

Water Availability for All An Approach for Sustainability

Dahanu Thermal Power Station

Reliance Infrastructure limited

- Largest integrated power utility

Generation Capacity > 900MW

Distribution- > 5000 MW of power in Orissa, Delhi, Goa, & Mumbai

Transmission

EPC business mainly focus on power

- Group turnover > 15000 Cr.
- Asset base > 10000 Cr.
- Customer base > 2.5 Cr.

Dahanu Thermal Power Station

- Coal Based Plant 2 x 250 MW
- Supplies Electricity to Mumbai
- Systems are certified for Quality, Environment , OH &S, Social Accountability & ISO 27001
- Capacity Utilisation > 100 %
- **Best plant** in country in all operating parameters
- Meritorious Performance Award for last three years by Ministry of Power (CEA), Govt. of India
- More than 60 Awards since inception

Our Vision

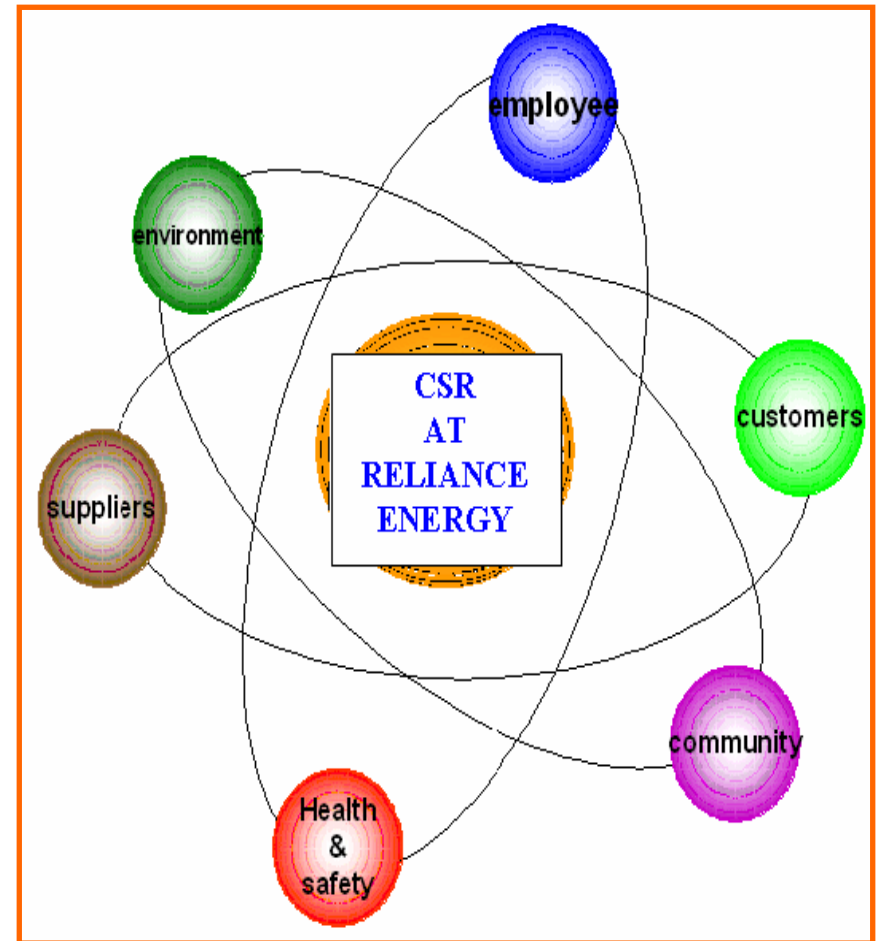
To be amongst the world class power plants, delivering reliable generation of electricity at competitive costs, with international standards of environmental emission.
To set new benchmarks in standards of performance through the pursuit of operational and financial excellence.

