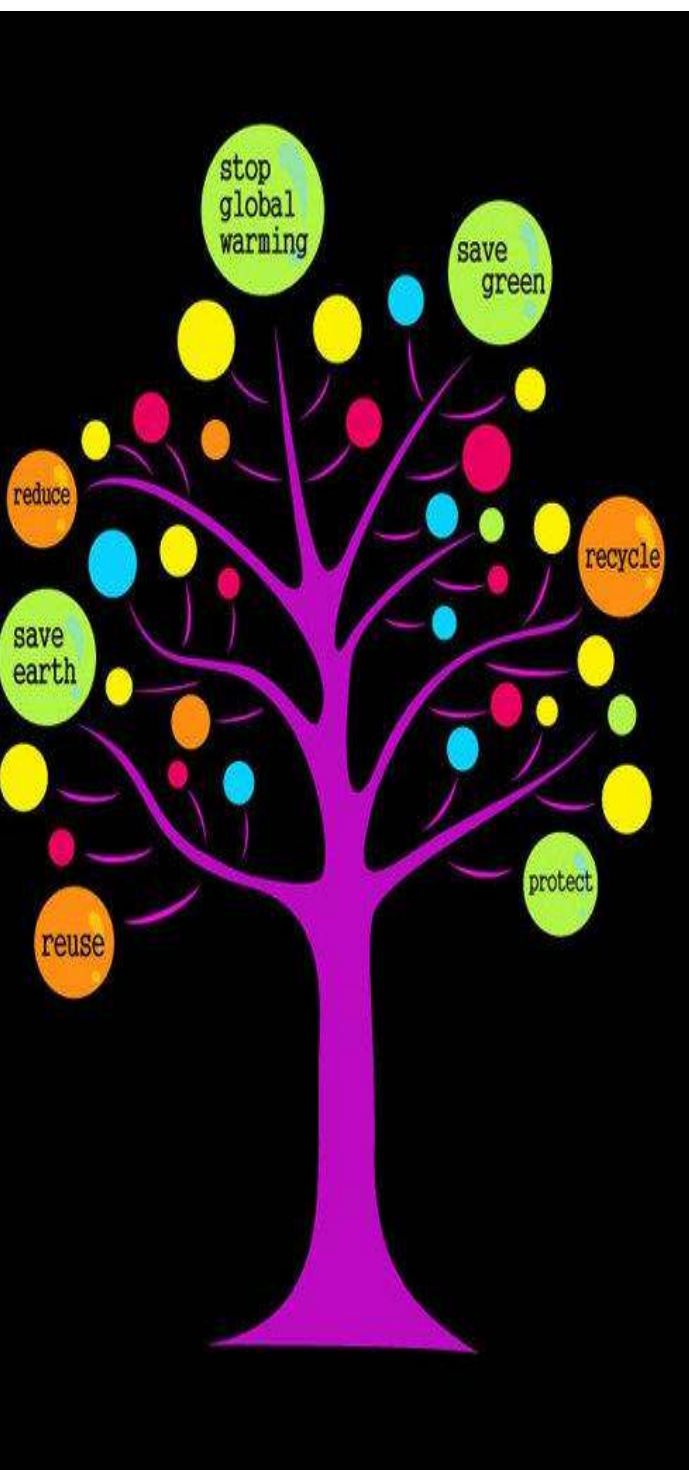




Annual Report 2013-2014



**GUJARAT CLEANER PRODUCTION CENTRE
ENVIS CENTRE**

**BLOCK NO: 11-12, 3rd FLOOR,
UDHYOG BHAVAN, SECTOR – 11,
GANDHINAGAR, GUJARAT-382017**

www.gcpcenvis.nic.in

gcpc-env@nic.in

Preface

Gujarat is one of the most developed states of India. It has become a major hub for different industrial sectors such as chemical industries, cement industries, refineries, mining and foundry industries, distillery industries etc. Due to this rapid industrialization, industrial pollution is becoming a critical concern. Gujarat is witnessing a rapid degradation of its environment. Industrial development has resulted in the dilapidation of the environment. This destruction needs to be stopped. In order to retain and revive its environmental balance, the state government has undertaken various initiatives to create a balance between the ECOLOGY and ECONOMY by reducing the industrial impact on the environment. One such initiative is Cleaner Production which is based on PROACTIVE and PREVENTIVE approach. This sensible approach believes in avoiding the creation of a problem rather than trying to solve it.

