



City of Johannesburg

Johannesburg Water SOC Ltd

Turbine Hall
65 Ntshemi Piliso Street
Newtown
Johannesburg

Johannesburg Water
PO Box 61542
Marshalltown
2107

Tel +27(0) 11 688 1400
Fax +27(0) 11 688 1528

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**REQUEST FOR PRICING
(GOODS AND SERVICES)**

Form No: JW SCM Dev
MBD1

Revision No: 02

Effective Date: February
2023

RFP NUMBER:	JW RFP 03/2024	CLOSING DATE:	02 December 2024	CLOSING TIME:	14:00
DESCRIPTION:	Bulk Wastewater Condition Monitoring on an as and when required basis for a period of nine (9) months				
BRIEFING SESSION DATE AND TIME	Tuesday 26 November 2024 at 12:00	Is the meeting compulsory?	YES		
BRIEFING SESSION VENUE	Northern Wastewater Treatment Works School Road Diepsloot				
ISSUE DATE	20 November 2024				

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:			
Bidding procedure enquiries <u>must</u> be sent to the below Official		Technical enquiries must be directed to	
CONTACT PERSON	Tshilidzi Takalani	CONTACT PERSON	Thabiso Thabeng
TELEPHONE NUMBER	011 688 1772	TELEPHONE NUMBER	011 510 2602
E-MAIL ADDRESS	tshilidzi.takalani@jwater.co.za	E-MAIL ADDRESS	thabiso.thabeng@jwater.co.za

SUPPLIER

Directors:

Mr Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),
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INFORMATION				
NAME OF BIDDER				
POSTAL ADDRESS				
STREET ADDRESS				
TELEPHONE NUMBER	CODE		NUMBER	
CELLPHONE NUMBER				
E-MAIL ADDRESS				
VAT REGISTRATION NUMBER			CIDB GRADING	N/A
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE VERIFICATION CERTIFICATE	[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE SWORN AFFIDAVIT (EMEs OR QSEs)	[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No

BID SUBMISSION:
<p>BID DOCUMENTS MUST BE DEPOSITED IN THE TENDER BOX SITUATED AT GROUND FLOOR IN JOHANNESBURG WATER</p> <p>ADDRESS: TURBINE HALL, 65 NTEMI PILISO STREET, NEWTOWN, JOHANNESBURG, 2001</p> <p>PLEASE ALLOW SUFFICIENT TIME TO ACCESS THE JOHANNESBURG WATER OFFICE IN TURBINE HALL AND DEPOSIT YOUR TENDER DOCUMENT IN THE JOHANNESBURG WATER TENDER BOX SITUATED AT RECEPTION BEFORE THE TENDER CLOSING DATE AND TIME.</p> <ul style="list-style-type: none"> TIMES: THE BUILDING WILL OPEN 7 DAYS A WEEK FROM 06:00AM UNTIL 18:00PM Late bids will not be accepted for consideration. All pricing/quotation must be submitted by completing the attached or on the official company letterhead, signed and accompanied by the returnable documents stated below. <p><input type="checkbox"/> No bids will be considered from persons in the service of the state, companies with directors who are persons in the service of the state, or close corporations with member's persons in the service of the state.</p>

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1. SCOPE OF WORK

1.1. DESCRIPTION

The main objective of the contract is to perform condition monitoring of the Bulk Wastewater equipment on an as-and-when-required basis for a period of nine (9) months in line with industry best practices.

2. TECHNICAL SPECIFICATIONS

2.1. OVERVIEW

Johannesburg Water (JW) as a Water Services Provider operates six wastewater treatment works. JW wishes to procure the services of the reputable and experienced service provider(s) to perform condition monitoring of the different equipment at wastewater treatment works for nine (9) months, as and when required. The work shall be requested on JW's discretion and the contractor(s) shall be requested to supply a quotation by JW beforehand and the contractor shall only commence with the site work or make delivery once they have received an official purchase order from JW, except in emergency situations whereby specified conditions shall apply.

2.2. SCOPE

Conditional tests for electromechanical equipment are essential for ensuring reliability and performance. These tests help identify potential issues before they lead to failures, thereby minimizing downtime and maintenance costs. The scope related to condition monitoring at these Wastewater Treatment Works will include but not limited the following equipment:

- a) Industrial gearboxes
- b) Pumps
- c) Boilers

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- d) Air compressors
- e) Air blowers
- f) Electric motors
- g) Other rotating equipment
- h) Low voltage electrical panels
 - i. Motor control centres
 - ii. Distribution boards
 - iii. Local control stations
 - iv. PLC panels
 - v. PFC panels

The scope of work (services required) includes the following three categories:

Category 1

- a) Vibration analysis of equipment.
- b) Sound analysis of equipment (Ultrasound Analysis).
- c) Infrared thermography and temperature analysis of equipment other than the electrical panels and switches.
- d) Rotating equipment oil sampling & analysis.
- e) Load testing for gearboxes.
- f) Motor circuit analysis for motor's electrical condition.
- g) Insulation resistance test.
- h) Polarization test (PI Test)

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- i) Dynamic test
- j) Pump Performance tests
- k) Leakage tests
- l) Fluid analysis.

Category 2

- a) Infrared thermography and temperature analysis of low voltage electrical panels.

Category 3

Laser alignment of rotating equipment

The Scope of Work includes the following sites:

Works/Site:	Physical Address:
1. Driefontein Works	Portion 55 of Farm (Clinic Road, Muldersdrift) Driefontein 1791Q
2. Northen Works	William Nicol Ext, Diepsloot (R511 ± 8km north of Fourways)
3. Goudkoppies Works	Cnr East Street & Gibbs Road, Devland
4. Ennerdale Works	Portion 48 of Farm Elandsfontein 30810
5. Bushkoppie Works	Cnr Golden Highway R553 and Stockwell Avenue Eldorado Estates
6. Olifantsvlei Works	Cavendish Street Ext Olifantsvlei 316-IQ Portion RE/2/316 (Adjacent to Nancefield Industrial Sites)

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The tenderer is requested to indicate which category(ies) of service(s) from the above-mentioned three categories they are tendering for, in that the skills, qualifications and experience required for different categories of services are different. The tenderer may tender for more than one category.

The tenderer is strongly advised to visit the different JW sites to be familiar with different equipment before submitting their tender.

3. CATEGORY ONE – CONDITION MONITORING OF ROTATING EQUIPMENT

3.1 VIBRATION ANALYSIS OF EQUIPMENT

General

- a. Vibration analysis measures how much an item as a whole vibrates and using spectrum analysis techniques to home in on the frequency of vibration of each individual component in order to see whether anything is changing in the condition of the machine and its different components.
- b. Vibration analysis must be carried out under normal operating conditions of the equipment.
- c. Where necessary and possible, measurements must be done during all stages of operation of the equipment i.e. during starting, running and stopping phases.
- d. For each piece of equipment, vibration analysis will preferably be done at the same time as oil analysis, IR scanning and sound analysis, where possible.

Site Works

- a. Only Technicians who are competent in the type and class of machinery to be analyzed will be allowed on site to perform vibration measurements. In addition to any competencies the technicians have, site-specific and project-specific inductions may be given to the technicians and their assistants.
- b. Technician's minimum qualification and experience required are:

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- Trade Test as Fitter, Fitter and Turner, Electrician, or Millwright and Vibration Analysis CAT II Training Certificate; OR
 - N.Dip/BTech/BEngTech/BscHon/BEng in Electrical, Mechanical, Electromechanical or Mechantronics and Vibration Analysis CAT II Certificate; AND
 - minimum experience of three (3) years in vibration measurements of industrial machinery for condition monitoring purposes.
- c. No site work shall commence without first following JW site-specific Permit-to-Work and Lockout Procedures.
- d. The Technician's only task shall be to take vibration measurements of the select equipment in order to detect any anomalies. The primary tool needed for successfully carrying out this task is the vibration meter.
- e. The Technician shall not carry any tools which are capable of opening or working on machinery other than for the purposes of taking vibration measurements.
- f. All vibration measurements of equipment shall be electronically recorded for off-site analysis.
- g. On each piece of equipment, at least the following data must be collected:
- Velocity, in order to assess the overall mechanical condition of the machine and pick up problems such as unbalance, misalignment, mechanical looseness.
 - Acceleration and Enveloped Acceleration, in order to assess the condition of the rolling element bearings and gears (if any) in the application.
- h. The measurements will be collected in the following directions on every bearing:
- Horizontal
 - Vertical
 - Axial

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Report

- a. After the vibration measurements and analysis are completed and any potential faults have been identified, a report shall be produced.
- b. The report shall be produced by a person (analyst) who is a Technician with requisite qualifications and experience to form an opinion and offer advice and/or recommendations regarding recorded and analyzed vibration levels and patterns. The minimum requisite qualifications and experience are:
 - Trade Test Certificate as Fitter, Fitter and Turner, Electrician, or Millwright and Vibration Analysis CAT II Training Certificate; OR
 - N.Dip/BTech/BEngTech/BscHon/BEng in Electrical, Mechanical, Electromechanical or Mechatronics and Vibration Analysis CAT II Certificate; AND
 - minimum requisite experience of three (3) years in the measurements and analysis of vibrations of industrial machinery for condition monitoring purposes.
- c. The whole report shall be in full colour and must be submitted in both electronic and hard copy formats.
- d. The report shall show colour graphs of measured vibrations and spectrum analysis of all the equipment which have been studied.
- e. A trend for each piece of equipment shall be developed graphically and reported on each time a report is produced.
- f. The report shall have legends, keys, guides as may be necessary for reading and interpreting the graphs and other information.
- g. Each piece of equipment in the report shall be identified clearly using site identification names or numbers. Where relevant, plant unit number or name shall also be clear.
- h. The report shall make expert comments regarding identified problems and possible solutions or rectifications (interventions) required or recommended.
- i. In the report, the identified problems shall also be assigned priority levels so as to guide JW with respect to the level of attention required.
- j. Each report shall be accompanied by copies of the calibration certificates of the instrument(s) used and qualifications of the compiler (analyst).

