

Third Report on Cleaner Production Promotional Activities

Supported by
Department of Forests and Environment
Government of Gujarat



Submitted by:



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Udhyog Bhavan, Gandhinagar

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Third Report on Cleaner Production Promotional Activities

Project Background:

Gujarat has achieved an impressive industrial development since its inception as a state since 1960. The industrial sector at present comprises of huge number of Micro Small, Medium and Large scale of industries. It has 204 industrial estates established by Gujarat Industrial Development Corporation (GIDC). The strengths of the industries lie in its Small and Medium Enterprises (SMEs).

The industrialization brought economic prosperity to the state, but also resulted in the deterioration of environment. It was realized that taking reactive steps was not a proper answer to pollution control, but there is a need of 'Proactive' step which can prevent the generation of pollutants; rather than treating the generated waste at the End-of-Pipe. Cleaner Production is the preventive approach for the environmental pollution.

Cleaner production is a preventive environmental protection initiative, which emphasizes on reduction of generation of wastage; rather than to treat the generated waste. It is intended to minimize waste and emissions and maximize product output. By analyzing the flow of materials and energy, options to minimize waste and emissions out of industrial process through source reduction strategies are identified. Implementation of Cleaner Production helps to reduce the use of materials and energy, and to avoid waste, waste water generation, and gaseous emissions, and also waste heat and noise and provides better choices for improved processes.

Cleaner production concepts have consequences for the whole life cycle of a product and can foster improvements in product design, selection of raw materials, and efficiency in production and/or energy use, safety during manufacture and consumer use, reparability and recyclables. The cleaner Production strategy is in full compliance with the concept of sustainable development.

Gujarat Cleaner Production Centre, established by the Department of Industries and Mines, Government of Gujarat; has been proactively engaged in the promotion and implementation of Cleaner Production in various industrial sectors of Gujarat since its inception in 1998. So far, GCPC has conducted more than 200 CP Assessments in various sectors like chemical, dyes & intermediates, pulp & paper, dairy, textile, electroplating, fishery, stone crushing, bentonite manufacturing and service sectors.

Though, by this time many industries have shown interest in CP, however, the implementation and demand has not been generated from the industries. Therefore, it is necessary to make industries aware about CP continuously. To motivate the industries, Department of Forests and Environment, Government of Gujarat has initiated for Proactive Concepts and supporting in implementation of Cleaner Production. As a part of this activity, Forests & Environment Department assigned a project to conduct Promotion Programme on Cleaner Production in various industrial sectors of Gujarat to Gujarat Cleaner Production Centre.

The main objective of the Promotion programme is to spread awareness on Cleaner Production in different sectors and to develop understanding of CP concept and its linkages in achieving overall environmental improvement and compliance.

This Third Report on Cleaner Production Promotional Activities includes the progress of the Cleaner Production Promotion Programme at Industrial Estates covering the period from February 2016 to March 2016.

Cleaner Production Promotion Programme:

Cleaner Production Promotion Programs at various industrial estates were conducted as below.

1. Cleaner Production Promotion Programme at Mehsana, Dated 03/03/2016
2. Cleaner Production Promotion Programme at Veraval Industrial Estate, Veraval, Dated 08/03/2016
3. Cleaner Production Promotion Programme at Kutch Saurashtra Productivity Council, Rajkot, Dated 11/03/2016
4. Cleaner Production Promotion Programme at Ankleshwar Industries Association Hall, Ankleshwar, Dated 14/03/2016
5. Cleaner Production Promotion Programme at Kathwada Industrial Estate, Kathwada, Dated 16/03/2016
6. Cleaner Production Promotion Programme at Four Point Shareton, Ahmedabad Dated 19/03/2016
7. Cleaner Production Promotion Programme at Narol Industrial Estate, Narol Dated 21/03/2016



Preparation of Promotion Programme:

Though to conduct Promotion Programme on Cleaner Production is a routine activity, but for this project an exclusive team of senior officials from GCPC have been formed under direct supervision of Member Secretary, GCPC. A descriptive presentations covering following themes have been prepared:

Industrialization & CP

- Industrial Scenario of Gujarat
- Measure for Environment Protection (End of Pipe) Treatment & Disposal
- Concept of CP
- Establishment and activities of GCPC
- Support by Department of Forests and Environment