GCPC-ENVIS through its various Orientation Programmes, Training Programmes, and Demonstration Projects etc has been successfully able to spread the message of Cleaner Environment in various sectors. In the era, where competition is at its peak, if a spirit for adopting CP techniques is achieved, then probably half of the battle will be won. We can then perhaps, with pride, give our coming Generation a better world to live.

B.B Swain, IAS

Chairman GCPC

Date: 22nd April, 2014

FOREWARD

Realizing the potential of Cleaner Production in the state of Gujarat, Gujarat Cleaner Production Centre was established in the year of 1998, with the technical support of United Nations International Development Organization (UNIDO) and by the Industries Department of the State Government. On January 2003, GCPC got officially on the ground as an ENVIS centre working on the thematic area of “Cleaner Production and Technology”. It’s been 11 years since then, I am pleased to present an annual report of GCPC Environment Information System. This report provides a summary of many of the activities carried out by members of the Facility for the period of April 2013- March 2014.

Since its launch, GCPC-ENVIS has been working constantly on disseminating and promoting CP/CT by exercising various activities such as conducting workshops and seminars on diverse topics. GCPC-ENVIS has published thirty six issues of quarterly newsletters since July 2003. It has also published various posters, bibliographies, books etc on Cleaner Production processes and techniques of different industrial sectors. In today’s era the most recent source for dissemination of information is a web site. Hence, GCPC-ENVIS website includes all the information including CP-CT methodology, tools, concepts, successes stories etc. It is frequently updated and upgraded with new findings and concepts.

Over the last 11 years, GCPC-ENVIS has become a hotspot for various information and primary data source on Cleaner Production processes and techniques for different industrial sectors. I believe that the Facility is successful through the good will and personal contributions made by its members. I would like to especially thank the GCPC and ENVIS team members for their technical and managerial assistance in disseminating and promoting CP/CT theme.

Bharat Jain

Member Secretary,

GCPC

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24.	Annexure: A book on “Cleaner Production and its application to Industries” – 2 copies	
25.	Newsletters : April-June, July-Sept, Oct-Dec. (2-Copies each)	

Government of India
Ministry of Environment & Forests
(EI Division)

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Format for the Annual Progress Report on Activities of ENVIS Centres

1.	Name of Host Organization:		Gujarat Cleaner Production Centre					
2.	Assigned Subject Area:		Cleaner Production and Clean Technology					
3.	Date/Month/Year of establishment of ENVIS Centre:		18/01/2003 as ENVIS node Feb-2005 As ENVIS Centre					
4.	Name and designation of ENVIS Coordinator:		Ms. Chinkal.B.Patel					
5.	Current ENVIS Staff Structure:							
	Name	Position held	Qualification and Experience	Joining Date in ENVIS Centre	Joining Date in current position	2013-14		
						Leaving Date (if applicable)	Emoluments drawn (□)	
						Monthly	Annual	
	Ms. Chinkal.B. Patel	Co-ordinator	M.E & B.E Chemical Engineering	1/11/12	1/11/12	-		
	Ms. Janki.U.Dave	IT officer/ Assistant/ Environment Scientist	M Sc. Environmental Science	1/4/12	1/4/12	31/5/13	14700	41681
	Ms. Aagnya Pandit	Programme Officer	B.E Environmental Engineering	1/3/13	1/6/13	28/2/14	18700	210338
	Mr. Zankesh Jain	Program cum IT Assistant (Part time)	B.C.A	1/4/13	1/4/13	28/2/14	3000	33000
	Mr. Heer Desai	IT Officer/ Assistant	P.G Diploma in Master in Environment Sustainable Development, B.A (Geography)	17/10/13	17/10/13	-	8000 ↓ 10000	35407
	Ms. Divya Namboothiri	Programme Officer	M Sc. Environmental Science	23/1/14	23/1/14	-	12000	15483
	Ms. Mona Pitroda	Program cum IT Assistant	B.E IT	1/3/14	1/3/14	-	12000	-

