

## SECTION 2.1: SPECIFICATIONS

### TERMS OF REFERENCE – PROVISION OF SERVICES: SAMPLING OF ALL SANITATION AND WATER SUPPLY SYSTEMS IN THE HESSEQUA MUNICIPAL AREA FOR A PERIOD OF THREE (3) YEARS

#### 2.2.1 CONTENTS

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#### 1. INTRODUCTION

Hessequa Local Municipality is a water services authority operating and maintaining water supply schemes and wastewater treatment works. The municipality is responsible for ten wastewater treatment works located at Riversdale, Garcia, Heidelberg, Slangrivier, Witsand, Albertina, Gouritsmond, Still Bay, Jongensfontein and Melkhoutfontein. The municipality is also responsible for Riversdale, Garcia, Albertina, Gouritsmond, Still Bay, Jongensfontein and Melkhoutfontein water treatment works and distribution systems. The Heidelberg Water Treatment Works which also supplies Slangrivier and Witsand is being operated by Overberg Water Board and the municipality is responsible for the distribution system in the three towns. SANS 241:2015 part 1 and 2 forms an integral part of this document

A Service provider is required to provide the professional services necessary to implement this project, which, in terms of the Municipal Finance Management Act, 2003 and the Municipal Supply Chain Management Regulations, 2005, must be procured through a competitive bidding process. The purpose of this document is therefore to invite tenders from suitably qualified and experienced service providers for the Contract: **PROVISION OF SERVICES: SAMPLING OF ALL SANITATION AND WATER SUPPLY SYSTEMS IN THE HESSEQUA MUNICIPAL AREA FOR A PERIOD OF THREE (3) YEARS**, which will be evaluated using a financial offer and preferences based system as described in the tender data. The Hessequa Municipality wishes to enter into a contract with a suitable supplier for a period starting from the date of appointment for a period of three (3) years.

#### 2. BACKGROUND

Hessequa Local Municipality is a Water Services Authority and Water Services Provider and is responsible for water quality in its area of jurisdiction. The requirements for sampling are outlined in government gazette no 26187 dated 26<sup>th</sup> March 2004, under Section 26 of the National Water Act, 1998 (Act No. 36 of 1998).

The municipality is required to provide drinking water complying with SANS 241 and effluent discharge complying with a license issued to each of the waste water treatment works.

#### 3. EMPLOYER'S OBJECTIVE

The Employer's objective is to implement an effective sampling programme for both water supply systems and sanitation systems as outlined in the Green Drop and Blue Drop Systems.

#### 4. Description of the services REQUIRED

The services required comprises of collecting of samples at identified points and analysing them in a registered laboratory compiling a report as outlined below.