CP Tools

CP Methodology

Success Stories of CP in –

- Textile Sector
- Chemical Sector
- Dyes and Dyestuff Sector
- Pharmaceutical Sector
- Electroplating Sector
- Recycle Paper Sector
- Pulp and paper sector
- Service Sector like Hotels & Hospitals
- Foundry Sector
- Stone Crushing Sector
- Bentonite Sector
- Fish Processing Sector

Financial Assistance

- Scheme of financial assistance for CP Implementation under Gujarat Industrial Policy – 2015 of Industries Commissionerate, Government of Gujarat

An environment friendly Jute Bags were distributed to all participants, consisting of:

- CD comprising of following things:
 - ✓ Guidelines on Cleaner Production Implementation in various sectors, Posters, Cleaner Production Booklets prepared by GCPC.
 - ✓ Schemes of financial assistance under Gujarat Industrial Policy 2015 of Industries Commissionerate, Government of Gujarat.
 - ✓ Copy of PowerPoint Presentations
- Writing Pad made of Recycled Paper
- Pen
- Programme Schedule

The details of the Promotion programme are given in the following pages.



Title:	Cleaner Production Promotion Programme at Mehsana.			
Events Details				
	Date	Place	Details	Contact Details
	3 rd March, 2016	Mehsana.	Gujarat, India	Email id: info@gcpcgujarat.org.in gcpc11@yahoo.com Tele-Fax: 079-23244147
Target Group	More than 20 participants from Mehsana.			
Organizer	Gujarat Cleaner Production Centre			
Institutions Involved	<ul style="list-style-type: none"> • Gujarat Cleaner Production Centre • Association of Chemical Technologists (India) 			
Objectives	The overall objective of the programme is to aware industries about the importance of cleaner production and its applications for overall environmental improvement			
Description of contents/ agenda	<p>The Cleaner Production Promotion Programme was organized at, Mehsana in association with Association of Chemical Technologists (India) to build wide spread understanding of the concept of Cleaner Production to various industrial sectors and industrial personnel by Gujarat Cleaner Production Centre on 3rd March 2016 at Mehsana.</p> <p>The participants of the programme included Mr. Jignesh Vyas, president, ACTI and other 15 members of ACTI.</p> <p>The inaugural session started with welcome speech from Shri. Jignesh Vyas, President, ACTI.</p> <p>Dr. Bharat Jain, Member Secretary, continued the session mentioning the difference between End of Pipe Treatment and Proactive Treatment for small scale industries. He requested the industries to enhance the participation and utilize the Government incentive for installation of cleaner/greener processes. He also gave glimpse of cleaner production concept with methodology including Financial Assistance Schemes from Gujarat Industrial Policy 2015 by Industries Commissionerate for successful implementation of CP in industry.</p> <p>After that, in the question – answer session, participants asked various questions regarding implementation of Cleaner Production. Other questions focused on criteria of eligibility for the financial assistance for Cleaner Production in Industrial Policy – 2015. These questions were answered by Dr. Jain.</p>			

	In concluding session, Dr. Bharat Jain, Member Secretary, GCPC gave vote of thanks to all the participants for giving their time for attending the programme.
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Photos of Event:



Title:	Cleaner Production Promotion Programme at Veraval			
Events Details				
	Date	Place	Details	Contact Details
	8 th March, 2016	Hotel Lords Inn, Veraval	Gujarat, India	Email id: info@gcpcgujarat.org.in gcpc11@yahoo.com Tele-Fax: 079-23244147
Target Group	More than 50 participants from Industries of Fish Processing Cluster of Veraval Industrial Estate.			
Organizer	Gujarat Cleaner Production Centre			
Institutions Involved	<ul style="list-style-type: none">Gujarat Cleaner Production CentreAssociation of Fish Processing, Veraval			
Objectives	The overall objective of the programme is to aware industries about the importance of cleaner production and its applications for overall environmental improvement			
Description of contents/ agenda	<p>The Cleaner Production Promotion Programme was organized at Hotel Lords Inn, Veraval to build wide spread understanding of the concept of Cleaner Production to various industrial sectors and industrial personnel by Gujarat Cleaner Production Centre on 8th March 2016 at Hotel Lords Inn, Veraval.</p> <p>The participants of the programme included Mr. Kenny Thomas, Veraval Industrial Association, Mr. Piyush K Fokandi, Secretary, VIA, Mr. Ghadiya, Regional Officer, Junagadh, GPCB and more than 50 participants from Veraval Fish Processing Units were invited.</p> <p>Mr. Kenny Thomas, Veraval Industrial Association shared his views and experience during their stint with Veraval Industries Association for improving the estate through cleaner production technologies and practices, thereby reducing air pollution and enhancing energy efficiency, with small examples.</p> <p>In the first technical session, Mr. Bharat Jain, Member Secretary, GCPC presented the industrialization in Gujarat with the steps taken by Government of Gujarat to tackle pollution problem both in the reactive and proactive way. Mr. Jain also discussed about the establishment of Gujarat Cleaner Production Centre with its result oriented activities with Cleaner Production Concept and its important tools and standard methodology.</p>			

