



ANNEXURE A

SPECIFICATION FOR THE APPOINTMENT OF A SERVICE PROVIDER TO CONDUCT GROUND WATER MONITORING FOR A PERIOD OF THREE (03) YEARS AT THE PORT OF RICHARDS BAY

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A. PURPOSE

- The purpose of specification is to appoint a reputable and independent environmental service provider to undertake groundwater assessment within the identified borehole's locations at the Port of Richards Bay for a period of three (03) years.
- Groundwater is a major source of water supply for drinking, and it is also a vital element of groundwater dependent ecosystems such as wetlands therefore it is important to monitor the health and sustainability of our groundwater.
- Quotation is hereby requested by Transnet National Ports Authority (TNPA) Port of Richards Bay from competent service providers to conduct a ground water assessment within the Port.
- The appointed service provider will be required to commence work within a reasonable and agreed time to ensure the exercise add value to what the port intends to do.

B. BACKGROUND AND INTRODUCTION

- Transnet National Ports Authority Port of Richards Bay has identified nine (09) boreholes locations to monitor the contaminants caused by its operational activities and those of the tenants in the port.
- Various tenants within the Port hold groundwater permits, therefore they are required by law to ensure compliance with regards.
- In response to contamination and in fulfilment of its obligation as the landlord TNPA as has the responsibility to ensure compliance by ensuring that the port activities including those of the tenants does not pose risk to the environment

C. THE OBJECTIVES OF THIS MONITORING PROGRAM ARE TO:

- Conduct sampling of groundwater from the nine (09) groundwater boreholes located within the Port of Richards Bay.
- Identify and keep track of the contaminants found within the port vicinity and be able to identify where the sources are in the port of Richards Bay.

D. SCOPE OF WORK

The service provider will be required to carry-out the following elements:

- The water quality analysis should monitor any potential industrial sources of groundwater contaminants within the port.
- Conduct laboratory analysis of the groundwater samples to determine the quality of groundwater as per the SANS 241:2011, South African National Standard for Drinking Water (2011), South African Water Quality Guidelines for Coastal Marine Waters and any other relevant code, standards or legislative requirements regulating the groundwater quality.
- The service provider will be required to only provide TNPA with laboratory results with exceedance limits as per relevant regulation standards.

BOREHOLES INFORMATION

- Boreholes to be sampled will be identifiable as per the pictures below. It must be noted that vegetation around the boreholes will be cleared a week before monitoring in order to ensure that access to the boreholes is not impeded.



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- The details of the boreholes are as follows:
 - The depth of the boreholes is between 20m and 44m
 - Each borehole is a 140mm (diameter) perforated/slotted casing for the full depth of the primary aquifer to allow sampling at any level. Slots are less than 0.5mm
 - The static water level is between 1.1m and 3.85m
 - The top of each borehole casing is capped with a steel pipe and with locking cap surrounded by a concrete plinth as shown on figure 1 & 2 below.
 - The top of the borehole is fitted with a 1m section of stainless-steel pipe with a lockable cap and a concrete slab cast around the borehole for protection.

- The map below shows the location of the boreholes where samples will be taken from. If required, the service provider will be accompanied by environmental department personnel to show where the boreholes are located.

- The GPS coordinates for boreholes have also been included in the table below.



Figure 2: Shows the location of the monitoring boreholes

BOREHOLES NUMBER/LOCATION	GPS COORDINATES
GMW1 (Behind Bidvest Tank Terminals)	28.485728 South, 32.41629 East
GMW2 (Behind Bidvest Tank Terminals)	28.485942 South, 32.4689 East
GMW3 (TNPA Laydown Area)	28.483570 South, 32.43249 East
GMW4 (Vicinity of Grindrod SEA Munye Site)	28.778763 South, 32.025025 East
GMW5 (TNPA West Gate)	28.792685 South, 32.023308 East
GMW6 (Bidvest Tank Terminals Main Gate Entrance)	28.820673 South, 32.060726 East
GMW7 (TNPA East Gate)	28.783705 South, 32.066999 East
GMW8 (Behind Induna Site)	28.783351 South, 32.055203 East
GMW9 (Between Shincel and ULS)	28.782852 South, 32.041985 East

Table 1: GPS Coordinates of the monitoring boreholes

E. MONITORING

- All monitoring wells must be inspected following the wet and dry season to establish any changes as a result of seasonal variation.
- Bi-annual groundwater monitoring and water quality assessments must be carried out in the middle of summer and winter for a **period of 36 months.**

F. TIME OF DELIVERY

- The successful service provider must produce the final deliverables within a timeframe agreed upon with TNPA from the appointment date.