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- k. All reports shall be signed by the compiler with their name, position and/or profession clearly indicated as well.
- l. JW may request the compiler to come to site and explain the report in detail.

3.2 OIL SAMPLING & ANALYSIS OF ROTATING INDUSTRIAL EQUIPMENT

General

- a. This specification deals with rotating equipment oil other than oil used in electric transformers, electric switchgears, vehicles, yellow plants, minor plants, tractors, trailer-mounted diesel engines driving pumps and grass-cutting equipment.
- b. This is sampling and analysis of oil of equipment such as pumps, gearboxes, compressors, blowers etc.
- c. In addition, sampling and analysis of new oil is included in the scope of this contract. This may be required for the purposes of verification of qualities of new oil.
- d. For each piece of equipment, oil sampling and analysis shall preferably be done at the same time as vibration analysis, IR scanning and sound analysis, where possible.
- e. Oil analysis shall be performed to determine the condition of the oil so that oil maintenance may be done if need be and the condition of the equipment may be ascertained so as to achieve early detection of any developing faults or failures.
- f. The intent is to know oil and equipment condition as fast and quick as possible in order to make interventions whilst time permit. To this end, turnaround time in oil analysis is of utmost importance.
- g. This part of the scope of work excludes sampling and analysis of oil used as an insulating and cooling oil for medium voltage machinery such as circuit breakers and transformers.

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Oil Sampling

- a. Only Technicians who are competent in the type and class of machinery whose oil is to be analyzed shall be allowed on site to take oil samples. In addition to any competencies the Technicians have, site-specific and project-specific inductions may be given to the Technicians and their assistants.
- b. Technician's minimum qualification required is Trade Test Certificate as Fitter, Fitter and Turner, Electrician, or Millwright and Oil Analysis II Training Certificate and minimum experience of three (3) years in taking and analyzing oil samples of industrial machinery.
- c. No site work shall commence without first following JW site-specific Permit-to-Work and Lockout Procedures.
- d. The Technician's only task will be to take oil samples of the equipment in order that the oil will be used to detect any anomalies.
- e. The Technicians shall not carry any tools which are capable of opening or working on machinery other than for the purposes of taking oil samples.
- f. All oil samples must be properly sealed and labeled (using sample point identification and equipment operational location identification) for off-site testing and analysis. A proof of quality management system in respect of oil sampling, testing and analysis may be requested by JW at any given time.
- g. Obtaining a representative oil sample from a closed loop lubrication system is essential to any good oil analysis program. All efforts must be made to ensure the oil sample taken is the most representative sample.
- h. Sampling bottles: 120 ml HDPE (opaque) bottles will be preferred.
- i. All oil sampling points, once identified, should be properly identified with an indelible sign, detailing the sample point code as defined by the JW's asset management system. This shall be the responsibility of the contractor.
- j. After oil sampling is completed, the Technician must ensure that the machine has sufficient oil to continue operating safely.

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Oil Samples Laboratory Testing

- a. Each oil sample shall be tested for the following by a laboratory suitably accredited by SANAS (South African National Accreditation System):
 1. Lubricant Physical tests:
 - i. Viscosity, Water, Oxidation, Foaming, Demulsibility, NV and NV/Zn,
 2. Elements:
 - i. Wear Metals – Fe, Cu, Pb, Cr, Al, Mo, Sn and Ni
 - ii. Contaminants – Si, Na and Li
 - iii. Additives – Ca, Ba, Mg, Zn, P, B and K
- b. Each laboratory test report will be accompanied by the copies of a valid SANAS accreditation certificate and equipment calibration certificate, where relevant.
- c. All laboratory test reports must be in full colour and submitted in electronic and hard formats.
- d. The laboratory test report must be signed by the compiler and the compiler's name, profession and/or position must be clearly displayed.

Report

- a. Once the oil sample has been tested by a suitably accredited laboratory, a complete equipment condition analysis report shall be produced by an oil test results analyst who is competent in industrial machinery condition monitoring and oil analysis.
- b. The analyst shall have the requisite qualifications and experience to form an opinion and offer advice and/or recommendations regarding oil test results of industrial machinery. The minimum requisite qualifications are Trade Test Certificate as Fitter, Fitter and Turner, Electrician, or Millwright and Oil Analysis II Training Certificate and minimum requisite experience of three (3) years in the analysis of oil test results for industrial machinery.

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- c. The whole report shall be in full colour and must be submitted in both electronic and hard copy formats.
- d. The report shall make expert comments regarding identified problems and possible solutions or rectifications (interventions) required or recommended.
- e. In the report, the identified problems shall also be assigned priority levels so as to guide JW with respect to the level of attention required.
- f. A trend for each piece of equipment shall be graphically formed and reported on each time a report is produced.
- g. All reports shall be signed by the compiler with their name, position and/or profession clearly indicated as well.
- h. JW may request the compiler to come to site and explain the report in detail.

3.3 INFRARED THERMOGRAPHY AND TEMPERATURE ANALYSIS OF ROTATING INDUSTRIAL EQUIPMENT

General

- a. This specification deals with infrared scanning and temperature analysis of equipment other than electrical panels. Low voltage electrical panels are excluded from this scope of work.
- b. This is temperature analysis, using infrared scanning technology, of equipment such the motors, gearboxes, pumps, blowers, compressors etc. so as to identify developing or developed faults within such equipment.
- c. The thermographic (IR) scanning process shall be carried out with machinery and equipment operating under normal load and environmental (setting) conditions.
- d. It is preferable to scan equipment when operating at its possible maximum operating capacity (full load), if possible at time of scanning;
- e. The equipment shall be tested after it has operated long enough to reach temperature equilibrium or possible maximum temperature condition; and

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- f. For each piece of equipment, IR scanning shall preferably be done at the same time as oil analysis, vibration analysis and noise analysis, where possible.

Site Work

- a. Only Technicians who are competent in the class of machinery to be scanned shall be allowed on site to perform IR scanning. In addition to any competencies the Technicians have, site-specific and project-specific inductions may be given to the Technicians and their assistants;
- b. Technician's minimum qualification required is Trade Test Certificate as Electrician, Fitter, Fitter and Turner, or Millwright and Infrared Thermography ISO Level 2 Training Certificate and minimum experience of three (3) years in IR scanning of industrial equipment.
- c. No site work shall commence without first following JW site-specific Permit-to-Work and Lockout Procedures.
- d. The Technician shall operate the IR camera and shall have a direct clear line of sight to the equipment being scanned.
- e. The Technician shall stand at a safe distance from the equipment being scanned.
- f. The Technician's only task shall be to take and record clear thermal and digital images of the equipment in order to detect any hot spots within the system. The only tools needed for successfully carrying out this task is an Infrared Camera and Digital Camera.
- g. The Technician shall not carry any tools which are capable of opening or working on electrical connections or other machinery.
- h. All thermal images of equipment shall be saved electronically on the camera for off-site analysis.
- i. Digital images (normal colour images) shall also be taken for use as a reference to identify the location of the equipment, the equipment themselves as well as the parts of interest on the equipment.

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Report

- a. After the scanning is completed and any potential faults (hot spots) have been identified, a report shall be produced.
- b. The report shall be produced by a person (analyst) who has requisite qualifications and experience to form an opinion and offer advice and/or recommendations regarding recorded IR images (hot spots). The minimum requisite qualifications are Trade Test Certificate as Electrician, Fitter, Fitter and Turner, or Millwright and Infrared Thermography ISO Level 2 Training Certificate and minimum requisite experience of three (3) years in the analysis of IR images of industrial machinery.
- c. The whole report shall be in full colour and shall be submitted in both electronic and hard formats.
- d. The report shall show coloured thermal images of all the equipment which have been scanned. The thermal images shall have a reading/interpreting guide (legend) in terms of different colours.
- e. Next to each thermal image, normal digital colour image(s) showing equipment location, equipment and parts of interest on the equipment where necessary shall also be shown.
- f. The report shall make expert comments regarding identified problems and possible solutions or rectifications (interventions) required or recommended.
- g. In the report, the identified problems shall also be assigned priority levels so as to guide JW with respect to the level of attention required.
- h. In the report, for each thermal image at least the following information shall be displayed: distance of scanning, emissivity, humidity, ambient temperature, plant name, equipment asset management identification or electrical identification number or name, functional location, minimum and maximum measured temperatures.
- i. A trend for each piece of equipment must be graphically developed and reported on each time a report is produced.
- j. Each report must be accompanied by copies of the calibration certificates of instrument(s) used and qualifications of the compiler (analyst).
- k. All reports must be signed by the compiler with their name, position and/or profession clearly indicated as well.

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Newtown
Johannesburg

Johannesburg Water
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Marshalltown
2107

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- I. JW may request the compiler to come to site and explain the report in detail.

3.4 ULTRASOUND ANALYSIS OF ROTATING INDUSTRIAL EQUIPMENT

General

- a. Ultrasound analysis measures changes in the sound patterns caused by problems such as wear, fatigue and deterioration in moving part as well as electrical emissions and leaks. The technique is used to measure high frequency emissions (20 kHz to 100 kHz) produced by operating industrial equipment. The measured sounds are electronically translated into the audible range where they can be heard through headphone and observed as intensity and/or dB levels on a display panel or digitally converted using data management software for computer analysis or spectral analysis. The technique is used to see whether anything is changing in the condition of the machine and its different components.
- b. Ultrasound analysis must be carried out under normal operating conditions of the equipment.
- c. Where necessary and possible, measurements must be done during all stages of operation of the equipment i.e. during starting, running and stopping phases.
- d. For each piece of equipment, ultrasound analysis will preferably be done at the same time as oil analysis, IR scanning and vibration analysis, where possible.

