

CORPORATE SOCIAL RESPONSIBILITY (CSR)

At Triveni Turbines, we believe that the foundation of a robust business is the collective growth of its people and society. The Company is committed to create an environment that contributes to the well-being of communities and the conservation of nature.

CSR Objectives

The Company wishes to be perceived as a 'Company with conscience', and to actively and continually contribute to the social and economic development of the communities for the benefit of the deprived, under-privileged and differently able persons. Its approach will be based on merits only, without any regard to religion, caste or creed.

CSR Focus Areas

Keeping the corporate philosophy in mind, the following focus areas have been identified by the CSR Committee to meet the Company's CSR objectives:

- Healthcare
- Education
- Technology & Innovation
- Environment
- Women Empowerment



Highlights of the CSR Initiatives undertaken during FY 17

1) Healthcare

Triveni Turbines Preventive Health Programme (Triveni Turbines PHP) for Females

Triveni Turbine Ltd. (TTL) identified a project as part of its CSR plan which focused on preventing diseases, such as osteoporosis, breast cancer, cancer of the cervix & ovary, anaemia of various types and promoting healthcare in women, especially of the lower socio-economic strata in North Delhi. Under this project, the Company provided free investigations and medical advice/consultation to about 1230 women. The programme increased the awareness level of women towards health issues and the need for timely prevention.

Protecting the Girl Child from Cervical Cancer

The Company provided vaccination to 180 girls, especially of the lower socio-economic strata, in the age group 9-14 years to protect them from Cervical Cancer. Nearly 1,32,000 women in India suffer from Cervical Cancer and nearly 74,000 of these die each year but this can be easily prevented through vaccination given at an appropriate age. The programme was successful as apart from vaccination, it helped in creating awareness among the parents and girls about the potential threat and need for prevention.





Protecting the Infant Child from Rotavirus Diarrhoea

TTL identified a project under healthcare which focused on preventing Rotaviral diarrhea among infants. India accounts for nearly 23% of all Rotaviral diarrhoea deaths in the world. Rotavirus infection is highly contagious, most vulnerable being children less than 5 years of age. Vaccination against this disease has to be completed before 34 – 35 weeks of age. During the year, the project was implemented and free vaccination was given to 195 new-borns and infants upto the age of 8 months to protect them from rotaviral infection.

2) Education & Women Empowerment

Support to Nursing School

As part of CSR projects relating to promotion of education and women empowerment, the Company provided financial support to the Nursing School of a hospital to improve teaching standards, provide scholarships to good performers and deserving students, and subsidise fees to students from economically weaker section of the society.

Other Educational Initiatives

The Company supported the Government Model Primary School, Peenya, Bengaluru, for running a pre-nursery school catering to under-privileged children of the area.

The Company is also promoting special education among the differently abled children in Bengaluru. Around 280 children are benefitted under these projects.

3) Environment Sustainability

Water tool Applications for Sustainable Solutions, Enhanced capacities, and Renewal (WASSER)

Water continues to rise as a priority for India and Indian business in a scenario where there is an increased variability in water availability and the resource quality is deteriorating.

To facilitate appropriate decision making amongst diverse stakeholders on water, it is important to integrate data, tools and water networks into a comprehensive, simple to use system that can readily be used by industry, Government and diverse stakeholders such as farmers, utilities and community at large; enhance awareness, disseminate knowledge amongst various stakeholders on Tool to enhance improve water security of an area.

It is in this context that the project WASSER was undertaken in association with an implementation agency with the intent to develop state-of-the-art tools and world class techniques meeting international standards to raise awareness, build capacities of diverse stakeholders on usage of innovative methods and enable appropriate decision making for water resource planning in India.

Skill Development Intervention for Industry towards Environmental Sustainability for Operating Renewable Energy Plants

The Company conducted skill development programmes focusing on environment sustainability for operating renewable energy/ biomass/ co-generation power plants as part of its CSR initiative under environment sustainability. The goal of the programme was to enable the industry to achieve operational excellence by reducing carbon footprint and create an eco-system of environmentally sustainable organisations that contribute as much to the environment as they do to the economic progress of the country.

4) Technology & Innovation

During the year, the Company undertook certain technology and innovation based CSR projects in order to develop new processes/machineries to facilitate the use of renewable energy in power generation specifically in rural areas.





Organic Rankine Cycle (ORC) turbine loop development

There is a huge potential for recovery of energy from low-grade heat sources in rural and agricultural sectors, like biomass applications. With conventional products, like engines and turbines, it is not possible to efficiently recover such low-grade heat. The Company has undertaken a project with IIT Bombay for the design and development of Recuperator, Condenser & WHR Heat Exchanger as part of ORC turbine system, which is an effective and innovative way to recoup the otherwise wasted low-grade heat and convert to useful power.

Aeroloop set-up for High-Speed Turbomachinery

In India, research on high-speed turbomachinery is presently in nascent stage. These machines are compact and highly efficient for distributed power generation which is ideal for Indian rural sector. Indian Institute of Science is setting up a multipurpose test loop for trial runs and characterisation of high-speed micro-turbine

and compressor. As part of the CSR project, the Company is supporting IISc in setting up the Aeroloop system for High-Speed Turbomachinery, thereby encouraging research on a project of national importance.

Near Iso-Thermal Air Compressor for renewable power generation

Certain renewable energy power sources have not been successful much because of the problems of storing the generated power during their power generation cycle. One recent development in the field of energy storage is to utilise air compression techniques to store power generated during the uptime of the renewable energy power generation. For an energy efficient storage system, it is critical to have high efficiency air compression techniques to store the generated power during the uptime of the renewable energy power source. This is currently not available in India The Company is supporting the initiative of IIT Bombay in developing a Near Iso-Thermal Air Compressor, which improves the efficiency of air compressors used for renewable power generation and applications.