



## Industrial Waste Water Management (Common Effluent Treatment Plants)

Country: India Overall Term: March 2012 to February 2015

Implementing Agencies: GIZ (Deutsche Gesellschaft fuer Internationale Zusammenarbeit GmbH) of the German Federal Ministry for Economic Cooperation and Development (BMZ) and the Ministry of Environment and Forests (MoEF) of the Government of India

### Context

Under the Water (Prevention and Control of Pollution) Act, 1974, every industry has to provide adequate treatment of its effluents before disposal, irrespective of whether it is in stream, land, sewerage system or sea. The Common Effluent Treatment Plants (CETP) is considered a viable treatment solution for collective treatment of effluents, from small and medium scale industries particularly.

However, there are several problems associated with planning and management of CETPs with regards to the technical, business/financial and operational aspects. Considering the important role of CETPs and their contribution to sustainable economy, 'Waste Water Management' and successful planning and management of 'Common Effluent Treatment Plants' (CETPs) in industrial areas have been taken up as priority areas of work under the Indo-German Environment Partnership (IGEP) Programme of the on-going Indo-German Bilateral Development Cooperation.

### Objective

The overall objective of the technical cooperation on the core topic of 'Industrial Waste Water Management' is to pilot financially sustainable solutions for industrial waste water treatment in selected industrial

areas through Common Effluent Treatment Plants and to ensure that successful models are replicated significantly.

The solutions focus on technical, business and management issues for successful operation of CETPs. The pilot activities are focused in the states of Andhra Pradesh and Gujarat.

### Approach

The core topic on Industrial Waste Water Management (Common Effluent Treatment Plants) has the following approach:

- Baseline surveys and situation analysis is undertaken on CETPs in India to assess the current status and the core issues to be addressed in this regard.
- Pilot areas are strategically identified in selected states. In these areas, solutions are implemented on demonstration basis addressing the identified core issues.
- The experiences of the pilot examples are documented and their actual replication is targeted in different industrial areas of different states.
- Stakeholder consultations are taken up throughout the



project phase. It is aimed that these learnings and solutions are incorporated into policies, planning processes and guidelines.

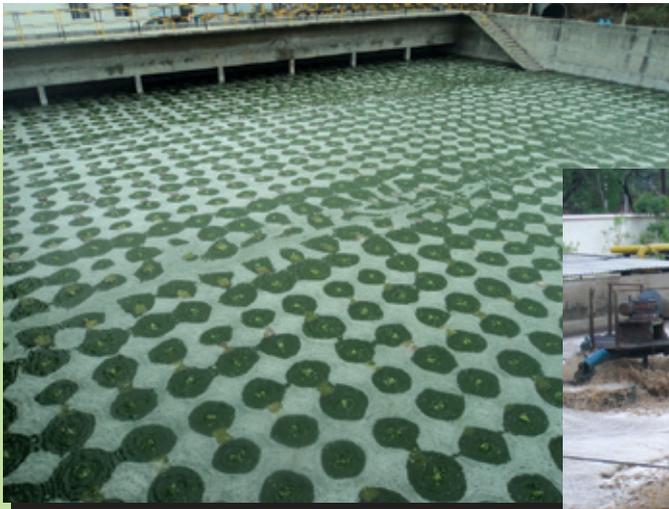
- Capacity building and knowledge management activities are undertaken simultaneously.

## Activities

In line with the adopted approach, IGEP takes up baseline survey and/or situation analysis to identify the exact problems to be tackled with respect to 'Industrial Waste Water Management' (Common Effluent Treatment Plants). Based on this, appropriate pilots are planned and implemented to demonstrate and generate knowledge on financially sustainable solutions for CETPs.

The main pilot interventions include:

- CETP in the industrial parks of Mallapur and Nacharam in Andhra Pradesh (Focus: Business and Management Model).



- CETP performance improvement in Vapi Industrial Estate in Gujarat (Focus: Technical Solutions).

- Self-employed Industrial Park at Kattedan, Andhra Pradesh (Focus: Overall Approach).

Stakeholder consultations are facilitated through workshops at national/state/local levels, and information on CETPs is shared and exchanged. Policy dialogues will also be undertaken for development of nationally and locally relevant standards, rules and policies. Building knowledge base on CETPs and

development of capacities at various levels underline all the above-mentioned activities.

Feedback from the pilot measures and practical experience will be guided into the formulation/review of policy guidelines (standards, rules, policies etc.) at national/state/local level.

Upscaling and replication of these demonstrated technologies and experiences is expected to take place under full responsibility of the partners. IGEP coaches the process and offers technical assistance if required. The programme also advises on how to monitor the impact of the up-scaled development measure.

## Expected Results

- Financially sustainable solutions for industrial waste water treatment are demonstrated on pilot basis by employing Common Effluent Treatment Plants in selected industrial areas.

- The experiences of the pilot examples are documented and the actual replication is promoted in different industrial areas of different states.



- Reference documents are developed and the national and state level actors are supported in the integration of learning and solutions for promoting sustainable industrial waste water management through CETPs.

- Capacity building and institutional strengthening measures are undertaken for identified institutions and/or stakeholders.

### Contact

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