

Editorial

Situated on the west coast of India, Gujarat is known as the 'land of opportunities' as a result of its industrialization and policy driven business ecosystem. The state has established itself as a manufacturing powerhouse in various industrial sectors and the state is also home to some of the world's largest companies including 100+ Fortune 500 companies.

MSMEs form an integral part of the entire supply chain of these large companies in the state. They act as ancillary units to large industries contributing significantly to the industrial development of the state.

Gujarat is thus, one of the most vulnerable regions, so far as sustainability is concerned, but Government of Gujarat is taking comprehensive steps to address this in the right way, as the state has incorporated highest effluent treatment capacity in the nation, the state also encourages 'Cleaner Production' (CP) a pollution prevention concept. Realizing the need of implementing CP in the state, GCPC was established in the year 1998 by Industries Department of the state.

Since, inception the centre is promoting the concept of 'Cleaner Production' (CP) & 'Clean Technology' (CT), conducting awareness, training and capacity building programmes, CP & CT assessment projects, dissemination programmes and so on.

GCPC has achieved many landmarks in the year 2021 in the field of environmental management training and knowledge through capacity building training and awareness programmes, which resulted in enhancement of knowledge and skills of the stakeholders.

This issue of our quarterly published newsletter highlights various ongoing as well as successfully completed projects and celebration of important days by the centre during the entire year including the events conducted by the centre during the month of 'October-to-December, 2021'.

This issue of our newsletter is dedicated to the celebration of 'Azadi Ka Amrit Mahotsav' by GCPC-ENVIS RP from 4th to 10th October, 2021.

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INAUGURAL CEREMONY OF CERTIFICATE COURSE ON CLEANER PRODUCTION ASSESSOR (MASTER TRAINERS) YEAR: 2021-22 UNDER THE GREEN SKILL DEVELOPMENT PROGRAMME (GSDP), ENVIS, MoEF&CC, GoI ON 16TH NOVEMBER, 2021 AT GIDC BOARD ROOM, GANDHINAGAR



Shri M. Thennarasan, IAS, Hon'ble Vice Chairman & Managing Director, GIDC and Chairman, GCPC in presence of Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, GCPC-ENVIS, Shri Jatin Mehta, CEO, VGEL, Vapi, GIDC Officials and GSDP candidates releasing the training manual on CP Assessor, distributing kit bags and addressing the participating candidates during the ceremony



The Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India has been implementing a Central Sector Scheme titled Environmental Information System (ENVIS) since 1982-83. ENVIS by providing scientific, technical and semi-technical information on various environmental issues has served in facilitating policy formulation and environment management at all levels of Government as well as in decision-making aimed at environment protection and its improvement for sustaining good quality of life for all living beings. ENVIS is a decentralized network of 67 centres out of which 32 centres are dealing with “State of the Environment and Related Issues” that are hosted by State Government/UT Administrations, called as ENVIS Hubs and remaining 35 centres are hosted by environment related governmental and non-governmental organizations/institutes of professional excellence, with varied thematic mandates pertaining to environment, called the ENVIS Resource Partners (RPs).

Utilizing the vast experience and expertise of ENVIS Hubs & RPs, the ministry has taken up the initiative for skill development in the environment and forest sector to enable India’s youth to get gainful employment and/or self-employment, called the Green Skill Development Programme (GSDP). The programme endeavors to develop green skilled workers having technical knowledge and commitment to sustainable development, which will help in the attainment of the Nationally Determined Contributions (NDCs), Sustainable Development Goals (SDGs) and National Biodiversity Targets (NBTs).

Under the Green Skill Development Programme of ENVIS, MoEF&CC, GoI, GCPC-ENVIS Resource Partner successfully conducted two Certificate Courses for Master Trainers as follows:

