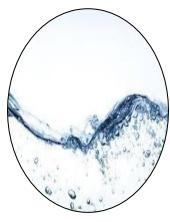


The Larger Purpose







Affordable

Pure

"Water for all, particularly the underserved" Session Focus-Market-based mechanisms for providing clean drinking water at Lower Levels of Pyramid.





The Knowledge of Market based Mechanisms...





Present in:

- > 180 Locations
- 7 States
- 1 UT

Safe Drinking Water:

- Affordable rates
- to the underserved

In Partnership with:

- Local entrepreneurs,
- Corporates,
- Government
 to provide access
- to provide access

Current Water Scenario



India rank 120 / 122 nations

30% of women walk > 500 meters

70% of India's water supply is polluted with **sewage effluents**

Groundwater in 1/3rd of 600 districts is unfit for drinking

443 million school days lost per year

70% in low income communities drink water from untreated source



Water-Health Risk Association









37.7 Million affected by water borne diseases*

73 Million

Work days lost due to waterborne diseases Resulting economic burden is \$600 million /year

1.5 Million

Children die due to diarrhea .(1600 Diarrheal deaths daily)

62 Million

Affected by dental, skeletal and/or nonskeletal fluorosis.

• Date Source : http://www.devalt.org/newsletter/mar14/of_3.htm, http://www.iisc.ernet.in/currsci/nov25/articles13.htm, http://water.org/country/india/

Market Mechanisms for different socio-economic levels





Upper class find their own solutions



Middle and Lower Middle can pay/fund part of cost



Base of the pyramid needs to be subsidized/supported

Consumer Segments





Villages



Public Spaces

Schools





Slums

Hospitals



Govt. Projects



Technology to suit Water Profile



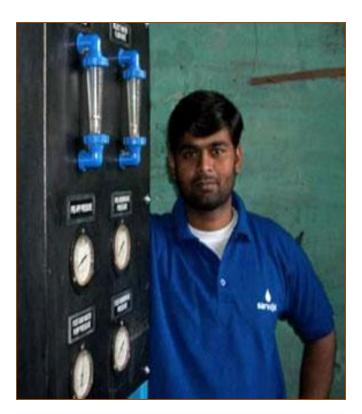


Water Treatment Plant

- Purification process structured to suit local water profile
- Removes ionic and biological contaminants
- Remote and Auto Controls

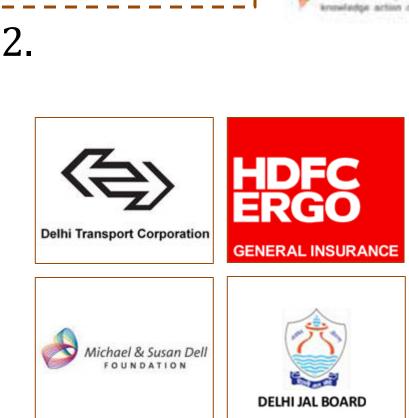
How Community Level Water Purification Installations are created

Piramal | Sarvajal



1.

Promote Water Franchisees in rural as well as urban areas

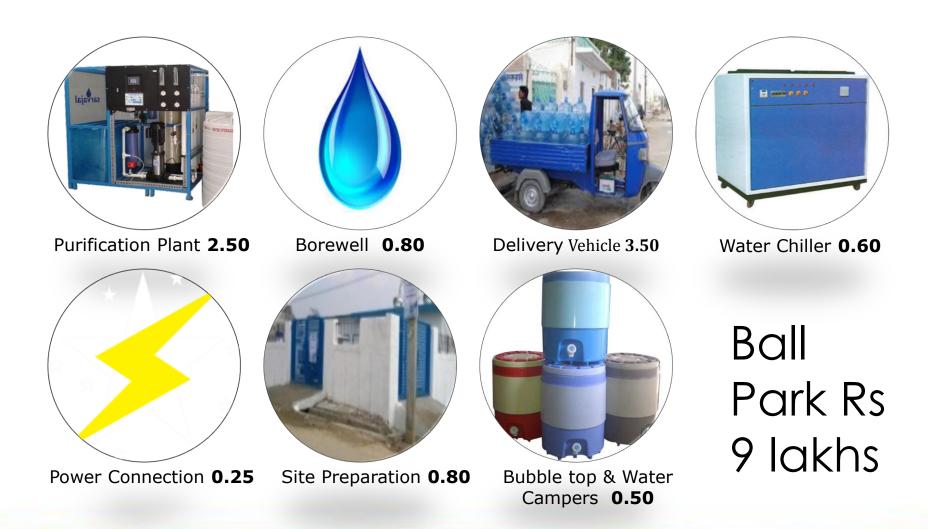


Joins hands with Corporates, Government and Multilaterals



*Village Level Cost Sample CAPEX** (in rupee lakhs)