Site Works

- a. Only Technicians who are competent in the class of machinery to be analyzed will be allowed on site to perform ultrasound measurements. In addition to any competencies the Technicians have, site-specific and project-specific inductions may be given to the Technicians and their assistants.
- b. Technician's minimum qualification required is Trade Test Certificate as Electrician, Fitter, Fitter and Turner, or Millwright and Ultrasound Analysis ISO CAT 1 Training

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Certificate and minimum experience of three (3) years in ultrasound measurements of industrial machinery.

- c. No site work shall commence without first following JW site-specific Permit-to-Work and Lockout Procedures.
- d. The Technician's only task shall be to take ultrasound measurements of the select equipment in order to detect any anomalies. The primary tool needed for successfully carrying out this task is the ultrasound translator.
- e. The technician shall not carry any tools which are capable of opening or working on machinery other than for the purposes of taking ultrasound measurements.
- f. All ultrasound measurements of equipment shall be recorded for off-site analysis.

Report

- a. After the ultrasound measurements are completed and any potential faults have been identified, a report shall be produced.
- b. The report shall be produced by a person (analyst) with requisite qualifications and experience to form an opinion and offer advice and/or recommendations regarding recorded and analyzed ultrasound emissions. The minimum requisite qualifications are Trade Test Certificate as Electrician, Fitter, Fitter and Turner, or Millwright and Ultrasound Analysis ISO CAT 1 Training Certificate and minimum requisite experience of three (3) years in the analysis of ultrasounds of industrial machinery.
- c. The whole report shall be in full colour and must be submitted in both electronic and hard formats.
- d. The report shall show colour graphs of measured ultrasounds and spectrum analysis of all the equipment which have been studied.
- e. A trend for each piece of equipment shall be developed graphically and reported on each time a report is produced.
- f. The report shall have legends, keys, guides as may be necessary for reading and interpreting the graphs and other information.
- g. Each piece of equipment in the report shall be identified clearly using site identification names or numbers. Where relevant, plant unit number or name shall also be clear.

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- h. The report shall make expert comments regarding identified problems and possible solutions or rectifications (interventions) required or recommended.
- i. In the report, the identified problems shall also be assigned priority levels so as to guide JW with respect to the level of attention required.
- j. Each report shall be accompanied by copies of the calibration certificates of the instrument(s) used and qualifications of the compiler (analyst).
- k. All reports shall be signed by the compiler with their name, position and/or profession clearly indicated as well.
- l. JW may request the compiler to come to site and explain the report in detail.

3.4. MOTOR TESTING

Complete Motor Static Testing shall include winding resistance test, insulation resistance test, PI test, DC step voltage test, Hi Pot test.

Complete Motor Dynamic Testing shall be performed on the motor under its normal operating conditions and shall be performed each time vibration analysis is performed. This testing must include current and torque spectra (current signature analysis) of the motor to monitor mechanical issues such as bearing faults, vibration, misalignment and eccentricity. This testing must also be used to monitor power quality issues related to the motor. The testing must also cover condition of rotor bars of the motor.

3.5. PUMP PERFORMANCE TESTING

Pump Performance Testing shall include at least the following tests: (1) flow rate, inlet pressure or pump lift, discharge pressure, energy input and efficiency.

4. CATEGORY TWO – INFRARED THERMOGRAPHY AND TEMPERATURE ANALYSIS OF LOW VOLTAGE PANELS

Directors:

Mr Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),
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4.1 INFRARED THERMOGRAPHY AND TEMPERATURE ANALYSIS OF LOW VOLTAGE ELECTRICAL PANELS

General

- a. This scope of work is only limited to infrared thermography of low voltage electrical panels. These may include motor control centres, distribution boards, switchboards, PLC panels, network panels, junction boxes, PFC panels etc.
- b. The thermographic scanning process shall be carried out with the low voltage electrical panel operating under normal load conditions.
- c. It is preferable to scan low voltage electrical panel when operating at its maximum operating capacity (full load), if possible.
- d. The low voltage electrical panel shall be tested after it has operated long enough to reach temperature equilibrium or maximum possible temperature conditions.

Site Work

- a. Site work shall be carried out under the direct supervision and control of a person registered as Installation Electrician or Master Installation Electrician in terms of Occupational Health and Safety Act, 85 of 1993.
- b. Only Technicians who are competent in the class of machinery to be scanned shall be allowed on site to perform IR scanning. In addition to any competencies the Technicians have, site-specific and project-specific inductions may be given to the Technicians and their assistants.
- c. Technician's minimum qualification required is Trade Test Certificate as Electrician, or Millwright and Installation Electrician Wireman's Licence and Infrared Thermography ISO Level 2 Training Certificate and minimum experience of three (3) years in IR scanning of low voltage electrical panels.

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- d. No site work shall commence without first following JW site-specific Permit-to-Work and Lockout Procedures
- e. The Technician shall operate the IR camera and shall have a direct clear line of sight to the part of electrical installation being scanned.
- f. The Technician shall stand at a safe distance from the part of the electrical installation being scanned.
- g. The Technician's only task shall be to record clear thermal and digital images of part of interest of the electrical installation in order to detect any hot spots within the system. The only tools needed for successfully carrying out this task are an Infrared Camera, Digital Camera and Panel Key.
- h. The Technician shall not carry any tools which are capable of working on electrical connections or other machinery.
- i. As many images as necessary shall be taken such that all parts of the low voltage electrical panel are scanned sufficiently.
- j. All thermal images of the parts of electrical installation shall be saved electronically on the camera for off-site analysis.
- k. Digital images (normal colour images) shall also be taken for use as a reference to identify the location of the low voltage electrical panel, the low voltage electrical panel itself as well as the parts of interest on the low voltage electrical panel.

Report

- a. After the scanning is completed and any potential faults (hot spots) have been identified, a report shall be produced.
- b. The report shall be produced by a person (analyst) who has requisite qualifications and experience to form an opinion and offer advice and/or recommendations regarding recorded IR images (hot spots). The minimum requisite qualifications are Trade Test Certificate as Electrician or Millwright and Installation Electrician's Licence and Infrared Thermography ISO Level 2 Training Certificate and minimum requisite experience of three (3) years in the analysis of IR images of low voltage electrical panels.

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- c. The whole report shall be in full colour and shall be submitted in both electronic and hard formats.
- d. The report shall show coloured thermal images of all the equipment or their parts which have been scanned. The thermal images must have a reading/interpreting guide (legend) in terms of different colours showing degree of hotness.
- e. Next to each thermal image, normal colour image(s) showing low voltage electrical panel's location, low voltage electrical panel and parts of interest on the low voltage electrical panel where necessary shall also be shown.
- f. The report shall make expert comments regarding identified problems and possible solutions or rectifications (interventions) required or recommended.
- g. In the report, the identified problems shall also be assigned priority levels so as to guide JW with respect to the level of attention required.
- h. In the report, for each thermal image at least the following information shall be displayed: distance of scanning, emissivity, humidity, ambient temperature, plant name, low voltage electrical panel asset management identification or electrical identification number or name, functional location, motor control centre or board identification, minimum and maximum measured temperatures.
- i. A trend for each low voltage electrical panel shall be graphically formed and reported on each time a report is produced.
- j. Each report shall be accompanied by copies of the calibration certificates of instrument(s) used and qualifications of the compiler (analyst).
- k. All reports shall be signed by the compiler with their name, position and/or profession clearly indicated as well
- l. JW may request the compiler to come to site and explain the report in detail.

5. CATEGORY THREE – LASER ALIGNMENT OF ROTATING INDUSTRIAL EQUIPMENT

5.1 LASER ALIGNMENT OF ROTATING EQUIPMENT

Directors:

Mr Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),
Mr Kgaugelo Mahlaba (Chief financial Officer and Executive Director) Mr Sipho Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele,
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General

- a. Shaft misalignment comes in two forms: **angular** – in which the two shafts coupled together do not line up in parallel i.e. shafts are at an angle to each other; and **parallel (offset)**, in which the shafts are parallel but not in a straight line i.e. offset. In either case, the machine's efficiency is reduced. There is also a third form of misalignment – a combination of both angular and parallel.
- b. The latest laser alignment systems can help to overcome these problems, as they are highly accurate and easy to use. In principle, they work the same way as dial indicators. The system is mounted on both shafts, or to both sides of the coupling, and the shaft assessed in three separate positions. The laser measures the distance to the reference bar in each position, as it would with dial indicators. Misalignment causes this distance to change, and can be quantified. Laser systems boast several advantages over traditional shaft alignment methods, including higher accuracy and greater ease of use.
- c. Misalignment will be measured in both horizontal and vertical plans for both angular and parallel scenarios.
- d. The contractor will be required to:
 - i. Perform rough alignment
 - ii. Check and remove soft feet
 - iii. Measure, correct and re-measure alignment using a laser alignment tool
 - iv. Supply and add shims and other necessary consumables
 - v. Tighten bolts and nuts
 - vi. Prepare and submit a report

Site Work

- a. Only Technicians who are competent in the type and class of machinery to be aligned will be allowed on site to perform laser alignment
- b. In addition to any competences the Technicians have, site-specific and project-specific inductions may be given to the Technicians and their assistants.

Directors:

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- c. Technician's minimum requisite qualifications are Trade Test Certificate in Mechanical Fitting, Mechanical Fitting and Turning or Millwright and a training certificate in Laser Alignment.
- d. Technician's requisite experience is three (3) years or more work experience in performing laser alignment of industrial equipment.
- e. No site work shall commence without first following JW site specific Permit-to-Work and Lockout Procedures.
- f. The Technician's only task shall be to perform laser alignment.
- g. Only tools needed for successfully carrying out this task will be allowed on site.
- h. All measurements shall be recorded.

Post Site Work and Report

- a. After site work is completed, the contractor will submit a typed laser alignment report to JW immediately, both in electronic and hard copy formats.
- b. The report referred to in (a) shall include at least the following information: date of task, date of report, equipment name, plant name, process unit, name of the treatment works, motor power rating, tolerances, dimensions, pre-measurements, post measurements, Technician's name and signature.
- c. JW may request the compiler to come to site and explain the report in detail.

