REQUEST FOR INFORMATION

RFI NUMBER:	JW RFI 19/04/2024	**CLOSING DATE:**	26 April 2024
DESCRIPTION:	**ONCE-OFF SUPPLY, INSTALLATION, COMMISSIONING, AND PROVIDING TRAINING FOR MICROSCOPE WITH PHASE CONTRAST, FLUORESCENCE, AND IMAGING SYSTEM ON A ONCE-OFF BASIS AT CYDNA LABORATORIES, HOUGHTON.**		
ISSUE DATE	19 April 2024		
Submit via Email to:	sinna.hlongwane@jwater.co.za		

ENQUIRIES MAY BE DIRECTED TO:			
Bidding procedure enquiries must be sent to		**Technical enquiries must be directed to**	
CONTACT PERSON	Sinna Hlongwane	**CONTACT PERSON**	Nondalo Shandu
TELEPHONE NUMBER	011 688 1410	**TELEPHONE NUMBER**	011 688 4446
E-MAIL ADDRESS (Submissions must be made to this address)	sinna.hlongwane@jwater.co.za	**E-MAIL ADDRESS**	nondalo.shandu@jwater.co.za

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

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 supply, installation, commissioning and provide training for microscope with phase contrast, fluorescence, and imaging systems on a once-off basis at Cydna Laboratories, Houghton. This RFI is strictly to solicit market-related information from potential bidder(s) for the supply, installation, commissioning and provide training for microscope with phase contrast, fluorescence, and imaging systems 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 supply, installation, commissioning, and provide training of microscope with phase contrast, fluorescence, and imaging systems on a once-off basis.

GENERAL DESCRIPTION

Currently, the Microbiology Laboratory is operating with one microscope that has been in use for over fifteen years. This aging instrument is experiencing declining sensitivity for analyte detection and quantification. Consequently, it poses challenges for the laboratory to expand its operational scope effectively.

Primarily the microscope will be used for sludge sample analysis, helminth ova detection and enumeration methods, and verification of reference cultures used in all laboratory methods. In pursuit of enhancing the laboratory capabilities, the laboratory intends to acquire a state-of-the-art high-contrast phase imaging microscopy system. This advanced instrument will facilitate detailed observation of cell interiors and live bacteria, offering flexibility with both brightfield and darkfield imaging methods. Additionally, it will enable concurrent observation through the reflected light fluorescence function. This in turn will allow for observations of live or dead cells.

By investing in such cutting-edge equipment, the laboratory anticipates not only enhancing its analytical capabilities but also extending the scope of its accreditation, thereby ensuring its continued relevance and effectiveness in the field of microbiology.

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 of supply, installation, commissioning and provide training for microscope with phase contrast, fluorescence, and imaging systems on a once-off basis at Cydna Laboratories, Houghton: The work consists of the following:

- **Supply of supply, installation, commissioning and provide training for microscope with phase contrast, fluorescence, and imaging systems on a once-off basis at Cydna Laboratories, Houghton.**
- **Delivery of supply, installation, commissioning and provide training for microscope with phase contrast, fluorescence, and imaging systems on a once-off basis at Cydna Laboratories, Houghton.**
- **Installation of supply, installation, commissioning and provide training for microscope with phase contrast, fluorescence, and imaging systems on a once-off basis at Cydna Laboratories, Houghton.**
- **Commissioning of supply, installation, commissioning and provide training for microscope with phase contrast, fluorescence, and imaging systems on a once-off basis at Cydna Laboratories, Houghton.**
- **Training of microscope with phase contrast, fluorescence, and imaging systems on a once-off basis at Cydna Laboratories, Houghton**