	Comply Yes/No	Page of references																																																			
4.1 Wastewater System Monitoring																																																					
Hessequa Local Municipality has 5 oxidation water treatment plants and 5 activated sludge treatment plants. The monitoring points are outlined in the following sections.																																																					
<b>Oxidation Pond Systems</b> The sampling points for oxidation pond systems are summarised in tables 4.1.1 below. Currently there are no boreholes at all the oxidation pond plants, but it is anticipated that they are going to be provided in future.																																																					
<b>Table 4.1.1 WwTW Oxidation Ponds Sampling Points</b>																																																					
<table><tr><th>WwTW</th><th>Class</th><th>License</th><th>Sampling Point 1 Inlet works</th><th>Sampling Point 2 Last Maturation Pond</th><th>Sampling Point 3 Monitoring Borehole</th></tr><tr><td rowspan="2">Gouritsmond</td><td rowspan="2">E</td><td rowspan="2">General</td><td>34°20'33.09"S</td><td>34°20'29.62"S</td><td></td></tr><tr><td>21°52'06.28"E</td><td>21°52'07.16"E</td><td></td></tr><tr><td rowspan="2">Jongensfontein</td><td rowspan="2">E</td><td rowspan="2">General</td><td>34°25'39.56"S</td><td>34°25'39.56"S</td><td></td></tr><tr><td>21°19'33.90"E</td><td>21°19'38.68"E</td><td></td></tr><tr><td rowspan="2">Melkhoutfontein</td><td rowspan="2">E</td><td rowspan="2">General</td><td>34°19'14.09"S</td><td>34°19'18.73"S</td><td></td></tr><tr><td>21°26'19.85"E</td><td>21°26'28.69"E</td><td></td></tr><tr><td rowspan="2">Slangrivier</td><td rowspan="2">E</td><td rowspan="2">General</td><td>34°08'39.39"S</td><td>34°08'42.07"S</td><td></td></tr><tr><td>20°51'58.26"E</td><td>20°51'58.07"E</td><td></td></tr><tr><td rowspan="2">Witsand</td><td rowspan="2">E</td><td rowspan="2">General</td><td>34°22'42.60"S</td><td>34°22'42.81"S</td><td></td></tr><tr><td>20°49'19.11"E</td><td>20°49'22.50"E</td><td></td></tr></table>	WwTW	Class	License	Sampling Point 1 Inlet works	Sampling Point 2 Last Maturation Pond	Sampling Point 3 Monitoring Borehole	Gouritsmond	E	General	34°20'33.09"S	34°20'29.62"S		21°52'06.28"E	21°52'07.16"E		Jongensfontein	E	General	34°25'39.56"S	34°25'39.56"S		21°19'33.90"E	21°19'38.68"E		Melkhoutfontein	E	General	34°19'14.09"S	34°19'18.73"S		21°26'19.85"E	21°26'28.69"E		Slangrivier	E	General	34°08'39.39"S	34°08'42.07"S		20°51'58.26"E	20°51'58.07"E		Witsand	E	General	34°22'42.60"S	34°22'42.81"S		20°49'19.11"E	20°49'22.50"E			
WwTW	Class	License	Sampling Point 1 Inlet works	Sampling Point 2 Last Maturation Pond	Sampling Point 3 Monitoring Borehole																																																
Gouritsmond	E	General	34°20'33.09"S	34°20'29.62"S																																																	
			21°52'06.28"E	21°52'07.16"E																																																	
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Witsand	E	General	34°22'42.60"S	34°22'42.81"S																																																	
			20°49'19.11"E	20°49'22.50"E																																																	
<b>Gouritsmond WwTW</b> The effluent evaporates, therefore the final effluent is to be collected from the last tertiary pond.																																																					
<b>Jongensfontein WwTW</b> The effluent evaporates; therefore the final effluent is to be collected from the last maturation pond.																																																					
<b>Melkhoutfontein</b> The effluent evaporates and has not yet reached the final pond, therefore the final effluent is to be collected from the last maturation containing effluent																																																					
<b>Slang Rivier</b> The effluent is used for irrigation therefore the final effluent is to be collected from the irrigation pond.																																																					
<b>Witsand</b> The effluent in the oxidation ponds evaporates, therefore the final effluent is to be collected from the last maturation pond. Currently it is the facultative pond. The irrigation pond is dry.																																																					
4.1.2 Activated Sludge Systems	Comply Yes/No	Page of references																																																			
There are five activated sludge systems comprising Riversdale, Garcia, Albertina, Still Bay and Heidelberg. The sampling points are shown in table 4.1.2 below.																																																					
<b>Table 4.1.2 Sampling Points for WwTW</b>																																																					

WwTW	Class	License	Raw Sewage Inlet	Process in WwTW		Discharge Point
			Sampling Point 1	Sampling Point 2	Sampling Point 3	Sampling Point 4
Riversdale	C	Special	34°06'47.66"S			34°06'50.08"S
			21°16'52.60"E			21°16'53.70"E
Garcia	D	General	34°01'07.51"S			34°01'08.19"S
			21°34'43.54"E			21°13'43.92"E
Albertina	D	General	34°11'46.92"S			34°11'42.87"S
			21°35'17.69"E			21°35'14.90"E
Still Bay	D	General	34°23'24.61"S			34°23'31.31"S
			21°24'52.61"E			21°24'52.61"E
Heidelberg	D	General	34°06'04.61"S			34°06'06.44"S
			20°58'21.84"E			20°58'21.97"E

