



## Invitation to submit Proposal.

**Request For Information Name: Micro lab Equipment 1**

**RFI Number: RFI/LAB/MICROLAB1/2025/03**

<b>Date of Issue</b>	24 March 2025
<b>Closing Date &amp; Time</b>	04 April 2025
<b>RFI Enquiries</b>	Portia Jonginyanga E-mail: <a href="mailto:PortiaJ@ppecb.com">PortiaJ@ppecb.com</a>  Tel: +27 21 930 1134
<b>PPECB business hours</b>	08:15 – 16:45
<b>Category</b>	Laboratory Furniture



**PPECB**

[www.ppecb.com](http://www.ppecb.com)

## 1 Invitation to Tender

Bidders are invited to submit a Request for Information (FRI) for the supply and installation of Laboratory Equipment to setup the Microbiology lab at the PPECB Laboratory in Centurion.

## 2 Scope of Service

Bidders are invited to submit their proposal for the supply and installation of Laboratory equipment. Below is the minimum specification for the required items:

Laboratory Equipment			Comply to Specification	
No.	Description	YES	NO	Reference page and Section No.
1	<p><b>HIRAYAMA HV-50 AUTOCLAVE WITH DIGITAL PRINTER x 1 or equivalent</b></p> <p>50 Liter Autoclave, Floor Standing, Vertical chamber Max Temp: 135°C Electromechanical lock system Dual Sensing Interlock Mechanism Double Sensing System for Air Evacuation Process Status Display Process Mode for Agar Programmable Auto Start Optional Accessories Available: cooling fan, digital printer, floating sensor, automatic water supply Outer Dimensions: 540 x 1040 x 530 mm / 57kg Inner Chamber dimensions: 300 mm DIAM x 710mm HIGH</p>			
				
2.	INCUBATORS			

2.1

**Low Temperature Incubator- IncoCool x 1 or equivalent**

Electronic PID temperature control with digital indication of set and process value • High accuracy pt100 temperature sensor • Solid state control relay for optimum reliability • Reliable refrigeration system with high quality compressor and components • Grade 304 stainless steel interior • Model 354 supplied with two chrome plated wire shelves, model 356 supplied with four chrome plated wire shelves • Fully adjustable shelf heights • Cooling can be switched off if working above ambient • Optional inner glass viewing door for sample inspection without affecting chamber temperature • Forced air circulation for excellent temperature uniformity High quality magnetic door seal to minimize heat loss • Automatic defrost function

Model:356 Volume:400L Electrical Connection:230V 50hz Power Rating @ 230V (W):1200 Temperature Range:0°C to 60°C Temperature variation across chamber:1°C External Dimensions (WxHxD)mm:685 x 1820 x 810 Internal Dimensions (WxHxD) mm:595 x 1305 x 495 Approx. weight (kg)100



2.2

**Incubator- IncoTherm x 1 or equivalent**

Features • Choice of five different capacities • Optional inner glass viewing door for sample inspection without affecting chamber temperature • Stainless steel 430 body construction with stainless steel 304 interior and powder coated mild steel door • Slam lock door handle Specific Features: Economy Series • General purpose • Ideal for applications where lower temperature accuracy is acceptable • Hydraulic thermostat control • Operating temperature ambient +10°C to 110°C • Recommended operating temperature from 37°C to 110°C

Specific Features: Digital Series • Ideal for applications where a higher degree of accuracy is required • Electronic PID temperature control with digital display of set and actual temperature to 0.1°C • High accuracy pt 100 temperature sensor • Solid state control relay for optimum reliability and rapid response • Operating temperature ambient +7°C to 110°C • Recommended operating temperature from 37°C to 110°C

Model:400 Economy Incubator Model code:229 Digital Incubator Model code:299 External Dimensions (W x H X D) mm:1010 x 935 x 980 Internal Dimensions (W x H X D) mm:725 x 775 x 755 No. of shelves:2 No. of shelf positions:10



3

**LAMINAR FLOW CABINETS X 1**

CAPTAIN FLOW 483 SMART WITH S/S WORKTOP  
CAPTAIN FLOW 483F BENCHCAP WITH UTILITY CHANNEL

HEPA FILTER GF4 HP, 3 YRS + PREFILTER

HEPA H14 filter to filter chemical powders. Traps particles with a diameter  $\approx 0,1\mu\text{m}$  with a 99,99% efficiency to the MPPS test. (Most Penetrating Particles Size test).

483



External size (WxHxD) mm-1298 x 750 x 1332-1518

Internal size (WxHxD) mm-1172 x 648-653 x 1039

4

**FV650 R290 FFD LABOCOOL 627L W/ CONTROLLER X 1 or equivalent**

Space-saver  
**Fridge 627 Lt**



Dimensions		
(mm)	External	Internal
width	710	625
depth	730*	644
height	2040	1508
weight	133kg Net	
Foot Print Area	0.61m <sup>2</sup>	
Gross Volume	627Lt	
Number of shelves (STD)	5	
Shelf Size	w595 x d542(mm): 0.32m <sup>2</sup>	

\*Excluding 40mm handle & 100mm spacer

5

**THERMO TSX HP FREEZER -30C, 326L x 1 or equivalent**

Model: TSX1230FV

Temp. range (setpoint): -35° to -15°C (-30°C)

Capacity cu. ft. (liters): 11.5 (326)

