
	<ol style="list-style-type: none"> RNA sample QC prior microarray or q PCR experiments 	
	<ol style="list-style-type: none"> DNA analysis of PCR/m PCR and RT-PCR products 	
	<ol style="list-style-type: none"> DNA library sample QC for Next Generation Sequencing 	
	<ol style="list-style-type: none"> Protein expression analysis 	
	<ol style="list-style-type: none"> Protein purity during purification 	
	<ol style="list-style-type: none"> Immunoprecipitation as an alternative to Western Blot or "Reverse Western" 	
	<ul style="list-style-type: none"> Analytical specifications High Sensitivity DNA Kit 	
	<ul style="list-style-type: none"> Sizing range 50 – 7000 bp 	
	<ul style="list-style-type: none"> Sizing resolution 50-600 bp: ±10% 600-7000 bp:± 20% 	
	<ul style="list-style-type: none"> Sizing accuracy ± 10% 	
	<ul style="list-style-type: none"> Sizing reproducibility 5% CV 	
	<ul style="list-style-type: none"> Quantitation accuracy± 20% 	
	<ul style="list-style-type: none"> Quantitation reproducibility1 50-2000 bp: 15% CV 2000-7000 bp: 10% CV 	
	<ul style="list-style-type: none"> Quantitative range1 5-500 pg/µL 	



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Item No.	Item Description	
	<ul style="list-style-type: none"> Maximum salt concentration in sample 10 mM Tris and 1 mM EDTA Physical specifications Analysis time 45 minutes Samples per chip 11 Sample volume 1 µL Kit stability: 4 months Kit size 10 chips, 11 samples/chip = 110 samples/kit 1 year warranty including Calibration and Preventive Maintenance 	<ul style="list-style-type: none"> 1 year warranty including Calibration and Preventive Maintenance (Provide Certification)
4	Ultra Low Freezer (-80°C)	
	<ul style="list-style-type: none"> 7" touch screen, easy & convenient observation, data storage (up to 10 yrs) Checking history temperature curve and alarm record on screen Pressure release valve for quick re-entries after door opening Self-diagnostic, automatic check & alarm for key components Optional USB port to download data SUS304 interior and inner chambers Powder coated steel exterior Document groove to put paper Vacuum insulated inner doors with latches Door handle with locking system Wall extension protection fitting Heavy duty casters, lockable Washable filler Testing port for external monitoring Remote alarm contacts Capacity: 340L/11.93 cu ft Inner doors: 2 pcs SUS304 Shelves: 3 pcs SUS304 (4 sections) Cooling capacity: Direct cooling Refrigerant: CFC-free Noise: 50 dBA Ambient temp range: 10 to 32 deg C Temperature range: -40 to -86 deg C Cooling system: Two compressor, cascade system, SECOP brand compressors Sensor: PT100 Controller: Microprocessor Display and operation: Not less than 7" touchscreen Power requirements: Autovolt:220V-240V, 50/60Hz, 870W Power consumption: 6.75 kW/24 hrs Vial capacity: 19,200 (192 boxes) Internal dimensions: Not greater than 488 x 607 x 1140 mm External dimensions: Not greater than 880 x 980 x 1940 mm Net weight: Not greater than 190 kg Includes stainless steel racking shelves 1 year warranty including Calibration and Preventive Maintenance 	<ul style="list-style-type: none"> Capacity: at least 338L Vial capacity: 19,200 (192 boxes) - Delete Internal dimensions: Not greater than 488 x 607 x 1140 mm - Delete External dimensions: Not greater than 880 x 980 x 1940 mm - Delete Net weight: Not greater than 190 kg - Delete 1 year warranty including Calibration and Preventive Maintenance (Provide Certification)