Mission – Excellence in Generation of Electricity

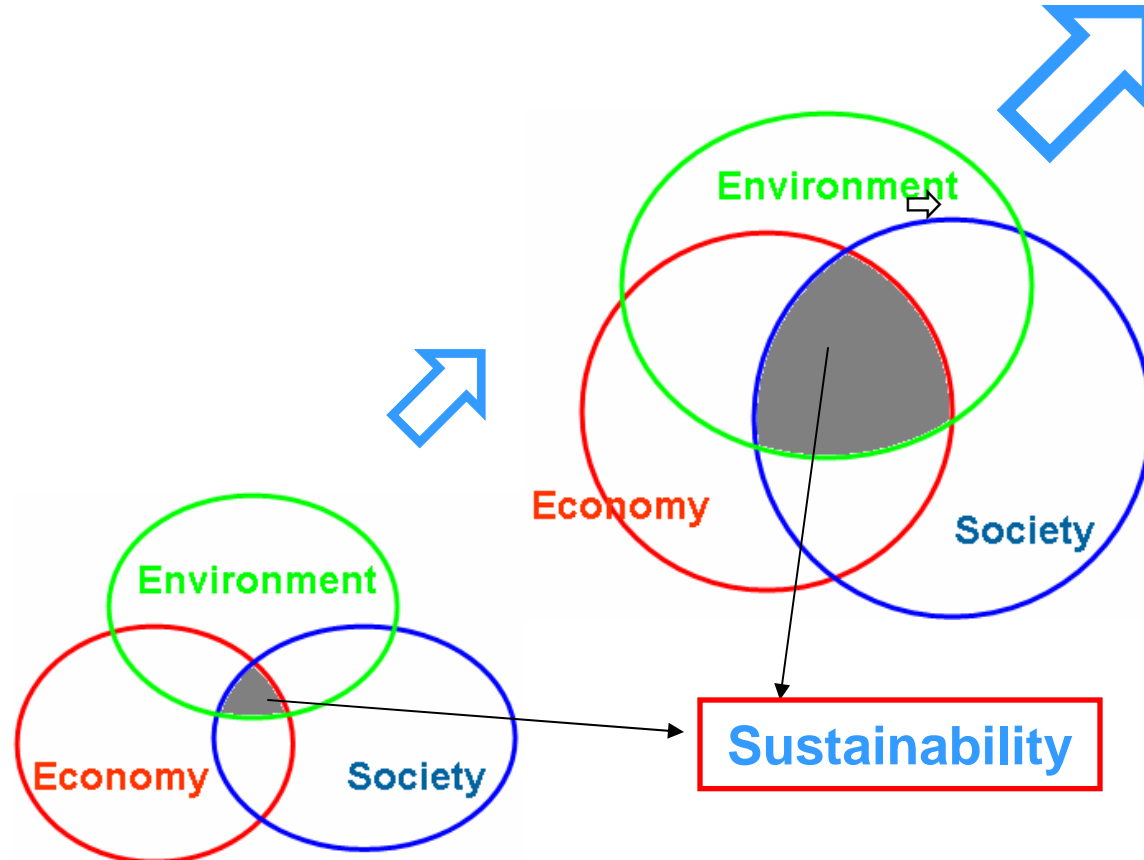
- To attain global best practices and become a world-class power plant.
- To provide affordable, reliable and clean power to millions of customers.
- To achieve excellence in service, quality, reliability, safety and customer care.
- To work with vigor, dedication and innovation with total customer satisfaction as the ultimate goal.
- To consistently achieve high growth with the highest levels of productivity.
- To be a technology driven, efficient and financially sound organization.
- To promote a work culture that fosters individual growth, team spirit and creativity to overcome challenges and attain goals.
- To encourage ideas, talent and value systems.
- To uphold the guiding principles of trust, integrity and transparency in all aspects of interactions and dealings.

Macro Perspective

- **Assess** the needs of community around its area of operations on a continuous basis.
- **Initiate** community development programme in areas of Education, Health, Water Conservation, Agriculture & Environment for up-liftment of the society.
- **Undertake** appropriate Need Based Community Development Programs.
- **Encourage** Employee Participation in voluntary social and community services.
- **Provide** necessary budgetary support to carryout all such activities.



OUR VISION FOR SUSTAINABILITY



Sustainability lies in “synergies with the community and how the firm integrates with the community in a global context.”

Back Ground of Dahanu Community

- ❑ Located at 125 Km north of Mumbai on the coasts of Arabian Sea.
- ❑ Population:332767
- ❑ 65.99 % are the Tribes spread over the rural area of 185 villages in Dahanu Tahasil

Needs

- ❑ Deprived from Basic requirements
 - ❑ Education
 - ❑ Health
 - ❑ Specific community requirement

Approach

- ❑ Public Private Community Partnership
- ❑ NGO-Rotary,Lions club
- ❑ Employees ,students

