BUSINESS CASE WATER SHOP CONCEPT

General Information			
Site	Gandinaghar, India	Solar radiation	5 hours per day
Application	Drinking water for remote village	Equipment	Water: TWB 002
			Solar: TSPC 700 4/8
Installation	Fixed installation	Salinity	none
Water source	River water/well water	Contamination	organic (e.g. bacteria, virus, spore)

Technical Data			
Capacity of the unit		900.0	l/h
Power Requirement		350.0	Wh
Provided Solar Power		1,480.0	Wp
Energy by radiation	5 kW/m2/day	7,400.0	Wp
Power loss (cabling etc.)	20%	-1,480.0	Wp
Average energy supply		5,920.0	Wp/day
Runtime of the unit		**16.9**	**h/day**
Total capacity		**15,222.9**	**l/day**

Drinking water costs			
Investment costs consisting of:		60,000.00	US$
Water and Solar Equipment		*50,000.00*	*US$*
Water source development		*5,000.00*	*US$*
Infrastructure Water Shop		*5,000.00*	*US$*
Annual amortisation	5 years	12,000.00	US$
Annual interest rate	10%	3,000.00	US$
Annual maintenance costs (estimation)		600.00	US$
Total costs per year		15,600.00	US$
Total amount of water production per year		5,556,342.9	l/year
Amount of water sold per year	50%	2,778,171.4	l/year
Price per litre of drinking water		**0.0056**	**US$**
Price per m3 drinking water		**5.6152**	**US$**

Business Model			
Sales price per litre		0.015	US$/l
Costs per litre		0.0056	US$/l
Gross Margin		0.0094	US$/l
Gross Earnings		**26,072.57**	**US$/year**
Participation of Watershop Operator	20%	5,214.51	US$
Participation of Franchise Organisation	60%	15,643.54	US$
Misceallaneaus costs (Expenses, Transport)	15%	3,910.89	US$
Net Earnings		**1,303.63**	**US$/year**

Rentability for Fund/Bank			
Number of Water Shops		50	Units
Total Investment	50 x 60,000.00	3,000,000.00	US$
Total Earnings	50 x 1,303.63	65,181.43	US$
Total interest rates for equipment	50 x 3,000.00	150,000.00	US$
Return on Investment		**7.17%**	**per year**

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