

## REQUEST FOR INFORMATION

<b>RFI NUMBER:</b>	JW RFI 22/04/2024	<b>CLOSING DATE:</b>	29 April 2024 @4h00
<b>DESCRIPTION:</b>	ONCE-OFF SUPPLY, INSTALLATION, COMMISSIONING, AND PROVIDING TRAINING FOR LUMINESCENT BACTERIA TOXICITY TEST EQUIPMENT ON A ONCE-OFF BASIS AT CYDNA LABORATORIES, HOUGHTON.		
<b>ISSUE DATE</b>	22/04/2024		
<b>Submit via Email to:</b>	<a href="mailto:sinna.hlongwane@jwater.co.za">sinna.hlongwane@jwater.co.za</a>		

### ENQUIRIES MAY BE DIRECTED TO:

Bidding procedure enquiries <u>must</u> be sent to		Technical enquiries must be directed to	
<b>CONTACT PERSON</b>	Sinna	<b>CONTACT PERSON</b>	Nondalo Shandu
<b>TELEPHONE NUMBER</b>	Hlongwane	<b>TELEPHONE NUMBER</b>	011 483 9500
<b>E-MAIL ADDRESS</b> (Submissions must be made to this address)	<a href="mailto:sinna.hlongwane@jwater.co.za">sinna.hlongwane@jwater.co.za</a>	<b>E-MAIL ADDRESS</b>	<a href="mailto:nondalo.shandu@jwater.co.za">nondalo.shandu@jwater.co.za</a>

### SUPPLIER INFORMATION

<b>NAME OF BIDDER</b>			
<b>STREET ADDRESS</b>			
<b>TELEPHONE NUMBER</b>	<b>CODE</b>		<b>NUMBER</b>
<b>CELLPHONE NUMBER</b>			
<b>E-MAIL ADDRESS</b>			
<b>VAT REGISTRATION NUMBER</b>			
<b>CENTRAL SUPPLIER DATABASE No:</b>	MAAA		
<b>MANUFACUTER OR THIRD PARTY</b>			

## **1. PURPOSE OF THE REQUEST FOR INFORMATION**

To assist the organization with business decision-making purposes for a once-off Request for Tender with regards to budget, cost-effectiveness, risk assessment, specific goals to include in the tender, award, and allocation strategy to incorporate, non-firm prices, pricing schedule, and special conditions of the tender.

## **2. BACKGROUND**

Johannesburg Water invites service providers to respond to a Request for Information for the once-off supply, installation, commissioning, and providing training for and providing training for luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton. This RFI is strictly to solicit market-related information from potential bidder(s) for the once-off supply, installation, commissioning, and providing training for and providing training for luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton. This RFI does not constitute; an offer; or any impression none so ever to do business with Johannesburg Water.

## **3. SCOPE OF WORK AND SPECIFICATIONS**

### **REQUIREMENT**

Johannesburg Water seeks responses from interested parties for the once-off supply, installation, commissioning, and providing training for and providing training for luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton.

### **GENERAL DESCRIPTION**

Procuring the Aliivibrio fischeri luminescent bacteria toxicity test luminometer for testing in dams and streams is rooted in the critical importance of ensuring the health and safety of aquatic ecosystems and the communities that rely on them. The instrument will provide an early Warning System for detecting the presence of toxic substances in dams and streams. Its rapid response capability enables timely detection of pollutants, allowing for immediate intervention to prevent harm to aquatic life and human health. It also provides comprehensive Toxicity Screening to toxicity testing by assessing the overall impact of contaminants on living organisms. Measuring the bioluminescence response of Aliivibrio fischeri bacteria to toxic substances, it offers insights into the general health and integrity of aquatic environments. Lastly, it provides environmental Monitoring toxicity testing in dams and streams or surface water and supports proactive environmental monitoring efforts. Regular testing can help identify sources of contamination, track changes in water quality over time, and assess the effectiveness of pollution control measures.

## LOCATION OF SITES

The site is located within a radius of 40 km of the center of Johannesburg, and it is as follows:

- Cydna Laboratories

Cydna laboratories are situated at No. 75 4th St, Houghton Extend, Johannesburg, 2192.