6.	Mandate of the Host Organization	Mandate of the ENVIS Centre
	<ul style="list-style-type: none"> • Er. Bharat Jain (Member Secretary, GCPC) • Ms. Chinkal.B.Patel , (Project Engineer,GCPC), • Mr. Hiren Bhendwal, (Project Engineer,GCPC), • Mr. Punamchandra Rathod (Project Engineer, GCPC), • Mr. Gopal Chaudhari, (Asst. Project Engineer, GCPC), • Ms. Dipali Sankharia, (Asst. Project Engineer, GCPC) • Mr. Patel Sumit kumar Vishnubhai (Asst. Project Engineer, GCPC) • Mr. Keyur.J.Vaghasiya (Asst. Project Engineer, GCPC), • Mr. Dhaval.R.Meuva (Project Assistant) • Mr. Hardik.B.Patel (Asst. Project Engineer, GCPC) • Ms.Khusbu.G.Sonawane (Asst. Project Engineer, GCPC) • Mr. Pratik.M.Smart (Project Assistant) • Ms. Drashti.M.Sankhariya (Computer Operator) • Mr. Himanshu Trivedi (Accounts/Admin.Officer) • Mr. Narendra Bhavsar (Clerk cum Typist) • Mr. Mayank Valera (Office Assistant) 	<ul style="list-style-type: none"> • Er. Bharat Jain (Member Secretary, GCPC) • Ms. Chinkal.B.Patel (Co-ordinator) • Ms. Divya Namboothiri (Programme Officer) • Mr. Heer Desai (Information Assistant) • Ms. Mona Pitroda (IT Assistant)

7. Databases:

7.1. Catalogue of Non-numeric Databases compiled by the ENVIS Centre till date:

Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/year of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Poster on various E waste	Types of E-Waste and its growth	Descriptive and Graphical	-	-	No
Cleaner Production Guidelines	Guidelines Published by GCPC on following 4 Sector: 1.Pulp & Paper 2.Electroplating 3.Hotels 4.Hospitals	Descriptive	-	-	No
Poster (Energy Conservation)	It has brief description of energy saving in furnace ,boiler, DG sets, Motors, Pumps, Compressors, HVAC	Descriptive and Graphical	-	-	No
Poster (Water Conservation)	It consists of water conservation techniques, present practices.	Descriptive and Graphical	-	-	No
Poster (Good Housekeepig)	It consists of different elements of housekeeping	Descriptive and Graphical	-	-	No
Poster (Renewable energy)	Solar energy ,Wind energy, Geothermal energy ,Tidal Energy	Descriptive and Graphical	-	-	No
Poster (Cleaner Production)	It consist of Cleaner Production concept, Benefits of Cleaner Production	Graphical	-	-	No
Poster (Industrial application of solar energy)	It consists of different application of solar energy in industry.	Graphical	-	-	No
Poster (A to Z of cleaner production)	Cleaner production application in different environmental problems.	Descriptive and Graphical	-	-	No
CP guidelines in Dyes & Dye	A book on Cleaner Production processes and CP techniques in Dyes &	Descriptive	-	-	No

Intermediates	Dye Intermediates				
Cleaner Production in Electroplating	Article on CP in Electroplating industries with case studies	Descriptive	-	-	No
Cleaner Production in Textile Industry	Article on CP in Textile Industry with case studies	Descriptive	-	-	No
Cleaner Production in Waste Paper Recycling Industrial Sector	Article on CP in Waste Paper Recycling Industrial Sector with case studies	Descriptive	-	-	No
Cleaner Production in Foundry industries	Article on CP in Foundry industries	Descriptive	-	-	No
Pulp and Paper Sector	A small booklet on CP/CT Implementation in Pulp and Paper Sector with case studies conducted by GCPC	Descriptive and Graphical	-	-	No
Textile Sector	A small booklet on CP/CT Implementation in Textile Sector with case studies conducted by GCPC	Descriptive and Graphical	-	-	No
A leaflet on Stone Crushing Unit	CP Tips With process flowchart Standards for suspended particulate matter, Sources and Adverse impact of Dust, with quarry and Environmental problems in Stone crushers	Descriptive and Graphical	-	-	No
Poster on Stone Crushing Unit	Pictures of different stone crushing unit and equipments used for the same	Graphical	-	-	No
Leaflet on 4R Profitable Road for Sustainable Development	Facts and Advantages of 4R Concept	Descriptive and Graphical	-	-	No
Poster on Responsible Production	Concept of Responsible Production	Graphical	-	-	YES
8 Abstracts	Abstract on	Descriptive	-	-	Available in