#### 4.1.3 Distribution Network

The sampling points in the distribution network are described below:

WwTW	Sampling Points
	Distribution Network
	2 Samples Monthly per point
Riversdale Abattoir	34°09'34.15"S
	21°24'76.25"E
Riversdale Cheese Factory	34°09'13.14"S
	21°24'59.40"E

#### 4.2 Water Supply System Monitoring

##### 4.2.1 Water Treatment Plants

Hessequa Local Municipality has 7 Water Treatment Plants located at Riversdale, Garcia, Albertina, Gouritsmound, Still Bay, Melkhoutfontein and Jongensfontein. Heidelberg, Riversdale, Garcia, Albertina and Still Bay have surface water sources. The sampling points are summarised in the table below:-

**Table 4.2.1 Sampling at Water Treatment Works (surface water supply schemes)**

WwTW	Class	Raw Water Inlet Works	WTW (Final)	Distribution Network
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			Samplin g Point 1	Sampli ng Point 2	Sampling Point 3	Sampli ng Point 4	Sampling Point 5
Riversdale	C		34°06'47. 66"S		34°06'50.0 8"S		34°06'50.0 8"S
			21°16'52. 60"E		21°16'53.7 0"E		21°16'53.7 0"E
Garcia	D		34°01'07. 51"S		34°01'08.1 9"S		34°01'08.1 9"S
			21°34'43. 54"E		21°13'43.9 2"E		21°13'43.9 2"E
Albertina	D		34°11'46. 92"S		34°11'42.8 7"S		34°11'42.8 7"S
			21°35'17. 69"E		21°35'14.9 0"E		21°35'14.9 0"E
Still Bay	D		34°23'24. 61S		34°23'31.3 1"S		34°23'31.3 1"S
			21°24'52. 61"E		21°24'52.6 1"E		21°24'52.6 1"E
Gouritsmond	D						34°05'18.5 2"S
							20°57'24.2 8"E
Jongensfontein							34°08'07.4 8"S
							20°51'46.4 8"E
Melkhoutfontein							34°23'35.0 7"S
							20°51'39.2 1"E

#### 4.2.2 Water Treatment Plants

Gouritsmond, Still Bay, Melkhoutfontein and Jongensfontein have fountains and boreholes as sources of water. The sampling points are summarised in table 4.2.2 below:-

**Table 4.2.2 Sampling at Groundwater Supply Systems**

WwTW	Class	Borehole or Fountain	Sump Before Filtration	Reservoi r	Distribution Network
		Sampling Point 1	Samplin g Point 2	Samplin g Point 3	Sampling Point 4
Still bay	D				34°23'31.31" S
					21°24'52.61" E
Melkhoutfontein	E				34°19'34.16" S
					21°25'09.08"

					E			
Jongensfontein	E	34°25'36"S	34°25'35"S		34°25'34.27"S			
		21°19'37"E	21°19'30"E		21°20'33.18"E			
Gouritsmond	E	34°17'27.07"S		34°20'35.05"S	34°21'19.59"S			
		21°46'49.39"E		21°51'30.68"E	21°52'47.42"E			
Witsand	E	34°05'74.83"S	34°05'74.83"S		34°23'35.07"S			
		20°57'52.61"E	20°57'52.61"E		20°51'39.21"E			
Albertinia	D							

#### 4.2.3 Distribution Network

The sampling points in the distribution network are described in table 4.2.3 below

