

Feasibility Study Drinking Water Supply Ponta do Ouro, Mosambik

EXECUTIVE SUMMARY

The Feasibility Study 'Drinking Water Supply Ponta do Ouro', for a village on the coast of Mosambik provides essentially the foundations for a replanning of the existing water system. It contains an evaluation of the capacity of the system in two phases, a suggestion of the optimal locations of the new system parts and checking the usability of existing parts. The existing water supply system contains mainly an intake on a lagoon with an old pumping station, one reservoir in function on a hill and an insufficient distribution network.

The Study shows, that the existing water supply system has to be rebuilt completely. The location of the new structures should be near or at the same location of the existing plants. Based on the results of the raw water analysis the study contains a concept for a new water treatment plant, which is expandable for future requirements.

To supply the entire rural area from one location two different pressure zones are necessary, which are fed from several booster pumps. The distribution network will contain house connections in the more urban areas and only standpipes for the rural areas.

The study also contains an estimation of costs for building the new drinking water system. The costs are estimated for each phase of establishing the network.

In the first phase it is only possible to provide small parts of the whole distribution network because of the very limited budget. Based on this study a detail planning should be done in the next step.