are available	<ul style="list-style-type: none"> • Resine Production Chemical Industry • Cleaning-reduce the variety of chemicals in use • Quantitative evaluation method for the promotion of cleaner production using non-chlorinated cleaning alternatives in electroplating job shops • Economic Growth with Cleaner Production Waste water- an untapped resource and opportunity, not a problem • waste reduction case studies • Removal of Arsenic (III) by activated tea waste and activated charcoal: A Comparative Study. • Cleaner Production Cases in Textile Industry 				the Annual Report of 2004-2005
Poster on 4R key to Clean and Green Environment	Recycle Paper/Plastic/Glass	Descriptive and Graphical	-	-	NO
Poster on Cleaner Production in Electroplating Industry	Electroplating is one of the varieties of several techniques of Metal Finishing	Descriptive and Graphical	-	-	No
Poster on Process Intensification in Vinyl Sulphone in Dye Sector	Objective and Scope/Manufacturing Process	Descriptive and Graphical			

7.2. Catalogue of Numeric and Time-series Databases compiled by the Centre till date:

Name of Database	Description (in brief)	Time Period (Starting year-Ending year) and Periodicity (annual/monthly/ other)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Cleaner Production and its application to Industries	A Book on CP measures in different sectors such as Pharmaceutical, Hotel, Hospital, Dyes and Dyes intermediate, Pulp and Paper, etc.	2008-2010	-	NO

7.3. New Databases developed during the previous Financial Year (2013-14):

7.3.1. Non-numeric Databases:

Name of Database	Description (in brief)	Data type (Descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/year of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
CP/CT measures for Major Polluting Sector	Cleaner Production Processes for 17 major polluting industries	Descriptive and Graphical	06/01/14	http://gcpcenvis.nic.in/cpct_measures.aspx	YES
Green Growth Cleaner Production	Potential Green Growth in India and Gujarat and the state's initiative in environment conservation	Descriptive	13/01/14	http://gcpcenvis.nic.in/Experts/Green%20Growth%20Cleaner%20Production.pdf	YES
Cleaner Production & Sustainability	Sustainable development and CP tools to achieve sustainability	Descriptive	21/01/14	http://gcpcenvis.nic.in/Experts/Cleaner%20Production%20&%20Sustainability.pdf	YES
Cleaner	Industrial Policy and	Descriptive	24/01/14	http://gcpcenvis.nic.in	YES

Production Policy	Policies to promote CP-An Indian Perspective			c.in/Cleaner.aspx	
Research Paper on CP	Research Topics – Subject Area- Related links are provided	Descriptive	12/03/14	http://gcpcenvvis.nic.in/Research_paper-1.pdf	YES
CP in Offices	Tips to execute CP in offices	Descriptive and Graphical	26/11/13	http://gcpcenvvis.nic.in/CP%20in%20office.pdf	YES
Tips to go Green	Ways to save Energy and to minimize waste	Descriptive	26/11/13	http://gcpcenvvis.nic.in/TIPS%20TO%20GO%20GREEN.pdf	YES
4R in waste paper unit	Solid waste management of waste paper	Graphical	06/02/13	http://gcpcenvvis.nic.in/4R%20in%20waste%20paper%20unit.png	YES
3R in paper unit	Reuse, Recycle and Recover in waste paper based mill	Graphical	06/12/14	http://gcpcenvvis.nic.in/3R%20in%20paper%20unit.png	YES
Global Warming	Causes and Effects of Global warming	Graphical and Descriptive	14/02/14	http://gcpcenvvis.nic.in/Global%20Warming.JPG	YES
Plastic Use	Tips to No Plastic	Graphical and Descriptive	19/02/14 27/02/14	http://gcpcenvvis.nic.in/Plastic%20Use.JPG	YES
4R Concept	Environment Friendly practices with waste management	Graphical and Descriptive	01/03/14	http://gcpcenvvis.nic.in/4R%20Concept.JPG	YES
Green Economy	Need for Green Economy	Graphical and Descriptive	02/03/14	http://gcpcenvvis.nic.in/Green%20Economy.pdf	YES
Textile Bio-sourcing Poster	Application of Bio-sourcing process in Textile Sector	Descriptive	02/03/14	http://gcpcenvvis.nic.in/Textile%20-%20Bio%20sourcing%20Poster.JPG	YES
Responsible Production	Tips to Responsible Production	Graphical and Descriptive	02/03/14	http://gcpcenvvis.nic.in/Responsible%20Production.pdf	YES