6. 24/7 STANDBY SUPPORT

The contractor shall provide a 24 hour, 7 days a week support.

7. MEETINGS

Meetings shall be confirmed and agreed to by JW Management as and when needed.

8. HARDWARE/TOOLS

Directors:

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The onus is on the contractor to procure hardware and appropriate tools (i.e. laptops, cameras, storage discs, measurement and test equipment etc.) required to carry out the duties as stipulated in the contract. All calibration, measurement and test equipment shall be calibrated by a certified institution once per year or as directed by the equipment manufacturer and verified monthly for accuracy and repeatability.

9. PROJECT TEAM

Unqualified individuals shall not work without appropriate supervision on JW sites.

The contractor shall also ensure that they will have enough qualified personnel at all times to attend to JW's contractual needs.

10. SAFETY PLAN

The Contractor shall be required to compile a Health and Safety plan in accordance with the JW OHS specifications issued out with this tender. A comprehensive risk assessment shall be done on every site before any work may commence. Site-specific Permit-to-Work and Lockout procedures and other HSE Rules must be followed at all times. All health and safety risks shall be reported to the JW person responsible for that site. Below is a list of typical site dangers and hazards the contractor may encounter at Wastewater Treatment Plants (list is not intended as health and safety specification):

- Motor Control Centres
- Electrical installations
- Medium Voltage
- Dangerous reptiles
- Stinging insects
- High incident / risk areas
- Boiler rooms (hot fluids and hot surfaces)

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- Hazardous locations due to flammable gases
- Bioreactors and clarifiers (drowning)
- Dewatering plants (slippery, damp)
- Lime plants (chemical)
- Pump stations (toxic gases, confined spaces, flooding, hot surfaces, pressurized and hot fluids)
- Digesters (presence of toxic and flammable gases)
- Ferric dosing plants (hazardous chemicals)
- Rotating machinery (pumps, air compressors, air blowers, electric motors, industrial gearboxes, mechanical screens, conveyor belts, filter belt presses etc.)

11. SUPPORT RESPONSE TIMES

Support Type	Maximum Response Times
Submission of quotation	2 working day*
Start of site work after Purchase Order is issued by JW	3 working days*
Submission of analysis report after site work has been completed (Vibration Analysis)	5 working days
Submission of analysis report after site work has been completed (Oil analysis)	15 working days
Submission of analysis report after site work has been completed (Sound Analysis)	5 working days
Submission of analysis report after site work has been completed (IR Scan)	5 working days
Submission of report after site work has been completed (Laser Alignment)	Same day
Emergency call out	3 hours*

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Submission of emergency analysis report after site work has been completed	3 hours
Delivery of supply and deliver equipment after obtaining official purchase order	30 working days*

*The response times are all measured from the initial support request call made by JW and include travelling time where applicable.

12. SITE SAFETY AND SECURITY

The contractor shall remain liable for the safety and security of their own personnel and belongings, while at JW premises, at all times.

13. COMMUNICATION

The contractor shall communicate with the relevant site management on any issue including arrival and departure times from site. All deviations, including emergencies, from the contract shall be approved by the relevant Regional Maintenance Manager in writing.

14. REPORTS

The contractor shall submit two colour copies and one electronic copy of all reports requested by this contract within timelines stipulated under support response times which shall be addressed to relevant Regional Maintenance Manager.

15. QUANTITIES

The quantities cannot be specified as this is an as and when contract.

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16. DURATION OF CONTRACT

Nine (09) months

17. PRICING DATA

Bidders must use the provided pricing schedule without making any alterations. This ensures uniformity and allows for fair comparison among all bids submitted. All rates must be inclusive of all applicable costs. This includes but is not limited to:

- **Overheads:** Administrative and operational costs.
- **Transport:** Costs related to the delivery of goods or services.
- **Equipment:** Any tools or machinery required for the project.
- **Insurances:** Necessary insurance coverage for the project.
- **PPE:** Costs associated with personal protective equipment for safety compliance.

18. TENDER FORM AND PRICE SCHEDULES

To: Johannesburg Water (SOC) Ltd.

Having examined the Tender documents including Addenda Nos _____ [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer **Bulk Wastewater Condition Monitoring on an as and when required basis for a period of nine (9) months.**

as specified in conformity with the said RFP documents and as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.

Details of my / our offer are / are as follows:

Directors:

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We undertake, if our Tender is accepted, execute the contract in accordance with the requirements as specified.

We agree to abide by this Tender for a period of ninety (90) days from the date fixed for Tender opening, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that Johannesburg Water is not bound to accept the lowest or any tender it may receive, and that the contract may be awarded in whole or in part and to more than one tenderer.

Should my/our tender be successful, it be understood that a contract will come into existence as a once off contract which will commence from the date indicated in the letter of acceptance.

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Mr Kefiloe Mokoena

Ms Kethabile Mabe (Company Secretary),
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City of Johannesburg

Johannesburg Water SOC Ltd

Turbine Hall
65 Ntshavheni Street
Newtown
Johannesburg

Johannesburg Water
PO Box 61542
Marshalltown
2107

Tel +27(0) 11 688 1400
Fax +27(0) 11 688 1528

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1.1. SCHEDULE OF PRICES:

The evaluation on price alteration will be conducted as follows:

3.1.2 Where the tender award strategy is to evaluate and award total bid offer, the following must apply:

- (i) If there is an alteration on the rate, total for the line item, sub-total/ sum brought/carried forward for the section but no alteration on the total bid offer, the bidder will not be disqualified.
- (ii) If there is an alteration on the total bid offer on form of offer, then the amount in words must be considered or vice-versa.
- (iii) If there is an unauthenticated alteration on the total bid offer is not authenticated the bidders will be disqualified for the entire tender.

3.1.3. Where the tender pricing schedule or bill of quantities is requesting rates/price from bidder/s without providing a total, the following will apply:

- (i) If there is an unauthenticated alteration on the unit rate/price the bidder must be disqualified.

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Newtown
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Tenderer to complete the below Bill of Materials below:

CATEGORY 1 – CONDITION MONITORING OF ROTATING INDUSTRIAL EQUIPMENT

SCHEDULE No.: 1

ITEM NO	DESCRIPTION	UNIT	QTY	Rate Normal Time (Excl VAT)	VAT	Rate Normal Time (Incl VAT)	Rate Overtime (Excl VAT)	VAT	Rate Overtime (Incl VAT)
1.1	Vibration measurement, analysis and analysis report								
1.1.1	0 to 22kW	Per Equipment	1						
1.1.2	21kW to 110kW	Per Equipment	1						
1.1.3	101kW and above	Per Equipment	1						
1.2	Ultrasound measurement, analysis and analysis report								
1.2.1	0 to 22kW	Per Equipment	1						
1.2.2	21kW to 110kW	Per Equipment	1						
1.2.3	101kW and above	Per Equipment	1						
1.3	IR thermography, analysis and analysis report								
1.3.1	0 to 22kW	Per Equipment	1						
1.3.2	21kW to 110kW	Per Equipment	1						

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Newtown
Johannesburg

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1.3.3	101kW and above	Per Equipment	1						
1.4	Oil sampling, testing, results analysis and analysis report	Per Equipment	1						
1.5	Temperature rise measurement, analysis and analysis report	Per Equipment	1						
1.6	Motor PI Test and analysis report	Per Equipment	1						
1.7	Motor Insulation Resistance Test and analysis report	Per Equipment	1						
1.8	Motor Circuit Analysis Test and analysis report	Per Equipment	1						
1.9	Motor Winding Resistance Test and analysis report	Per Equipment	1						
1.10	Motor no-load current and power measurement and analysis report								
1.10.1	0 to 55kW	Per Equipment	1						
1.10.2	75kW to 132kW	Per Equipment	1						
1.10.3	160kW and above	Per Equipment	1						
1.11	Motor High Potential test and analysis report	Per Equipment	1						
1.12	Motor Locked Rotor Test and analysis report								
1.12.1	0 to 55kW	Per Equipment	1						
1.12.2	75kW to 132kW	Per Equipment	1						
1.12.3	160kW and above	Per Equipment	1						

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1.13	Motor Speed and Torque Measurement and analysis report								
1.13.1	0 to 55kW	Per Equipment	1						
1.13.2	75kW to 132kW	Per Equipment	1						
1.13.3	160kW and above	Per Equipment	1						
1.14	Complete Motor Static (Off-Line) Testing and analysis report								
1.14.1	0 to 55kW	Per Equipment	1						
1.14.2	75kW to 132kW	Per Equipment	1						
1.14.3	160kW and above	Per Equipment	1						
1.15	Complete Motor Dynamic (On-Line) Testing and analysis report								
1.15.1	0 to 55kW	Per Equipment	1						
1.15.2	75kW to 132kW	Per Equipment	1						
1.15.3	160kW and above	Per Equipment	1						
1.16	Complete Pump Performance Testing and analysis report								
1.16.1	0 to 55kW	Per Equipment	1						

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1.16.2	75kW to 132kW	Per Equipment	1						
1.16.3	160kW and above	Per Equipment	1						
1.17	Gearbox Load Testing and analysis report								
1.17.1	0 to 55kW	Per Equipment	1						
1.17.2	75kW to 132kW	Per Equipment	1						
1.17.3	160kW and above	Per Equipment	1						
1.18	Transport (Light)	Per km	1	AA	AA	AA	AA	AA	AA
1.19	Transport (heavy) 5Ton and above	Per km	1						
1.20	Crane Truck 10Ton and above plus rigging crew, rigging equipment and operator	Per Hour	1						
1.21	Mobile Crane 55Ton and above plus rigging crew, rigging equipment, setup equipment, consumables and operator	Per Day	1						
1.22	Mobile Crane 110Ton and above plus rigging crew, rigging equipment, setup equipment, consumables and operator	Per Day	1						

NB: For tests and measurements which may only be performed off-site the quoted rate must also include site labour to un-install and re-install equipment. Transport is capped at 200km per return trip.