In Second presentation, Mr. P R Rathod, Project Engineer, GCPC explained the successful case study of Cleaner Production Implementation in Fish Processing Industries.

Final presentation was taken up by Mr. Hiren Bhendwal, Project Engineer, GCPC. He explained the Industrial Policy- 2009, financial assistance given by Industries Commissionerate, GoG for industries to encourage and prevent the pollution problem.

At the end of the programme, there was a question and answer session. Many participants raised issue regarding pollution problem and role of CP. Many of them agreed for CP Assessment in their industries.

Concluding session, Mr. Kenny Thomas, VIA offered a vote of thanks to Chief Guest, GCPC Team, Members of Veraval Industries Association, GPCB Officials and all participants.

Photos of Event:





Title:	Cleaner Production Promotion Programme at Rajkot			
Events Details				
	Date	Place	Details	Contact Details
	11 th March, 2016	Ban Hall, Kutch Saurashtra Productivity Council, Rajkot	Gujarat, India	Email id: info@gcpcgujarat.org gcpc11@yahoo.com Tele-Fax: 079-23244147
Target Group	More than 50 participants from Industries of Rajkot Industrial Estate, Rajkot			
Organizer	Gujarat Cleaner Production Centre			
Institutions Involved	<ul style="list-style-type: none"> Gujarat Cleaner Production Centre Kutch Saurashtra Productivity Council, Rajkot 			
Objectives	The overall objective of the programme is to aware industries about the importance of cleaner production and its applications for overall environmental improvement			
Description of contents/ agenda	<p>The Cleaner Production Promotion Programme was organized at Kutch Saurashtra Productivity Council, Rajkot to build wide spread understanding of the concept of Cleaner Production to various industrial sectors and industrial personnel by Gujarat Cleaner Production Centre on 11th March 2016 at Ban Hall, Kutch Saurashtra Productivity Council, Rajkot.</p> <p>The participants of the programme included several industrialists from Rajko, Aji, Bhaktinagar and Metoda GIDC</p> <p>Mr. Hasubhai Dave, President, KSPC shared his views and experience during their stint with Rajkot Industries Association for improving the estate through cleaner production technologies and practices, thereby reducing air pollution and enhancing energy efficiency, with small examples.</p> <p>In the Technical Session, Mr. Bharat Jain, Member Secretary, GCPC discussed about the industrialization in Gujarat with the steps taken by Government of Gujarat to tackle pollution problem both in the reactive and proactive way. He explained the concept of Cleaner Production with important tools and standard methodology and the importance of CP for each and every sector and its potential as well. He also discussed good examples of Waste minimization at source to reduce the pollution load.</p> <p>Dr. Bharat Jain also gave brief introduction about the incentive schemes</p>			

announced by the Industrial Department of GoG to encourage industrial units to implement Cleaner Production and take up measures to prevent pollution problem.

At the end of the technical session, question-answer session was conducted. In this session, industrialists were keen to know about industrial policy procedure and different scheme of the government of Gujarat. Industrialists from foundry also wanted to know about the Cleaner Production best practices for foundry process. Mr. Bharat Jain, Member Secretary, GCPC gave satisfactory answer to all the participants. They also explained policy and necessary documentation for the same.

The programme ended with vote of thanks.