Experts	Details of Regional Experts, National Experts and International Experts on the subject “Cleaner Production and Clean Technology”	Descriptive	06/03/14	http://gcpcenvi.c.in/Experts.aspx	YES
CP Case studies	CP case study on Chemical sector, Dyes & Dye Intermediates, Dairy, Textile, Fishery, Stone, Pulp and Paper, Electroplating, Service Sector and Responsible Production	Graphical and Descriptive	17/02/2014	In the module “Cleaner Production for Better Environment” we have provided a link of Case Studies wherein CP has been implemented by the GCPC, to disseminate the same.	YES
Basic concept of Cleaner Production	A Brief on CP tools, Concepts, Methodology, CP in Practice, Benefits, Hierarchy, CP Vs EoP, What is not CP and Waste Minimization	Graphical and Descriptive	20/03/2014	In the module “Cleaner Production for Better Environment” We have provided the basic of Cleaner Production Concept	YES
Glossary	Meanings and synonyms of approx. 159 words	Descriptive	23/03/14	http://gcpcenvi.c.in/Glossary.aspx	YES
Bibliography	Bibliographies on Solid waste and water Management, Cleaner Production, Physical and Chemical Engineering Sciences, Green Economy and Sustainable Development	Descriptive and Graphical	22/03/14	http://gcpcenvi.c.in/Bibliography.aspx	YES
Books	Cover Page and Description about the book	Descriptive	26/11/13	http://gcpcenvi.c.in/BooksOnCleanerProduction.aspx	

7.3.2. Numeric and Time-series Databases:

Name of Database	Description (in brief)	Time Period (Starting year-Ending year) and Periodicity (annual/ monthly/ other)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
CP Potentials in Industrial Sectors	Potential for Cleaner Production in Dye & Dye Intermediates, Electroplating, Pulp & Paper, Tannery and Hosiery Processing Units		http://gcpcenvis.nic.in/CP_potential_in_industrial_sector.pdf	YES
Benchmarks	The Water and Energy consumption of different countries in different industrial sectors		http://gcpcenvis.nic.in/Benchmarks.aspx	YES

8. Information/ Knowledge Products:

8.1. ENVIS Newsletters published during the previous Financial Year (2013-14):

Quarter/ Volume/ Issue/ Theme	Main Articles	Number of copies printed and circulated
April - June, 2013 <u>Vol. 11</u> <u>No. 2</u>	<ul style="list-style-type: none"> • The World Environment Day -2013 • Message from Hon'ble Chief Minister of Gujarat on WED, 2013 • Eco Product : Sprout0 sustainable Pencil • Global Warming Facts • Events • Crossword on Environment 	Number of copies printed:500 Number of copies circulated : 420
July – Sept 2013 <u>Vol. 11</u> <u>No. 3</u>	<ul style="list-style-type: none"> • PEET – Technology Breakthrough To Enable Zero Liquid Discharge (ZLD) • Eco Product: Organic Textile • Environmental News • Events • Cross Word Puzzle On Recycle 	Number of copies printed:500 Number of copies circulated : 418
October- December 2013 <u>Vol.11</u> <u>No.4</u>	<ul style="list-style-type: none"> • Electronics : Burden or Boon • Eco Product: Apple Mc Mini energy efficient computer • News • Events • Snapshots 	Number of copies printed:500 Number of copies circulated : 423
Jan – March 2014 <u>Vol. 12</u> <u>No.1</u>	<ul style="list-style-type: none"> • Generation of Energy from Hazardous waste • Eco Products : Renewable Transport Fuels • Environmental News • Events • Snapshots • Environmental Quote 	Number of copies printed: Number of copies circulated : (under printing)

