

Memorandum of Understanding  
for the realization of a research project on “Optimization of Regional Waste and Resource  
Management at Vapi Industrial Estate, India”

between

[the Deutsche Gesellschaft für Internationale Zusammenarbeit \(GIZ\) GmbH,](#)  
[the Eidgenössische Technische Hochschule Zürich \(ETHZ\),](#) and  
the [Gujarat Cleaner Production Centre \(GCPC\).](#)

The overall purpose of cooperation is to support the realisation of a research project on “Optimization of Regional Waste and Resource Management at Vapi Industrial Estate, India”.

The overall goal of the research project is to identify solutions for optimisation of waste management at regional level and to ensure sustainable use of resources so as to result in less or reduced or no deterioration of the natural environment. The research project is expected to come up with environmental decision support system concerning waste management.

The scope of the project includes:

- Detailed analysis of two-three key waste streams and the treatment alternatives.
- Optimization of waste and resource allocation based on environmental criteria.
- Development and analysis of future scenarios.

The areas of mutual interest of the three parties are:

- Collection of data and information on the present waste and resource management situation at Vapi Industrial Estate.
- Analysis and environmental assessment of treatment options for selected industrial waste streams at Vapi Industrial Estate.
- Optimization of the allocation of industrial wastes and resources at Vapi Industrial Estate based on environmental criteria to improve waste management and resource efficiency.
- Dissemination of the results of the research project in order to transfer the lessons learned to other industrial estates.