## SPECIFICATION & SCOPE OF WORK

Once-off supply, installation, commissioning, and providing training for and providing training for luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton.: The work consists of the following:

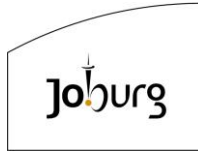
- **Supply of luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton.**
- **Delivery of luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton.**
- **Installation of luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton.**
- **Commissioning of luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton.**
- **Training of luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton.**



Table 1: Breakdown of equipment to be serviced and repaired, equipment summary:

## 1. SPECIFICATION

ITEM	SPECIFICATIONS REQUIRED	COMPLIED YES/NO
1	Detection Sensitivity: The luminometer must have high sensitivity to detect bioluminescence emitted by <i>Aliivibrio fischeri</i> bacteria in response to toxic substances.	
2	Detection Range: It should have a wide dynamic range to accurately measure bioluminescence intensity over a range of concentrations of toxic substances.	
3	Measurement Speed: Rapid measurement capabilities to provide quick results, enabling efficient toxicity testing.	
4	Sample Capacity: Sufficient sample capacity to accommodate multiple samples simultaneously, allowing for high-throughput testing.	
5	Temperature Control: Built-in temperature control features to maintain optimal conditions for bacterial growth and bioluminescence production.	
6	Data Handling: User-friendly interface for data input, analysis, and interpretation. The luminometer should be equipped with software for data storage, analysis, and reporting.	
7	Calibration: Capability for easy calibration to ensure accuracy and reproducibility of results.	
8	Portability: This must be benchtop equipment with advanced touchscreen operation.	
9	Power Source: Compatibility with standard power sources.	
10	Durability: Robust construction and materials to withstand frequent use and harsh environmental conditions.	



11	Maintenance Requirements: Minimal maintenance requirements to ensure reliable and consistent performance over time.	
12	Compliance: Compliance with relevant regulatory standards and guidelines for environmental toxicity testing.	
13	Detection Sensitivity: The luminometer should have high sensitivity to detect bioluminescence emitted by Aliivibrio fischeri bacteria in response to toxic substances.	
14	The PC must have the following minimum features: Intel Core i7 CPU 4- Core 3.50GHz, 8GB DDR4-2133 4C RAM, 1 TB HDD, NVIDIA Quadro K60 (2GB) Graphics Card, DVD Writer, Windows 10 64-bit MS Office, 24" LED Monitor with 2 USB ports, Mouse, keypad, PCI Express Slots-2Nos., USB ports.	
15	Support and Training: Access to technical support and training resources to assist users in operating the luminometer effectively and troubleshooting any issues that may arise. (08 Employees)	
16	Installation and commissioning	



Table 2: Breakdown of reagents and consumables:

## 1. SPECIFICATION

ITEM	SPECIFICATIONS REQUIRED	COMPLIED YES/NO
1	Aliivibrio Fischeri Bacteria: Bioluminescent bacteria culture for use as the test organism in toxicity testing.	
2	Toxic Substances: Standard solutions or reference materials of toxic substances for preparing test samples with known concentrations.	
3	Growth Medium: Nutrient-rich growth medium for culturing Aliivibrio Fischeri bacteria and promoting bioluminescence production.	
4	Buffer Solutions: pH-buffered solutions for maintaining optimal conditions for bacterial growth and bioluminescence.	
5	Control Samples: Positive and negative control samples for validating test results and ensuring assay reliability.	
6	Calibration Standards: Standard solutions of known concentrations for calibrating the luminometer and establishing a calibration curve.	
7	Microplates or Test Tubes: Suitable containers for holding samples and conducting the toxicity assay.	
8	Luminometer Plates: Plates or cuvettes compatible with the luminometer for measuring bioluminescence intensity.	
9	Quality Control Reagents: Reagents for performing quality control checks, such as verification of bacterial viability and assay performance.	

**QUALITY ASSURANCE**

All materials and components used in the installation and commissioning of luminescent bacteria toxicity test equipment shall comply with the requirements of the original equipment manufacturer (OEM) specifications and shall be of the best quality suitable for the purpose for which they are intended.