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5	<p>Laboratory Refrigerator (4°C)</p> <ul style="list-style-type: none"> • Accurate temperature control makes inner temperature kept at 2 to 8°C with adjustment resolution of 0.1 °C • High-tech integrated sensors to display and control temperature • Automatic defrost to remove moisture on cooling surface • Removable outdoor double seal design • Microprocessor controlled forced-air cooling system • Caster with break design • Environment friendly refrigerants: CFC-freezer and HCFC-free • Password protection • Safety lock • Two alarm styles: buzzer and flash • Start delay protection • Capacity: 260L • External size (WDH): Not greater than 580 x 560 x 1785 mm • Internal size (WDH): Not greater than 500 x 420 x 1090 mm • Temperature range: 2 to 8°C • Accuracy: 0.1°C • Ambient temperature: 10 to 32°C • Refrigeration type: Forced air refrigeration system • Noise: 42 dBA • Double layer glass door • Exterior material: Epoxy coating • Interior material: Anti-corrosion • Illumination: LED light • Alarms: High/Low temperature alarm, Sensor error alarm, Door ajar alarm, Power failure alarm, Low battery alarm • Shelves: 4 pcs supplied, adjustable • Power: 220V, 60Hz, 254W • Standard accessories: LED Lamp, shelves, door lock and keys, casters, feet • 1 year warranty including Calibration and Preventive Maintenance 	<ul style="list-style-type: none"> • Capacity: 260-315L • External size (WDH): Not greater than 580x560x1785 mm – Delete • Internal size (WDH): Not greater than 500x420x1090 mm– Delete • 1 year warranty including Calibration and Preventive Maintenance (Provide Certification)
6	<p>Biosafety Cabinet</p> <ul style="list-style-type: none"> • EN 12469-certified Class II Biological Safety • Cabinets Units feature 60% less energy consumption and heat output • Depth (Metric) Exterior 80cm • Exhaust Air Filter HEPA H 14 EN 1822, 99.995% at 0.3µm particle • Height (Metric) Exterior 152cm • Voltage 230V • Certifications/Compliance: EN 12469, by TÜV Nord, LNE (0.9 and 1.2m). EN 12469, by TÜV Nord (1.5 and 1.8m) • Energy Consumption (Operating Set Point) 200w • Energy Consumption (Reduced Flow Mode) <40w • Noise Level <59dBA • Receptacles: One double, right side • Interior Width: 4 ft. • Exterior Width: 130cm • Includes compatible AVR • 1 year warranty including Calibration and Preventive Maintenance 	<ul style="list-style-type: none"> • Certifications/Compliance: EN 12469, by TÜV Nord, LNE (0.9 and 1.2m). EN 12469, by TÜV Nord (1.5 and 1.8m) or its equivalent • Noise Level <65dBA • 1 year warranty including Calibration and Preventive Maintenance (Provide Certification)



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7	<p>Gel Documentation System</p> <ul style="list-style-type: none"> Includes: 5MP camera with motor driven zoom lens f1.2. With epi white lights for sample positioning. UV032 filter. Unlimited copies of GeneTools Transilluminator (20 x 24cm; 302nm) 230V, 60 Hz with runners Visible light converter Neutral field screens for UV neutral fielding (1 blue, 1 frosted). Compact darkroom with hinged door Motor driven optics Can use a range of lighting: UV-visible light converter screen and UV-blue light converter screen option Touch screen Image enhancements and annotations Analysis software <p>Applications:</p> <ul style="list-style-type: none"> DNA, RNA and Protein gel imaging Analysis of gels, colony plates and blots Includes compatible AVR 1 year warranty including Calibration and Preventive Maintenance 	<ul style="list-style-type: none"> 1 year warranty including Calibration and Preventive Maintenance (Provide Certification)
8	<p>Thermomixer</p> <ul style="list-style-type: none"> Small footprint of not greater than 8 x 11 in Compatible with popular tube sizes, including 6 x 50 ml tubes Speed, time, temperature are simultaneously displayed, showing actual and set values Integral over-temperature control ensuring long life, safety, sample integrity Precision contoured wells for uniform thermal transfer Temperature control from 0 to 100°C Sequence link function for linking or repeating programs Temperature range: Ambient -20 to 100°C Heating ramp rate: 5°C/min Cooling ramp rate: 2.5°C/min Temperature accuracy: +/- 1.0°C Temp increment: 0.1°C Speed increment: 10 rpm Speed range: 200 to 1500 rpm, or "off" Motion/orbit: Horizontal circular, 2 mm Timer: 1 min to 99 hrs 59 mins, or continuous Dimensions: Not greater than 8.25 x 11.5 x 8.25 in. 21 x 29 x 21 cm Weight: Not greater than 18 lbs (8 kg) Electrical: 230V; 60Hz, 500W Options Included: Block for 35x1.5 ml, Block for 35x2.0 ml 1 year warranty including Calibration and Preventive Maintenance 	<ul style="list-style-type: none"> Compatible with popular tube sizes, including 6 x 50 ml tubes (optional) Options- Delete Included: Block for 35x1.5 ml, Block for 35x2.0 ml 1 year warranty including Calibration and Preventive Maintenance (Provide Certification)
9	<p>Fluorometer with rotator</p> <ul style="list-style-type: none"> Easy-to-Use DNA Quantitation Bundle Measure low dsDNA, highly sensitive up to 10 pg/ul (1 ul sample input) 	