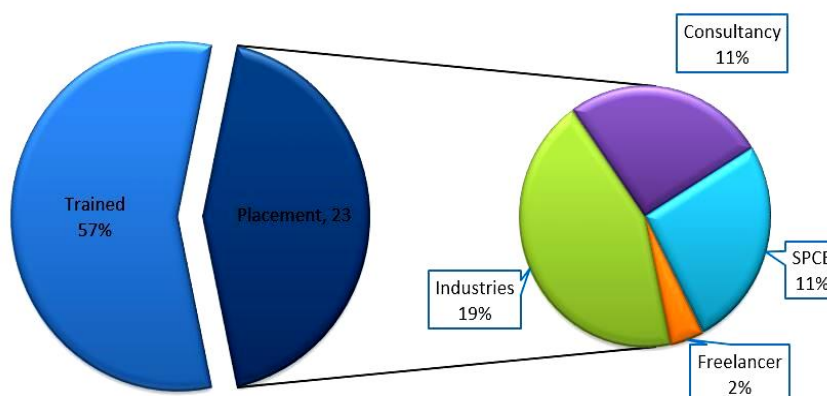
1. Certificate Course on “Cleaner Production Assessor”

- Course Duration: 85 Hrs
- Course Coverage: 30% Theory (Classroom Training) & 70 Practical (In-Plant)
- Batch Size: 15
- Eligibility Criteria: Science Graduate
- Training Venue: Gujarat Cleaner Production Centre-ENVIS Centre, Gandhinagar

2. Certificate Course on “ETP-CETP-STP Operation and Maintenance”

- Course Duration: 300 Hrs
- Course Coverage: 30% Theory (Classroom Training) & 70 Practical (In-Plant)
- Batch Size: 15
- Eligibility Criteria: Science Graduate
- Training Venue: Vapi Green Enviro Ltd. (CETP), GIDC, Vapi

GSDP Placement





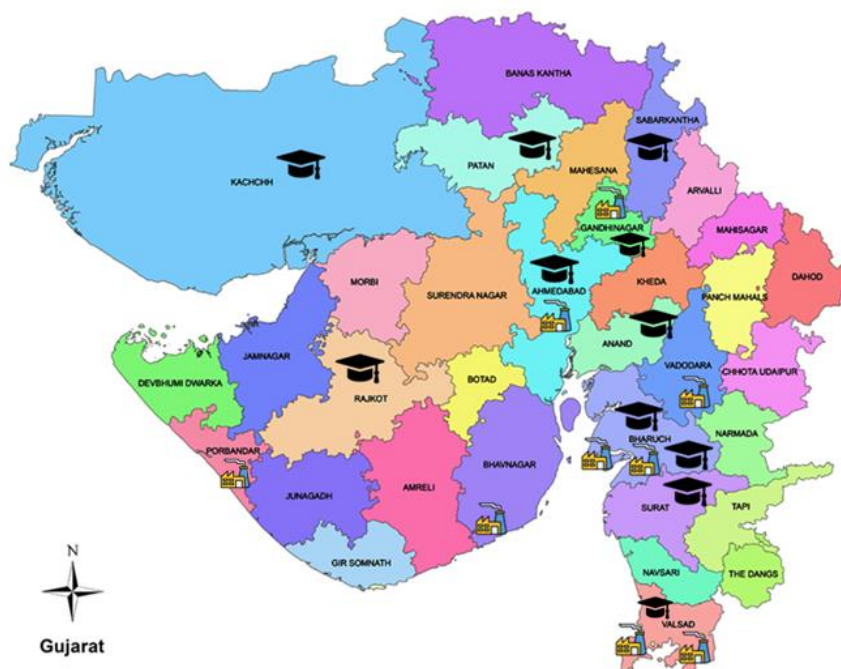
Gujarat is the most industrialized state in India and has been recognized nationally and globally for offering conducive business ecosystem that is supported by ease of doing business and state-of-the-art infrastructure. For long term sustainability, industrial development must be based on optimum use of natural resources.

In order to encourage greater compliance with environmental standards & support development of latest sustainable industrial infrastructure and to reduce air and water pollution, Forests and Environment Department, GoG has awarded a project on 'Cleaner Production Promotion' in Industrial Estates and Academic Institutions. GCPC, with an objective to motivate industries towards the advantages of adopting cleaner production practices, to promote research and development activities in the field of CP & CT amongst students, the centre organized CP promotion programmes.

The project is awarded by Forests and Environment Department, Government of Gujarat. In the year 2021-22, GCPC organized (13) promotion programmes in Industrial Estates and (13) promotion programmes in Academic Institutions.