**REPORTING**

Test certificates for the software program, along with all necessary paperwork to confirm the equipment's operational status, must be submitted to the facilities administrator at Cydna Laboratories within three weeks of the work's completion.

**GUARANTEE PERIOD**

All consumables, software, and parts commissioned and installed on equipment undertaken must have a guarantee.

**PAYMENT**

Payment will be made, upon presentation of an invoice, according to the work being fulfilled by the supplier, which is to supply, install, commission, and providing training for and provide training for luminescent bacteria toxicity test equipment on a once-off basis at Cydna laboratories, Houghton.

**STATUTORY, REGULATORY AND OHSA REQUIREMENTS**

The Service provider shall at all times during the contract, comply in all respects with the safety and other requirements of the Occupational Health and Safety Act 85 of 1993 and the regulations applicable hereunder.

#### 4. PRICE SCHEDULE

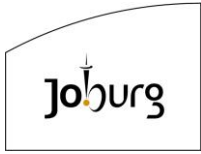
ITEM DESCRIPTION	UNIT PRICE (Excl VAT) R	VAT @15% R	TOTAL PRICE (INCL VAT) R
Luminescent bacteria toxicity test equipment			
Reagents and consumables			
PC workstation for imaging system			
Installation and commissioning			
One day Training of 8 employees			
<b>TOTAL COSTS (INCL VAT) R</b>			



Prices Firm / Non-Firm?

Suppliers to complete the below according to their company details.

INFORMATION FOR SPECIFIC GOALS ANALYSIS	
<b>BUSINESS OWNED BY 51% OR MORE -BLACK PEOPLE</b>	
1. Percentage (%) of Black Ownership)	
2. Is Black Ownership 51% or more? (Yes or No)	
<b>BUSINESS OWNED BY 51% OR MORE – BLACK YOUTH</b>	
1. Percentage (%) of Ownership by Black Youth	
2. Is the percentage of Black Youth Ownership 51 % or more? (Yes or No)	
<b>BUSINESS OWNED BY 51% OR MORE-WOMEN</b>	
1. Percentage (%) of Ownership by People who are Women	
2. Is the percentage of People who are Women 51 % or more? (Yes or No)	
<b>BUSINESSES LOCATED WITHIN THE BOUNDARIES OF A REGION IN COJ, COJ MUNICIPALITY OR IN GAUTENG PROVINCE</b>	
1. Is your business located in the Gauteng Province? (Yes or No)	
2. Is your business located in the COJ Municipality? (Yes or No)	
3. Is your business located within the region of the COJ? (Yes or No)	
<b>BUSINESS OWNED BY 51% OR MORE - BLACK PEOPLE WHO ARE MILITARY VETERANS</b>	
1. Percentage (%) of Ownership by Black People Who Are Military Veterans	
2. Is the percentage of Ownership by Black People Who Are Military Veterans 51% or more? (Yes or No)	
<b>BUSINESS OWNED BY 51% OR MORE-BLACK PEOPLE WITH DISABILITIES</b>	
1. Percentage (%) of Ownership by Black People With Disabilities	
2. Is the percentage of Ownership by Black People with Disabilities 51% or more? (Yes or No)	
<b>SMME (AN EME OR QSE) OWNED BY 51% OR MORE - BLACK PEOPLE</b>	
1. What is the Enterprise Type? EME – turnover is less than R10m QSE – Turnover between R10m and R50m Generic – Turnover is R50M of more	
<b>JOINT VENTURE (JV), CONSORTIUM OR EQUIVALENT</b>	
1. What is the percentage (%) of ownership for each party?	
<b>SUBCONTRACTING WITH COMPANIES AT LEAST 51% OWNED BY HISTORICALLY DISADVANTAGED INDIVIDUAL (HDI) GROUPS MENTIONED ABOVE</b>	



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| <p>1. What is the percentage (%) that will be sub-contracted to companies that are at least 51% owned by Historically Disadvantaged Individual (HDI) groups mentioned above?</p> |  |
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