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	<ul style="list-style-type: none"> Store the last 50 readings and transfer data in real time 	
	<ul style="list-style-type: none"> Dyes are optimized for high sensitivity, broad dynamic range and target specificity 	
	<ul style="list-style-type: none"> dyes for dsDNA, ssDNA, RNA are available 	
	<ul style="list-style-type: none"> Use for Next-Generation Sequencing, successfully used in several NGS systems including Illumina (HiSeq/miSeq), Roche (454) and Thermo Fisher (Ion Torrent™ and Ion Proton™) systems, and Oxford nanopore sequencer 	
	<ul style="list-style-type: none"> Supplied with quantification kit for dsDNA System, an add-and-read format, making measuring low concentrations of dsDNA simple—no dilutions, no extra tubes 	
	<ul style="list-style-type: none"> Significantly increased sensitivity over absorbance at 260nm (NanoDrop spectrophotometer) for those samples that are low in concentration. 	
	<ul style="list-style-type: none"> High specificity to dsDNA with minimal binding to ssDNA, RNA, protein & other compounds (dsDNA systems) 	
	<ul style="list-style-type: none"> Broad dynamic range, five orders of magnitude 	
	<ul style="list-style-type: none"> Simple and efficient calibration process, with calibration data being saved for future measurements 	
	<ul style="list-style-type: none"> Free software enables export of data to a personal computer 	
	<ul style="list-style-type: none"> Detectors: Solid state silicon sensor 	
	<ul style="list-style-type: none"> Excitation filters: Red: 640nm shortpass (wavelengths up to 640nm) 	
	<ul style="list-style-type: none"> Blue: 495nm shortpass (wavelengths up to 495nm) 	
	<ul style="list-style-type: none"> Emission filters: Red: 660–720nm 	
	<ul style="list-style-type: none"> Blue: 510–580nm 	
	<ul style="list-style-type: none"> Linear dynamic range: Five orders of magnitude, assay-dependent 	
	<ul style="list-style-type: none"> Automatic sleep mode: After 1 hour of inactivity 	
	<ul style="list-style-type: none"> Dimensions: Not greater than 22.7 × 11.5 × 4.5cm (L × W × H) 	
	<ul style="list-style-type: none"> Weight: Not greater than 400 g 	
	<ul style="list-style-type: none"> Supplied with 50 ml 0.5ml PCR Tubes, 	
	Accessories: Mini Plus Rotator	
	<ul style="list-style-type: none"> Speed: 5 to 70 rpm 	
	<ul style="list-style-type: none"> 2. Mixing modes: 	
	<ul style="list-style-type: none"> - "Mix" function: Rotating in combination w/ oscillations (increased mixing) 	
	<ul style="list-style-type: none"> - "Pause" function: Rotating with intermittent "stops" during rotation 	
	<ul style="list-style-type: none"> - "Rock" function: Back and forth, gentle rocking motion (see-saw) 	
	<ul style="list-style-type: none"> Dimensions: not greater than 10.8 x 6 x 6.5 in 	
	<ul style="list-style-type: none"> Weight: Not greater than 3 lbs (1.4 kg) 	
	<ul style="list-style-type: none"> 1 year warranty including Calibration and Preventive Maintenance 	<ul style="list-style-type: none"> 1 year warranty including Calibration and Preventive Maintenance <i>(Provide Certification)</i>

For guidance and information of all concerned.


PATRICIA P. TUPAS, D.D.M.
 Vice Chairperson
 Bids and Awards Committee

Received by the Bidder:

Printed Name & Signature

Name of Bidder/Company

qa
Date: _____

Section VII. Technical Specifications

*IB No. UMC 23-41 Procurement of Various Laboratory Equipment for Molecular Laboratory
(Revised as indicated in the Bid Bulletin No. 01-2023)*