8.2. Other publications/ information products brought out during the previous Financial Year (2013-14):

Publication/ Product	Theme(s)/ Subject Area(s)	Number of copies printed and circulated
Bibliography	Waste Paper based Recycled Paper Mill	Printed =200 Circulated=110
Bibliography	Textile	Printed =200 Circulated=90
Manual	Cleaner Production Guidelines in Dyes & Dye Intermediates	Printed =250 Circulated=130
Manual	Interaction of Research to Industrial Application	Printed =250 Circulated=126

9. ENVIS Website (*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible*):

9.1.	URL:	http://gcpcenvis.nic.in	
9.2.	Status of restructuring of Website:	Restructured on 26/11/2013	Not restructured
9.3.	Frequency of updating Website:	Weekly	
9.4.	Subject-specific database updation (numeric/ others):	Fortnightly	
9.5.	Publication uploaded/ updated on Website:	Monthly	

10. User Engagement and Interaction(*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible*):

10.1.	Total number of visits on Website:	5252
10.2.	Number of unique visits on Website:	5999
10.3.	Number of reports downloaded/ read by stakeholders:	-

10.4. Query-Answer Statistics:

Mode of Query Receipt	Number of Queries Received	Number of Queries Responded	Reasons for shortfalls, if any, and action taken to rectify
Online	-	-	For any query we have asked to mail us on gcpc-env@nic.in
Email	15	15	
Postal	1	1	
Physical	63	63	

11. Implementation of Annual Plan of Activities of the previous Financial Year (2013-14):

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Centre's proposed activities 2013-14		
Development of Databases/Case Studies/Publications		
Collect policies/programmes and projects in area of CP/CT at National/State level	Collected and uploaded http://gcpcenvis.nic.in/Cleaner.aspx	
Publish quarterly newsletters	Published and uploaded http://gcpcenvis.nic.in/Newsletter.aspx	
Publish leaflets on best available techniques in textile and pulp & paper sector	Textile Bio-sourcing Poster http://gcpcenvis.nic.in/Textile%20-%20Bio%20scouring%20Poster.JPG 4R Concept http://gcpcenvis.nic.in/4R%20Concept.JPG 3R in paper unit http://gcpcenvis.nic.in/3R%20in%20paper%20unit.png	
Publish case studies on cp in diff sectors: Pulp & Paper, Electroplating, Dairy, Textile, and Foundry	Please find the enclosed book on Cleaner Production Case Studies in Gujarat. This book contains case studies of different sectors such as Pulp and Paper, Electroplating, Dairy, Textile and Foundry with options of CP tools for different industrial sector.	
Publish posters on Environmental related issues and CP in different sectors	Published and uploaded on the following topics : CP in Offices http://gcpcenvis.nic.in/CP%20in%20office.pdf Tips to go Green http://gcpcenvis.nic.in/TIPS%20TO%20GO%20GREEN.pdf 4R in waste paper unit http://gcpcenvis.nic.in/4R%20in%20waste%20paper%20unit.png Global Warming http://gcpcenvis.nic.in/Global%20Warming.JPG Plastic Use http://gcpcenvis.nic.in/Plastic%20Use.JPG Green Economy http://gcpcenvis.nic.in/Green%20Economy.pdf Responsible Production http://gcpcenvis.nic.in/Responsible%20Production.pdf	