**Table 4.2.3 Drinking Water Sampling Points in Distribution Network (Currently, may be changed)**

Town	Description	Coordinates	
		Latitude	Longitude
Albertinia	BP Petrol Station - Tap next to pump	34°12'42.43"S	21°35'5.70"E
Albertinia	Theronville Community Hall	34°12'15.26"S	21°34'19.89"E
Albertinia	Albertinia Water Treatment Works	34°12'56"S	21°35'13"E
Gouritsmond	Outside Female Toilet	34°21'19.59"S	21°52'47.42"E
Gouritsmond	Bietouville soccer hall - inside	34°20'50.13"S	21°52'11.36"E
Still Bay	Inside Erf as indicated ext 5	34°21'26.06"S	21°24'46.24"E
Still Bay	Lappiesbaai	34°22'23.48"S	21°25'42.86"E
Stilbaai	Municipal offices - Outside Tap	34°22'38.59"S	21°24'39.85"E
Stilbaai	Olive Grove Water Treatment Works	34°20'25"S	21°24'26"E
Heidelberg	Municipal offices - Outside Tap	34° 5'18.52"S	20°57'24.28"E
Heidelberg	Duivenhoks – Community Hall	34° 6'08"S	20°57'57"E
Heidelberg	Skoolkop Reservoir	34° 5'02"S	20°57'17"E
Jongensfontein	Camping Site - As indicated - Pomp	34°25'34.27"S	21°20'33.18"E
Jongensfontein	Additional – point to be	34°25'34.27"S	

	determined		21°20'33.18"E
Riversdale	Tuinroete Agri - Position as indicated	34° 5'0.80"S	21°15'9.81"E
Riversdale	Water Treatment Works	34° 5'46"S	21°15'09"E
Riversdale	Takkieskloof Sampling Point	34° 5'16.48"S	21°14'47.22"E
Slangrivier	Municipal offices - Outside Tap	34° 8'7.48"S	20°51'46.48"E
Slangrivier	Police / Fire Station	34° 8'7.48"S	20°51'46.48"E
Witsand	Breedezicht	34°23'37"S	20°49'29"E
Witsand	Middelkamp	34°23'33"S	20°51'38"E
Melkhoutfontein	Municipal offices - Outside Tap	34°19'34.16"S	21°25'9.08"E
Melkhoutfontein	Water Treatment Works	34°19'38"S	21°24'53"E
Vermaaklikheid	Tap at furthest house	34°18'15.80"S	21° 1'47.88"E
Vermaaklikheid	Tap at the 4 Green Tanks	34°18'15.80"S	21° 1'47.88"E
Garcia	Tap at A. January	34° 0'55.26"S	21°13'30.81"E
Garcia	Tap at Water Treatment Works	34° 0'55.26"S	21°13'30.81"E

#### 4.2.4 Borehole Monitoring

The sampling points for monitoring boreholes at Landfill Sites are described in table 4.2.4 below. Borehole monitoring will be conducted on instruction of the municipality on an if and when required basis.

**Table 4.2.4 Borehole Monitoring Sampling Points at Landfill Sites (Currently)**

Town	Description	Coordinates	
		Latitude	Longitude
Albertinia	Albertinia Landfill Site	34°11'49"S	21°35'12"E
Gouritsmond	Gouritsmond Landfill Site	34°20'22"S	21°52'13"E
Heidelberg	Droëkloof Landfill Site	34°05'41"S	20°56'37"E
Riversdale	Steynskoof Landfill Site	34°06'30"S	21°16'16"E
Slangrivier	Slangrivier Landfill Site	34°09'29"S	20°51'54"E
Witsand	Witsand Landfill Site	34°22'42"S	20°49'27"E
Melkhoutfontein	Melkhoutfontein Landfill Site	34°19'16"S	21°26'15"E

## 5. EXTENT OF THE SERVICES

The services to be provided in terms of this project are inextricably linked to the Employers operational budget. All services to be provided shall therefore be programmed in order to make full use of, but not exceed, the budget provision in any given financial year. It should be noted that while the Employer has every intention of completing the full Scope of Work making full use of the budget provision given, the