CSR Initiatives

Education-Partnership with Public, Private & Local bodies

- ❑ Development of Educational Infrastructure
 - ❑ Construction of School buildings
 - ❑ Construction of college buildings
 - ❑ Furnishing of class rooms and laboratories
- ❑ Educational Assistance
 - ❑ Educational material
 - ❑ Scholarships
 - ❑ Recognition through Awards



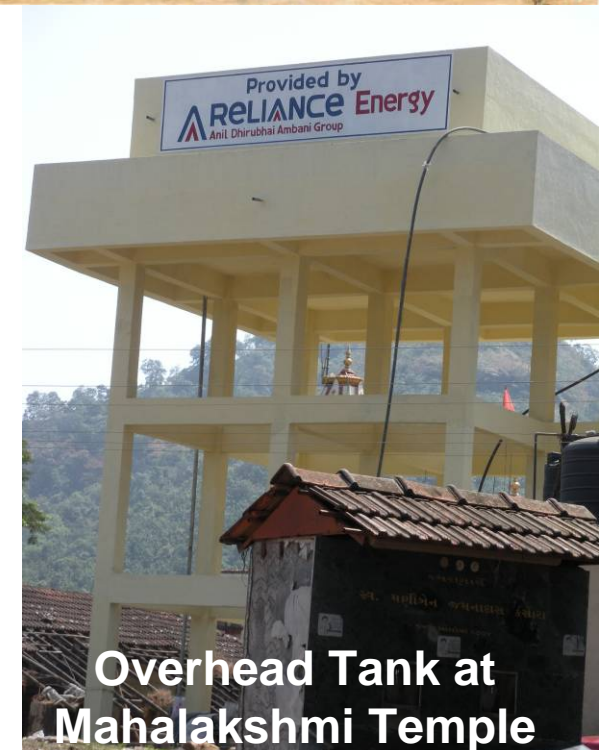
CSR Initiatives

Health –Participation of Private, Public & Local Bodies

- ❑ Medical infrastructure development
- ❑ Medical camps
- ❑ Immunization programs
- ❑ Emergency medical relief

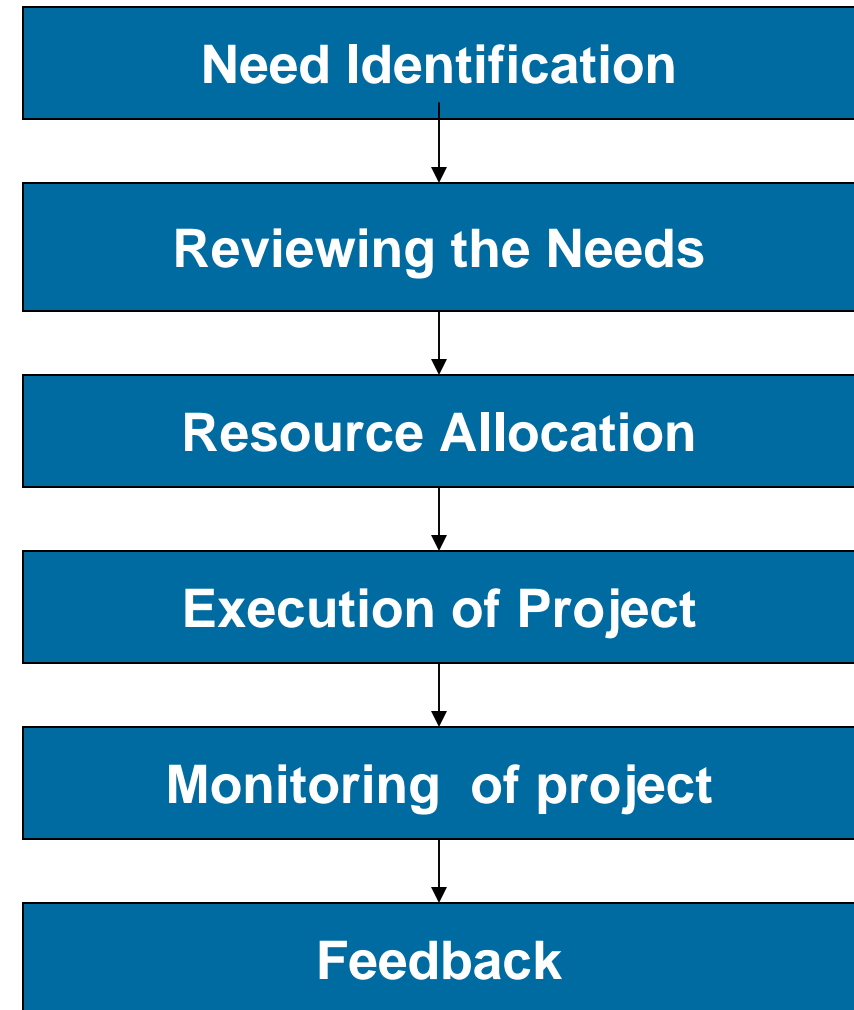


Need Based Projects:



