

Invitation to submit Proposal.

Request For Information Name: Supply, Delivery and Maintenance of Auto Titrator

RFI Number: RFI/LAB/AUTOR/2025/02

Date of Issue	19 March 2025
Closing Date & Time	04 April 2025 @ 16h00
RFI Enquiries	Portia Jonginyanga E-mail: PortiaJ@ppecb.com Tel: +27 21 930 1134
PPECB business hours	08:15 – 16:45
Category	Laboratory Furniture



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1 Invitation to Tender

The PPECB Laboratory is to appoint a supplier that will supply, deliver, commissioning, servicing and maintenance of the Auto Titrator and sample changer, computer and instrument control software. The Bidder will enter into a three (3) years' service and maintenance contract with an option to renew for two (2) years. This is a Request for Information (RFI) as PPECB is still testing the market before advertising the tender.

2 Scope of Service

Bidders are invited to submit their proposal for the supply, delivery, commissioning, servicing and maintenance of the Auto Titrator and sample changer, computer and instrument control software for PPECB Laboratory equipment. Below is the minimum specification for the required Equipment:

Minimum Requirements of Titration System:		Comply to specification		
No.	Description	YES	NO	Reference Page and Section No.
1	General Hardware Specifications			
1.1	Supply, delivery, commissioning, servicing, and maintenance of 1 x Auto Titrator for Free Fatty Acid analysis and sample changer (18 or more positions for 100ml beakers), s and instrument control software. All the necessary accessories to perform a fully automated redox titration (light sensitive) must be included and the system must be capable of future expansion to include connectivity to balances			
1.2	The Auto titrator must be able to detect the end point and perform necessary calculations automatically			
1.3	It should be able to standardise and automatically add the standardisation factor to the calculation.			
1.4	The sample changer must host an absolute minimum of 20 samples at an absolute minimum volume of 100 ml.			
1.5	The auto titrator must be capable of reading and utilising sample information to automatically run a specific method. Such information must include sample ID, operator name, date, time, electrode ID and calibration information (full audit trail).			
1.6	The Auto Titrator must be able to analyse a sample within a timeframe of 1 – 3 minutes maximum.			
1.7	The auto sampler must perform rinsing of electrodes before commencing analysis of any sample			
1.8	Level sensors to determine titrant or waste container levels must be available as optional.			
1.9	The auto Titrator must allow Volumetric Karl Fischer analysis as optional.			
1.10	Potentiometric sensor inputs: Resolution/error limit of 0.1 mV Measurement Range of ± 2000 mV			
1.11	Must have an option for additional attachment of dosing elements up to 4 additional titration or dosing modules.			
1.12	Burette drive: Error limit of 0.2% of the burette volume			

1.13	The Auto Titrator must be able to automatically dispense the reagents as Peroxide Value method (i.e. it should be able to add to the sample the polar solvent, acetic acid, 0.5 ml of KI for exactly 60 seconds and stop reaction with water).			
1.14	The Auto Titrator should be supplied with the standard methods and supplier should provide technical expert to assist with programming of Laboratory developed methods, AOAC, ISO and AOCS methods.			
2.	Software specifications			
2.1	The instrument software must be Windows 10 compatible and must have the option for independent instrument control, data collection (meta data) and data storage in one shared, secure SQL or equivalent database of a minimum of 3 instruments and must be upgradable to allow connection of a minimum of 15 or more instruments via ethernet ports			
2.2	The initial software compatible instruments must include precision and analytical balances, UV/ VIS spectrophotometers, ISE meters, pH meters and density meters in any combination via a client/server network configuration.			
2.3	The software must be able to centrally manage, define and control user roles			
2.4	The instrument software must have an upgrade option to allow bi-directional communication with a LIMS system, but must also allow automatic transfer of data between the 15 independent compatible instruments			
2.5	The software must be able to export results to LIMS as is (i.e. not as a report)			
3.	After Sales Service			
3.1	Supplier must be able to provide an after-sales service support. This includes contact details for emergencies, and after-hours service. Spare parts for the equipment must be available for at least five (5) years after the date purchase of the equipment			
3.2	The supplier must be able to attend to service and maintenance calls in less than 24 hours from the time of logging the call			
3.3	Service contract between PPECB and the supplier, for a period of at least three years must be included with after sales support by qualified engineers.			
3.4	The supplier must aid with validation of the first test method after completion of calibration process on the instrument.			
3.5	Team Viewer application should be included to allow for off-site troubleshooting and support services			
4	Training			
4.1	The supplier is required to provide all necessary training (which includes hardware and software applications, routine maintenance recommended to be conducted by analyst/operator) for at least ten (10) people on site where			

	the Instrument will be installed. The training cost should be included in the bid as a separate line			
5.	Delivery			
5.1	The Instrument together with its components and consumables must be delivered to the below-mentioned address: 119 Gerhard Street Centurion Close Centurion 157			
5.2	Bid price must include delivery, commissioning, performance verification, training of at least ten (10) people on site and three years servicing and maintenance plan.			
6	Consumables			
6.1	Consumables should be included with the delivery of the Instrument			

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

NB: ADVISE ON THE SPECIFICATION AND IF THERE ARE LATEST MODELS OF THE EQUIPMENT

For any enquiries please contact:

Portia Jonginyanga @

PortiaJ@ppecb.com

021 930-1134

For Technical Enquiries Contact:

Thabang Ramogodi

ThabangR@ppecb.com