Employer's budget is subject to periodic review. Should it become necessary to vary the scope of work or even suspend or terminate this contract, such variation, suspension or termination shall be dealt with in accordance with the provisions of the Standard Professional Services Contract as amended by the Contract Data.				
<b>6. USE OF REASONABLE SKILL AND CARE</b>  The Service Provider's attention is drawn to the fact that the water quality monitoring informs the public about the safety of drinking water and contamination of the environment which can have serious health effects. The Service Provider is therefore required to provide all aspects of the service with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards. Therefore the tenderer must submit proof that the laboratory responsible for the analyses should be operated under the direct control of a Registered Professional Natural Scientist of the appropriate discipline, as called for in terms of the Natural Scientists Act of 1982. The laboratory should be SANAS accredited to specification ISO 17025 and take part in the quarterly inter-laboratory studies. A laboratory that takes part in the Proficiency Testing for both Microbiological determinants (NLA) and the Chemical parameters (SABS), with z-scores of less than 2 and more than -2 will also be accepted. Failure to provide hereof will lead to disqualification. The tenderer must ensure that a municipal official accompanies all samplers. The time and date that the sample was taken must be recorded, and signed off by the official that accompanies the sampler. Bidder must provide proof of the time and date that the samples was delivered to the lab. Proof needs to be sent to the Municipality monthly. The tenderer must submit proof that their sampler has been trained in sampling techniques.				
<b>7. PARAMETERS TO BE DETERMINED FOR WASTE WATER FINAL EFFLUENT</b> <ul style="list-style-type: none"> <li>• pH</li> <li>• Conductivity</li> <li>• Suspended solids</li> <li>• Free saline ammonia as N in mg/l</li> <li>• Nitrate + Nitrite as N in mg/l</li> <li>• Ortho-phosphate as P in mg/l</li> <li>• COD</li> <li>• Free Chlorine (mg/l) – Not for oxidation pond systems</li> <li>• E.Coli per 100ml</li> <li>• Faecal Coliforms</li> </ul>				
			<b>Comply Yes/No</b>	<b>Page of references</b>
<b>8. PARAMETERS TO BE DETERMINED FOR WATER FROM WATER TREATMENT PLANTS</b>				
<b>Riversdale</b>				
<b>Determinant</b>	<b>No of Samples</b>	<b>Frequency</b>		
Colour (mg/l)	3	Fortnightly		
Aluminium (Ug/l as Al)	3	Fortnightly		
Total Dissolved Solids (mg/l)	3	Fortnightly		
Total Coliforms Bacteria	3	Fortnightly		

(count per 100 ml)				
Heterotrophic Plate Count (count per ml)	3	Fortnightly		
pH value (at 25°C)	3	Fortnightly		
Turbidity (NTU)	3	Fortnightly		
Free Chlorine (mg/l)	3	Fortnightly		
E.coli (count per 100ml)	3	Fortnightly		
<b>Garcia</b>				
<b>Determinant</b>	<b>No of Samples</b>	<b>Frequency</b>		
Colour (mg/l)	2	Fortnightly		
Aluminium (Ug/l as Al)	2	Fortnightly		
Total Dissolved Solids (mg/l)	2	Fortnightly		
Total Coliforms Bacteria (count per 100 ml)	2	Fortnightly		
Heterotrophic Plate Count (count per ml)	2	Fortnightly		
pH value (at 25°C)	2	Fortnightly		
Turbidity (NTU)	2	Fortnightly		
Free Chlorine (mg/l)	2	Fortnightly		
E.coli (count per 100ml)	2	Fortnightly		
<b>Albertinia</b>				
<b>Determinant</b>	<b>No of Samples</b>	<b>Frequency</b>		
Total Dissolved Solids (mg/l)	3	Fortnightly		
Heterotrophic Plate Count (count per ml)	3	Fortnightly		
pH value (at 25°C)	3	Fortnightly		
Turbidity (NTU)	3	Fortnightly		
Free Chlorine (mg/l)	3	Fortnightly		
E.coli (count per 100ml)	3	Fortnightly		
Aluminium (ug/l as Al)	3	Fortnightly		
Iron (ug/l as Fe)	3	Fortnightly		
			<b>Comply Yes/No</b>	<b>Page of references</b>
<b>Still Bay</b>				
<b>Determinant</b>	<b>No of Samples</b>	<b>Frequency</b>		
Chloride (mg/l)	4	Fortnightly		
Sodium (mg/l)	4	Fortnightly		
Total Dissolved Solids (mg/l)	4	Fortnightly		
Total Coliforms Bacteria (count per 100 ml)	4	Fortnightly		
Heterotrophic Plate Count (count per ml)	4	Fortnightly		
pH value (at 25°C)	4	Fortnightly		