Photos of Event:





Title:	Cleaner Production Promotion Programme at Ankleshwar			
Events Details	Date	Place	Details	Contact Details
	14 th March, 2016	Ankleshwar Industries Association Hall, Ankleshwar	Gujarat , India	Email id: info@gcpcgujarat.org gcpc11@yahoo.com Tele-Fax: 079-23244147
Target Group	More than 75 participants from Industries of Ankleshwar Industries Association Hall, Ankleshwar			
Organizer	Gujarat Cleaner Production Centre			
Institutions Involved	<ul style="list-style-type: none"> Gujarat Cleaner Production Centre Ankleshwar Industries Association 			
Objectives	The overall objective of the programme is to aware industries about the importance of cleaner production and its applications for overall environmental improvement			
Description of contents/ agenda	<p>The Cleaner Production Promotion Programme was organized at Ankleshwar Industries Association Hall, Ankleshwar to build wide spread understanding of the concept of Cleaner Production to various industrial sectors and industrial personnel by Gujarat Cleaner Production Centre on 14th March 2016 at Ankleshwar Industries Association Hall, Ankleshwar</p> <p>Total 75 members Participation from Industries of Ankleshwar Industrial Estate.</p> <p>In the first presentation, Mr. Bharat Jain, Member Secretary, GCPC, presented the visions of Cleaner Production, as well as sustainable production and consumption. Mr. Jain gave the introduction of Industrialization of Gujarat with the action taken by the State Government to prevent pollution problem both in a reactive and proactive approach manner. Mr. Jain also discussed Cleaner Production Tools and Systematic Methodology with Best Practices Example of Cleaner Production in industries. He also gave a brief introduction on clean Technology Mainly used in Bleaching, Dyeing etc in Textile Processing Industries. He also discussed his experience in Various industries during the Implementation of the Cleaner Production Implementation Project in Textile Industries which resulted in water and energy saving.</p> <p>Dr. Bharat Jain, Member Secretary, continued the session and explained the Industrial Policy of Government of Gujarat and SIDBI for promotion and propagation of Cleaner Production. The presentation consists of</p>			

	<p>Financial Assistance for MSMEs sector and Cluster of Industries for bundling projects.</p> <p>After that, in the question – answer session, participants asked various questions regarding implementation of Cleaner Production. Other questions focused on criteria of eligibility for the financial assistance for Cleaner Production in Industrial Policy – 2015. These questions were answered by Dr. Jain.</p> <p>In concluding session, Mr Dr. Bharat Jain, Member Secretary, gave vote of thanks to all the participants for giving their time for attending the programme.</p>
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Photos of Event:



Title:	Cleaner Production Promotion Programme at Kathwada Industrial Estate, Kathwada			
Events Details	Date	Place	Details	Contact Details
	14 th March, 2016	Ankleshwar Industries Association Hall, Ankleshwar	Gujarat , India	Email id: info@gcpcgujarat.org gcpc11@yahoo.com Tele-Fax: 079-23244147
Target Group	More than 30 participants from Industries of Kathwada Industrial Estate, Kathwada			
Organizer	Gujarat Cleaner Production Centre			
Institutions Involved	<ul style="list-style-type: none"> • Gujarat Cleaner Production Centre • Kathwada Industries Association 			
Objectives	The overall objective of the programme is to aware industries about the importance of cleaner production and its applications for overall environmental improvement			
Description of contents/ agenda	<p>The Cleaner Production Promotion Programme was organized at Kathwada Industrial Estate, Kathwada to build wide spread understanding of the concept of Cleaner Production to various industrial sectors and industrial personnel by Gujarat Cleaner Production Centre on 14th March 2016 at Kathwada Industrial Estate, Kathwada.</p> <p>Total 30 members Participation from Industries of Kathwada Industrial Estate, Kathwada.</p> <p>Dr. Bharat Jain, Member Secretary, GCPC initiated a presentation on Cleaner Production. In his presentation, he explained to all participants the importance of resource conservation and reduction of waste at all the process stages, particularly in polluting industries of chemical sector. He also explained the concept of sustainable economic growth and asked all industries to practice it in their units. He also briefed on the emergence of the concept of pollution prevention by giving the examples of some historical disasters in India and the world, such as the Great London Smog of 1952 and the Bhopal Gas Tragedy of 1984. He said that the 'pollution treatment' (End of pipe) will not only be sufficient for answering to the poor condition of environment, there is an urgent need of 'pollution prevention' strategy (Cleaner Production).</p> <p>He also mentioned about the Cleaner Production tools, methodologies of implementation, barriers to implementation, inception of GCPC and its role in industrial estates to implement, demonstrate and promote Cleaner Production, GCPC's activities, and achievements at</p>			

international, national and local level.