Item No.	Specification	Statement of Compliance			
		Qty	Unit	Brand	Model
	Procurement of Various Laboratory Equipment for Molecular Laboratory				
1	<p>Automated Liquid Handling with HEPA Filter Cabinet</p> <ul style="list-style-type: none"> ● Removable Tray Capacity ● 9-position removable tray ● Control: Touchscreen tablet or PC control via USB and advance software control ● Pipette Head Options: <ul style="list-style-type: none"> a. Eight channel 1ul-20 ul b. Eight channel 20ul-200 ul c. Four channel 100ul-1200ul d. Single channel 1000 ul e. Pipette Head Mounts: Two pipetting heads (1ul-20 ul, 20ul-200 ul) ● Labware Compatibility: Standard shallow- and deep-well microplates and microcentrifuge tubes ● Dimensions (W x D x H) not greater than 54.4 x 65.5 x 53.1 cm ● Environmental Conditions: Indoor use, Altitude: up to 2000 m ● Temperature range: 5°C-40°C ● Humidity: Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C. <p>Applications:</p> <ul style="list-style-type: none"> a. PCR b. qPCR c. RT-PCR d. NGS Library preparation e. Cell-based assay f. Kinase assay g. Luminescent cell viability assay h. Cytotoxicity assay i. Caspase assay j. Normalization – import volumes or concentrations as a .csv k. Pooling l. Cherry-picking – import wells as a .csv m. Serial dilutions n. 96 to 384 transfers <p>Accessories:</p> <ul style="list-style-type: none"> 1. 2 robotic pipetting head (8 channel: 1-20ul; 20-200ul) 2. Tablet or Laptop with control software 3. 9-position tray 4. 3 pieces reload block 5. PCR tube rack 	1	Unit		

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	Procurement of Various Laboratory Equipment for Molecular Laboratory				
	6. Rack for 0.5-2.0 ml tube screw cap				
	7. Rack for 1.5-2.0 ml tube flip cap				
	8. 3 Rack for 96 well plate with risers				
	9. 5 x 960 tips for (1-10ul tips)				
	10. 3 x 960 tips for (20-200 ul tips)				
	11. 96 well magnetic rack				
	12. Compatible AVR				
	13. PCR Cabinet that can fit the automated liquid handling system				
	14. Semi skirted PCR plates				
2	<ul style="list-style-type: none"> • 1 year warranty including Calibration and Preventive Maintenance (Provide Certification) 	1	Unit		
	Multimode Reader				
	<ul style="list-style-type: none"> • Multi-label microplate reader, capable of alpha technologies, luminescence, fluorescence intensity (top & bottom) and absorbance reading. 				
	<ul style="list-style-type: none"> • Compact and light weight, can fit in a biosafety cabinet 				
	<ul style="list-style-type: none"> • Top and bottom reading of all standard technologies for plate formats from 1- to 1536-wells 				
	<ul style="list-style-type: none"> • With shaking and temperature control 				
	<ul style="list-style-type: none"> • Filter Set: <ul style="list-style-type: none"> a. For nucleic acid quantification (2 sets of 260nm and 280 nm) b. 405/10 nm for absorbance c. 480/30nm Excitation & 530/30nm emission for FITC 				
	<ul style="list-style-type: none"> • fluorescence intensity 				
	<ul style="list-style-type: none"> • 700 nm IR-cutoff for luminescence 				
	<ul style="list-style-type: none"> • 50/50 general beam splitter 				
	<ul style="list-style-type: none"> • Alpha emission filter 575/110nm for alphascreen, alphalisa, alphasurefire, and alphaCETSA 				
	<ul style="list-style-type: none"> • Browser-based control software 				
	<ul style="list-style-type: none"> • Wifi router and network LAN cable for remote control 				
	<ul style="list-style-type: none"> • MyAssays Desktop Pro analysis software 				
<ul style="list-style-type: none"> • Width: Not greater than 20 cm (8 in), Depth: 50 cm (19.5 in), Height (without dispenser): 26.5 cm (10.5 in) • Weight: Not greater than 13 kg (29 lbs) without dispenser, 15 kg (33 lbs) with dispenser 					
<ul style="list-style-type: none"> • Plate Formats 1 – to 1536-wells 					
<ul style="list-style-type: none"> • Environmental Control Temperature Gas (optional) 3° C above ambient up to 65 °C (0.1 °C increments) CO2; 0% - 20% (<0.1% accuracy); 1% - 20% (<0.1% accuracy) 					
<ul style="list-style-type: none"> • Shaking Linear, orbital and double orbital modes 					
<ul style="list-style-type: none"> • Dispenser (optional) 2 injectors, 500 µl each syringe, manual rinsing and priming control 					
<ul style="list-style-type: none"> • Operating Environment 15° C - 35° C, <80 % humidity 					
<ul style="list-style-type: none"> • Power Supply: Autovolt: 110 – 230 V, 50/60 Hz 					