Turbidity (NTU)	4	Fortnightly		
Free Chlorine (mg/l)	4	Fortnightly		
E.coli (count per 100ml)	4	Fortnightly		
Aluminium (Ug/l as Al)	4	Fortnightly		
<b>Heidelberg</b>				
<b>Determinant</b>	<b>No of Samples</b>	<b>Frequency</b>		
Total Dissolved Solids (mg/l)	3	Fortnightly		
Heterotrophic Plate Count (count per ml)	3	Fortnightly		
pH value (at 25°C)	3	Fortnightly		
Turbidity (NTU)	3	Fortnightly		
Free Chlorine (mg/l)	3	Fortnightly		
E.coli (count per 100ml)	3	Fortnightly		
Aluminium (ug/l as Al)	3	Fortnightly		
Iron (ug/l as Fe)	3	Fortnightly		
<b>Witsand</b>				
<b>Determinant</b>	<b>No of Samples</b>	<b>Frequency</b>		
Total Dissolved Solids (mg/l)	2	Fortnightly		
Heterotrophic Plate Count (count per ml)	2	Fortnightly		
pH value (at 25°C)	2	Fortnightly		
Turbidity (NTU)	2	Fortnightly		
Free Chlorine (mg/l)	2	Fortnightly		
E.coli (count per 100ml)	2	Fortnightly		
Aluminium (ug/l as Al)	2	Fortnightly		
Iron (ug/l as Fe)	2	Fortnightly		
			<b>Comply Yes/No</b>	<b>Page of references</b>
<b>Slangrivier</b>				
<b>Determinant</b>	<b>No of Samples</b>	<b>Frequency</b>		
Total Dissolved Solids (mg/l)	2	Fortnightly		
Heterotrophic Plate Count (count per ml)	2	Fortnightly		
pH value (at 25°C)	2	Fortnightly		
Turbidity (NTU)	2	Fortnightly		
Free Chlorine (mg/l)	2	Fortnightly		
E.coli (count per 100ml)	2	Fortnightly		
Aluminium (ug/l as Al)	2	Fortnightly		
Iron (ug/l as Fe)	2	Fortnightly		

**Jongensfontein**

Determinant	No of Samples	Frequency
Total Dissolved Solids (mg/l)	2	Fortnightly
Heterotrophic Plate Count (count per ml)	2	Fortnightly
pH value (at 25°C)	2	Fortnightly
Turbidity (NTU)	2	Fortnightly
Free Chlorine (mg/l)	2	Fortnightly
E.coli (count per 100ml)	2	Fortnightly
Total Coliforms Bacteria (count per 100 ml)	2	Fortnightly

**Gouritsmond**

Determinant	No of Samples	Frequency
Total Dissolved Solids (mg/l)	2	Fortnightly
Heterotrophic Plate Count (count per ml)	2	Fortnightly
pH value (at 25°C)	2	Fortnightly
Turbidity (NTU)	2	Fortnightly
Free Chlorine (mg/l)	2	Fortnightly
E.coli (count per 100ml)	2	Fortnightly
Total Coliforms Bacteria (count per 100 ml)	2	Fortnightly

Comply  
Yes/NoPage  
of  
references**Melkhoutfontein**

Determinant	No of Samples	Frequency
Chloride (mg/l)	2	Fortnightly
Sodium (mg/l)	2	Fortnightly
Total Dissolved Solids (mg/l)	2	Fortnightly
Total Coliforms Bacteria (count per 100 ml)	2	Fortnightly
Heterotrophic Plate Count (count per ml)	2	Fortnightly
pH value (at 25°C)	2	Fortnightly
Turbidity (NTU)	2	Fortnightly
Free Chlorine (mg/l)	2	Fortnightly
E.coli (count per 100ml)	2	Fortnightly