Publish book on bibliography of textile and waste paper recycling sector	Please find the enclosed bibliographies on textile Sector and waste paper recycling sector. Both the Bibliographies contain abstracts of researches done in the respective sector.	
Publish descriptive and numeric information on highly polluted 17 categories sector identified by CPCB	Published and uploaded http://gcpcenvis.nic.in/cpct_measures.aspx	
Website		
Improve website and database and case studies of different sectors	Database provided in the Bibliography section has case studies and abstracts of new researches: http://gcpcenvis.nic.in/Bibliography.aspx CP/Ct measures were implemented in different sectors by the host institution. The link of the same is provided in the ENVIS website(Middle module) for the dissemination purpose http://gcpcgujarat.org.in/layout.php?mid=4	
Respond to queries	Number of queries received and responded are 79. As the Login format facility for online query is not provided we received queries through mails, post and Physically.	
Dissemination of CP case studies and implemented techniques in dairy sector	The implementation of CP/CT techniques in various Dairy industries was carried out by GCPC. The compilation of case studies in Dairy sector is under construction. After printing the same will be uploaded.	
Update information on linkages/relationship of CP/CT with green growth, sustainability and energy security	Updated and Uploaded Green Growth Cleaner Production : http://gcpcenvis.nic.in/Experts/Green%20Growth%20Cleaner%20Production.pdf Cleaner Production & Sustainability : http://gcpcenvis.nic.in/Experts/Cleaner%20Production%20&%20Sustainability.pdf	
Promotional Activities		
Conduct promotional programmes on cleaner production concept and clean technology at 15 industry estates and 10 academic institutions.	Conducted promotional programmes on cleaner production concept and clean technology at 5 industry estates and 6 academic institutions.	Due to the Industry Association elections, Couldn't complete the target.
Scientific Advisory Committee (SAC) recommendations and Suggestions by Processing and Subject Divisions, MoEF		
Restructure and redesign the website to make it up-to-date and	Done	

user-friendly.		
Compile and upload information about policies, programmes and projects in the area of cleaner production and cleaner technologies.	Done	
Upload information on green growth, sustainability and energy security and their link to cleaner production.	Done	
List R&D institutions/ networks working in India in the subject area.	Done	
Upload information on Waste Minimization Circle (WMC) project implemented with the assistance of National Productivity Council (NPC), New Delhi and also on coverage of this project in various sectors, including Small Scale Industries (SSIs) and 17 categories of highly polluting industries;	Done	
Compile and upload success stories of WMCs;	Will be uploaded Shortly	
Include sector-wise training programmes for adoption of cleaner technologies by the Small and Medium Enterprises (SMEs).	Training program on “Environmental Friendly Techniques in Textile Sector” at Narol, Gujarat. Training program on “Environmental Friendly Techniques in Pulp & Paper Sector” at Vapi, Gujarat.	

12.	New initiatives taken during the previous Financial Year (2013-14):	<ul style="list-style-type: none"> • Reconstruction and Redesigning of GCPC – ENVIS website • Research Paper on CP: http://gcpcenvvis.nic.in/Research_paper-1.pdf • Details of Regional Experts, National Experts and International Experts on the subject “Cleaner Production and Clean Technology”: http://gcpcenvvis.nic.in/Experts.aspx • CP Potentials in Industrial Sectors: http://gcpcenvvis.nic.in/CP_potential_in_industrial_sector.pdf • Benchmarks on Water and Energy consumption of different countries in different industrial sectors: http://gcpcenvvis.nic.in/Benchmarks.aspx • Published a Manual on “Cleaner Production Guidelines in Dyes & Dye Intermediates” • Published a Manual on “Interaction of Research to Industrial Application” • Prepared CP/CT measures for 17 major polluting sectors • Expert Lectures
13.	Date of most recent physical verification by the Ministry:	Ms. Vandana Aggrawal, Economic Advisor, M/o Environment & Forests, New Delhi visited Gujarat Cleaner Production Centre (GCPC– ENVIS) on 5 th -7 th December,2013 for the appraisal of the ENVIS centre.

14. Status of existing hardware:

	Hardware item	Specification	Sanction Order with Date	Date of procurement
Procured from ENVIS Grant	C.P.U	Intel Pentium 4. 1.7GHz Processor (Not Working)	25/02/2003 No. 12(1)/WB/2002-ENVIS(PT) For the Year (2003-2004)	27/06/2003
	Monitor	HCL Infiniti Pro BI-Monitor i/o 15" HCM 780 Monitor (Not Working)	25/2/2003 No. 12(1)/WB/2002-ENVIS(PT) For the Year (2003-2004)	6/11/2003
	Scanner	HPSJ 2400C (Not working)	25/2/2003 No. 12(1)/WB/2002-ENVIS(PT) For the Year (2003-2004)	6/11/2003
	Inkjet Printer	HP DJ 3550 (Not working)	25/2/2003 No. 12(1)/WB/2002-ENVIS(PT) For the Year (2003-2004)	6/11/2003
	All in one printer	HP Laserjet 3030 (Not working)	02/03/2005 No. 11/30/2004-EI For the Year (2004-2005)	29/03/2005
	Computer	HP Model (Working)	02/03/2005 No. 11/30/2004-EI For the Year (2004-2005)	29/03/2005
	Printer Laserjet	Laserjet 1010 (Working)	02/03/2005 No. 11/30/2004-EI For the Year (2004-2005)	29/03/2005
	Computer Desktop (2)	HP/3030 Intel Core i3 (Working)	30/12/2013 No. 11/30/2004-	18/03/2014