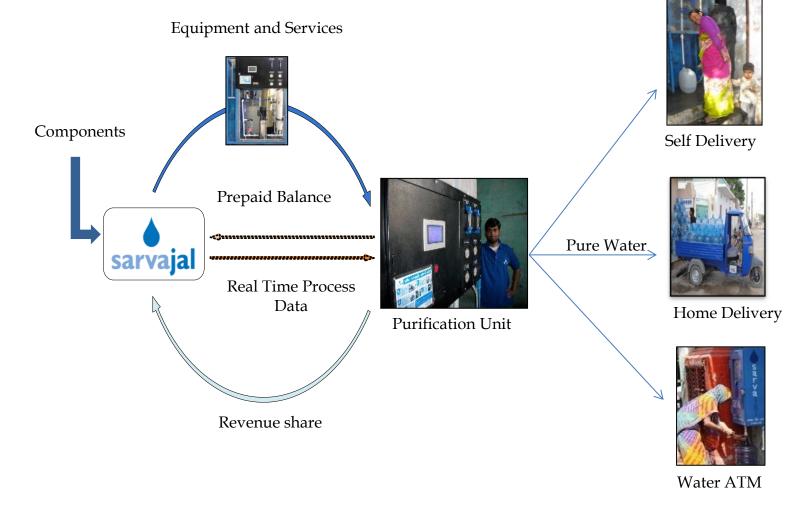




*To service approximately 150 households per day ** CAPEX recovery has to be over and above Rs. 40000









Revenue Cycle

Who Pays CAPEX



Village Entrepreneur

corporate foundatio building a sustainable foundation for corporate giving



Corporate Foundation



How?

- One Go
- Lease
- Charge
 Consumers



Revenue Cycle

Who Supports OPEX





Franchisee





Government Subsidy





Market: End Users Pays as per need /perception.

Market Payment Mechanisms



To Village Entrepreneur From Consumers

- Punch Card
- Credit/Cash
- Pre Paid





From Entrepreneur to Suppliers

- Volume Based
- Flat

Remote Monitoring Technology



"Soochak" Controller

Real time monitoring

efficiency

Patented

downtime

• 1



Sarvajal Enterprise Management System

- Information processing ERP
- Enables quicker response to machine related issues.
- Tracks vital health parameters

"Enables remote monitoring of volume – hence price adjustment"

machine

Time Period: 1m

Date:2013-05-07
Differential Pressure:

Moving Avg: 1 Day

Λ

Water ATM – Dispensing technology





Water ATM Device

• Automated water machine

ter vending

- Cloud connected, Real time online monitoring of each transaction
- 24 x 7 access

- Solar power
- RFID card

"Ability to price and charge consumer differentially"

Water ATM – Dispensing technology

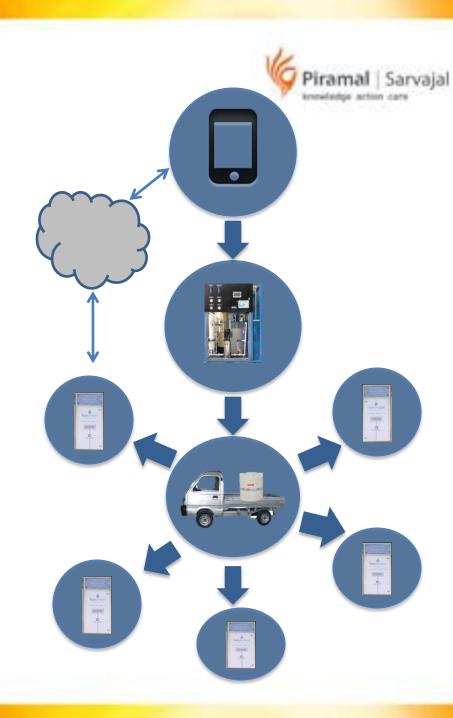




- Targeted Consumer Subsidy
- Automated debit at dispensing point
- Differential prices
- RFID Card recharge

