REQUEST FOR INFORMATION

RFI NUMBER:	JW RFI 29/05/2026
DESCRIPTION:	**SUPPLY, INSTALLATION, COMMISSION AND MAINTENANCE OF ROBOTIC SPECTROPHOTOMETER FOR CHEMICAL OXYGEN DEMAND (COD) ANALYSIS FOR A PERIOD OF 36 MONTH**
ISSUE DATE	29 May 2026
CLOSING DATE	05 June 2026 @ 12:00pm

ENQUIRIES MAY BE DIRECTED TO:			
Bidding procedure enquiries must be sent to		**Technical enquiries must be directed to**	
CONTACT PERSON	Maria Chirrindze	**CONTACT PERSON**	**Kgopolo Kgomo**
TELEPHONE NUMBER	011 688 6610	**TELEPHONE NUMBER**	**011 483 4414**
E-MAIL ADDRESS (Submissions must be made to this address)	maria.chirrindze@jwater.co.za	**E-MAIL ADDRESS**	kgopolo.kgomo @jwater.co.za

SUPPLIER INFORMATION	
NAME OF BIDDER	
STREET ADDRESS	
CELLPHONE/ TEL NUMBER	
E-MAIL ADDRESS	
VAT REGISTRATION NUMBER	
CENTRAL SUPPLIER DATABASE No:	**MAAA**
MANUFACUTER OR THIRD PARTY	
SUBMITTED A BROCHURE CONTAINING INFORMATION ABOUT THE INSTRUMENT . (YES/NO)	

1. PURPOSE OF THE REQUEST FOR INFORMATION

The RFI response proposals is enquired to assist the organisation with business decision making purposes for an upcoming thirty-six (36) months Request for Tender with regards to budget, cost effectiveness, risk assessment, , award and allocation strategy to incorporate, firm or non-firm prices, pricing schedule and special conditions of tender**.**

This RFI does not constitute; an offer; or any impression none so ever to do business with Johannesburg Water.

2. BACKGROUND

Johannesburg Water invites service providers to respond to a Request for Information for the **SUPPLY, INSTALLATION, COMMISSION AND MAINTENANCE OF ROBOTIC SPECTROPHOTOMETER FOR CHEMICAL OXYGEN DEMAND (COD) ANALYSIS FOR A PERIOD OF 36 MONTH**

3. SCOPE OF WORK AND SPECIFICATIONS REQUIREMENT

3.1. REQUIREMENTS

Johannesburg Water is mandated to conduct both operational and compliance water quality analysis across multiple programmes. These include monitoring of dams and streams under the City of Johannesburg (COJ) water quality programme, analysis of low- to high-range industrial effluent samples for compliance with the Water Services By-laws, routine eight-day wastewater analyses required for wastewater treatment plant licensing, and ad-hoc investigative sampling to support operational and regulatory requirements.

Chemical Oxygen Demand (COD) is a critical analytical parameter used to quantify the level of organic pollutants in water, wastewater, and industrial effluent. Elevated COD concentrations are indicative of increased pollution loads and are therefore essential for assessing environmental impact, regulatory compliance, and treatment efficiency.

In order to improve analytical efficiency, accuracy, and laboratory safety, there is a requirement to procure a spectrophotometric analyser system coupled with an automated autosampler (robotic system) for COD determination. The proposed system will support high-throughput analysis, reduce manual handling of hazardous reagents, and enhance consistency and repeatability of results.

The system will be implemented, validated, and subsequently accredited in accordance with ISO/IEC 17025 requirements, ensuring that all results generated meet internationally recognised standards for testing and calibration laboratories.

The analyser system (Robotic Spectrophotometer) shall be capable of performing Chemical Oxygen Demand (COD) analysis using recognised standardised methods, such as the dichromate method or an equivalent. It must support automated sample handling, including pipetting, dilution, and accommodate a minimum batch size of 40–48 samples. The system should achieve a throughput of approximately ±96 samples within an 8-hour operational period or equivalent. In

addition, it shall incorporate fully automated analytical processes, including mixing, digestion at approximately 150°C, cooling, and measurement. The system must also be designed to minimise cross-contamination through the implementation of automated rinsing and cleaning cycles between samples. The analyser must be supplied as a complete, fully functional system, inclusive of all necessary components and accessories required for operation, including but not limited to the analyser unit (Robotic spectrophotometer), instrument controller (Computer), control software, printer, start-up chemicals for a period of 6 months (vials), compressor and any other consumables or ancillary equipment required for routine analysis.

Suppliers shall provide a fully automated laboratory analyser system for the determination of Chemical Oxygen Demand (COD), inclusive of all consumables and vials required to perform instrument internal verification and validation. The vials provided must be sufficient to conduct COD concentration range, namely ultra-high (5000-60000mg/l) 900 tests, high range (250 – 15000mg/l) 1800 tests, medium range (20 -1500mg/l) 2700 tests , and low range(3-150mg/l) 900 tests, and must include all necessary calibration standards, which shall be NIST traceable or equivalent. All consumables shall be supplied in accordance with the manufacturers and supplier's recommendations and must be fully compatible with the proposed analyser system. These vials must be supplied every 6 months with maintenance schedule.

4. PRICE SCHEDULE

N0.	DESCRIPTION	Unit of measure	ESTIMATED QUANTITY	Unit Price	Total Price EXCL VAT	Total Price INCL VAT
1	Complete Robotic spectrophotometer for chemical oxygen demand (COD) analysis handling systems with minimum 48 sample position,	Number	2			
2	Bi-annual supply and deliver vials for the period of 36 months: Ultra-high (~5000-60000mg/l) 900 tests, High range (~250 – 15000mg/l) 1800 tests, Medium range (~20 - 1500mg/l) 2700 tests, Low range(~3-150mg/l) 900 tests, include all necessary calibration standards, which shall be NIST traceable or equivalent.	Number	1			
3	Bi-Annual maintenance for 36 months by factory trained personnel	Number	12			

4	Repairs as and when required (Rate) for 36 months by factory trained personnel	Hour	6			
5	Training of personnel	Number	8			