Signature of person authorized to sign this tender (Pricing Schedule Sign-off):

Directors:

Mr Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),
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Name: _____ **Signature:** _____

Date: _____

Directors:

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Newtown
Johannesburg

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2107

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CATEGORY 2 – INFRARED THERMOGRAPHY AND TEMPERATURE ANALYSIS OF LOW VOLTAGE PANELS

SCHEDULE No.: 2

ITEM NO	DESCRIPTION	UNIT	QTY	Rate Normal Time (Excl VAT)	VAT	Rate Normal Time (Incl VAT)	Rate Overtime (Excl VAT)	VAT	Rate Overtime (Incl VAT)
	IR thermography, temperature analysis and analysis report								
2.1	MCC Motor Panels								
2.1.1	0 to 4kW	Per panel	1						
2.1.2	4.1kW to 22kW	Per panel	1						
2.1.3	21kW to 75kW	Per panel	1						
2.1.4	76kW to 160kW	Per panel	1						
2.1.5	161kW to 250kW	Per panel	1						
2.1.6	251kW and above	Per panel	1						
2.2	Motor Field/Control Stations								

Directors:

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65 Ntengi Piliso Street
Newtown
Johannesburg

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2.2.1	0 to 4kW	Per station	1						
2.2.2	4.1kW to 22kW	Per station	1						
2.2.3	21kW to 75kW	Per station	1						
2.2.4	76kW to 160kW	Per station	1						
2.2.5	161kW to 250kW	Per station	1						
2.2.6	251kW and above	Per station	1						
2.3	MCC Incomer Panels								
2.3.1	0 to 250A	Per panel	1						
2.3.2	251A to 500A	Per panel	1						
2.3.3	501A to 1500A	Per panel	1						
2.3.4	1501A and above	Per panel	1						
2.4	Other MCC Panels								
2.4.1	Marshalling panel	Per panel	1						
2.4.2	Horizontal busbar panel	Per panel	1						
2.4.3	Vertical busbar panel	Per panel	1						
2.5	MCC Feeder Panels								
2.5.1	0 to 100A	Per panel	1						
2.5.2	101 to 250A	Per panel	1						

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2.5.3	251A to 500A	Per panel	1						
2.5.4	501A to 1000A	Per panel	1						
2.5.5	1001A and above	Per panel	1						
2.6	Distribution Boards								
2.6.1	0 to 63A	Per DB	1						
2.6.2	64A to 100A	Per DB	1						
2.6.3	101A to 250A	Per DB	1						
2.6.4	251A to 500A	Per DB	1						
2.6.5	501A and above	Per DB	1						
2.7	PFC Panels								
2.7.1	0 to 500kVAr	Per panel	1						
2.7.2	501kVAr to 1000kVAr	Per panel	1						
2.7.3	1001kVAr and above	Per panel	1						
2.8	PLC Panels								
2.8.1	Single door panel	Per panel	1						
2.8.2	Double door panel	Per panel	1						
2.9	Transport	Per km	1	AA	AA	AA	AA	AA	AA

NB: Transport is capped at 200km per return trip.

Directors:

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Signature of person authorized to sign this tender (Pricing Schedule Sign-off):

Name: _____ Signature: _____

Date: _____

Directors:

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65 Ntemi Piliso Street
Newtown
Johannesburg

Johannesburg Water
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Marshalltown
2107

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Fax +27(0) 11 688 1528

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CATEGORY 3 – LASER ALIGNMENT OF ROTATING EQUIPMENT

SCHEDULE No.: 3

ITEM NO	DESCRIPTION	UNIT	QTY	Rate Normal Time (Excl VAT)	VAT	Rate Normal Time (Incl VAT)	Rate Overtime (Excl VAT)	VAT	Rate Overtime (Incl VAT)
1.1	Laser alignment and alignment report								
1.1.1	0 to 90kW	Per Equipment	1						
1.1.2	91kW to 220kW	Per Equipment	1						
1.1.3	221kW and above	Per Equipment	1						

Directors:

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65 Ntemi Piliso Street
Newtown
Johannesburg

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1.3	Fasteners: bolts, washers and nuts etc. (galvanised steel)	kg	1						
1.4	Fasteners: bolts, washers and nuts etc. (stainless steel)	kg	1						
1.5	Stainless steel shims (0.05mm to 0.25mm)	each	1						
1.6	Stainless steel shims (0.30mm to 0.80mm)	each	1						
1.7	Transport	each	1	AA	AA	AA	AA	AA	AA

NB: Transport is capped at 200km per return trip.

Signature of person authorized to sign this tender (Pricing Schedule Sign-off):

Name: _____ **Signature:** _____

Directors:

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65 Ntengi Piliso Street
Newtown
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Date: _____

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Newtown
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19. AWARD AND ALLOCATION STRATEGIES

19.1.1. Award Strategy

Contract is to be awarded to the highest scoring Tenderer per category (Categories 1, 2 and 3) in terms of specific goals and price.

The Tenderers are requested to indicate the category or categories for which the tender.

19.1.2. Allocation Strategy

Work is to be allocated to the highest preference ranking Tenderer per category.

Directors:

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20. EVALUATION CRITERIA

20.1. EVALUATION PROCESS

Tender evaluation process to be as follows:

STAGE	DESCRIPTION
Stage 1	Mandatory evaluation
Stage 2	Administrative compliance evaluation
Stage 3	Technical Evaluation
Stage 4	Price and preference evaluation

20.1.1. Stage 1: Mandatory evaluation

NO.	MANDATORY CRITERIA	YES
1.	Signed Pricing Schedule and completed in terms of award and or allocation strategy	Yes
2.	Compulsory Briefing session	Yes

NB: Bidders that fail to comply with the above mandatory requirement will not be evaluated further.

20.1.2. Stage 2: Administrative evaluation

Price related MBD forms applicable for this tender.

REFERENCE TO TENDER DOCUMENT	DESCRIPTION	REQUIRED
MBD 3.1	Pricing Schedule – Firm Prices (Purchases)	Yes

20.2. Stage 3: Technical Requirements

20.2.1. The Tenderer (Company) is required to have experience condition monitoring of industrial equipment (Category 1); experience in infrared thermography and temperature analysis of electrical panels (Category 2); experience in laser alignment of pumps (Category 3). The Tenderer (Company) must provide relevant reference letter(s) confirming proof that they have successfully executed the required works in rendering services.

20.2.2. The Tenderer (Company) is required to assign Technicians (key personnel) with the stipulated qualifications to execute the works. Tenderer (Company) is required to submit the stipulated qualifications for each technician who will be assigned to this contract for the execution of the work.

20.2.3. The tenderer's key personnel (Technicians) to be allocated for the execution of the contract must have a minimum of 3 years' relevant experience for the type of condition monitoring they are performing.

20.3. Award Categories and Allocation

20.3.1. Award Categories

The tenderer is required to indicate the category or categories for which they are tendering by ticking the appropriate box or boxes below. The tenderer will only be evaluated for the categories they are tendering.

Award Categories

Category	Description	Please tick
Cat. 1	<ul style="list-style-type: none"> • Vibration analysis of rotating industrial equipment. • Sound analysis of rotating industrial equipment. • Oil sampling and analysis for rotating industrial equipment. • Infrared thermography and temperature analysis of rotating industrial equipment. • Motor Testing 	
Cat. 2	<ul style="list-style-type: none"> • Infrared thermography and temperature analysis of LV electrical panels. 	
Cat. 3	<ul style="list-style-type: none"> • Laser alignment of rotating equipment. 	

20.3.2. Allocation

Work will be allocated to the highest scoring tenderer for each category.

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The following criteria will be applicable:

Category 1 Technical Evaluation

CATEGORY 1: TENDERER'S EXPERIENCE, KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE OF KEY PERSONNEL					
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE
1	TENDERER'S EXPERIENCE The Tenderer (Company) is required to have experience in successfully performing condition monitoring of industrial equipment.	The Tenderer (Company) must provide relevant reference letter(s) with proof that they have executed the required works in successfully performing condition monitoring of industrial equipment. <i>The tenderer must request their client (where work was executed) to complete the templates attached in the tender document in full or provide reference letters in their client's letter head with all functional information as required per the template provided.</i>	Less than 3 years	25	0
			3 years and more but less than 4 years		15
			4 years or more		25
2	Key Personnel – Vibration Monitoring The Tenderer (Company) is required to assign a minimum number of one key personnel with the stipulated qualifications to execute the works.	Tenderer (Company) is required to submit the stipulated qualifications for the minimum number of key personnel who will be assigned to this contract for the execution of the work. The following personnel will be required for this contract: Technician: Vibration Monitoring The Tenderer is required to provide a minimum of one (1) Technician: Vibration Monitoring with Fitter, Fitter & Turner, Electrician or Millwright trade test certificate plus Vibration Analysis CAT II Training Certificate	The Tenderer did not provide any Technician with the requisite qualifications and training certificate	10	0
			The Tenderer provided one (1) Technician with a Fitter or Fitter & Turner or Electrician or Millwright trade test certificate plus Vibration Analysis CAT II or III Training Certificate		6
			The Tenderer provided one (1) or more Technicians with N.Dip or BTech or BEngTech or AdvDip or PGDip or BSc/BEng in Electrical or Mechanical or Electromechanical or Mechatronics plus Vibration Analysis CAT II or III Training Certificate		10

Directors:

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 Mr Kgaile Mogoye, Mr Molate Mashifane, Ms Pamela Mabece, Mr Collen Sambo, Mr Makoko Makgonye, Ms Thabiso Kutumela,
 Mr Kefiloe Mokoena

Ms Kethabile Mabe (Company Secretary),
 Johannesburg Water SOC Ltd
 Registration Number: 2000/029271/30