Programme Highlights:

- Gujarat's Industrial Profile
- Reactive Steps towards Environmental Protection using End-of-Pipe Treatment Technologies
- Proactive: Cleaner Production (CP): Concept
- CP Tools and Methodology
- Case Studies / Success Stories of CP implementation in different industrial sectors
- Financial Assistance Schemes to implement CP under the New Gujarat Industrial Policy, 2020 by Industries Commissionerate, Government of Gujarat
- Gujarat State Cleaner Production Award (GCPA)
- GCPC-ENVIS: Concept, Features and Activities
- Distribution of Environmental Friendly Jute bags to the participants consisting of publications, financial assistance schemes, writing pad, pen, programme schedule, etc.



CP Promotion in Industries & Academics: 26

No of beneficiaries: 1999

Note: Due to COVID-19 Pandemic some of our promotional programmes have been conducted virtually (online)



GPCPC with the support of Forests and Environment Department, Government of Gujarat is engaged in 'Capacity Building of Academicians and Students on Environmental Management through Cleaner Production (CP) and Clean Technology (CT)'. The objective behind this programme is to promote 'Research and Development' (R&D) activities in the field of CP & CT.

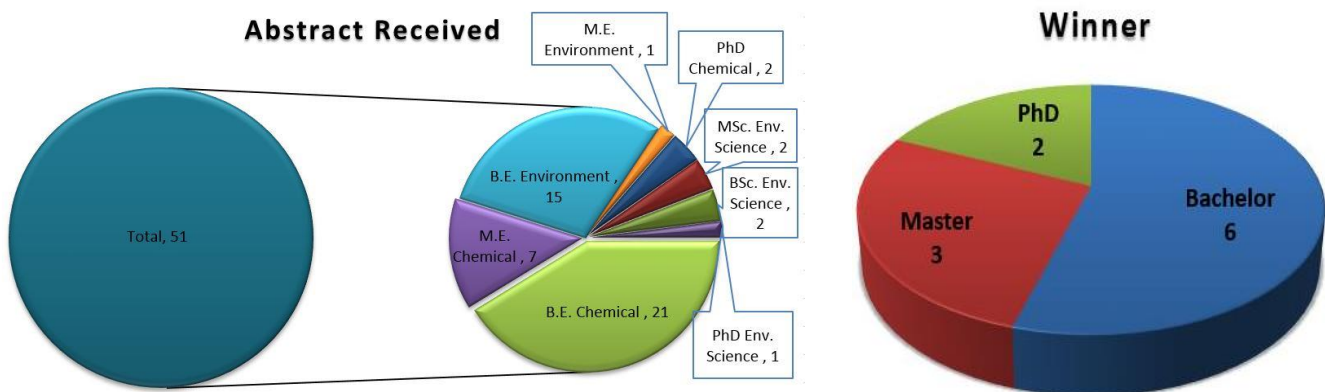
The programme endeavours to motivate Graduate/Postgraduate and Ph.D. students of Gujarat from Engineering and Environmental Science streams, and to focus on practically implementable research projects in the field of Environment, Pollution Prevention, Cleaner Production, Clean Technologies and so on. Also, wherever feasible, implementation of proven technology solution from research topics in the concerned industries can be taken up.

Under this project, GPCPC invited abstracts of dissertation/thesis/research articles from Post Graduate, Under Graduate, Ph.D. students of Chemical, Environmental Engineering and Environmental Science streams. Total 51 abstracts were received from total 21 colleges.

Project Outline:

- Invite Abstracts of dissertation/thesis from the final year students of Chemical / Environment Engineering and Environmental Science on Cleaner Production / Clean Technology / Waste minimization / Pollution Prevention / Resource Efficiency etc.
- Selection of best five abstracts by Panel of Experts amongst the abstracts received by GPCPC
- Presentation and Prize distribution to selected best five abstracts
- Publishing of a book compiling all abstracts received by GPCPC
- Dissemination of book to Major Industrial Estates, Industries, Engineering Colleges and Government Offices of Gujarat for further research and implementation purpose

Best five abstract's winner from Ph.D., Masters and Bachelors of Chemical / Environment Engineering and Environmental Science was awarded with Cash Prize. 1st winner was awarded with cash prize of Rs. 10,000/-, 2nd winner with Rs. 5000/- and 3rd, 4th and 5th winner was awarded with cash prizes of Rs. 3000/-, Rs.2000/- and Rs. 1000/- respectively.



Under this, prize and certificate distribution ceremony was organized on 24th March, 2021 at Gandhinagar inviting Shri M. Thennarasana, IAS, Chairman, GPCPC & VC & MD, GIDC as a Chief Guest including dignitaries from Industries, Academia and Government.

Project on Training and Capacity Building Programme on Electronic Waste (e-waste) Management



The Government of Gujarat is committed to build a sustainable and climate resilient future for the people of Gujarat. Under the visionary leadership of Hon'ble Prime Minister, India and the then Hon'ble Chief Minister, Gujarat Shri Narendra Modi, a separate department of 'Climate Change' was established in the year 2009 to address climate change related issues. Gujarat Energy Development Agency (GEDA) works under the aegis of Climate Change Department.

As, Electronic Waste (e-waste) is the fastest growing waste stream due to the increase in production and consumption of electronic equipments, the consequences of improper e-waste disposal to landfills or other non-dumping sites pose serious threats to public health, flora, fauna and environment. Therefore, it is necessary to manage e-waste in a scientific manner.

Realizing the need for e-waste management in Gujarat, Climate Change Department and GEDA has taken up this initiative. Since GCPC is also actively engaged in waste management programmes and realizing the capacity and expertise of GCPC, GEDA approached GCPC for conducting training and capacity building programmes on e-waste management.

Under this, the capacity building and training will be conducted by GCPC to individuals, e-waste recyclers, by conducting offline training programmes in eight (8) major cities of Gujarat i.e., Ahmedabad, Gandhinagar, Surat, Vadodara, Rajkot, Jamnagar, Bhavnagar and Junagadh on sustainable e-waste management, promoting scientific disposal of e-waste and it's recycling in Gujarat.

The first of its kind 'Capacity Building and Training Programme' on 'Electronic Waste Management' was conducted on 17th September, 2021 at The Department of Botany, Gujarat University, Ahmedabad. The other capacity building and training programmes conducted during the month of 'October-December, 2021' as a part of this project are highlighted below in the events section of this newsletter.



National Jal Jeevan Mission (NJJM) was launched by the Hon'ble Prime Minister of India on 15th August, 2019 under the Ministry of Jal Shakti. The mission envisioned to provide safe, potable and equitable drinking water through Functional Household Tap Connection to every rural household in India by 2024. The mission will be implemented in partnership with states and institutional arrangements where State's Public Health Engineering Department (PHE) / Rural Water Supply (RWS) departments play a critical role by empowering and assisting the Gram Panchayats (GP) and/or its sub-committees in planning, implementing, managing, operating and maintaining their village water supply systems.

With Functional Household Tap Connection (FHTC), every household should also receive potable water in adequate quantity (at least 55 lpcd) as well as of prescribed quality (as per BIS 10500:2012) on a regular and long-term basis.

The mission is based on community approach and every member has to be included in contribution towards the sustenance of the scheme. This community involvement is crucial as it imbibes a sense of ownership within the members and help shift the focus to utility based approach and service delivery.

NJJM's focus is to build partnerships for knowledge dissemination and capacity building with help of Government and Non-government institutions that would function as 'Key Resource Centres (KRCs). KRCs have been assigned tasks of reorienting stakeholders, documentation of best practices, and conducting trainings for strengthening and transforming the system of drinking water supply sector.

Given their comprehensive and diverse background in the field of training and capacity building, Gujarat Cleaner Production Centre (GCPC) has been empanelled as KRC by the NJJM for Middle-Level Management. The target group for Mid-Level Management includes officials from District Water and Sanitation Mission (DWSM), GPs / Village Water Sanitation Committees (VWSCs) or Pani Samiti Members, Representatives of Panchayati Raj Institutions (PRIs), NGOs, Self Help Groups engaged as Implementation Support Agencies (ISAs), School functionaries, health workers and other stakeholders.

Under this as KRC, GCPC has to carry out various functions as follows:

- Conducting of Capacity Building Training Programmes
- Designing course / study material, training modules and delivering capacity building training in form of lectures, discussions, exercises, etc. with objective of knowledge dissemination
- Carry out research and assessments on various issues of drinking water
- Developing a mindset of professionals and stakeholders for effective participation from grass-root level through various understanding and awareness raising



The Gujarat Industrial Policy, 2020 aims at promoting Gujarat; as a globally competitive and innovative industrial destination that stimulates sustainable development and inclusive growth. The primary mission of the Industrial Policy includes proactive support for development of industries, value addition on local primary sources and clean environment in the state with increasing share of Manufacturing in the State GDP.

The Industries Commissionerate is the executive arm of Industries and Mines Department, Government of Gujarat. The office is entrusted with the responsibility of implementation of Industrial Policies of the State and Central Government. It acts as a catalyst for industrial development in the state by facilitating a conducive environment for investors and bringing about industrial reforms. It offers various incentive schemes and subsidies to the industries for development and up-gradation of manufacturing and service enterprises.

In view of the strategy under Gujarat Industrial Policy, the Government has introduced a **“Scheme of Assistance for Environment Protection Measures”** incorporating implementation of ‘Cleaner Production Technology’ in place of existing process such as substitution and optimization of raw material, reduction in water and energy consumption and waste generation and/or any other environment management project with the use of Clean, Efficient and Innovative Pollution Control Equipment.

Quantum of Assistance:

Sr. No.	Eligible Activity	Quantum of Assistance per project
1.	Implementation of cleaner production technology in place of existing process such as substitution and optimization of raw material, reduction in water consumption or energy consumption or waste generation	<ul style="list-style-type: none"> Upto 35% of the cost of plant and machinery with a ceiling of Rs. 35 lacs during the operative period of the scheme for MSME. Upto 10% of the cost of plant and machinery with a ceiling of Rs. 35 lacs during the operative period of the scheme for large projects
2.	Any other environment management project with use of Clean, Efficient and Innovative Pollution Control Equipment	<ul style="list-style-type: none"> Upto 25% of the cost of plant and machinery with a ceiling of Rs.35 lacs during the operative period of the scheme for MSME. Upto 10% of the cost of plant and machinery with a ceiling of Rs. 35 lacs during the operative period of the scheme for large projects

Sanctioning Authority:

Assistance under the scheme will be sanctioned by State Level Empowered Committee (SLEC) and assistance will be disbursed by Industries Commissionerate on the basis of opinion by Gujarat Cleaner Production Centre (GCPC).

- **No. of Industries Applied:** 48
- **Financial Assistance Received by Industries:** 531.26 Lacs Indian Rupees (INR)

Note: The applications received under Gujarat Industrial Policy, 2015 were from year 2017-2021.

Celebration of “Azadi Ka Amrit Mahotsav” by GCPC-ENVIS RP 4th to 10th October, 2021



Under the celebration of “Azadi Ka Amrit Mahotsav”, GCPC-ENVIS RP celebrated this iconic week from 4th to 10th October, 2021 promoting the awareness on avoiding single-use plastics, its harmful effects to flora, fauna and environment by publishing brochures and posters throughout the week, whilst organizing orientation and group discussion on 11th October, 2021 under the visionary leadership and guidance of Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, ENVIS.



During the group discussion Dr. Jain highlighted the significance of ‘Azadi Ka Amrit Mahotsav’ an initiative of the Government of India to celebrate and commemorate 75 years of progressive India and the glorious history of its people, culture and achievements. He added that, this is a country-wide campaign which will focus on citizen participation, to be converted into a ‘Janandolan’, where small changes, at the local level, will add up to significant national gains.

Additionally, he emphasized upon the disadvantages of single-use plastic to flora, fauna, environment and human health and urged the team members to use wooden based products, recyclable products, instead of single-use plastic mentioning the example of using ‘wooden cutlery’ instead of single-use plastic cutlery.



Dr. Jain then urged the team members, to create more and more awareness on avoiding single-use plastic while using eco-friendly products in our daily lives. He added, in unavoidable circumstances where one needs to use plastic then ensure its re-use and recycling.



Dr. Jain concluded the discussion, encouraging the team members towards following the ‘Indian Culture’ as much as possible, as our rich Indian culture teaches us the right way of living, while protecting the nature.

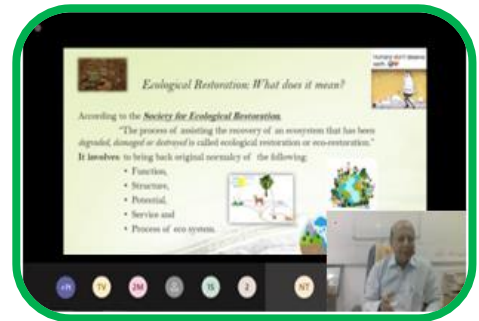




Celebration of World Environment Day, 2021 at GCPC-ENVIS Centre, Gandhinagar



Webinar on Integrating Ecosystem into Sustainable Industrial Development for Dr. S.&S.S. Gandhi Government Engineering College, Surat on the occasion of World Environment Day, 2021



Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, GCPC-ENVIS urging team members to minimize the use of various products that contains Ozone Depleting Substances (ODS) on the occasion of World Ozone Day, 2021 at GCPC-ENVIS Centre, Gandhinagar



GCPC-ENVIS RP team members performing various Yoga Postures on the occasion of World Yoga Day, 2021 under the leadership of Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, GCPC-ENVIS



**Training & Capacity Building
Programme on Electronic (e-waste)
Management at GEZIA, Gandhinagar
14th October, 2021**

GCPC with support of Climate Change Department, GoG and GEDA organized Training and Capacity Building on e-waste management on 14th October, 2021 at 'Gandhinagar Electronics Zone Industries Association (GEZIA)', Gandhinagar.

The objective behind conducting this programme is to promote scientific and sustainable e-waste management and its recycling in Gujarat as well as capacity building of e-waste recyclers and individuals.

The dignitaries that graced the occasion were Shri Rajesh Patel, Deputy Secretary, Climate Change Department, GoG, Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, ENVIS, Shri Chanakya Patel, President, GEZIA, Shri Nitesh Patel, Secretary, GEZIA, Shri Shwetal Shah, Technical Advisor, Climate Change Department, GoG, Shri Kunal Gadhvi, Section Officer, Climate Change Department, GoG, and around 70 participants inclusive of registered e-waste recyclers, industrial representatives, government officials and students.

During technical session Dr. Jain made brief introduction on 'e-waste management' followed by discussion on 'Approach for e-waste management and implementation' by Shri Naresh Thakar, Environment Communicator, 'Best practices on e-waste management' was highlighted by Ms. Shalini Singh, CEO, R Planet Integrated Solution Pvt. Ltd., Gandhinagar including discussion on 'Handling & Scientific Disposal of e-waste' by Shri Hemant Patel, Managing Director, Maharana Industry Pvt. Ltd., Ahmedabad. The programme concluded with Q&A session between the experts and the participants.

**Inaugural Ceremony of
Certificate Course on Cleaner
Production Assessor
(Master Trainers) by
GCPC-ENVIS RP under GSDP,
ENVIS, MoEF&CC, GoI at
Gandhinagar
16th November, 2021**

GCPC-ENVIS Resource Partner organized Inaugural Ceremony for 'Certificate Course on Cleaner Production Assessor' (Master Trainers) under the Green Skill Development Programme (GSDP), ENVIS, MoEF&CC, GoI on 16th November, 2021 at GIDC Board Room, Gandhinagar, Gujarat.

The dignitaries present during the ceremony were:

- Shri M. Thennarasan, IAS, Hon'ble Vice Chairman & Managing Director, GIDC and Chairman, GCPC
- Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, GCPC-ENVIS
- Shri Jatin Mehta, Chief Executive Officer, Vapi Green Enviro Limited, Vapi including GIDC officials.

The inauguration started with welcome address and brief introduction of GSDP by Dr. Bharat Jain, Member Secretary, GCPC and Coordinator, GCPC-ENVIS. During his address Dr. Jain briefed the objective behind conducting this programme. He added, GSDP as an initiative of ENVIS, MoEF&CC, GoI for skill development in the environment and forest sector and to enable India's youth to get gainful employment and/or self employment having technical knowledge and commitment to sustainable development with aim to achieve INDCs and SDGs. The ceremony continued with a special address and releasing of 'Training Manual on Cleaner Production Assessor' by Shri M. Thennarasan, IAS, Hon'ble Vice Chairman & Managing Director, GIDC and Chairman, GCPC.

Hon'ble Chairman speaking on the occasion, stressed upon the need for 'Cleaner Production and Carbon Neutral Technologies' to achieve ambitious target of Paris Agreement limiting global temperature rise below 2°C, preferably to 1.5°C compared to pre-industrial levels. Mentioning about the programme he added, GSDP programme on Cleaner Production Assessor focuses on 70% of practical training (in-plant) whereas remaining 30% focuses on theoretical knowledge and thus, focusing more on practical training rather than theory, it helps filling the gap of skilled manpower shortage in industrial and environmental sector.

The ceremony concluded with a vote of thanks from Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, GCPC-ENVIS and with distribution of kitbags, t-shirts and training manuals to the candidates by Hon'ble Chairman, GCPC and CEO, VGEL, Vapi.

**Training & Capacity Building on
Electronic Waste (e-waste)
Management at Children's University
Gandhinagar
30th November, 2021**

GCPC with the support of Climate Change Department (CCD), GoG and GEDA organized 'Training and Capacity Building on e-waste Management' on 16th November, 2021 at Children's University, Gandhinagar.

The dignitaries that graced the occasion were Shri B.H. Talati, IAS, Joint Secretary, CCD, GoG, Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, GCPC-ENVIS, Shri Shwetal Shah, Technical Advisor, CCD, GoG and Shri Harshad Shah, DG& Officiating Vice Chancellor, Children's University.

During the technical session Dr. Jain stressed upon e-waste types, health hazards associated with e-waste generation and improper disposal and need for e-waste management. Shri Naresh Thakar, Environment Communicator highlighted

'E-Waste Management Approaches' while focusing on eco-design of devices, 3Rs for e-waste management, Life Cycle Analysis (LCA), safe methods of disposal, followed by 'Best Practices on E-Waste Management' showcasing Case Studies / Examples by Shri Saurabh Gupta, Founder, Aavni Environment & Sustainability Consultancy, Haryana followed with brief discussion on 'Handing & Scientific Disposal of E-Waste' by Mr. Hemant Patel, Managing Director, Maharana Industry Pvt. Ltd., Ahmedabad. The programme concluded with Q&A and with concluding session.

**Training & Capacity Building on
Electronic Waste (e-waste)
Management at M.S.U. Baroda
15th December, 2021**

GCPC with the support of Climate Change Department (CCD), GoG and GEDA organized 'Training and Capacity Building on e-waste Management' on 15th December, 2021 at Maharaja Sayajirao University, Baroda.

The dignitaries graced the occasion were Dr. Upendra Patel, Professor, Civil Engineering Department, Faculty of Technology and Engineering, M.S.U., Baroda, Dr. Sanskriti Majumdar, Director, Institute of Climate Change Research, M.S.U., Dr. Satyajit Chaudhary, Vice Dean, M.S.U., Baroda and Shri Naresh Thakar, Environment Communicator.

During technical session Shri Naresh Thakar Introduced E-Waste Management Concept followed by discussion on 'Practical Approach for E-Waste Management and Implementation'. Shri Mr. Hemant Patel, Managing Director, Maharana Industry Pvt. Ltd., Ahmedabad discussed Scientific Approach towards E-Waste Disposal and also showcased Best Practices on E-Waste Management. The programme concluded with Q&A and with concluding session.

**Inaugural Ceremony of Certificate Course
on ETP-CETP-STP Operation and
Maintenance (Master Trainers) by
GCPC-ENVIS RP under GSDP, ENVIS
MoEF&CC, Gol at Vapi
17th December, 2021**

GCPC-ENVIS Resource Partner organized Inaugural Ceremony for 'Certificate Course on ETP-CETP-STP Operation and Maintenance' (Master Trainers) under the Green Skill Development Programme (GSDP), ENVIS, MoEF&CC, Gol on 17th December, 2021 at Centre of Excellence, Vapi.

The dignitaries present during the ceremony were:

- Shri Parag Dave, Regional Officer, GPCB, Vapi
- Shri Kamlesh Patel, President, Vapi Industries Association (VIA), Vapi
- Shri Mahesh Pandya, Ex. Chairman, Centre of Excellence, Vapi
- Shri Ashok Shukla, Past President, VIA
- Shri Jatin Mehta, Chief Executive Officer, Vapi Green Enviro Limited (VGEL), Vapi
- Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, GCPC-ENVIS
- Shri Navinchandra Patel, Chairman and Managing Director, Clean Enviro Project Consultancy Pvt. Ltd., Valsad

The inauguration started with welcome address and brief introduction of GSDP by Dr. Bharat Jain, Member Secretary, GCPC and Coordinator, GCPC-ENVIS. During his address Dr. Jain briefed the objective behind conducting this programme. He added, GSDP as an initiative of ENVIS, MoEF&CC, Gol for skill development in the environment and forest sector and to enable India's youth to get gainful employment and/or self employment having technical knowledge and commitment to sustainable development with aim to achieve INDCs and SDGs.

The programme continued with address from dignitaries on dias, sharing their experiences to the participating candidates and giving them best

wishes for the success followed by distribution of kitbags to the candidates.

The session concluded with vote of thanks from Dr. Bharat Jain, Member Secretary, GCPC and Coordinator, GCPC-ENVIS.

**Cleaner Production Awareness
in Academic Institutions
(October-December, 2021)**

Cleaner Production (CP) is a globally proven approach to improve productivity and reduce environmental impact of the enterprises. CP is also included as a subject in course curriculum of B.E. and M.E. Environment streams in colleges of Gujarat with efforts of GCPC. Hence, with the objective to motivate students and academicians towards the advantages of CP implementation and to promote Research and Development (R&D) in the field of Cleaner Production, GCPC regularly organizes CP Awareness Programmes in Academic Institutions.

The list below provides a summary of CP Awareness Programmes conducted by the centre in academic institutions during the month of October-December, 2021.

Date	Name of Academic Institution	No. of Participants
1/10/21	GEC, Valsad	106
26/11/21	PDEU, Gandhinagar	23
3/12/21	SVNIT, Surat	52
4/12/21	SCET, Surat	89
Highlights: <ul style="list-style-type: none"> • Industrial Scenario • End-of-Pipe Treatment Technologies vs. Cleaner Production (CP) • CP Tools and Methodology • Case Studies / Success Stories • ENVIS Concept & Features • GCPC-ENVIS RP Activities 		

INAUGURAL CEREMONY OF CERTIFICATE COURSE ON ETP-CETP-STP OPERATION & MAINTENANCE (MASTER TRAINERS) YEAR: 2021-22 UNDER THE GREEN SKILL DEVELOPMENT PROGRAMME (GSDP), ENVIS, MoEF&CC, GoI ON 17TH DECEMBER, 2021 AT CENTRE OF EXCELLENCE, VAPI



Shri P.U. Dave, Regional Officer, GPCB, Vapi, Shri Kamlesh Patel, President, Vapi Industries Association (VIA), Vapi, Shri Mahesh Pandya, Ex. Chairman, Centre of Excellence, Vapi, Shri Ashok Shukla, Past President, VIA, Shri Jatin Mehta, Chief Executive Officer, Vapi Green Enviro Limited (VGEL), Vapi, Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, GCPC-ENVIS and Shri Navinchandra Patel, Chairman and Managing Director, Clean Enviro Project Consultancy Pvt. Ltd., Valsad distributing kit bags to the participating candidates during the ceremony

**CP PROMOTION AT PANDIT DEENDAYAL
ENERGY UNIVERSITY (PDEU), GANDHINAGAR
ON 26TH NOVEMBER, 2021**



**CP PROMOTION AT SARDAR VALLABHBHAI
NATIONAL INSTITUTE OF TECHNOLOGY (SVNIT),
SURAT ON 3RD DECEMBER, 2021**



**TRAINING & CAPACITY BUILDING PROGRAMME ON E-WASTE MANAGEMENT AT GEZIA-GANDHINAGAR,
CHILDREN'S UNIVERSITY-GANDHINAGAR AND M.S.U. - BARODA**



**Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, ENVIS
addressing the participants during these programmes**

GCPC-ENVIS EDITORIAL TEAM

- 1. Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, ENVIS**
- 2. Dr. Khushboo Bhavsar, Programme Officer**
- 3. Ms. Priyanka Joshi, Information Officer**
- 4. Mr. Heer Desai, Project Assistant**

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