After that, Mr. Sumit Patel, Assistant Project Engineer, GCPC made a presentation on case studies of successful implementation of Cleaner Production in some industries of dyes and intermediates, chemicals and pharmaceutical industries. He made a comparison between raw material consumption, energy consumption and water consumption before implementation of CP and after implementation of CP. He also discussed various best available techniques to improve processes and best use of resources.

After that, Mr. P. R. Rathod again made a presentation on the schemes of financial assistance available under the Gujarat Industrial Policy – 2015 of Industries Commissionerate, Government of Gujarat for implementing Cleaner Production in industries. He explained all the schemes in details and promoted the participants to utilize the scheme by implementing Cleaner Production in their units. With that, he also explained about Cleaner Production Award of Government of Gujarat, being awarded annually to the industries that successfully implement Cleaner Production and reduce emissions to air, water and land and preserve resources in both small & medium scale and large scale industries.

After that, in the question – answer session, participants asked various questions regarding implementation of Cleaner Production. Other questions focused on criteria of eligibility for the financial assistance for Cleaner Production in Industrial Policy – 2015. These questions were answered by Mr. P. R. Rathod, Senior Project Engineer, GCPC.

In concluding session, Dr. Bharat Jain, Member Secretary, GCPC, gave vote of thanks to all the participants for giving their time for attending the programme.



Photos of Event:



Title:	Cleaner Production Promotion Programme at Hotel four Point Shareton, Ahmedabad.			
Events Details				
	Date	Place	Details	Contact Details
	19 ^h March, 2016	Hotel four Point Shareton, Ahmedabad.	Gujarat , India	Email id: info@gcpcgujarat.org.in gcpc11@yahoo.com Tele-Fax: 079-23244147
Target Group	More than 30 participants from Industries of Hotel four Point Shareton, Ahmedabad.			
Organizer	Gujarat Cleaner Production Centre			
Institutions Involved	<ul style="list-style-type: none"> Gujarat Cleaner Production Centre ENVIS, MoEF&CC, GoI 			
Objectives	The overall objective of the programme is to aware industries about the importance of cleaner production and its applications for overall environmental improvement			
Description of contents/ agenda	<p>The Cleaner Production Promotion Programme was organized at Hotel four Point Shareton, Ahmedabad to build wide spread understanding of the concept of Cleaner Production to various industrial sectors and industrial personnel by Gujarat Cleaner Production Centre on 19th March 2016 at Hotel four Point Shareton, Ahmedabad</p> <p>Shri R. Parthsarthy IAS (Retired), Additional Chief Secretary, Forests & Environment Department, GoG was invited as a Chief Guest of the seminar, while Shri Shankarbhai R Patel, immediate passed President, Gujarat Chamber of Commerce and Industry & Chairman, The Green Environment Services Co-Op, Soc. Ltd and Shri Jignesh A. Vyas , President , ACTI, were invited as special guests. On special request, Shri Jatin Patel, President, Naroda Industries Association was also present.</p> <p>Representatives from various Industries, Members of Association of Chemical Technologists, India, Professors and Research Scholars from St.Xaviers Collage, M.G Science College, Bhawan's Science College, School of Science, National Institute of Design, R.C.Technical Institute and Gujarat University had participated in the seminar.</p> <p>In the first technical session, Mr. Bharat Jain, Member Secretary, GCPC presented the industrialization in Gujarat with the steps taken by Government of Gujarat to tackle pollution problem both in the reactive and proactive way. Mr. Jain also discussed about the establishment of</p>			

Gujarat Cleaner Production Centre with its result oriented activities with Cleaner Production Concept and its important tools and standard methodology.

After that, Mr. P. R. Rathod again made a presentation on the schemes of financial assistance available under the Gujarat Industrial Policy – 2015 of Industries Commissionerate, Government of Gujarat for implementing Cleaner Production in industries. He explained all the schemes in details and promoted the participants to utilize the scheme by implementing Cleaner Production in their units. With that, he also explained about Cleaner Production Award of Government of Gujarat, being awarded annually to the industries that successfully implement Cleaner Production and reduce emissions to air, water and land and preserve resources in both small & medium scale and large scale industries.