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Procurement of Various Laboratory Equipment for Molecular Laboratory		Qty	Unit	Brand	Model	Statement of Compliance
	<ul style="list-style-type: none"> ● Power Consumption 100 W 					
	<ul style="list-style-type: none"> ● Connection LAN, USB 					
	<ul style="list-style-type: none"> ● Remote Control Wi-Fi (modem included); LAN network 					
	<ul style="list-style-type: none"> ● Operating System Windows (Laptop/ PC); iOS (Mac); Android (tablet) 					
	<ul style="list-style-type: none"> ● Absorbance only Filter or Spectrometer for Absorbance Wavelength range 230 nm–1000 nm (1.0 nm increments) 					
	<ul style="list-style-type: none"> ● Variable bandwidth 2.0 nm, 5.0 nm, 10 nm 					
	DETECTOR:					
	<ul style="list-style-type: none"> ● Flexible measurement height 0 mm – 16 mm 					
	<ul style="list-style-type: none"> ● Wavelength range (Emission) 230 nm – 850 nm 					
	<ul style="list-style-type: none"> ● FLASH LAMP: Wavelength range (Excitation) 230 nm – 1000 nm 					
	<ul style="list-style-type: none"> ● PERFORMANCE SPECIFICATIONS: Absorbance Filter OD range 0 – 4 OD 0 – 4 OD OD accuracy <2.0% (OD 2) <2.0% (OD 2) 					
	<ul style="list-style-type: none"> ● Absorbance Spectrometer: OD range 0 – 2 OD 0 – 2 OD, OD accuracy <2.0% (OD 2) <2.0% (OD 2) 					
	<ul style="list-style-type: none"> ● Luminescence Sensitivity: 					
	<ul style="list-style-type: none"> a. (Top Reading) 50 amol* - 					
	<ul style="list-style-type: none"> b. Dynamic range 6 log 6 log 					
	<ul style="list-style-type: none"> ● Fluorescence Intensity: Sensitivity (Top Reading) 0.5 fmol 0.01 fmol Sensitivity (Bottom Reading) - 0.06 fmol 					
	<ul style="list-style-type: none"> ● Time-resolved Fluorescence Sensitivity (Top Reading) 2.25 amol 0.5 amol 					
	<ul style="list-style-type: none"> ● Fluorescence Polarization Sensitivity (Top Reading) 3mP 3 mP 					
	<ul style="list-style-type: none"> ● Inclusions: Branded laptop, 3KVA UPS, 3-in-1 printer, 96 Well microplate black and white color 					
3	Fragment Analyzer	1	Unit			
	<ul style="list-style-type: none"> ● APPLICATION Microfluidics- based platform for the analysis of DNA, RNA, proteins and cells. Deliver automated, high quality digital data within 30 minutes. The gold standard for RNA QC, 21 CFR Part 11 compliance and full compliance services Sophisticated user-friendly software with multiple functionality. 					
	<ul style="list-style-type: none"> ● Applicable for: 					
	<ul style="list-style-type: none"> ● DNA Solutions (sizing and quantitation) 					
	<ul style="list-style-type: none"> ● High sensitivity: use laser (LIF) detection to detect DNA fragments down to 5 pg 					
	<ul style="list-style-type: none"> ● RNA Solutions for RNA integrity check 					
	<ul style="list-style-type: none"> ● RNA Integrity Number (RIN), to compare quality 					
	<ul style="list-style-type: none"> ● 1ul sample consumption: use as little as 50pgof total RNA for analysis 					
	<ul style="list-style-type: none"> ● Protein detection in ng range: Fast and reproducible protein sizing and quantification • Protein detection in pg range: High sensitivity (down to 1 pg) and QA/QC applications 					
	<ul style="list-style-type: none"> ● ESSENTIAL FEATURES 					
	<ul style="list-style-type: none"> ● Faster than gels (digital data in 30 minutes for quality and quantity of up to 12 samples) 					
	<ul style="list-style-type: none"> ● Reproducible and complete digital data with the micro-fabricated chips 					