G. INFORMATION TO BE OBTAINED ON SITE

- There will be a session for questions and answers to attend to all issues that need clarity regarding the project.

H. SAFETY REQUIREMENTS

- The Service provider shall comply with all the relevant sections and regulations of the Occupational Health and Safety Act, Act No. 85 of 1993 during the contract period.
- Prior to commencing with the activity, personnel who will be involved in sampling must undergo a SHE induction done by TNPA SHE Department.
- The SHE files for the selected service provider must be submitted 2 weeks prior to the scheduled start of the work to ensure that it is approved on time. The content of the SHE file will be communicated to the awarded service provider by the TNPA Project Manager.

I. GENERAL

- The Service provider shall take out temporary entry permits for all staff working within the port. All costs incurred shall be borne by the Service provider or his/her staff and shall be included in the tendered rates.
- The Service provider must comply with all TNPA, Port of Richards Bay Security requirements while working in the Port.

J. SCHEDULE OF QUANTITIES

NB: Amendments (i.e., additions or deletion of items) in the schedule of quantities table will result in the tenderer being disqualified.

Detailed Schedule of Quantities attached as Annexure C

SCHEDULE OF QUANTITIES ASPECT AND IMPACT REGISTER				
ITEM	DESCRIPTION	Total Year 1	Total Year 2	Total Year 3
1)	Sampling	R	R	R
2)	Sample Analysis	R	R	R
3)	Analysis Reports	R	R	R
4)	Labour	R	R	R
5)	Professional Cost	R	R	R
	Total			
			Total Year 1 to Year 3 Excl. VAT	
			VAT@15%	
			TOTAL INCLUSIVE OF VAT	

WITNESSES:

1. Contractor:

2..... Date:

WITNESSES:

1..... TNPA:

2..... Date:

K. PRE-QUALIFICATION CRITERIA FOR THE PROVISION OF GROUNDWATER MONITORING SERVICE FOR A PERIOD OF THREE (03) YEARS.

The following documents must be submitted together with the quotation. Provision of insufficient information will result to the quotation being disqualified:

- Valid SACNASP registration for the project leader

EVALUATION CRITERIA

Table below details the information that will be evaluated technically in order to identify a suitable tenderer for the work required to be done in the project. It also gives the scores for each piece of information required.

Model Answer
3 - The bidder fully meets requirements and value adding is extensive
2 - Meets critical requirements
1 - Partially meets requirements
0 - Company cannot meet, high risk

No.	CRITERION	DETAIL	SCORE
1.	Detailed CVs of qualified key team members (Project leader) with Bachelor of Science (BSc) or Diploma Hydrological Science detailing minimum of 5-9 previous work experience in ground water monitoring.	Previous work experience 10 years and above - 30 Previous work experience 5-9 years -24 Previous work experience 1-4 years - 10 No previous work experience provided – 0	30
2.	Provide a full company profile including service rendered, company footprint and organogram.	Company profile includes service rendered, company footprint & organogram – 10 Company profile includes service rendered & organogram – 8 Company profile includes company footprint only – 5 No full company profile provided – 0	10
3.	Bidder must provide a minimum of three (03) signed reference letters on the company's letterhead where similar services have been rendered for the past 5 years, and with proof of SANAS accreditation of the laboratory to be used for sample analysis.	04 or more reference letters with SANAS – 40 03 Reference letters with SANAS – 32 01 -02 Reference letter with SANAS – 10 No reference letter with SANAS submitted – 0	40

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4.	Service provider to provide an emergency plan including emergency contact details and certificate for first aider.	Emergency plan included emergency contact details & certificate for first aider – 10 Emergency plan included certificate for first aider only – 8 Emergency plan included contact details only – 2 Emergency plan not included – 0	10
5.	Provide methodology including work plan with timelines, activities to be done (work procedure) and reporting of laboratory results.	Methodology included work plan with timelines, activities to be done and reporting laboratory results – 10 Methodology included work plan & activities to be done only – 8 Methodology included reporting of laboratory results only – 5 No methodology provided – 0	10
TOTAL			100
<p>The bidder must attain 70 points or more to qualify for commercial evaluation. Failure to attain 70 points will result to an immediate disqualification of application.</p>			