After that, in the question – answer session, participants asked various questions regarding implementation of Cleaner Production. Other questions focused on criteria of eligibility for the financial assistance for Cleaner Production in Industrial Policy – 2015. These questions were answered by Mr. P. R. Rathod, Senior Project Engineer, GCPC.

In concluding session, Shri R. Parthsarthy IAS (Retired), Additional Chief Secretary, Forests & Environment Department, GoG gave vote of thanks to all the participants for giving their time for attending the programme.

Photos of Event:





Title:	Cleaner Production Promotion Programme at Narol Industrial Estate, Narol			
Events Details	Date	Place	Details	Contact Details
	21 st March, 2016	Narol Industrial Estate, Narol	Gujarat , India	Email id: info@gcpcgujarat.org gcpc11@yahoo.com Tele-Fax: 079-23244147
Target Group	More than 15 participants from Industries of Kathwada Industrial Estate, Kathwada			
Organizer	Gujarat Cleaner Production Centre			
Institutions Involved	<ul style="list-style-type: none"> Gujarat Cleaner Production Centre The Ahmedabad Textile Processors Association 			
Objectives	The overall objective of the programme is to aware industries about the importance of cleaner production and its applications for overall environmental improvement			
Description of contents/ agenda	<p>The Cleaner Production Promotion Programme was organized at Narol Industrial Estate, Narol to build wide spread understanding of the concept of Cleaner Production to various industrial sectors and industrial personnel by Gujarat Cleaner Production Centre on 14th March 2016 at Narol Industrial Estate, Narol.</p> <p>Total 30 members Participation from Industries of Narol Industrial Estate, Narol .</p> <p>Dr. Bharat Jain, Member Secretary, GCPC initiated a presentation on Cleaner Production. In his presentation, he explained to all participants the importance of resource conservation and reduction of waste at all the process stages, particularly in polluting industries of chemical sector. He also explained the concept of sustainable economic growth and asked all industries to practice it in their units. He also briefed on the emergence of the concept of pollution prevention by giving the examples of some historical disasters in India and the world, such as the Great London Smog of 1952 and the Bhopal Gas Tragedy of 1984. He said that the 'pollution treatment' (End of pipe) will not only be sufficient for answering to the poor condition of environment, there is an urgent need of 'pollution prevention' strategy (Cleaner Production).</p> <p>He also mentioned about the Cleaner Production tools, methodologies of implementation, barriers to implementation, inception of GCPC and its role in industrial estates to implement, demonstrate and promote Cleaner Production, GCPC's activities, and achievements at</p>			

	<p>international, national and local level.</p> <p>After that, Mr. P. R. Rathod made a presentation on case studies of successful implementation of Cleaner Production in some industries of dyes and intermediates, chemicals and pharmaceutical industries. He made a comparison between raw material consumption, energy consumption and water consumption before implementation of CP and after implementation of CP. He also discussed various best available techniques to improve processes and best use of resources.</p> <p>Mr. P. R. Rathod again made a presentation on the schemes of financial assistance available under the Gujarat Industrial Policy – 2015 of Industries Commissionerate, Government of Gujarat for implementing Cleaner Production in industries. He explained all the schemes in details and promoted the participants to utilize the scheme by implementing Cleaner Production in their units. With that, he also explained about Cleaner Production Award of Government of Gujarat, being awarded annually to the industries that successfully implement Cleaner Production and reduce emissions to air, water and land and preserve resources in both small & medium scale and large scale industries.</p> <p>After that, in the question – answer session, participants asked various questions regarding implementation of Cleaner Production. Other questions focused on criteria of eligibility for the financial assistance for Cleaner Production in Industrial Policy – 2015. These questions were answered by Mr. P. R. Rathod, Senior Project Engineer, GCPC.</p> <p>In concluding session, Dr. Bharat Jain, Member Secretary, GCPC, gave vote of thanks to all the participants for giving their time for attending the programme.</p>
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Photos of Event:





Gujarat Cleaner Production Centre

Established by Industries & Mines Department
(Government of Gujarat)

