

TECHNICAL INFORMATION ON YOUR WATER SUPPLY SYSTEM

1.0 **SOURCE**

a) What types of sources are used for human consumption? Is it surface water (river, lake), groundwater (bores) or rainwater? Please note that human consumption includes washing, cooking, drinking and preparing of food. _____

b) What are the distances between the sources and the reservoirs (storage tanks), storage tanks and the point of service (consumer's residence)? _____

c) What pipe sizes and types are used to convey water from the source, storage tank (if any) and the point of service? _____

d) What type of power used to abstract water at the source? Is it solar power, generator or hydro electricity? _____

e) How is the water from the source conveyed? Is it by gravity fed or pumped to the storage tanks and the point of service? _____

f) If pumps are used what are the sizes and types of pumps?

g) If the source is from a river, is water stored in a dam before pumped or gravity fed to consumers? _____

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2.0 STORAGE

Provide:

- a) Total number of reservoirs or tanks in your water supply system, _____
- b) Locations, types, capacities, and other dimensions such as heights, diameters, or circumferences of the tanks, _____
- c) Distances between reservoirs, _____
- d) All elevations with respect to the points of discharge (service points), _____
- e) Is water from the tanks supplied by gravity or pumped to consumers? _____
- f) Inlet and outlet pipes sizes and types of the tanks, _____

3.0 TREATMENT

- a) Is there any Water Treatment Process in your water supply system?

- b) If so what types of treatment processes are adopted? _____

- c) Is the water supply treated with any disinfectants such as chlorine, UV, Ozone and etc? If so what disinfectants are used? _____

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- d) What is the frequency of the use of the disinfectant? _____

- e) If chlorine is used what is the residual level in your distribution system?

- f) If UV is used, is chlorine or other disinfectants used to further control or minimize harmful microorganisms (such as bacterial) regrowth in the distribution lines? _____

- g) How often do you undertake water quality tests? Who does the tests?

4.0 DISTRIBUTION SYSTEM

Provide:

- a) Types and sizes of rising mains and gravity mains if any,

- b) Total pipe length of mains to each point of service,

- c) Types and sizes of sub-mains if any, and total pipe lengths,

- d) Types and sizes of service lines and the total length,

- e) If meters are installed, give details such as type, size, total number and locations installed, _____

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5.0 QUANTITY

Provide:

1) Total quantity/volume of water abstracted from the source per day,

2) Total volume of treated water per day if the water supply is treated,

3) Total quantity of water used for domestic use per month,

4) Total population served directly by your water supply system for domestic use, _____

6.0 HISTORY

Provide:

a) Name of the Engineering Consultant, Designer of the water supply, _____

b) Name of the Contractor, _____

c) Year water supply first established and duration of the completion of the project, _____