Hub-&-Spoke Model

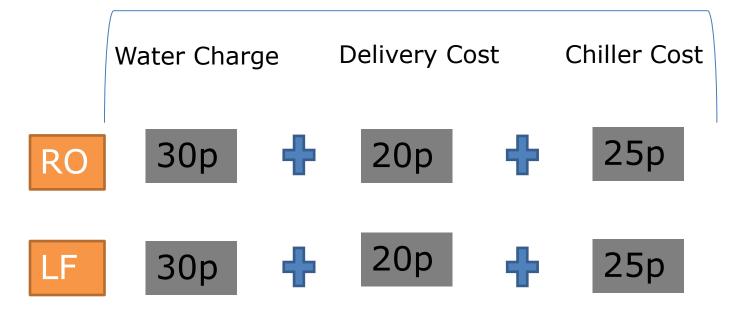
- Central purification plant and remotely located Water ATM units
- Helps expand reach and social impact
- Price transparency and Quality Accountability
- Reduces fuel costs
- Each transaction is remotely tracked
- Generates additional livelihood opportunities



Cost Break Up for 1 Litre of Water-Sample



Per Litre Price Break Up









100 House Holds

Cover OPEX

150 House Holds 200 House Holds

Recover All Costs

Approximately in 2-3 years* depending on Price and Volume.

Cover OPEX and

Some CAPEX









Satpalji's Journey:

September 2012- Launched his Sarvajal Franchisee in Padampur.

<u>April 2013-</u> Brought second delivery vehicle. Total team of five people working for Franchisee.

<u>January 2014-</u> Set Up Sarvajal Water ATM for 24*7 access for all consumers <u>March 2014-</u> Expanded production capacity with second purification unit

Local community mobilizes Local Market





Community Involvement



Feeling of Ownership





Drives the Market



Makes it Sustainable



Three-Tier Demand & Supply Cycle

<u>Primary</u>

Served ~7 lakh liters of water since Oct 2013





<u>Secondary</u>

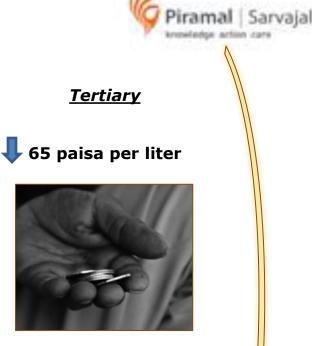
Over **INR 2.5 Lakhs** of water revenues have been generated

Leveraged existing physical infrastructure worth ~ **INR 7 lakh**



This solution has also created **3 new livelihoods**





3 competitors replicated model, 50% more HHs!



Impact





Prices controlled by Market



Inspires Others



Maintains Local Ecosystem

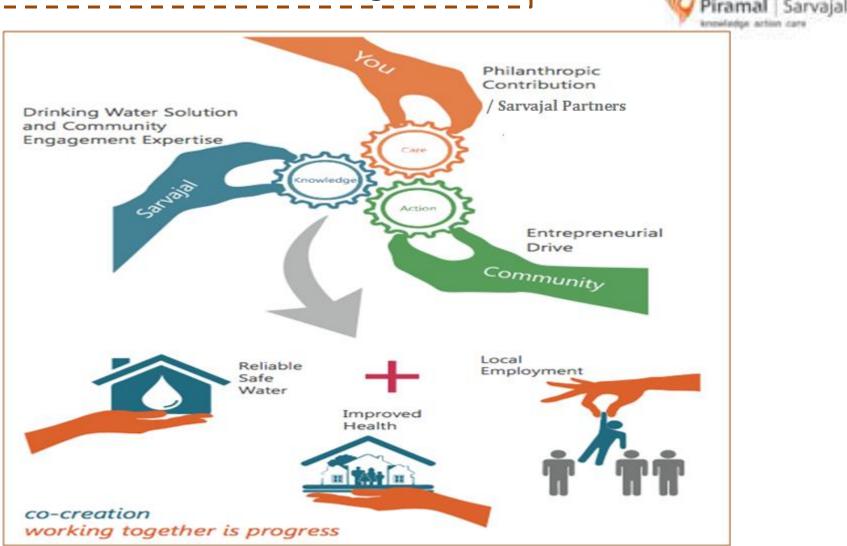


Creates Livelihood



Improves Health

Relative Roles of the Contributing Partners



Sarvajal Partners with Village Franchisees, Corporates (for their CSR program), Government for creating solutions



Reach Us at: Website: www.sarvajal.com Email: info@sarvajal.com

Safe Drinking Water = Good Health = Smiles !