



# Environment Friendly Techniques in Textiles Sector



November 2012

**Background**

The Gujarat Cleaner Production Centre (GCPC) has been established by the Gujarat Industrial Development Corporation (GIDC) in the year 1998 under the technical guidance of UNIDO and since then the centre is actively engaged in the promotion of Cleaner Production (CP)/Clean Technology (CT) through its various activities such as orientation/awareness programmes, CP Assessment Projects and CT Assessment Projects etc. GCPC has been registered in August 2008 under the Society Act, 1860 and Trust Act, 1950.

Contributions of GCPC over the years towards promotion of Cleaner Production in the state of Gujarat to improve the productivity and the environmental problems faced by SMEs have been significant. GCPC had also played active role in framing Industrial Policy 2003, 2004 and 2009 and also supported in developing many schemes pertaining to CP/CT. Several success stories from implementation of CP have been documented. In appreciation of the efforts of GCPC, though GCPC is a regional CP Centre, UNIDO has recognized it at par with National CPC and included in RECP (Resource Efficiency and Cleaner Production) networking membership.

The ongoing Indo German Development Cooperation has "Urban and Industrial Environmental Policy & Management" as one of priority areas of cooperation. The Indo German Environment Partnership (IGEP) Programme forms a part of this priority area, under which technical cooperation is planned to be being provided for identified Indian partner organisations by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), on behalf of the German Ministry for Economic Cooperation and Development (BMZ).

The IGEP Programme, which is implemented jointly by the Ministry of Environment and Forests (MoEF) of the Government of India and GIZ has a thrust area on Sustainable Industrial Development (SID) and under the SID component, one of the priority topics is "Environment Friendly Techniques in Identified Industry Sectors". The priority sectors to be covered in Gujarat are textiles sector and pulp & paper sector. The main activities being taken up are:

- Baseline surveys/Situation Analysis will be undertaken for the textiles sector in India/Gujarat and core issues related to environment, resource efficiency and climate change are to be assessed.
- Local level stakeholder consultations and state level workshops will be organised to exchange information on core environment related issues, potential solutions and possible pilots for demonstration.
- Pilot work to be detailed and a strategy has to be developed for demonstration of environment friendly technologies and techniques in selected industries from textiles sector.
- Environment-friendly technologies and techniques are to be demonstrated in selected textile industries.

GCPC and GIZ, in cooperation with volunteering industries from textiles sector, propose to take up pilot work in selected industrial clusters in Gujarat. Details are given below.

### **Objective of the Pilot Work on Environment Friendly Techniques in Textiles Sector:**

To demonstrate the use of environment-friendly technologies and techniques in selected textile industries in selected industrial clusters in Gujarat.

### **Pilot work in selected industries:**

For the pilot work to be taken up for demonstration purposes in selected industries from textiles sector, the following activities will be involved:

1. Selection: Potential industrial cluster(s) will be identified by GIZ and GCPC and consultations will be held with the industrial association and industries on the planned pilot work. Volunteering industries from the identified cluster, which show commitment for implementation of measure, will be identified.
2. The situation analysis/baseline study: will focus on documenting the baseline situation of the selected industry and identification of core environmental issues (resource efficiency, inefficient operations, pollution problems etc).
3. Identification of potential solutions: Best available techniques/technologies not entailing excessive costs, which could possibly be applied for the selected industry, will be identified using the BREF (Best Available Techniques not entailing excessive costs Reference Documents) from Germany, Comprehensive Documents of the Central Pollution Control Board etc. Possible innovative and advanced techniques/technologies that are financially viable/sustainable are to be demonstrated for environmental improvement and resource optimisation (energy, materials, waste, and emissions) in selected sector.

The identified potential solutions will be discussed with the industry's team for their technical and financial viability and sustainability. Accordingly, an Action Plan of measures to be implemented in the industry will be prepared. The measures may vary from simple reconstructions or adjustments to far reaching process changes. The measures could as well be fetching financial savings to the industry and could often be with 'low or no cost' solutions. The areas of solutions could be under the following topics:

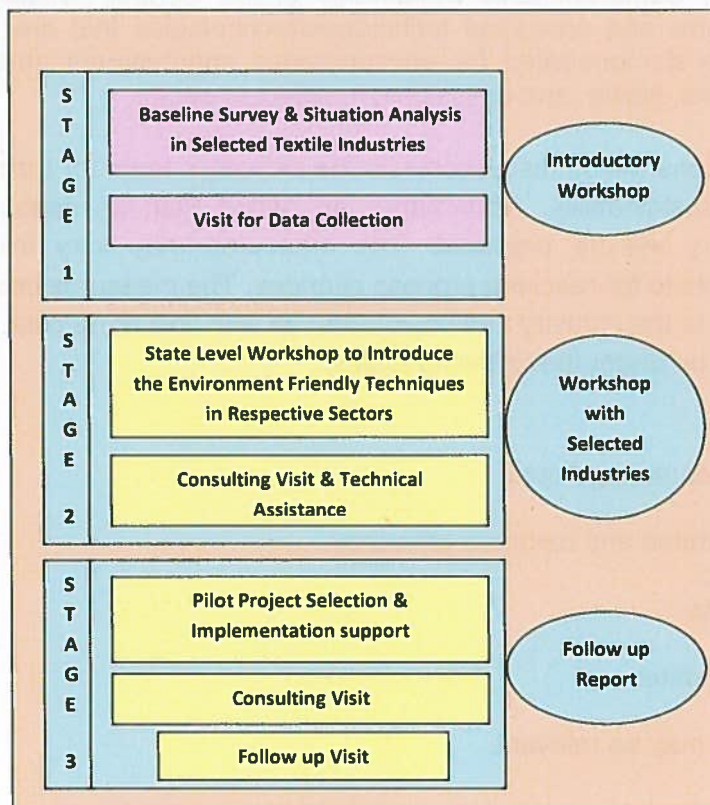
- Waste management.
- Water and waste water management.
- Energy management.
- Raw material conservation and resource efficiency.
- Carbon management.
- Process improvements.
- Supply chain.
- External charters/mandates.
- Life cycle analysis.
- Any other area which may be relevant.

4. Implementation/demonstration: Implementation of measures is to be taken up by the industry. The team of experts from GCPC and GIZ will provide guidance.
5. Knowledge sharing: The successfully implemented measures will be documented. The knowledge from the implementation of the pilot will be shared with the relevant stakeholders within the pilot state, as well as with the stakeholders from the other states for enabling replication of the implemented measures. Also, a policy dialogue could possibly be initiated for development of nationally or locally relevant standards, rules, policies etc.

The activities (1), (2), (3) and (5) will be taken up by the team of GIZ and GCPC with their own funds, while the activity (4) on implementation will have to be taken up by the industries. For implementation of measures, the industries will have to make their own investments and no funds will be available from GCPC or GIZ.

### Methodology:

The pilot work in the industries will be achieved in three stages as below.



## Submission of Expression of Interest (Eoi) by Volunteering Industries

Industries that are interested in participating in the pilot work for demonstration of technically and financially viable solutions should submit Expression of Interest in the enclosed format (Annexure I). GCPC/GIZ team will review the applications, make a preliminary assessment of potentials for improvements in the industry and will accordingly selected upto 10 industries for taking up the pilot work.

Filled-in Eoi should be submitted by the interested industries to the following address latest by November 23, 2012

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### For any clarifications, please contact:

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