CATEGORY 1: TENDERER'S EXPERIENCE, KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE OF KEY PERSONNEL					
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE
3	Key Personnel – IR Thermography The Tenderer (Company) is required to assign a minimum number of one key personnel with the stipulated qualifications to execute the works.	Tenderer (Company) is required to submit the stipulated qualifications for the minimum number of key personnel who will be assigned to this contract for the execution of the work. The following personnel will be required for this contract: Technician: IR Thermography The Tenderer is required to provide a minimum of one (1) Technician: Vibration Monitoring with Fitter, Fitter & Turner, Electrician or Millwright trade test certificate plus IR Thermography ISO Level 2 Certificate	The Tenderer did not provide any Technician with the requisite qualifications and training certificate	10	0
			The Tenderer provided one (1) Technician with a Fitter or Fitter & Turner or Electrician or Millwright trade test certificate plus IR Thermography ISO Level 2 or higher Training Certificate.		6
			The Tenderer provided one (1) or more Technicians with N.Dip or BTech or BEngTech or AdvDip or PGDip or BSc or BEng in Electrical or Mechanical or Electromechanical or Mechatronics plus IR Thermography ISO Level 2 or higher Training Certificate		10
4	Key Personnel – Oil Analysis The Tenderer (Company) is required to assign a minimum number of one key personnel with the stipulated qualifications to execute the works.	Tenderer (Company) is required to submit the stipulated qualifications for the minimum number of key personnel who will be assigned to this contract for the execution of the work. The following personnel will be required for this contract: Technician: Oil Analysis The Tenderer is required to provide a minimum of one (1) Technician: Vibration Monitoring with Fitter, Fitter & Turner, Electrician or Millwright trade test certificate plus Oil Analysis II Training Certificate	The Tenderer did not provide any Technician with the requisite qualifications and training certificate	10	0
			The Tenderer provided one (1) Technician with a Fitter or Fitter & Turner or Electrician or Millwright trade test certificate plus Oil Analysis II or higher Training Certificate		6
			The Tenderer provided one (1) or more Technicians with N.Dip or BTech or BEngTech or AdvDip or PGDip or BSc or BEng in Electrical/Mechanical/Electromechanical/Mechatronics plus Oil Analysis II or higher Training Certificate.		10

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CATEGORY 1: TENDERER'S EXPERIENCE, KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE OF KEY PERSONNEL					
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE
5	Experience of Key Personnel – Vibration Analysis The tenderer's key personnel to be allocated for the execution of the contract must have experience in Vibration Analysis Note: <i>The tenderer must complete and submit the attached Curriculum Vitae template for their key personnel with relevant experience to the works required. The tenderer must provide a separate form for each key personnel as per the positions listed in the form.</i>	The tenderer must have the following personnel for the execution of the works required for this contract: Technician: Vibration Analysis The Technician is required to have a minimum of 3 years in carrying out Vibration Analysis.	Less than 3 years	15	0
			3 years and more but not more than 4 years		9
			4 years and more		15
6	Experience of Key Personnel – IR Thermography The tenderer's key personnel to be allocated for the execution of the contract must have experience in IR Thermography.	The tenderer must have the following personnel for the execution of the works required for this contract: Technician: IR Thermography The Technician is required to have a minimum of 3 years in carrying out IR Thermography.	Less than 3 years	15	0
			3 years and more but not more than 4 years		9

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CATEGORY 1: TENDERER'S EXPERIENCE, KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE OF KEY PERSONNEL					
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE
	<p>Note: The tenderer must complete and submit the attached Curriculum Vitae template for their key personnel with relevant experience to the works required. The tenderer must provide a separate form for each key personnel as per the positions listed in the form.</p>		4 years and more		15
7	<p>Experience of Key Personnel – Oil Analysis</p> <p>The tenderer's key personnel to be allocated for the execution of the contract must have experience in Oil Analysis</p> <p>Note: The tenderer must complete and submit the attached Curriculum Vitae template for their key personnel with relevant experience to the works required. The tenderer must provide a separate form for each key personnel as per the positions listed in the form.</p>	<p>The tenderer must have the following personnel for the execution of the works required for this contract:</p> <p>Technician: Oil Analysis The Technician is required to have a minimum of 3 years in carrying out Oil Analysis</p>	<p>Less than 3 years</p> <p>3 years and more but not more than 4 years</p> <p>4 years and more</p>	15	<p>0</p> <p>9</p> <p>15</p>
MINIMUM QUALIFYING SCORE				60	
TOTAL				100	

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Category 2 Technical Evaluation

CATEGORY 2: TENDERER'S EXPERIENCE, KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE OF KEY PERSONNEL					
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE
1	TENDERER'S EXPERIENCE The Tenderer (Company) is required to have experience in successfully implementing IR Thermography on electrical panels or MCC's.	The Tenderer (Company) must provide relevant reference letter(s) with proof that they have executed the required works in successfully implementing IR Thermography on electrical panels or MCC's. <i>The tenderer must request their client (where work was executed) to complete the templates attached in the tender document in full or provide reference letters in their client's letter head with all functional information as required per the template provided.</i>	Less than 3 years	40	0
			3 years and more but less than 4 years		24
			4 years or more		40
2	Key Personnel The Tenderer (Company) is required to assign a minimum number of one key personnel with the stipulated qualifications to execute the works.	Tenderer (Company) is required to submit the stipulated qualifications for the minimum number of key personnel who will be assigned to this contract for the execution of the work. The following personnel will be required for this contract: Electrical Technician The Tenderer is required to provide a minimum of one (1) Electrical Technician with a Electrician Trade Test plus IR Thermography ISO Level 2 Certificate.	The Tenderer did not provide any Electrical Technician with the requisite qualifications.	30	0
			The Tenderer provided one (1) Electrical Technician with Electrician or Millwright trade test certificate plus IR Thermography ISO Level 2 or higher Training Certificate		18
			The Tenderer provided one (1) Electrical Technician with N.Dip or BTech or AdvDip or BEngTech or BSc or BEng or PGDip in electrical engineering plus IR Thermography ISO Level 2 or higher Training Certificate		30

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CATEGORY 2: TENDERER'S EXPERIENCE, KEY PERSONNEL QUALIFICATIONS AND EXPERIENCE OF KEY PERSONNEL					
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE
3	Experience of Key Personnel The tenderer's key personnel to be allocated for the execution of the contract must have experience in IR Thermography of electrical panels or MCC's. Note: <i>The tenderer must complete and submit the attached Curriculum Vitae template for their key personnel with relevant experience to the works required. The tenderer must provide a separate form for each key personnel as per the positions listed in the form.</i>	The tenderer must have the following personnel for the execution of the works required for this contract: Artisan Fitter The Artisan Fitter is required to have a minimum of 3 years in implementing IR Thermography of electrical panels or MCC's.	Less than 3 years 3 years or more but less than 4 years 4 years or more	30	0 24 30
MINIMUM QUALIFYING SCORE				60	
TOTAL				100	

NB: Bidders are required to meet a minimum of 60 points on the functionality evaluation to be further evaluated on the preference points. Bidders that do not meet a minimum of 60 points will be disqualified and will not be evaluated further.

Directors:

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Category 3 Technical Evaluation

CATEGORY C: TENDERER'S EXPERIENCE, KEY PERSONNEL QUALIFICATIONS, EXPERIENCE OF KEY PERSONNEL					
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE
1	TENDERER'S EXPERIENCE The Tenderer (Company) is required to have experience in successfully implementing laser alignment of pumps.	The Tenderer (Company) must provide relevant reference letter(s) with proof that they have executed the required works in successfully implementing laser alignment of pumps. <i>The tenderer must request their client (where work was executed) to complete the templates attached in the tender document in full or provide reference letters in their client's letter head with all functional information as required per the template provided.</i>	Less than 3 years	40	0
			3 years and more but less than 4 years		24
			4 years or more		40
2	Key Personnel The Tenderer (Company) is required to assign a minimum number of one key personnel with the stipulated qualifications to execute the works.	Tenderer (Company) is required to submit the stipulated qualifications for the minimum number of key personnel who will be assigned to this contract for the execution of the work. The following personnel will be required for this contract: Mechanical Technician The Tenderer is required to provide a minimum of one (1) Mechanical Technician with a Fitter trade test certificate or Fitter & Turner trade test certificate or Millwright trade test certificate plus Laser Alignment Training Certificate.	The Tenderer did not provide any artisan fitter with a Fitter trade test certificate or Fitter & Turner trade test certificate or Millwright trade test certificate	30	0
			The Tenderer provided one (1) artisan fitter with a Fitter trade test certificate or Fitter & Turner trade test certificate or Millwright trade test certificate plus Laser Alignment Training Certificate		18
			The Tenderer provided two (2) or Mechanical Technicians with a Fitter trade test certificate or Fitter & Turner trade test certificate or Millwright trade test certificate plus Laser Alignment Training Certificate.		30

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CATEGORY C: TENDERER’S EXPERIENCE, KEY PERSONNEL QUALIFICATIONS, EXPERIENCE OF KEY PERSONNEL					
CRITERIA NO.	CRITERIA	EVIDENCE	SUB-CRITERIA/CLAUSE	MAX SCORE	SCORE
3	Experience of Key Personnel The tenderer’s key personnel to be allocated for the execution of the contract must have experience in implementing laser alignment of pumps. Note: <i>The tenderer must complete and submit the attached Curriculum Vitae template for their key personnel with relevant experience to the works required. The tenderer must provide a separate form for each key personnel as per the positions listed in the form.</i>	The tenderer must have the following personnel for the execution of the works required for this contract: Mechanical Technician The Mechanical Technician is required to have a minimum of 3 years in implementing laser alignment of pumps.	Less than 3 years	30	0
			3 years and more but less than 4 years		18
			4 years and more		30
MINIMUM QUALIFYING SCORE				60	
TOTAL				100	

NB: Bidders are required to meet a minimum of 60 points on the functionality evaluation to be further evaluated on the preference points. Bidders that do not meet a minimum of 60 points will be disqualified and will not be evaluated further.