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

1. AUTOSAMPLER SPECIFICATION

ITEM	SPECIFICATIONS REQUIRED	COMPLIED YES/NO
1	The upright microscope for materials characterization shall have both manual and motorized and electronically controlled movement of parts such as objectives, turret, and stage.	
2	Trinocular viewing tube with variable light path for visual examination and camera (i.e. 100% vis/0% camera, and 50% Vis/50% camera)	
3	Movable stage with micrometer	
4	Z-focus in steps of 0.05 to 5.0 micro meter level	
5	Pair of PLAN 10X eyepieces with field of view 22/25 mm	
6	PLAN objectives-5X, 10X, 20X, 50X and 100X infinity corrected optics suitable for all major reflected light contrast methods; objectives should have a minimum of 22 mm or better field of view. Cover objective revolving nosepiece	
7	Reflectors for bright field (BF) and dark field (DF) applications	
8	Graticule and stage micrometer for incident light-as per ASTM standard	
9	Stage: Mechanical stage with ceramic coated plate; rotatable stage with minimum 100 ^{0}; travel range of minimum75 mm X 50 mm, right hand handling	
10	Focus repositioning -Mechanical stage with ceramic coated plate.	
11	Coded objective turret	
12	Coded differential interference contrast (DIC) prism turret forholding the prisms	

13	ICR turret polarizer-analyser	
14	Electronically parfocality, automatic adjustment of stage/objective prior to objective change; Software should have automatic recognition of objectives and contrast methods when changed	
15	Interfaces with control unit and PC/CAMERA (Interface between microscope to PC: RS232 and camera to PC: USB 3)	
16	High resolution display/touch screen for status information and operation	
17	LED lamp illumination of sufficient power for all contrasting methods such as bright field, dark field, polarization and interference. Microscope software shall be equipped with automatic intensity, contrast adjustments for different imaging modes. Necessary peripherals like cables, controls, connectors should be supplied.	
18	Suitable Power cords/cables and connecting cables for all the connections including monitor, PC, microscope, camera and associated systems of the microscope shall be provided	
19	Power supply: 230-250V/50Hz. Necessary power cables shall be provided	
20	Suitable dust cover shall be provided.	
21	**Software and Licenses** **a)** Image capture and image analysis Software **b)** Licensed software of recording and image analysis **c)** Camera software	
22	**Microscope operation, data acquisition and analysis software and output** *(a) Camera* Microscope dedicated high speed digital colour camera with high resolution (minimum of 2048 X1536 pixel) viewing of live image on the Computer screen and recording high resolution images (tiff, jpeg, bmp and png formats) with C-mount	

	video adopter of 0.5 or 0.67X (1/2″ or 2/3″) using the software shall be provided. The required adapters, PCI cards for compatible interfacing shall be provided by the supplier. *(b) Image* capture and image analysis software. The software shall have basic quantitative measurement facilities for microstructural features to estimate (a) grain size and shape, (b) particle size (c) volume fraction of different phases in a multi-phase system and (d) other linear measurement options. The measurements using the software should comply with ASTM and/or ISO standards. Software shall have option for storing the location of the stage co-ordinates for future recall. The necessary maintenance and operating manuals shall be provided. Software should have the option for placing micron marker at user defined location in the captured/live image. *(c) Computer* The equipment must be interfaced with a branded personal computer (PC) of latest configuration and must contain necessary memory to store the live image/data without compromising the speed of the computer. The software should have export facility to save the micrographs in jpeg and tiff format. The make/model of the PC should be mentioned in the quotation. 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 with2 USB ports, Mouse, keypad, PCI Express Slots-2Nos., USB ports.	
23	Fluorescence illuminator High-performance filters provide efficient and bright fluorescence images that is compactible with the supplied microscope	

QUALITY ASSURANCE

All materials and components used in the installation and commissioning of microscope with phase contrast, fluorescence, and imaging systems 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 provide training for microscope with phase contrast, fluorescence, and imaging systems 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

4.1 Auto-samplers

ITEM DESCRIPTION	UNIT PRICE (Excl VAT) R	VAT@15% R	TOTAL PRICE (INCL VAT) R
Phase Contrast Microscope			
Fluorescence illuminator System			
Imaging System suitable for Phase contrast and Fluorescence			
PC workstation for imaging system			
Installation and commissioning			
One day Training of 8 employees			
TOTAL COSTS (INCL VAT) R			

Prices Firm / Non-Firm?

Suppliers to complete the below according to their company details.

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

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?	