

## Gift of life for little ones

Cummins employees toiled to bring potable drinking water to the primary school at Deep Griha Society, Chaufula.



### **Background:**

Deep Griha Society (Marathi for 'Light House') was formed in Pune in 1975. Originally set-up as a Center for medical and health care for those residing in the slums of Pune, it has expanded over the years to work on various programs including health care, child care, education, women empowerment, youth empowerment and awareness on HIV / AIDS programs.

However, as there is no source of potable water, the region faces acute water shortage. The only available source is from bore-wells, which makes water practically inaccessible to the children of the primary school at Chaufula. Upon initial study, it was found that:

- Children have to bring water from home or purchase it from shops
- Only two storage tanks are available- first is the primary storage tank at ground level and another is placed at 10 feet above the ground level (capacity 10,000 litres)
- Water can be made available through rainwater harvesting
- No sufficient lighting in the school premises due to unavailability of electric power
- The available genset runs for 2 hours/day



- 1 HP pump to transfer water from the primary tank to above placed tank

To make water suitable for drinking for the children of the primary school, the system would need to meet certain criteria under IS:10500 standards:

- The system had to be automated, with no manual operation
- The system should produce continuous drinking water
- Water should be available round-the-clock for 60 children, which may go up to 300
- The system should be safe enough for children to use
- Install a water purifier to make the water safe for drinking
- Utilize solar energy, so that:
  - The purification system will work continuously
  - Sufficient drinking water would be available anytime
  - There is sufficient lighting at night, for safety

#### **Approach and effort:**

The idea was to make use of natural resources and create an environmentally-sustainable system that would work independently.

Consequently, it was decided that rain water harvesting would be the ideal approach to satisfactorily supply clean drinking water to the children.

#### **The project involved two phases:**

- **In phase 1**, RT&E implemented Rain Water Harvesting system at the Primary School to augment the ground water level.
- **In phase 2**, Cummins provided sustainable source of drinking water to the children at the same English Medium School at Deep Griha.

The various stringent processes and numerous Six Sigma tools used in the planning of the project ensured smooth implementation.

This project saw active participation of Cummins employees right from planning to the implementation stage. 11 Cummins employees spent a better part of their day in strategic planning for the project that also included building a small play area and planting trees.

#### **Resulting change:**

The Deep Griha project is yet another fine example of corporate responsibility. Children were delighted and the employees felt immense sense of satisfaction at having played a small part towards improving the lives of these children.



#### **The highlights of the system are:**

- Rain Water System has the potential of harnessing 1,42,000 litres of water every year. If not harvested, this water would have gone waste
- Provision of 300 litres/day of potable water sufficient for 400 children, which at the moment is non-existent
- Providing safe and filtered water, thereby eliminating probability of water-borne diseases
- Long-term sustainable mechanism, as storage of water is made available through this project

Besides that, there is no additional burden of electricity on the environment as the water purification system runs on solar power. There is provision for the system to run on electricity, in case of an emergency. The system is self-sustaining and minimal effort is required to operate and maintain it. Most importantly, no chemicals are added to purify the water.

## Channelizing student power

Cummins upgraded facilities at the ITI Phaltan, towards bettering vocational training.



### Background:

In an attempt to impart employable skills to the local youth, Cummins decided to adopt the Industrial Training Institute (ITI) Phaltan and upgrade it to a Center of Excellence. This ensures better facilities for students and faculty as well as assures the availability of high quality technicians to the industries being set up in and around Phaltan.

### The program aims to:

- Provide design assistance in upgrading the infrastructure
- Provide training on soft skills to students and faculty
- Increase institute and industry interaction
- Improve gender participation, etc.

Discussions are also on with the DVET (Director of Vocational Education and Training) to identify ways to impart vocational training to ITI candidates. This project will be implemented over a period of four years. This is the only Govt. run Trade School present in Phaltan, situated about 10 kms from the Cummins Megaseite. About 210 students study in this school.

## Approach and effort:

As part of its efforts to improve communities in and around Phaltan, Cummins decided to step in to upgrade the infrastructure and develop students and faculty.

The project was broadly implemented in two phases:

### Phase I

- Reactivate 'Institute Management Committee' (IMC)
- Add workshop equipment and create layout design
- Create power backup facility
- Create landscape for the institute
- Design and develop two new courses
- Increase diversity
- Devise a four year development plan and master layout

### Phase II

- Students' development
- Faculty development
- Introduce
  - 5S, Kaizen concepts,
  - Health and Safety Practices
- Finishing school
- Communication skills
- Work with the Government for infrastructure development outlined in the master layout

Cummins conducted a series of activities for successful implementation of the project:

- Carried out a Voice of Customer (VOC) of the faculty and students
- Benchmarked Government trade schools in Maharashtra
- Arrived at action items for improvement using relevant Six Sigma tools
- Gained approval to commence new courses
- Donated machineries to meet approval criteria
- Created awareness in schools for drawing girl students to the institute

- Helped to start bus service for the Trade school
- Carried out repairs and renovation to existing building
- Created landscape and power backup infrastructure
- Arranged industry visits of students and faculty
- Devised master layout and four year roadmap
- Recognized students and faculty for their contribution

## Resulting change:

As a result of this active campaign, 45 girls opted for the Trade School in 2011 as against 19 in the previous year. Besides that, other achievements at ITI Phaltan include:

- Introduction of two new courses - Diesel Mechanic & Machinist
- Transformation of 'Craftsman Training Scheme' (CTS) and 'Centre Of Excellence' (COE) workshop
- Introduction of industry best-practices
- Creation of additional classrooms
- Imparting training and providing training aids
- Building exterior given a facelift