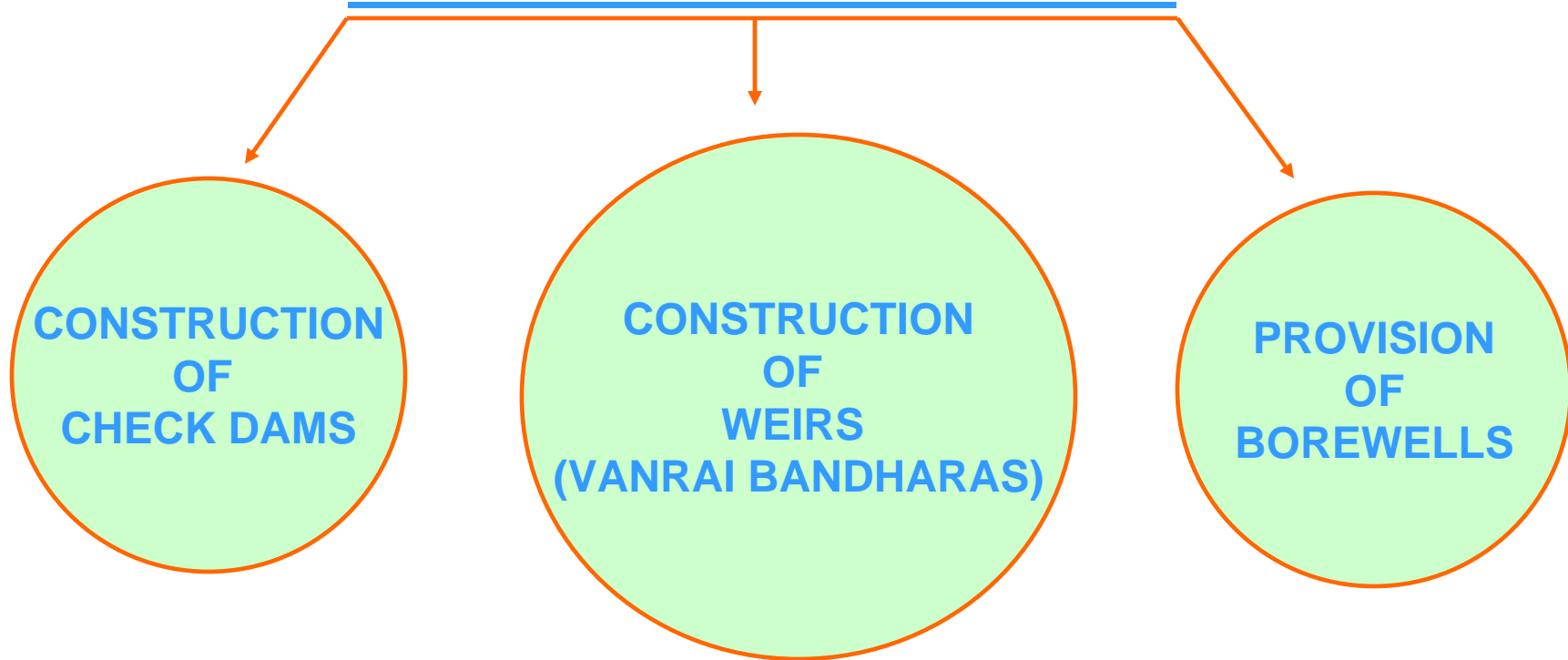
COMMUNITY INVOLVEMENT: Our Approach

- ❑ DTSP considers community involvement as the core of all its CSR projects.
- ❑ When the villagers approach - Explain them importance of Need & sustainability of water
- ❑ Know existing availability of water in that area
- ❑ Ensure their full participation , ownership in the activity
- ❑ This is first milestone which starts our process of CSR initiative.