Directors:

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 Mr Kefiloe Mokoena

Ms Kethabile Mabe (Company Secretary),
 Johannesburg Water SOC Ltd
 Registration Number: 2000/029271/30

CONTACTABLE REFERENCE

To Johannesburg Water (SOC) Ltd

I, the undersigned being duly authorized to do so, hereby furnish a reference to Johannesburg Water relative to the **Bulk Wastewater Condition Monitoring**

Name of Tenderer:

Description of service provided

.....
.....
.....
.....

Duration: Year-Month-Day when the Goods / Services were provided.....

Contract/Project Value:

Name of authorised person:

Signature:**Date**

Telephone/Mobile:

Email:

Completed on behalf (Name of Client)

NB: This document must be completed by the referee and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with the functional criteria requirements. A separate form must be completed for each reference as required in the evaluation criteria. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.

Directors:

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Johannesburg Water SOC Ltd
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Name of Tenderer:

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.....
.....
.....
.....

Duration: Year-Month-Day when the Goods / Services were provided.....

Contract/Project Value:

Name of authorised person:

Signature:**Date**

Telephone/Mobile:

Email:

Completed on behalf (Name of Client)

NB: This document must be completed by the referee and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with the functional criteria requirements. A separate form must be completed for each reference as required in the evaluation criteria. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.

CONTACTABLE REFERENCE

Directors:

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To Johannesburg Water (SOC) Ltd

I, the undersigned being duly authorized to do so, hereby furnish a reference to Johannesburg Water relative to the **Bulk Wastewater Condition Monitoring**

Name of Tenderer:

Description of service provided

.....
.....
.....
.....

Duration: Year-Month-Day when the Goods / Services were provided.....

Contract/Project Value:

Name of authorised person:

Signature:**Date**

Telephone/Mobile:

Email:

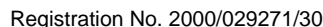
Completed on behalf (Name of Client)

NB: This document must be completed by the referee and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with the functional criteria requirements. A separate form must be completed for each reference as required in the evaluation criteria. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.

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Provide separate forms for each key personnel as per the position listed in the form:

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

Signature of person named in the schedule

.....
Date

Directors:

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20.3.3. Bidders are required to meet a minimum of 60 points on the functionality evaluation and their workshop evaluation is found to be compliant to be further evaluated on the preference points. Bidders that do not meet a minimum of 65 points will be disqualified and will not be evaluated further.

20.4. Stage 3: The responses will be evaluated on the **80/20 preference point's principle**. 80 Points Price and 20 Points Specific Goals. Pricing schedule to be completed fully by the bidder. Bidders who failure to quote or complete the pricing schedule as per this requirement will be disqualified.

The required proof for claiming points for specific goals is as follows:

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)	Number of points claimed. (80/20 system) (To be completed by the tenderer)
Business owned by 51% or more –Women	10	
SMME (EME or QSE) owned by 51% or more - Black People	10	
Total	20	

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SPECIFIC GOALS – ANY ONE OR A COMBINATION OF ANY	MEANS OF VERIFICATION THAT MUST BE SUBMITTED OR A COMBINATION THEREOF TO PROVIDE POINTS CLAIMED
Business owned by 51% or more-Women	<ul style="list-style-type: none"> Valid construction sector BBBEE Certificate issued by SANAS accredited verification agency or construction sector Affidavit sworn under oath, OR CIPC registration document showing percentage of ownership and share certificate where applicable ID copy
SMME (EME or QSE) owned by 51% or more - Black People	<ul style="list-style-type: none"> Valid construction sector BBBEE Certificate issued by SANAS accredited verification agency or construction sector Affidavit sworn under oath, OR CIPC registration document showing percentage of ownership and share certificate where applicable ID copy

Note: A tenderer failing to submit proof of specific goals claimed as per the tender conditions may not be disqualified but only points for price will be allocated and zero points for specific goals.

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21. AWARDING STRATEGY

This request for pricing will be awarded to the highest scoring bidder for the category in terms of price and points scored for specific goals.

22. RETURNABLE DOCUMENTS

The following documents **must** be returned together with this Request for Pricing:

- 22.1. This request for pricing document must be completed and submitted with pricing or quotation.
- 22.2. Proof of points claimed for specific goal must be submitted in order to qualify for Specific Goals points.
- 22.3. Complete and sign the following Municipal Bidding Documents (MBD).
 - 22.3.1. MBD 3.1 Firm Price(s) Purchase
 - 22.3.2. MBD 4 form (Declaration of Interest).
 - 22.3.3. MBD 6.1 Form (Preference points claim form).
 - 22.3.4. MBD 8 (Declaration of Bidder's Past Supply Chain Management Practices)
 - 22.3.5. MBD 9 (Certificate of Independent Bid Determination).
- 22.4. Latest municipal account/statement not older than three months or valid lease agreement for both the company and all active Directors.
- 22.5. The required documentary evidence for functionality or technical evaluation (where Applicable).
- 22.6. CIDB Certificate

23. GENERAL TERMS AND CONDITIONS

Price(s) quoted must be valid for ninety (90) days from date of your offer.

Price(s) quoted **must** be **firm for the duration of the contract** and must be exclusive of VAT.

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Bidders will be afforded a period of two (2) days to complete the following returnable documents (MBD 4, MBD 8 and MBD 9) in instances where such forms are incomplete.

Bidders who did not submit municipal statement of account or valid lease agreement for both the company and all active directors will be afforded a period of two (2) days to submit. In a case where the company or active Directors have municipal commitments overdue for more than 90 days they will be offered three (3) days to settle their overdue amounts or submit proof of an arrangement agreed to between that municipality and that company or Director.

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SPECIAL CONDITIONS

GENERAL

NB The attention of the tenderer is drawn to the fact that General Conditions of Contract (JW13) shall apply, where applicable, to this contract.

1. DEFINITIONS:

- 1.1 That "Johannesburg Water (SOC) Ltd" shall herein after be referred to as "JW".
- 1.2 The "Managing Director" shall mean the Managing Director: Johannesburg Water (SOC) Ltd or his authorised representative.
- 1.3 "Vat" shall mean Value Added Tax in terms of the Value Added Tax Act 89 of 1991 as amended.
- 1.4 "Regional Maintenance Manager" shall mean the JW Maintenance Manager of one of the JW sites or his authorised representative
- 1.5 "Contractor or Service Provider" shall mean the recommended tenderer who has been awarded the tender and has entered into a formal contract with JW upon acceptance of the appointment

2. PRICE:

- 2.1 All prices shall exclude Value Added Tax at the standard rate as gazetted from time to time by the Minister of Finance in terms of the Value Added Tax Act 89 of 1991 as amended

3. CONTRACT PRICE ADJUSTMENT:

- 3.1 A firm price tender must be offered.
- 3.2 All price(s) tendered shall include the cost of all insurances, services, labour, equipment, materials, etc. and be the nett price after all discounts and settlement discount have been deducted. The nett price/s shall be without any extra or additional charges to JW whatsoever.

4. SURETY BOND:

- 4.1 No surety bond shall be required in terms of this contract.

5. COMPLIANCE WITH LEGISLATION:

- 5.1 The Contractor shall comply with all Municipal By-laws, and any other Laws, Regulations or Ordinances and shall give all notices and pay all fees required by the provisions of such By-laws and Regulations specified therein.
- 5.2 The Contractor shall comply with all the requirements prescribed in the technical specification, unless otherwise stated.

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6. SAFETY

- 6.1 Without derogation from the generality of Clause 5.1, or from any other provision of this contract, the Contractor shall comply in all respects with the safety and other requirements of the Occupational Health Safety Act of 1993 and the regulations applicable.
- 6.2 The successful tenderer will be required to attend a compulsory induction at the various JW WWTW's. All personnel working on the contract must attend the induction prior to commencement of work.

7. INSURANCE AND INDEMNIFICATION

- 7.1 In addition to any insurance required to be held by the Contractor in terms of the Occupational Injuries and Diseases Act no.130 of 1993, the Contractor must be fully insured against all accidents, loss or damage arising out of the conditions or operation of the vehicles or execution of any work including all third-party risks. The Contractor hereby indemnifies and agrees to keep indemnified throughout the period of the contract JW against all claims by third parties or the Contractor's own employees resulting from the operations carried out by the Contractor under this contract up until the date of acceptance.
- 7.2 A current certificate of good standing in terms of the Compensation for Occupational Injuries and Diseases Act, 1993 must be furnished by the Contractor within 21 days of notification of acceptance of the tender. Proof of renewal or extension of insurance cover must be furnished by the Contractor whenever required by JW.
- 7.3 The Contractor shall be liable for any damages or injury of whatever nature caused directly or indirectly as a result of his operations, to any of JW's or Municipal Government or Private Property or to his own vehicles and personnel.

8. REMEDIES, BREACH, WHOLE AGREEMENT, WAIVER VARIATION AND INDULGENCES:

- 8.1 If the supplier or any person employed or associated with him or in the case of a Company, a Director or shareholder or person similarly associated with such Company, either directly or indirectly gives or offers to give any gratuity, reward or commission or other bribe to any person in the employ of JW this contract shall be avoidable at the instance of JW.
- 8.2 If the Contractor has not complied with the Managing Director's requirements or if he is in breach of any of the Conditions of this contract and:
- 8.2.1 fails to remedy such breach within 14 (fourteen) days of receipt of written notice requiring it to do so (or if not reasonably possible to remedy the breach within 14 (fourteen) days), within such further period as may be reasonable in the circumstances, provided that the Contractor furnishes

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evidence within the period of 14 (fourteen) days reasonably satisfactory to JW, that it has taken whatever steps are available to it to commence remedying the breach), then the JW shall be entitled, without notice and in addition to any other remedy available to it at law or under this agreement, including obtaining an interdict, to cancel this agreement or to claim specific performance of any obligation whether or not the due date for performance has arrived, in either event without prejudice to JW's right to claim damages.