**Vermaaklikheid**

Determinant	No of Samples	Frequency
Chloride (mg/l)	2	Fortnightly
Total Dissolved Solids (mg/l)	2	Fortnightly
Total Coliforms Bacteria (count per 100 ml)	2	Fortnightly
Heterotrophic Plate Count (count per ml)	2	Fortnightly
pH value (at 25°C)	2	Fortnightly
Turbidity (NTU)	2	Fortnightly
Chlorine (mg/l)	2	Fortnightly
E.coli (count per 100ml)	2	Fortnightly

**8. PARAMETERS TO BE DETERMINED FOR BOREHOLE MONITORING****Hessequa Landfill Sites**

Determinant	Frequency – If and when required
Total Dissolved Solids (mg/l)	
Total Suspended Solids (mg/l)	
Total Coliforms Bacteria (count per 100 ml)	
Total Alkalinity (mg/l as CaCO <sub>3</sub> )	
Conductivity (mS/m) (at 25 °C)	
Arsenic (µg/l as As)	
Boron (mg/l as B)	
Cadmium (µg/l as Cd)	
Total Chromium (µg/l as Cr)	
Chemical Oxygen Demand (mg/l)	
Oil & Grease (mg/l)	
Ammonia Nitrogen (mg/l as N)	
Calcium (mg/l as Ca)	
Chloride (mg/l as Cl)	
Fluoride (mg/l as F)	
Magnesium (mg/l as Mg)	
Nitrite Nitrogen (mg/l as N)	
Nitrate & Nitrite Nitrogen (mg/l as N)	
Nitrate Nitrogen (mg/l as N)	
Ortho Phosphate (mg/l as P)	
Potassium (mg/l as K)	
Sodium (mg/l as Na)	
Sulphate (mg/l as SO <sub>4</sub> )	
Total Chlorine (mg/l)	
Zinc (mg/l as Zn)	

Copper (µg/l as Cu)			
Cyanide (µg/l as CN-)			
Iron (µg/l as Fe)			
Lead (µg/l as Pb)			
Manganese (µg/l as Mn)			
Mercury (µg/l as Hg)			
Selenium (µg/l as Se)			
pH value (at 25°C)			

  

**9. PRICING INSTRUCTIONS**

(a) Tenderer must provide a price for the sampling for all Water and Wastewater Final Effluent on the Pricing Schedule. This must be a monthly rate. The determinants is as per section 7 and 8 of the specifications.

(b) The Tenderer must in addition to the above provide a rate for the Full SANS 241 analysis for Drinking Water. This is to be done once a year as per SANS 241:2011 Part 1.

(c) The Tenderer must also provide a rate for Sludge Classification of all Waste Water Treatment Works. This has to be done once a year.

(d) The Tenderer must indicate his analytical method per parameter.

(e) The tenderer must indicate which day of the month they will sample, when the results will be available and indicate which samples they will take on which day. A method statement to ensure the integrity of samples must also be provided as part of the returnable documents. Failure to provide this information will lead to disqualification.

(f) The tender can be awarded per category but not for specific parameters only, a laboratory that is not accredited to test all the required parameters will not be considered.

(g) The tenderer must submit a breakdown of his rate per sample and also per determinant. This is applicable to Schedule A to E in the pricing schedule

(h) The tenderer must submit a rate for resampling of the E-Coli and Total Coliforms per town and per sample.

(i) The tenderer must note that the number of samples can be reduced to fall within the available budget.

(j) Additional sampling points may be added if and when required.

**Failure to adhere to the above will result in your tender being declared non-responsive.**

DECLARATION,

I, THE UNDERSIGNED (NAME) .....  
 CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT. I ACCEPT THAT THE MUNICIPALITY MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

AUTHORISED SIGNATURE: .....

NAME: .....

CAPACITY: ..... DATE: .....

Initials of Service Provider's Authority: .....