DTPS CSR initiative focus Water management

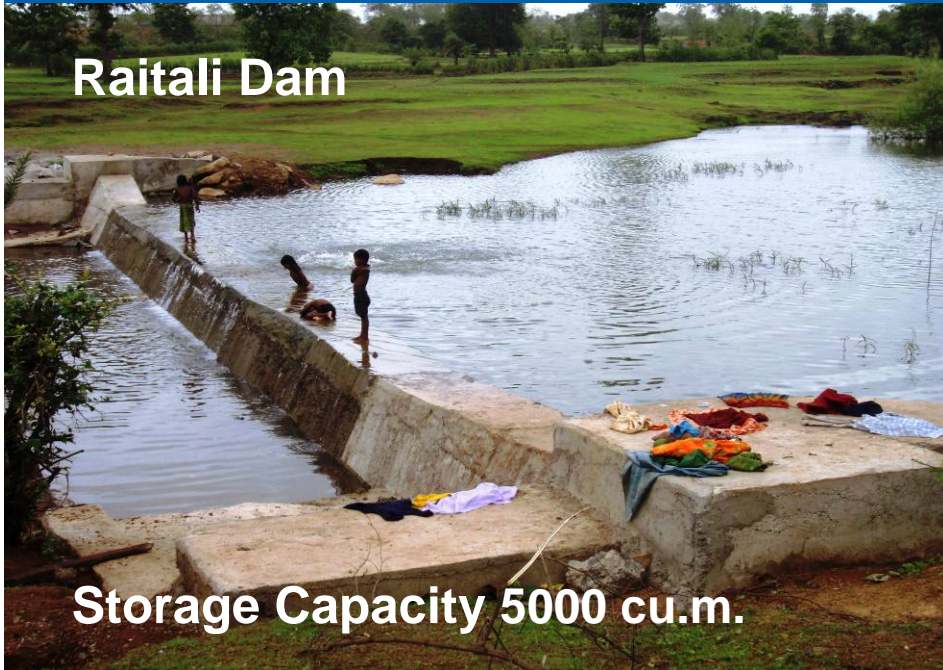
COMMUNITY PARTICIPATION



Handing over of the projects to the community

Giving the ownership to them

CONSTRUCTION OF CHECK DAMS



Raitali Dam

Storage Capacity 5000 cu.m.



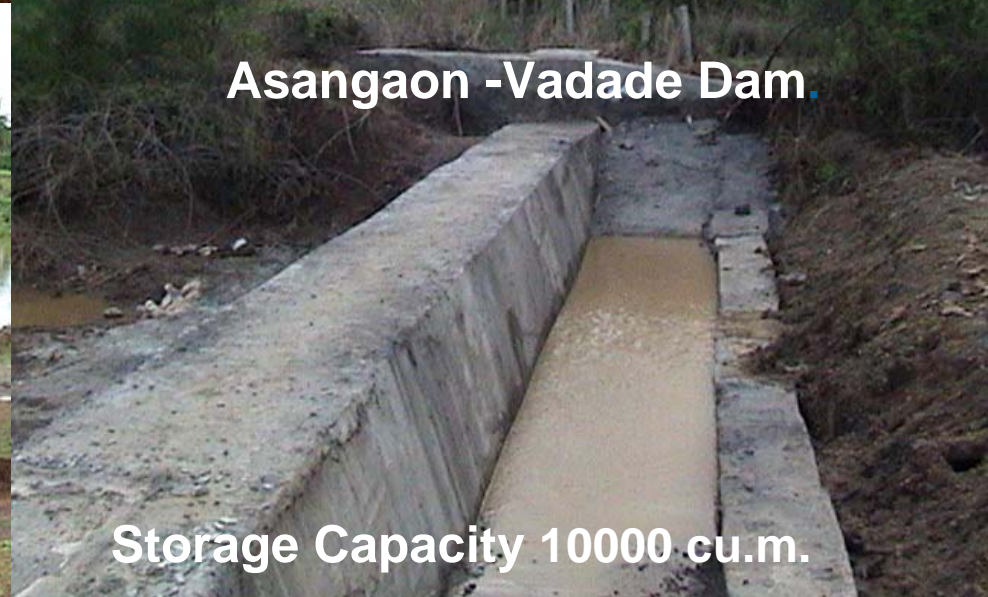
Savata Saravali Dam.

Storage capacity 13.5 Lakh²⁶ 11.57⁵⁷ cu.m.



Chari- Kotbi Dam

Storage Capacity 10000 cu.m.



Asangaon -Vadade Dam.

Storage Capacity 10000 cu.m.