Doors: 1 solid

Shelves: 4



Defrost: Auto

Interior dimensions D x W x H in. (cm): 21.8 x 20.0 x 52.4  
(55.4 x 50.8 x 133.1)


Exterior dimensions D x W x H in. (cm): 31.1 x 24.0 x 73.0  
(79.0 x 61.9 x 185.4)

Shipping weight lbs. (kg): 335 (152)



6	<p><b>TROLLEY S/STEEL 2 SHELF x 2</b>  Model: 552  Fitted with stainless steel shelves  Sturdy 100mm castors  Maximum load per shelf: 50kg  Size: 970 x 560 x 900 mm (H x W x D)  Trolley with 2 shelves  Distance Between Shelves: 510 mm  Supplied in knock down form</p> 			
7	<p><b>MIELE PG8593 GLASSWARE WASHER COMP DRY AE</b>  <b>WW AD x 1 or equivalent</b>  WW - Hot water connection  AD - Connection for demineralised water  AE - Stainless Steel Casing</p>			
7.1	<p><b>DOS K 85 x 1</b>  Baskets and inserts  Basket set "Basic", includes 1x A 101,  Includes: A101 Upper Basket  A150 Lower Basket  A300/3 Injector module for Glassware 250 - 1000ml  A301/5 Injector module for Glassware 50 - 250ml  2 x AK12/1  1 x A802 Rinse nozzle for powder dispenser</p>			
7.3	<p><b>A304 MODULE x 1</b>  <b>INSTALLATION</b></p>			
7.4	<p><b>INST / COMM - W/S (FOC) x 1</b>  DETERGENTS:  PROCARE LAB 30C 5L – NEUTRALIZER  ProCare Lab 10MA-5l * LQ</p>  <p>PG 8583</p>			



	<p>Width- 600  Height, depth (mm)- 835 (820*), 600  Shortest cycle (mins)- 20  Capacity: Lab Phials- 128  Capacity: Pipettes- 98  Capacity: Mixed load consisting of lab phials &amp; pipettes- 130  Capacity: Mixed load consisting of lab glassware &amp; phials- 260  Drying- DryPlus  Conductivity monitoring- Optional  Integrated dispenser pump- 1  Powder dispensing- -  Special version for oil-based applications- Optional  Integrated feed pump for demineralised water- Optional  Drawer for supply canisters (3x5L or 2x10L)- -  Electrical connection 3N AC 400V, 50 Hz- -  Total rated load (kW)- 9.3</p>			
8	<p><b>DOSE IT PUMP x 1</b>  *Programmable peristaltic pump  *Designed to make dispensing of *culture media, buffers &amp; other *Solutions easy and efficient  *Compatible with tubing from  *1mm for small accurate dose to  *8mm for high-volume pumping  SUPPLY SCHEDULE:  Incl: Sil tubing 4mm ID, 2.5m  Dispensing tube  Aspiration tubes 10cm &amp; 35cm  Tube collar</p> 			






9

**DIGITAL MICROSCOPE, VISISCOPE® BL224PL T1 x 1**

630-3290



10	<p><b>ORION STAR A214 PH/ISE x 1 or equivalent</b>  Orion STAR A214 pH/ISE Benchtop Meter Kit:  - 8102BNUWP Orion ROSS Ultra pH electrode  - 927007MD ATC probe, stainless steel  - 096019 Orion Star stirrer probe  - 810199 ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle)  - Electrode arm with redesigned holder  - Universal power adapter</p> <div data-bbox="288 495 700 1440">  <p>The image displays the Orion STAR A214 pH/ISE Benchtop Meter Kit. At the top is the black benchtop meter with a color LCD screen showing '1.00'. Below the meter are two probes: a glass pH electrode and a stainless steel ATC probe. To the right is a separate LCD screen showing '25.2 °C', 'ISE ready', '1.00', and '0.0 mV'. At the bottom is a circular inset showing a black 'Redesigned electrode arm and holder'.</p> </div>			
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11	<p><b>CIRCULATOR AND WATER BATH x 1</b>  Model- 132A  External Dimensions (WxHxD) mm- 835x245x350  Internal Dimensions (WxHxD) mm- 705x200x305  Circulator:  Model- 103  Temperature range- Ambient, +10°C to 100°C  Accuracy- <math>\pm 0.3^{\circ}\text{C}</math>  Dimensions (WxHxD) mm- 120x325x390  Pump Capacity- 6L/min @1m from head  Electrical Connection- 230V 50hz</p> 			
12	<p><b>PRECISION YP 2000G 2D BALANCES x 1 or equivalent</b>  Capacity 2000g, Readability 0.01g  Repeatability <math>\pm 0.01\text{g}</math>, Linearity <math>\pm 0.01\text{g}</math>  Pan size 143x192mm  RS232 port  Power Supply DC 7.5V/350mA</p> 			

13	<b>MAGNETIC STIRRER/HOTPLATES x 1</b> Energy regulator control up to 420°C Speed - 60 to 2000 RPM continuously variable 304 stainless steel top 140x140 mm Dimensions (WxDxH)- 165X210X140mm			
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#### Delivery Address

Centurion Close,  
Block B, Unit 4,  
119 Gerhard Street,  
Centurion, Gauteng,  
0157

On the above table for specification requirements please indicate accordingly on column 3,4 & 5 and return the document with your proposal.

**For any enquiries please contact:**

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