			EI For the Year (2013-2014)	
	All in one Printer	Konica Milolta, Model No. Bizhub-215 (Working)	30/12/2013 No. 11/30/2004- EI For the Year (2013-2014)	28/03/2014
Provided by Host Institute	Computer Desktop	HP Model (Working)		
	Printer	HP Laserjet P 1007 (Working)		

15. Status of utilization of grant in previous year (2013-14) and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount (₹)	Actual Expenditure (₹)	Reasons for Shortfall/ Excess (if any)
Recurring Annual	Manpower	5,88,000	3,35,909	
	Databases, etc.	1,35,000	1,14,207	
	Travel & Training	30,000	24797	
Non-Recurring (Hardware/ ISBEID/ Any Other)	Desktop Computer - 2	79,880	1,36,500	
	Multifunction cum scanner cum copier – 1	55,000	52,500	

16. Issues/ hurdles faced in undertaking ENVIS activities:

16.1.	<p>GCPC-ENVIS has been disseminating and promoting Cleaner Production and Cleaner Techniques in the industries of Gujarat. Keeping in line to this tradition, GCPC-ENVIS aims to reach out to the industries of other states such as Rajasthan, Madhya Pradesh and Maharashtra etc in promoting and disseminating Cleaner Production processes and Cleaner techniques. To carry out this activity GCPC-ENVIS seeks support from MoEF to spread our entity in other states by passing a memorandum to the IDC or SPCB to incorporate the GCPC-ENVIS model of Cleaner Production processes and Cleaner Techniques. So that GCPC-ENVIS could achieve its mission in reaching out to many of the industrial universe.</p>
16.2.	<p>One of the major issues faced by GCPC-ENVIS is the lack of comprehensive data provided by the industries. There is a widespread apprehension amongst the industries in sharing of the data with GCPC-ENVIS. Misuse/misinterpretation of data, loss of competitive advantage (monopoly of processes or techniques) etc are the major concerns raised by the industries. Many a times, such companies do not share the knowledge with fellow industries in order to reduce competition. This monopoly over methods is a major challenge faced by GCPC-ENVIS.</p>

PROPOSED GOALS FOR 2014-2015

- ✓ To focus more on cleaner production case studies at national level
- ✓ To upload more eBooks, journals, research paper and newsletter cleaner production processes and technologies
- ✓ To upload animation, videos related with the subject matter
- ✓ To upload current news and presentations related to CP/CT
- ✓ Conducting a seminar and publishing leaflets on green belt or plantations in the industrial vicinity
- ✓ Visiting industrial areas, outside of Gujarat to share CP information and also to persue or imbibe new CP processes
- ✓ To conduct Promotional Programmes on Cleaner Production Concept & Clean Technology at Industrial estates and academic institutions in Gujarat and in other states
- ✓ To publish quarterly newsletter for the year 2014-2015
- ✓ To improvise website and database on Cleaner Production & Clean Technology in different industries and case studies on different sectors.
- ✓ To respond to queries received by the centre on different environmental issues
- ✓ To publish posters on Environment Related issues and Cleaner Production in different sectors
- ✓ To prepare guidelines or manuals on CP/CT for different industrial sectors
- ✓ To publish monthly E-Bulletin on Cleaner Production processes and techniques

Financial Proposal for 2014-2015

Sl. No.	Object Head	Amount required for the financial year 2014-15 (in ₹)	Justification for additional budget
1	Manhours/ Manpower	5,88,000/-	-
2	Others (Database development, website maintenance, printing of Newsletters, contingency, stationery, consumables, AMC, Internet charges etc.)	1,35,000/-	-
3	Travel	30,000/-	-
	TOTAL	7,53,000	-