

 <p>RAND WATER</p>	<p>QUALITY MANAGEMENT SYSTEM</p> <p>SCOPE OF WORK</p>	<p>Form No: SAM DO 00001 T</p> <p>Revision No: 02</p> <p>Effective Date: November 2022</p>
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SCOPE OF WORK FOR:

PROVISION OF NON-DESTRUCTIVE TESTING FOR VARIOUS RAND WATER PROJECTS FOR THE DURATION OF 60 MONTHS

RFP Number: RW 10403094/25 : PACKAGE G- Factory Acceptance Testing for various System Components

DATE: 9 December 2024

PROJECT MANAGER: LORRAINE HUHLWANE

TEAM MEMBERS

Name	Discipline
Lorraine Huhlwane	Project Manager
Chandisaita Tumbare -Sanele Mkhize	Design Office
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1 SCOPE OF WORK

1.1 Provision of Non-Destructive Testing

1.1.1 The Service Provider shall supply qualified and skilled resources to perform the tests and inspections to assure the quality of works.

The following resources must be supplied

Resources	Minimum Qualification	Experience
Mechanical Inspector /Technician	NDip Mechanical Engineering qualification from a recognized institution	5 years' experience with Diploma or 10 years' experience without diploma Registration with ECSA as a candidate

2 SAFETY, HEALTH AND ENVIRONMENT

2.1.1 The contractor shall Prepare and submit the Health and Safety File (hard and soft copies) prior to execution

2.1.2 The contractor shall submit the

2.1.3 The contractor shall provide a Storage facility for equipment & consumables

2.1.4 The contractor shall provide and manage the Hygiene Facility

2.1.5 The contractor shall manage the hazardous waste and provide the hazardous waste bin

2.1.6 The contractor shall barricade the area in operation

2.1.7 The contractor shall provide the safety signages

2.1.8 The contractor shall provide Personal Protective Equipment (PPE)

2.1.9 The contractor shall provide the employee wellness program

2.1.10 The contractor to make Provision and Management of Pandemic

3 QUALITY ASSURANCE

3.1.1 Quality Management Plan

The contractor shall develop, implement, and maintain a formal quality management system that conforms to the latest ISO 9001 standard or any applicable standard of quality management system (latest applicable revision) and in accordance with the requirements of this specification.

Such a formal system shall consist of the appropriate documentation such as a quality manual, quality plans, work procedures, work instructions, method statements, workflow

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documentation, etc. This requirement constitutes the most basic quality management system requirements.

3.1.2 **Quality Control Plan/Inspection and Test Plan**

The contractor shall submit the Quality Control Plan within 14 days prior to the commencement of work, for review and approval by Rand Water.

3.1.3 **Document Management**

- a) The contractor shall ensure that all documents are accessible and readily available.
- b) Documents to be managed not limited to the following: Method Statements, Tests and Inspection plans as well as Drawings.
- c) Any changes to the working documents must be recorded.

3.1.4 **Record Management**

- a) The contractor shall control and manage the project information not limited to: Test results, daily diaries, method statements, Non-conformances, concessions, drawings, Training records, etc.
- b) All documented information should form part of the data pack to be submitted on project completion. Rand Water requires 3 copies i.e., 1 hard copy and 2 soft copies.

3.1.5 **RESOURCE MANAGEMENT**

People

Contractor shall provide qualified and skilled resources needed to monitor the quality of works as requested.

Materials, products, and services

The contractor shall ensure that all materials used conform to the specifications and the material certificates must be kept for record.

Equipment

The contractor shall supply all the equipment/instruments required in the Contract documents to perform the specified quality inspection services.

The supplied equipment/instruments shall be calibrated by the SANAS accredited bodies, and the calibration certificate shall be kept for the duration of the project.

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3.1.6 Training

The contractor shall provide training to personnel who perform activities that affect quality of works.

- a) All personnel who perform quality activities shall have their training needs identified and documented. The required training shall be implemented in accordance with the company's training management and competency control procedures. All the training certificates shall meet the SETA requirements in terms of having the unit standard completed and the accreditation number of the service providers.

4 PROJECT OBJECTIVES

- a) Inspection and testing in a reliable, safe, and cost-effective manner without the need to shut operations down, lose income or damage any of the equipment.
- b) Detect, identify and/or measure the presence of anything that could damage a component, such as corrosion or cracks.

5 DELIVERABLES

DELIVERABLES BY THE CONTRACTOR

The service provider shall be responsible for the following pertinent deliverables in terms of this scope of work, bill of quantities, applicable standard specifications, applicable system requirements, industry standards, technical specifications and the contract document:

- Factory Acceptance Testing (FAT) of Pumps, Valves, and other components
- Testing and Inspection reports
- Lesson Learnt report
- Data pack at handover

6 PROJECT CONSTRAINTS

The following are the constraints for the project:

- a) Fatigue caused by human error.
- b) Flaws caused by incorrect technique or setup in how the weld was created.