

SAMPLING AND TESTING OF WATER & WASTEWATER SAMPLES

SPECIFICATIONS

1. SCOPE OF SUPPLY OF SERVICE/GOODS

Sampling and testing of potable water and wastewater samples in the Kannaland Municipality area for a period of twelve (12) months from date appointment.

2. SPECIFICATIONS REQUIREMENTS

2.1 Receiving samples

- All procured samples within Kannaland Municipal area must be collected at the office of the area where the samples were taken, as indicated in Annexure C.
- Upon receipt of the samples, it would be expected of the service provider to check on the physical state of all samples and to take temperature measurements of the samples received.
- The service provider should ensure that where applicable samples are kept within the appropriate temperature ranges. Samples not conforming to the temperature ranges and other criteria must be left at the office.

2.2 Analysis of samples

- Where possible, actual sampling results must be indicated; if this is not achievable, the maximum results that can be provided must be indicated.

2.3 Sample results

- Bacteriological results must be provided within five (5) days of submission for analysis or any longer period as decided between the two parties beforehand.
- Chemical water sample results must be provided within ten (10) days of submission for samples analyse.
- Results should be emailed to the contact person or persons that will be nominated by Kannaland Municipality

2.4 Containers and sampling material

- It will be expected of the service provider to provide an adequate number of sampling containers (cooler boxes and ice packs) and bottles of appropriate sizes. These need to be available to Kannaland Municipality for different sample types at the different offices in Ladismith, Calitzdorp, Zoar and Van Wyksdorp.
- Sample containers for the monitoring of chlorinated water e.g. drinking water and chlorine treated waste water must contain Sodium Thiosulphate crystals in order to neutralize all traces of chlorine in the water
- The service provider should provide sterile swabs for surface and other samples as well as sterile containers for these swabs

2.5 Labels

- Labels must be provided for each sample container.
- The label must have enough space for the Process Controller to write the sample identification number, name of the Process Controller and sample type
- These labels must be provided with adhesive at the back and must be able to stick to the sample container.

2.6 Seals

- Seals need to be provided for each container that could be used by the Process Controller to secure the content of the container.
- Each seal should bear a unique sample number.

3. Total Samples

3.1 Receiving samples: Water

See attached Annexure A

3.2 Receiving samples: Wastewater

See attached Annexure B

CRITERIA FOR BIDDERS – MINIMUM REQUIREMENTS

ITEM	DESCRIPTION	YES	NO
1.	Laboratory must be SANAS approved and a certificate of proof of registration provided.		
2.	The bidder must have a registered office within 200km from the Municipal Head Office in Ladismith.		
3.	The bidder must ensure that transport costs of samples and the return of cooler boxes and ice packs to Kannaland Municipality in Ladismith, Calitzdorp, Zoar and Van Wyksdorp is included in the quotation as part of the analytical costs.		
4.	The bidder must supply sterilized water containers (bottles) for the sampling of water and other liquids for bacteriological analysis. Sample containers for the monitoring of chlorinated water must contain Sodium Thiosulphate crystals to in order to neutralize all traces of chlorine in water. Chemicals sample containers must have a capacity needed for analysis of the sample type.		
5.	All prices must include VAT if you are a VAT vendor.		

PRICING SCHEDULE

Total Per Month

NO	DESCRIPTION	QTY	UNIT	RATE PER MONTH	AMOUNT
1	All-inclusive price for sampling and testing of water and wastewater as per specifications and requirements				
	a) Water sampling and testing	1	month		
	b) Wastewater sampling and testing	1	month		
	Total Excl. VAT				
	VAT @ 15%				
	Total Incl. VAT				

Total For Twelve Months

NO	DESCRIPTION	QTY	UNIT	RATE FOR 12 MONTHS	AMOUNT
1	All-inclusive price for sampling and testing of water and wastewater as per specifications and requirements				
	a) Water sampling and testing	12	months		
	b) Wastewater sampling and testing	12	months		
	Total Excl. VAT				
	VAT @ 15%				
	Total Incl. VAT				

Annexure A – Water sampling (All towns)

ANNEXURE A						
WATER SAMPLING						
TYPE	DETERMINAND					TOTAL PER MONTH
Water	Electrical Conductivity				6	6
Water	pH at 25 °C		6		8	14
Water	Turbidity		8		8	16
Water	Free Chlorine		8		8	16
Water	E.Coli	3	5	3	8	19
Water	Coliforms	4	4	4	8	20
Water	Heterotropic Plate Count	1	7	1	8	17
Water	Iron as Fe		2		5	7
Water	Nitrate as N				4	4
Water	Nitrate as N				4	4
Water	Sulphate as SO ₄ ²⁻				4	4
Water	Fluoride as F-				4	4
Water	Boron as B				4	4
Water	Copper as Cu				4	4
Water	Manganese as Mn				4	4
Water	Total Dissolved Solids at 180 °C				4	4
Water	Ammonia as N				4	4
Water	Chloride as Cl				4	4
Water	Sodium as Na				4	4
Water	Zinc as Zn				4	4
Water	Calcium as Ca				4	4
Water	Magnesium as Mg				4	4
Water	Potassium as K				4	4
Water	Aluminium as Al	3	3	3	4	13
	TOTAL	11	43	11	123	188

Annexure B – Wastewater sampling

ANNEXURE B						
WASTEWATER SAMPLING						
TYPE	DETERMINAND					TOTAL PER MONTH
Wastewater	Electrical Conductivity				4	4
Wastewater	pH at 25 °C				4	4
Wastewater	Free Chlorine				4	4
Wastewater	Ammonia as N				4	4
Wastewater	Total chlorine				4	4
Wastewater	Ortho-Phosphate as P				4	4
Wastewater	Total Suspended Solids				4	4
Wastewater	Fats, Oils, & Grease				4	4
Wastewater	Chemical Oxygen Demand				4	4
Wastewater	Courier Fee				4	4
Wastewater	Faecal Coliforms				4	4
	TOTAL	0	0	0	44	44

Annexure C – Locality Map

Site Locality	GPS Coordinates	GPS Coordinates
Calitzdorp	-33.5309773	21.689954
Zoar	-33.496189	21.448353
Ladismith	-33.4945364	21.263823
Van Wyksdorp	-33.748836	21.459751