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	Procurement of Various Laboratory Equipment for Molecular Laboratory					
	<ul style="list-style-type: none"> Quantification of each individual fragment per sample offers purity results Compliance Services allow work within regulated environments (e.g. QA/QC labs) Analysis software for easy digital handling and storage of all data Option for Security Pack software providing tools for 21CFR part 11 compliance 					
	INSTRUMENT SPECIFICATION:					
	<ul style="list-style-type: none"> Weight: not greater than 10kg (22lbs) Dimension: Not greater than (H x W x D): 290x162x412 mm Line voltage: Autovolt: 100-240 VAC Line frequency: 50/60 Hz Power consumption: 60VA Ambient operating temperature: 5-40°C Safety standard IEC, EN, CSA, UL: Installation category II, Pollution degree 2, Laser class 1 					
	<ul style="list-style-type: none"> Bayonet cartridge with exchangeable electrode for regular cleaning The System comes complete with: - laptop PC, - Analysis software for running the system and data analysis, -UPS, - vortex mixer, - chip loading station, - cables and manuals, etc. with the electrophoresis electrode cartridge 					
	<ul style="list-style-type: none"> WITH START UP REAGENT- HIGH SENSITIVITY DNA KITS 					
	HARDWARE					
	<ul style="list-style-type: none"> Metal made body with epoxy coated paint. The cartridge have 16 platinum electrodes which are connected to high voltage power supplies within the instrument and forming an electrical circuit by touching the liquid in the wells. Have a chip holder with heater plate for temperature control. Have two different optics, red laser with an excitation wavelength of 635nm and emission wavelengths in the range 674 to 696nm and a high intensity blue LED that detects emissions in the range 510 to 546nm. 					
	<ul style="list-style-type: none"> The limits of detection for each assay are: 0.5 pg DNA fragments, 200 pg of Total RNA, and 500 pg of mRNA, 1 pg protein. 					
	TYPICAL APPLICATIONS:					
	1. RNA sample QC prior microarray or q PCR experiments					
	2. DNA analysis of PCR/m PCR and RT-PCR products					
	3. DNA library sample QC for Next Generation Sequencing					
	4. Protein expression analysis					
	5. Protein purity during purification					
	6. Immunoprecipitation as an alternative to Western Blot or "Reverse Western"					
	<ul style="list-style-type: none"> Analytical specifications High Sensitivity DNA Kit Sizing range 50 – 7000 bp Sizing resolution 50-600 bp: ±10% 600-7000 bp:± 20% Sizing accuracy ± 10% Sizing reproducibility 5% CV 					

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	Procurement of Various Laboratory Equipment for Molecular Laboratory				Statement of Compliance
	<ul style="list-style-type: none"> • Quantitation accuracy 1 20% • Quantitation reproducibility 1 50-2000 bp: 15% CV 2000-7000 bp: 10% CV • Quantitative range 1 5-500 pg/μL • Maximum salt concentration in sample 10 mM Tris and 1 mM EDTA • Physical specifications Analysis time 45 minutes • Samples per chip 11 • Sample volume 1 μL • Kit stability: 4 months • Kit size 10 chips, 11 samples/chip = 110 samples/kit • 1 year warranty including Calibration and Preventive Maintenance (Provide Certification) 				
4	Ultra Low Freezer (-80°C)	1	Unit		
	<ul style="list-style-type: none"> • 7" touch screen, easy & convenient observation, data storage (up to 10 yrs) • Checking history temperature curve and alarm record on screen • Pressure release valve for quick re-entries after door opening • Self-diagnostic, automatic check & alarm for key components • Optional USB port to download data • SUS304 interior and inner chambers • Powder coated steel exterior • Document groove to put paper • Vacuum insulated inner doors with latches • Door handle with locking system • Wall extension protection fitting • Heavy duty casters, lockable • Washable filter • Testing port for external monitoring • Remote alarm contacts • Capacity: at least 338L • Inner doors: 2 pcs SUS304 • Shelves: 3 pcs SUS304 (4 sections) • Cooling capacity: Direct cooling • Refrigerant: CFC-free • Noise: 50 dBa • Ambient temp range: 10 to 32 deg C • Temperature range: -40 to -86 deg C • Cooling system: Two compressor, cascade system, SECOP brand compressors • Sensor: PT100 • Controller: Microprocessor 				