CONSTRUCTION OF WEIRS (VANRAI BANDHARAS):

People's Participation



Water Management Programmes Beyond The Fence

Need Identification

- ❑ Annual rainfall 1800 – 2000 mm
- ❑ Main occupation agriculture & Depends on rain water
- ❑ No storage facilities
- ❑ Wastage of water and sea water ingress in ground water
- ❑ Scarcity of potable drinking water
- ❑ Hence the thrust on water management programme.

Previous projects gave us the following advantages:

- ❑ Increase in Ground Water Table
- ❑ Second crop is taken by some villagers
- ❑ Reduction in sea backwater intrusion
- ❑ Commercial Fishing in Dam water holding Round the year
- ❑ Local government agency can lift the water for drinking purposes

Drinking water systems for villages & community

- ❑ 185 villages and 834 sub – villages alias hamlets known as “Padas”
- ❑ Distance between two “Padas” 1.5 – 2.5 Km
- ❑ Available water sources very far off from “Padas” and villages
- ❑ Poor quality of life as Wastage of time and energy in sourcing the water
- ❑ Women are the main sufferers
- ❑ Inadequate drinking water provision
- ❑ Non availability of electricity to lift available water



Women are the main sufferers



DTPS along with support of Top management decided to install @ 500 Hand pump in Dahanu Taluka with additional budgeted of 200 Lakh other than yearly

Installation of hand pump

- ❑ Requisitions from Gram Panchayats & Panchayat Samittee, Dahanu
- ❑ Scrutiny of Applications
- ❑ Feasibility & Spot Selection: DTPS & local residents & Govt. Authority
- ❑ Identification of Land Ownership & Verification of documents
- ❑ Documentation:
 - Pre Survey Report
 - Agreement in between land owners & Grampanchayat regarding donation of land for installation Hand pump & use .
- ❑ Drilling process : Depth of bore well decided as per availability of water yield,
- ❑ Hand Pump Installation with construction of platform
- ❑ Handover of hand pump to Gram panchayat

Drinking water systems for villages & community



Company has provided 370 tube wells till date in 40 villages during two years. Expenditure of more than Rs. 100 lakh.

Mrs. Tina Anil Ambani's visit to "Drinking water to all" 6th November 2007



Social Impact

- Easy availability of potable water
- Less time & energy required in water Sourcing
- Confidence in the community that '*they can do it*' and are capable of taking newer projects.

PROJECT SUSTAINABILITY

- ❑ After the completion of the project; we trained the local people for minor repairs and proper usage of the hand pumps was taught to all.
- ❑ Till date we have trained 120 people from 57 villages for minor repairing of bore wells.
- ❑ Apart from this we have taken lectures in different schools from these villages to make the children aware about the water scenario and proper usage of hand-pumps.
- ❑ These are a few steps taken for sustainability of the project.

GENDER SENSITIVITY

- ❑ In the villages we find that; when it comes to water women are the main sufferers.
- ❑ Hence while doing any of our project we considered their suggestions and feedback.
- ❑ Since they are the main users; we constructed as per their requirements.
- ❑ We are integrating economical, social, environmental and ethical concerns into our day to day business processes thus going beyond charity and legal obligations.

COMMUNITY EMPOWERMENT

- ❑ In every village where we initiated our project; we ensured community involvement.
- ❑ The involvement was not just for the construction of weirs; check dams or bore wells, it also encompassed taking permissions from the authorities.
- ❑ This gave an exposure to them to the Block Development Office. The result of this is their empowerment and the example is that very recently one of the villages brought the “Gadge Baba Swachata Abhiyan ” to their village and has been awarded ‘Nirmal Gram Puraskar’ from the state government.

Expenditure on various water management program

Year	Project	Beneficiaries	Expenditure
2005-06	Repair of weirs	3 villages	9000.00
	Construction of water check dam	4 villages	20,00,000.00
2006-07	Construction of Tube-wells and Hand-pump Installation (145Nos.)	42 villages	30,99,000.00
	Construction of weirs	3 villages	49,000.00
	Construction of Check Dams	3 villages	14,97,000.00
2007-08	Construction of Check Dams	2 villages	16,00,000.00
	Construction of Tube-wells and Hand-pump Installation (211Nos.)	15 villages	67,50,000.00
	Overhead Tank at Mahalakshmi Temple		14,00,000.00
TOTAL EXPENDITURE FOR THREE YEARS			1,64,04,000.00
Rs. One Crore, Sixty Four lakhs and Four Thousand only/-			

Now we will not have to walk long for water



THANK YOU.....