

AquaZone Ltd

Volume of investments required: \$ 300 thousand

Use of funds

R&D - 5%

Acquisition of fixed assets - 30%

Marketing - 25%

Circulating assets - 40%

Company profile

1. Date of establishment – February 2005.
2. Size and source of investment to date – \$ 137 800, including: Regional Target Program "Development of innovative activity of Tomsk region" – \$ 41 100; The Federal Target Scientific and Technical Program – \$ 123 700.
3. Production – filter material "Aquavallis", individual field water purifiers.
4. Target market – systems of preparation and water treating for microbiological, pharmaceutical industry and medicine; food industry; industrial microfiltration for microelectronics and chemical manufactures; in cartridges of individual water purifiers.
5. Sales 2004 – none.
6. Description and value of assets – none.
7. Goodwill and intellectual property rights – the request for useful model of the field water purifier is prepared, the patent request on a filtering material is given. Patentees are physical persons – founders of "AquaZone" Ltd.
8. Signs of public recognition – the development "Filter material based on nanofibers" is awarded the Gold medal of the V International salon of innovations and investments, Moscow, 2004.

Owners

Individuals	100%
Share of government property	0%

Products characteristics

New high-performance depth filter material on the basis of nanofibers "Aquavallis". The principle of action of the developed filter is based on a combination of adsorption and a filtration. In filter material "Aquavallis" on a matrix made from a polymeric microfibre are located nanofibers, possessing by the electrokinetic potential. This potential provides sorption of viruses and bacteria (possessing in water a negative charge). Sizes of viruses and bacteria are less than polymeric microfibre pores of medium-size. For synthesis of nanofibers are used nanopowders of aluminium, received by a method of electroexplosion. It provides high speed and efficiency of clearing of water (99.999999 – 100%).

The household equipment for biological sterilization of water with replaceable cartridges. The water purifier is meant for a filtration in field and conditions of life of any type of waters (waste, soil, rain, etc.) from any sources from viruses, bacteria, all kinds of microbiological pollution. Individual portable water purifier consists of a nanofiber-based filter material placed in the special non-separable cartridge, screw-top and plastic bottle.

The field water purifier is meant for use in areas with high risk of infection of water by biologically dangerous microorganisms (viruses and bacteria).

Markets & Competition

	Data	Production of "AquaZone" Ltd.	"Biruza", Rybinsk, Russia	"GlobalWater", USA
2004	Geographical Region – Russia, the USA. Market size \$ 100 million			
	Company market share \$ ths / %	0	40 / 0.04%	5 000 / 5%
2009	Geographical Region – Russia, the USA. Market size \$ 150 million			
	Company market share	1 500 / 1%	105 / 0.07%	10 500 / 7%

	\$ ths / %			
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Marketing & Sales

In Russia production will be realized by own forces of the company.

In the western market sale of water purifiers will be made through the industrial companies with which there are prior arrangements (Slovenia, the USA, Japan).

Prospects of development

2005 – experimental-industrial production of cartridges for individual water purifiers, reception of the necessary allowing documentation.

2007 – industrial production of water purifiers.