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		<p><i>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>				
	Procurement of Various Laboratory Equipment for Molecular Laboratory	Qty	Unit	Brand	Model	Statement of Compliance
	<ul style="list-style-type: none"> • Display and operation: Not less than 7" touchscreen 					
	<ul style="list-style-type: none"> • Power requirements: Autovolt:220V-240V, 50/60Hz, 870W 					
	<ul style="list-style-type: none"> • Power consumption: 6.75 kW/24 hrs 					
	<ul style="list-style-type: none"> • Includes stainless steel racking shelves 					
	<ul style="list-style-type: none"> • 1 year warranty including Calibration and Preventive Maintenance <i>(Provide Certification)</i> 					
5	Laboratory Refrigerator (4°C)	1	Unit			
	<ul style="list-style-type: none"> • Accurate temperature control makes inner temperature kept at 2 to 8°C with adjustment resolution of 0.1 °C 					
	<ul style="list-style-type: none"> • High-tech integrated sensors to display and control temperature 					
	<ul style="list-style-type: none"> • Automatic defrost to remove moisture on cooling surface 					
	<ul style="list-style-type: none"> • Removable outdoor double seal design 					
	<ul style="list-style-type: none"> • Microprocessor controlled forced-air cooling system 					
	<ul style="list-style-type: none"> • Caster with break design 					
	<ul style="list-style-type: none"> • Environment friendly refrigerants: CFC-freezer and HCFC-free 					
	<ul style="list-style-type: none"> • Password protection 					
	<ul style="list-style-type: none"> • Safety lock 					
	<ul style="list-style-type: none"> • Two alarm styles: buzzer and flash 					
	<ul style="list-style-type: none"> • Start delay protection 					
	<ul style="list-style-type: none"> • Capacity: 260-315L 					
	<ul style="list-style-type: none"> • Temperature range: 2 to 8°C 					
	<ul style="list-style-type: none"> • Accuracy: 0.1°C 					
	<ul style="list-style-type: none"> • Ambient temperature: 10 to 32°C 					
	<ul style="list-style-type: none"> • Refrigeration type: Forced air refrigeration system 					
	<ul style="list-style-type: none"> • Noise: 42 dBA 					
	<ul style="list-style-type: none"> • Double layer glass door 					
	<ul style="list-style-type: none"> • Exterior material: Epoxy coating 					
	<ul style="list-style-type: none"> • Interior material: Anti-corrosion 					
	<ul style="list-style-type: none"> • Illumination: LED light 					
	<ul style="list-style-type: none"> • Alarms: High/Low temperature alarm, Sensor error alarm, Door ajar alarm, Power failure alarm, Low battery alarm 					
	<ul style="list-style-type: none"> • Shelves: 4 pcs supplied, adjustable 					
	<ul style="list-style-type: none"> • Power: 220V, 60Hz, 254W 					
	<ul style="list-style-type: none"> • Standard accessories: LED Lamp, shelves, door lock and keys, casters, feet 					
	<ul style="list-style-type: none"> • 1 year warranty including Calibration and Preventive Maintenance <i>(Provide Certification)</i> 					

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Item No.	Specification	Statement of Compliance			
		Qty	Unit	Brand	Model
	Procurement of Various Laboratory Equipment for Molecular Laboratory				Statement of Compliance
6	Biosafety Cabinet <ul style="list-style-type: none"> • EN 12469-certified Class II Biological Safety • Cabinets Units feature 60% less energy consumption and heat output • Depth (Metric) Exterior 80cm • Exhaust Air Filter HEPA H 14 EN 1822, 99.995% at 0.3µm particle • Height (Metric) Exterior 152cm • Voltage 230V • Certifications/Compliance: EN 12469, by TÜV Nord, LNE (0.9 and 1.2m), EN 12469, by TÜV Nord (1.5 and 1.8m) <i>or its equivalent</i> • Energy Consumption (Operating Set Point) 200w • Energy Consumption (Reduced Flow Mode) <40w • Noise Level <65dBA • Receptacles: One double, right side • Interior Width: 4 ft. • Exterior Width: 130cm • Includes compatible AVR • 1 year warranty including Calibration and Preventive Maintenance <i>(Provide Certification)</i> 	1	Unit		
7	Gel Documentation System <ul style="list-style-type: none"> • Includes: • 5MP camera with motor driven zoom lens f1.2. With epi white lights for sample positioning. UV032 filter. Unlimited copies of GeneTools • Transilluminator (20 x 24cm; 302nm) 230V, 60 Hz with runners • Visible light converter • Neutral field screens for UV neutral fielding (1 blue, 1 frosted). • Compact darkroom with hinged door • Motor driven optics • Can use a range of lighting: UV-visible light converter screen and UV-blue light converter screen option • Touch screen • Image enhancements and annotations • Analysis software Applications: <ul style="list-style-type: none"> • DNA, RNA and Protein gel imaging • Analysis of gels, colony plates and blots • Includes compatible AVR • 1 year warranty including Calibration and Preventive Maintenance <i>(Provide Certification)</i> 	1	Unit		