8.2.2 Should JW elect to cancel the contract then and in such instance a certificate presented by the Managing Director of JW shall constitute proof of the contractor's indebtedness to JW.

8.3 This agreement constitutes the entire agreement between the parties relating to the matter hereof.

8.4 No amendment or consensual cancellation of this agreement or any provision or term hereof or of any agreement, bill of exchange or other document issued or executed pursuant to or in terms of this agreement and no settlement of any dispute arising under this agreement and no extension of the time, waiver or relaxation or suspension of any of the provisions or terms of this agreement or of any agreement, bill of exchange or other document issued pursuant to or in terms of this agreement shall be binding unless recorded in a written document signed by the parties. Any such extension, waiver or relaxation or suspension, which is so given or made, shall be strictly construed as relating to the matter in respect whereof it was made or given.

9. DISPUTES:

9.1 In the event of any dispute arising between JW and the Contractor in connection with or arising out of the contract, it shall be referred to the Managing Director of JW who shall state his decision in writing and give notice of the same to the Contractor within 28 days of the dispute having been submitted to the Managing Director of JW. Such decision shall be binding upon the Contractor subject to clause 9.2.

9.2 Should the Contractor be dissatisfied with the decision of the Managing Director he/she may, within 28 days after receiving notice of such decision, require that the issue or issues be referred to a single arbitrator to be agreed upon between the parties or, failing agreement, to be nominated by the Chairman of the Association of Arbitrators and any such reference shall be deemed to be submission to the arbitration of a single arbitrator in terms of the Arbitration Act, 1965. The award of the arbitrator shall be final and binding on both parties.

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- | | | |
|---|------|---|
| | 9.3 | Not later than one week after receipt of notice calling for arbitration, JW may give notice to the Contractor that the dispute or disputes be settled by Court of Law having jurisdiction. |
| <u>10. SCOPE OF CONTRACT</u> | 10.1 | The Service Provider will be required to provide condition monitoring services as and when required, on certain equipment at the various wastewater treatment works. |
| <u>11. WORKING HOURS</u> | 11.1 | The services will be required on an as-and-when basis and the services might be required during the normal working hours (07H00 to 15H30) or after hours (including weekends and public holidays). |
| <u>12. ON-SITE TRAINING/ DEMONSTRATION</u> | 12.1 | Where required, the tenderer must be able to demonstrate the equipment offered, including any or all of the methodologies offered, as well as computer software. |
| <u>13. VALIDITY OF TENDER:</u> | 13.1 | The Tender shall be valid for a period of 90 days from the date of closing of Tenders. |
| <u>14. ADJUDICATION OF TENDERS:</u> | 14.1 | The highest, lowest or any tender will not necessarily be accepted by JW. JW reserves the right to adjudicate the Tender to its best interest and it is not necessarily intended to award the contract to only one Contractor. Johannesburg Water reserves the right to reduce the number of installations without any justification. |
| | 14.2 | JW may inspect the premises of the tenderers for the purpose of adjudication. |
| <u>15. ACCEPTANCE OF TENDER:</u> | 15.1 | A valid and binding contract will be concluded at the time that JW OF posts a letter of acceptance of this tender to the tenderer by registered post, to the postal address stated on the Tender Form and the contractor signs a "Contract document" at the JW Head Office. |
| <u>16. OPERATING INSTRUCTION MAINTENANCE</u> | 16.1 | The tenderer must be able to prove that there are sufficient suitably qualified technicians available in the Gauteng area. |
| <u>17. WARRANTY</u> | 17.1 | All relevant systems repaired and maintained under this contract will carry a ninety (90 days) warranty on repairs and workmanship and a twelve (12) month guarantee on any hardware supplied by the Service Provider. |

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18. DURATION:

- 18.1 The tenure of the contract shall be with effect from the date of signing the contract for a period of nine (09) months.

**19. PENALTIES
FOR DEFECTIVE
QUALITY**

- 19.1 In the event that the contractor does not meet the specified Support Response Times, Johannesburg Water reserves the right to deduct 20% off their invoice and retain the remaining payment due to the contractor until the matter is appropriately resolved. In the event that the contractor does not meet the specified Support Response times, Johannesburg water reserves the right to contact another contractor to resolve any outstanding issues regarding any poor performance by the contractor at the cost of the contractor.
- 19.2 If negligence on the part of the contractor can be established by JW, JW reserves the right to issue a written warning that must be appropriately attended to and reported on within 15 calendar days. Should JW not receive or accept this written resolution, then JW reserves the right to terminate the contract with 10 calendar days' notice. Any expenditure due to loss of data and/or damage to system hardware will then be claimed against the contractor.
- 19.3 Exclusions - Some activities / incidents regarding the services required are out of the control of the contractor and therefore the response times to repair these types of failures must be evaluated on an individual basis:
- 19.3.1 Vandalism/theft (proof of occurrence required i.e. case number from SAPS) Lightning Storm damage (Natural Phenomena) JW spare issue delays due to no stock Electrical supply failures longer than 48 hours per site and per incident.

20. ADDITIONAL

- 20.1 Any additional information may be obtained from Sthembile Dladla on 011 510 2602 or Thabiso.thabeng@jwater.co.za

21. NOTICE

- 21.1 Any notice or communication required or permitted to be given in terms of this agreement shall be valid and effective only if in writing and may be given in one or more of the following manners:-
- 21.1.1 Sent by prepaid registered post (by airmail if appropriate) in an envelope correctly addressed to it at an address chosen as its *domicilium citandi et executandi* to which post it is delivered, in which event such notice shall be deemed to have been received on the 7th (seventh) business day after posting (unless the contrary is proved); or
- 21.1.2 Delivered by hand to a responsible person during ordinary business hours at the physical address chosen as its *domicilium citandi et executandi*, in which event such notice

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shall be deemed to have been received on the day of delivery; or

21.1.3 Sent by telefax to its chosen telefax number stipulated in 16.1, in which event such notice shall be deemed to have been received on the date of dispatch (unless the contrary is proved).

21.2 notwithstanding anything to the contrary herein contained a written notice or communication actually received by a party shall be adequate written notice or communication to it notwithstanding that it was not sent to or delivered at its *domicilium citandi et executandi*.

PART B

TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE SUBMITTED BY THE STIPULATED TIME . LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR ONLINE**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.
- 2.4 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN

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PART B:3.

2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.

2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.

2.7 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.

3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?

☐ YES ☐ NO

3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA?

☐ YES ☐ NO

3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?

☐ YES ☐ NO

3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?

☐ YES ☐ NO

3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?

☐ YES ☐ NO

IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.

GENERAL CONDITIONS OF CONTRACT (GCC) WILL BE APPLICABLE TO THIS RFP.

NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:

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PRICING SCHEDULE – FIRM PRICES (PURCHASES)

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of Bidder.....	Bid Number.....
Closing Time	Closing Date

OFFER TO BE VALID FOR 90 DAYS FROM THE CLOSING DATE OF BID.

ITEM NO.	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY **(ALL APPLICABLE TAXES INCLUDED)
----------	----------	-------------	--

-
- Required by:
 - At:
 - Brand and Model
 - Country of Origin
 - Does the offer comply with the specification(s)? *YES/NO
 - If not to specification, indicate deviation(s)
 - Period required for delivery
*Delivery: Firm/Not firm
 - Delivery basis

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

** "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable

SIGNATURE(S) OF AUTHORIZED PERSON

DATE:

**Name of
bidder.....
.....**

Name of authorized person (in block letters)

MBD 4

DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state¹.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.

3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

3.1 Full Name of bidder or his or her representative:.....

3.2 Identity Number:

3.3 Position occupied in the Company (director, trustee, hareholder²):.....

3.4 Company Registration Number:

3.5 Tax Reference Number:.....

3.6 VAT Registration Number:

3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.

3.8 Are you presently in the service of the state? **YES / NO**

3.8.1 If yes, furnish particulars.

.....

¹MSCM Regulations: "in the service of the state" means to be –

- (a) a member of –
 - (i) any municipal council;
 - (ii) any provincial legislature; or
 - (iii) the national Assembly or the national Council of provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.

² Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

3.9 Have you been in the service of the state for the past twelve months?**YES / NO**

3.9.1 If yes, furnish particulars.....

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.10.1 If yes, furnish particulars.

.....
.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.11.1 If yes, furnish particulars

.....
.....

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.12.1 If yes, furnish particulars.

.....
.....

3.13 Are any spouse, child or parent of the company's directors trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.13.1 If yes, furnish particulars.

.....
.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract. **YES / NO**

3.14.1 If yes, furnish particulars:

.....
.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number

.....
Signature

.....
Date

.....
Capacity

.....
Name of Bidder

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included).

1.2 The applicable preference point system for this tender is the 80/20 preference point system.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- a) Price; and
- b) Specific Goals.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1 POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 PREFERENCE POINT SYSTEMS

A maximum of 80 points is allocated for price on the following basis:

80/20

$$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

Where

P_s = Points scored for price of tender under consideration

P_t = Price of tender under consideration

P_{min} = Price of lowest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in Table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)	Number of points claimed (80/20 system) (To be completed by the tenderer)
SMME (EME or QSE) owned by 51% or more - Black People	10	
Business owned by 51% or more –Women	10	
Total	20	

5. DECLARATION WITH REGARD TO COMPANY/FIRM

5.1 Name of company/firm.....

5.2 Company registration number:

5.3 TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

5.4 I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct.
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a

result of that person's conduct;

- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
- (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
 - b. been convicted for fraud or corruption during the past five years;
 - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p>The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

CERTIFICATION

**I, THE UNDERSIGNED (FULL NAME)
CERTIFY THAT THE INFORMATION FURNISHED ON THIS
DECLARATION FORM TRUE AND CORRECT.**

**I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT,
ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION
PROVE TO BE FALSE.**

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of:_____that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and

- (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
- 6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
- 7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
- 8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder