


<b>Requesting Office:</b> Magalies Water Head Office	
<b>Contact Person:</b> <b>Gomolemo Motloung</b>	
<b>Contact Numbers:</b> 014 597 4636	
<b>Facsimile:</b>	<b>RFQ-10013439</b>
<b>E-mail address:</b> <a href="mailto:gomolemom@magalieswater.co.za">gomolemom@magalieswater.co.za</a>	

DATE ISSUED: **16 SEPTEMBER 2020**

CLOSING DATE: **29 SEPTEMBER 2020**

PLACE OF DELIVERY: **MAGALIES WATER HEAD OFFICE, 38 HEYSTEK STREET RUSTENBURG**

For More information/query email: [gomolemom@magalieswater.co.za](mailto:gomolemom@magalieswater.co.za) or call 014 597 4636

Item No.	Description/Specification	QUANTITY
1.	<p><b><u>REQUEST FOR QUOTATION</u></b></p> <p>Design, Development, installation and commissioning of an effective and efficient onsite technology for human waste management</p> <p>Compulsory briefing:- Date: 21 September 2020 Time: 12H00 Location : Kwa Mocha Primary School, Maubane, Hammanskraal, Northwest Province Contact person: Mr. Ramotse Mogale and Mr. Tshiamo Mpane</p> <p>SEE ATTACHED ANNEXURE A FOR SCOPE OF WORK</p>	1


1. Submission of Quotations

**RFQ Number** must always be stated on the quotation.

Quotations should be submitted on or before the Request for Quotation Deadline Date and Time: 12H00 to the email below Email:  
[gomolemom@magalieswater.co.za](mailto:gomolemom@magalieswater.co.za)

2. **Selection of Qualifying Quotation**

The selection of the qualifying quotation will be at Magalies water's sole discretion. Magalies Water does not bind itself to accept any particular Quotation

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### 3. Evaluation

Quotations will be evaluated in terms of the PPPFA using the 80:20 Preference point systems. The quotation will be checked for responsiveness according to the **REQUIREMENTS:**

Valid certified B-BBEE Certificate/ Sworn affidavit  
 Quotation must be valid for 90 days  
 Completed and signed Declaration of Interest Form (SBD4)  
 Quotations to include banking details, physical address, and date  
 All non-responsive bids will be rejected.

### 4. Terms & Conditions


Quotations received after the closing date will not be accepted.  
 All costs to be included in the quotation.  
 Delivery must take place at the specified place.  
 Quotations validity should be for 90 days.

## **ANNEXURE A: SCOPE OF WORK**

### 1. Introduction

Magalies Water Board seeks to employ a Professional Service Provider to carry out Planning, Studies, Investigations and Assessments phase to precede the other "Normal Services" as set out in the Engineering Professions Act of 2000 (Act No. 46 of 2000).

Magalies Water intends to initialize a project to Development, installation and commissioning of an onsite technology for human waste management.

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## 2. Objectives

The Primary objective and high level scope of work for Professional Service Provider is to:


- Design, propose septic tank
- Deliver procurement documentation ( not limited to; the scope of works, specification, evaluation criteria etc.) derived from carefully studying previous documentation and by conducting site visits
- Provide site supervision

The solutions recommended shall be based on the most current industry best practices for similar CP installation and shall be in compliance to the industry standards.

## 3. Scope of Work

Design, Development, installation and commissioning of an effective and efficient onsite technology for human waste management at a specified school. The school has a septic tank that require frequent desludging at specified time intervals, albeit the leaking assumptions that are presumed to be the cause of groundwater contamination. As such, we have opted to develop an onsite technology that can be used for onsite human waste management. The primary aim will be to curtail health and ecological impacts associated with septic tank and odors. Furthermore, beneficiation and valorization of waste emanating from the process for miscellaneous activities such as re-flushing, gardening and other defined practices seem to be an attractive option to the proponent. The system should be compatible to the school sanitation system, user friendly, less sophisticated, and cheap to maintain. The quotation should also capture the following technical aspects:

- Brief overview of the technology and processes therein.
- Techno-economic analysis of the proposed technology.
- The efficacy of the technology and its capacity per capita
- Certificate of analysis for constituents in product water and their suitability for other defined uses as highlighted in the department of water affairs and forestry (DWAF) guidelines for irrigation purposes.
- Degree of compliance to latest general and special discharge limits, waste classification standard and the field guides in term of irrigation.
- Presented results and findings should be from SANAS accredited laboratories. A certificate of analysis (COA) will be crucial on this regard.
- Authorizations in terms of the NEMA regulation (Act 107 of 1998).
- Implementation plan, scope of work (SoW), and management modalities

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- SOP of the technology and its environmental footprints.
- Costs for assessing the existing septic tank. This exercise will require a technical report, which should include economic viable recommendations.
- Viable routes for valorization and beneficiation of product substances.
- Safety health and environment (SHE) plan for the construction phase of the project.

#### 4. Deliverables

##### Stage 1 –Inception

- I. Agreed services and scope of work.
- II. Signed agreement.
- III. Report on project, site and functional requirements.
- IV. Schedule of required surveys, tests, analyses, site and other investigations.
- V. Schedule of consents and approvals and related lead times.

##### Stage 2 – Concept and Viability (also termed Preliminary Design)


- I. Concept design.
- II. Schedule of required surveys, tests and other investigations and related reports.
- III. Process design.
- IV. Preliminary design.
- V. Cost estimates as required

##### Stage 3 – Design Development (also termed Detail Design)

- I. Design Cathodic development drawings.
- II. Outline specifications.
- III. Local and other authority submission drawings and reports.
- IV. Detailed estimates of construction costs.

##### Stage 4 – Documentation and Procurement

- I. Specifications.
- II. Services co-ordination.
- III. Working drawings.
- IV. Budget construction cost.
- V. Tender documentation.

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- VI. Tender evaluation report.
- VII. Tender recommendations.
- VIII. Priced contract documentation


Stage 5 – Contract Administration and Inspection

- I. Schedules of predicted cash flow.
- II. Construction documentation.
- III. Drawings register.
- IV. Estimates for proposed variations.
- V. Contract instructions.
- VI. Financial control reports.
- VII. Valuations for payment certificates.
- VIII. Progressive and draft final account(s)
- IX. Practical completion and defects list
- X. All statutory certification and certificates of compliance as required by the Local and other Statutory Authorities

**Level 2: Part-time Construction Monitoring:** PSP to conduct Regular site visit once a week, or according to the demands of the project.

Stage 6 – Close-Out

- I. Valuations for payment certificates
- II. Works and final completion lists
- III. Operations and maintenance manuals, guarantees and warranties
- IV. As-built drawings and documentation
- V. Final accounts


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## 5. Price Proposal

No.	ITEM	AMOUNT
<b>A</b>	<b>Professional fees</b>	
1	Inception	R
2	Concept and Viability	R
3	Detail design	R
4	Tender documentation.	R
5	Construction Administration	R
6	Close-out Report	R
<b>B</b>	<b>Disbursements</b>	
1	Utilisation of specialised Equipment (Specify):	R
2	Outsourced Specialist Studies (Specify):	R
3	Traveling	R
4	Site supervisory staff (Level 2 Monitoring)	R
5	Disbursements (printing, copying, scanning) Including 30 Tender Documents	R
	<b>VAT 15%(A+B)</b>	<b>R</b>
	<b>Total Cost Estimate</b>	<b>R</b>

### 5.1 Project Payments

The project components will be completed progressively, the milestones against which project progress can be monitored will be paid upon completion of such milestones from Stage 1 to Stage 6.

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## 6. Project Timelines

The project from Inception up to Commissioning of Refurbishment Works should be completed within months (8) months.

## 7. Project Contract

The contract to be used for this RFQ will be the MAGALIES WATER Service Level Agreement (SLA), which will be a binding contract between MAGALIES WATER and the successful PSP. All penalties for non-performance will be set out in the Service level agreement.


## 8. RFQ Evaluation

Submitted RFQ's will be assessed based on the following:

The RFQ evaluation method for the evaluation of all responsive Quotation offers will be Method 2: Functionality, Price and preference.

### 8.1 Mandatory Requirements


- 8.1.1 Bidder attended the compulsory briefing
- 8.1.2 Submit a Valid certified B-BBEE Certificate/ Certified Sworn Affidavit
- 8.1.3 Completed and signed declaration of Interest Form (SBD4)
- 8.1.4 State CSD Vendor number on the quotation
- 8.1.6 Quotation should state the date, physical address, banking details, and contact details
- 8.1.6 The quotations will be evaluated in terms of the PPPFA using the 80:20 Preference point systems.
- 8.1.7 PM should have Pr. Eng/Tech –Civil, ECSA.
- 8.1.8 A project team member should have Pr. Sci. Nat. Environmental or chemical

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## 8.2 Functionality Criteria

No.	Technical / Functional Requirements	Weight
1.	<p>Previous experience of similar task / Company proven track record of quality on design, construction <b>experience of design/construction of septic tanks or human waste management systems</b> completed.</p> <ul style="list-style-type: none"> <li>✓ Previously supervised projects of value R 300 000 per project or more shall be considered.</li> <li>✓ Schedule of Company experience to be attached together with practical completion letters, final completion letters of previous projects as evidence from clients, failure to submit such will result in zero (0) points allocated.</li> </ul>	<b>30 Points</b>
	<ul style="list-style-type: none"> <li>◦ 5 or more similar assignments / projects <i>30 points</i></li> <li>◦ 3 - 4 similar assignments / projects <i>25 points</i></li> <li>◦ 1 - 2 similar assignments / projects <i>10 points</i></li> <li>◦ 0 projects <i>0 points</i></li> </ul>	
2.	<b>Qualifications and experience of Key Personnel</b>	<b>35 Points</b>
3.	<p>Professional qualification of <b>Lead Engineer</b>.</p> <ul style="list-style-type: none"> <li>✓ A <b>Lead Engineer</b> with a Bachelor of Science Degree in Civil Engineering or Bachelor of Technology Degree in Civil Engineering or National Diploma in Civil Engineering.</li> <li>✓ Professional registration with Engineering Council of South Africa (ECSA) as Pr. Eng. or Pr. Tech Eng. Pr. Techni.</li> <li>✓ Please attach Copies of Certificates and Qualification.</li> </ul>	<b>10 points</b>




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<b>Evaluation of Lead Engineer Qualification</b>		
Proof of Qualifications <b>and</b> Professional Registration for <b>Lead Engineer</b> to be attached	15 points	
No Proof of Qualifications and/or Professional Registration	0 points	
<b>Lead Engineer</b> experience. <ul style="list-style-type: none"> <li>✓ Should demonstrate capacity in terms of experience on similar projects related to <b>experience of design/construction of septic tanks or human waste management systems</b> completed.</li> <li>✓ Please attach Comprehensive CV to be attached.</li> </ul>		<b>10 Points</b>
<b>Evaluation of Lead Engineer Experience</b>		
◦ No CV attached	0 points	
◦ 1 – 5 Years of experience	5 points	
◦ 6< Years of experience	10 points	
Professional qualification of <b>Scientist</b> . <ul style="list-style-type: none"> <li>✓ A <b>Scientist</b> with a with a Bachelor of Science Degree/ Bachelor of Engineering in Chemical Engineering/ Analytical Engineering/ Environmental Studies or Bachelor of Technology Degree in Chemical Engineering/ Analytical Engineering/ Environmental Studies</li> </ul>		<b>5 Points</b>

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	<ul style="list-style-type: none"> <li>✓ Professional registration with SACNASP Pr. Sci. Nat. Environmental or Chemical.</li> <li>✓ Please attach Copies of Certificates and Qualification.</li> </ul> <p><b>Evaluation of Scientist Qualification</b></p> <table border="1"> <tr> <td>Proof of Qualifications <b>and</b> Professional Registration for site agent to be attached</td> <td>5 points</td> </tr> <tr> <td>No Proof of Qualifications and/or Professional Registration</td> <td>0 points</td> </tr> </table>	Proof of Qualifications <b>and</b> Professional Registration for site agent to be attached	5 points	No Proof of Qualifications and/or Professional Registration	0 points					
Proof of Qualifications <b>and</b> Professional Registration for site agent to be attached	5 points									
No Proof of Qualifications and/or Professional Registration	0 points									
	<p><b>Scientists Experience</b></p> <ul style="list-style-type: none"> <li>✓ Should demonstrate capacity in terms of experience on similar projects related to <b>experience of design/construction of septic tanks or human waste management systems</b> completed.</li> <li>✓ Please attach Comprehensive CV to be attached.</li> </ul> <p><b>Evaluation of Scientists Experience</b></p> <table border="1"> <tr> <td>◦ No CV attached</td> <td>0 points</td> </tr> <tr> <td>◦ 1 – 4 Years</td> <td>4 points</td> </tr> <tr> <td>◦ 4 – 10 Years</td> <td>6 points</td> </tr> <tr> <td>◦ 10 and above</td> <td>10 points</td> </tr> </table>	◦ No CV attached	0 points	◦ 1 – 4 Years	4 points	◦ 4 – 10 Years	6 points	◦ 10 and above	10 points	<b>10 Points</b>
◦ No CV attached	0 points									
◦ 1 – 4 Years	4 points									
◦ 4 – 10 Years	6 points									
◦ 10 and above	10 points									
<b>4.</b>	<p><b>Proposed Schedule/ Programme</b></p> <ul style="list-style-type: none"> <li>✓ Bidder to attach a high level schedule in Microsoft Project format or similar to demonstrate capacity to plan project</li> </ul>	<b>10 Points</b>								

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	activities within stipulated timeframes from appointment to commissioning.	
	◦ No Gants Chart attached	0 points
	◦ Proposed schedule is within (8 months) client's expectations	5 points
	◦ Proposed schedule is within (8 months) client's expectations. Schedule indicates project critical path, resources utilisation.	10 points
5.	<b>Company Affiliations and accreditations</b>	<b>15 Points</b>
	Company Registered with CESA, Proof of registration attached	5 points
	Company Register ISO 9001: Quality Management Systems, Proof of Registration Attached	10 points
6.	<b>Method Statement</b>	<b>10 Points</b>
	No method statement attached	0 points
	Method statement not detailed indicating processes relating to <b>septic tanks or human waste management systems</b>	5 points
	Method statement detailed indicating processes relating to <b>septic tanks or human waste management systems</b>	10 points

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	<b>Total points</b>	<b>100</b>
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### 8.3 Functionality Criteria

The following preference point systems are applicable:

The 80/20 system for requirements with a Rand value of up to R50 000 000

Points for this bid shall be awarded for:

- (a) Price
- (b) B-BBEE Status Level of Contributor.

The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

### 9. Compulsory Briefing Date

Date : 21<sup>st</sup> of September 2020

Time : 12h00

Location : Kwa Mocha Primary School, Maubane, Hammanskraal, Northwest Province