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Item No.	Specification	Statement of Compliance			
		Qty	Unit	Brand	Model
	Procurement of Various Laboratory Equipment for Molecular Laboratory				Statement of Compliance
8	<p>Thermomixer</p> <ul style="list-style-type: none"> • Small footprint of not greater than 8 x 11 in • Compatible with popular tube sizes, including 6 x 50 ml tubes <i>(optional)</i> • Speed, time, temperature are simultaneously displayed, showing actual and set values • Integral over-temperature control ensuring long life, safety, sample integrity • Precision contoured wells for uniform thermal transfer • Temperature control from 0 to 100°C • Sequence link function for linking or repeating programs • Temperature range: Ambient -20 to 100°C • Heating ramp rate: 5°C/min • Cooling ramp rate: 2.5°C/min • Temperature accuracy: +/- 1.0°C • Temp increment: 0.1°C • Speed increment: 10 rpm • Speed range: 200 to 1500 rpm, or "off" • Motion/orbit: Horizontal circular, 2 mm • Timer: 1 min to 99 hrs 59 mins, or continuous • Dimensions: Not greater than 8.25 x 11.5 x 8.25 in. 21 x 29 x 21 cm • Weight: Not greater than 18 lbs (8 kg) • Electrical: 230V; 60Hz, 500W • Included: Block for 35x1.5 ml, Block for 35x2.0 ml • 1 year warranty including Calibration and Preventive Maintenance <i>(Provide Certification)</i> 	1	Unit		
9	<p>Fluorometer with rotator</p> <ul style="list-style-type: none"> • Easy-to-Use DNA Quantitation Bundle • Measure low dsDNA, highly sensitive up to 10 pg/ul (1 ul sample input) • Store the last 50 readings and transfer data in real time • Dyes are optimized for high sensitivity, broad dynamic range and target specificity • dyes for dsDNA, ssDNA, RNA are available • Use for Next-Generation Sequencing, successfully used in several NGS systems including Illumina (HiSeq/miSeq), Roche (454) and Thermo Fisher (Ion Torrent™ and Ion Proton™) systems, and Oxford nanopore sequencer • Supplied with quantification kit for dsDNA System, an add-and-read format, making measuring low concentrations of dsDNA simple—no dilutions, no extra tubes • Significantly increased sensitivity over absorbance at 260nm (NanoDrop spectrophotometer) for those samples that are low in concentration. • High specificity to dsDNA with minimal binding to ssDNA, RNA, protein & other compounds (dsDNA systems) 	1	Unit		

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Procurement of Various Laboratory Equipment for Molecular Laboratory		Qty	Unit	Brand	Model	Statement of Compliance
	• Broad dynamic range, five orders of magnitude					
	• Simple and efficient calibration process, with calibration data being saved for future measurements					
	• Free software enables export of data to a personal computer					
	• Detectors: Solid state silicon sensor					
	• Excitation filters: Red: 640nm shortpass (wavelengths up to 640nm)					
	• Blue: 495nm shortpass (wavelengths up to 495nm)					
	• Emission filters: Red: 660-720nm					
	• Blue: 510-580nm					
	• Linear dynamic range: Five orders of magnitude, assay-dependent					
	• Automatic sleep mode: After 1 hour of inactivity					
	• Dimensions: Not greater than 22.7 x 11.5 x 4.5cm (L x W x H)					
	• Weight: Not greater than 400 g					
	• Supplied with 50 ml 0.5ml PCR Tubes,					
	Accessories: Mini Plus Rotator					
	• Speed: 5 to 70 rpm					
	• 2. Mixing modes:					
	• - "Mix" function: Rotating in combination w/ oscillations (increased mixing)					
	• - "Pause" function: Rotating with intermittent "stops" during rotation					
	• - "Rock" function: Back and forth, gentle rocking motion (see-saw)					
	• Dimensions: not greater than 10.8 x 6 x 6.5 in					
	• Weight: Not greater than 3 lbs (1.4 kg)					
	• 1 year warranty including Calibration and Preventive Maintenance (Provide Certification)					
	--- Nothing Follows ---					

Name of Bidder: _____

Submitted by: _____
(Printed Name and Signature)

Designation: _____

Date: _____