# **Gujarat Pollution Control Board**

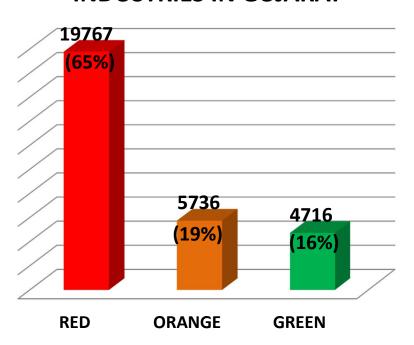
## Reforms & Best Practices for Environmental Regulation



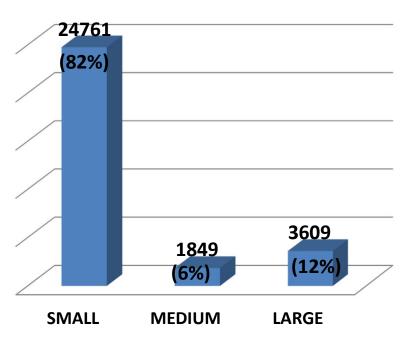
S. H. Vegda, Guardian Officer, EODB Chirag Bhimani, Nodal Officer, EODB Gujarat Pollution Control Board Gandhinagar

### **Industrial Scenario- Gujarat**

#### **INDUSTRIES IN GUJARAT**



#### **INDUSTRIES IN GUJARAT**



Strong presence of SSI units in the State TOTAL – 30219

(As of 15<sup>th</sup> May, 2017)

### **Innovative Mechanisms Used**

XGN –Online system- e- governance	Common Consents & Authorisation	Regional Office (26) & Vigilance Office (4) Concept	Longer Consent Validity Period	Auto-Renewal of Consents
System Generated Provisional Orders	Manuals for various activities of GPCB	Monitoring-Innovative tools (e.g. Written Instructions)	Third party monitoring through academic institutes	Online Payment of Fees
Use of Cleaner Production / Technology Tools	Various Actions Plans like Air Action Plan, River Action Plan	Environment Audit Scheme	ISO and NABL Accreditation	Checks (Locks) in the system for efficient operation
Use of Technology	Usage of Common Facilities like CETP, Acid Disposal, Steam etc.	Co-processing of Wastes	Research and Development work	Re-engineering of Business Processes (Fast Track Renewal)
Promotion of Centre of Excellence	Use of Non-Conventional Sources of Energy like Wind, Solar etc. promoted / emphasized	Clinical Approach	Help Desk	Citizen's Charter

### **E-Governance (XGN)**

- Regular and effective monitoring, Transparency in the process
- Effective communication with stake holders
- Large data base development and its easy retrieval & analysis
- Better environment regulation of source and sink elements
- Quick decision making, Increase in water-cess income
- Won 6 National Awards from 2010 to 2016
- Replicated & extended to Himachal Pradesh, Uttarakhand,
   Madhya Pradesh, Karnataka, Goa and Andhra Pradesh

## Stakeholders – Approx. 60,000



### XGN Development over the years

2008

• XGN launched on 5th June as Consent Management Tool

2009

- Bio-Medical Waste Management System
- e-Communication Module
- Water Cess Module
- Legal Module

2010

- The Online Application Scrutiny Module
- The Environment Auditor's Monitoring System
- The GEMS/MINAAR CPCB / MoEFCC related Projects Monitoring
- The e-Returns Entry & Monitoring Module
- The EC (B1 & B2 Category) Module for SEIAC Committee

2011

- The Basic Co-Processing Waste Module
- The Online Emission Monitoring system
- The Inward & e-Outwarding Module
- The Common Infrastructure facilities Module
- The Hazardous Waste Monitoring System

### XGN Development over the years

2012

- The RTGS/NEFT Payment system & All Payments Integration
- The Complaints Redressal System
- The Clinic Module
- The Violations Monitoring Module
- Enabling of Citizen Charter Concept

2013

- The Compliances Monitoring
- The Environment Auditor's Monitoring System
- The Jobs Vacancy Module
- The CO-Processing Waste Exchange Platform

2014

- The Android Mobile App
- The Internal Review System (Patraks) Module
- Monthly Progress Review (MPR) Module
- Management Information System (MIS) Module

2015

- Online GPCB ID & Password Module
- Online Revocation Application Module
- Municipal Solid Waste Management System Module

2016

- Online CCA Generation
- E-Waste Management System Module
- Recycler Registration Module
- Way Ahead Aadhar Based e-Signature

## Impact of XGN

The activity	Before XGN	2009-10	2015-16
Monitoring Visits in a Year	7,500	10,721	56,000+
Pollution Samples Drawn in a Year	7,100	8,900	25,500+
Samples Analysed in labs in a Year	3,250	7,516	25,000+
Profile Updations by Ind-HCUs / Month	No System	1,800	9,500+ Monthly
PDF Docs uploaded by stake holders	No System	21,000	80,500+ Yearly
e-Returns files by stake holders – Yearly	No Track	35,000	1,40,000+
Water Cess Returns Filed	1,900	6,289	34,500+
NOC-CCA Applications – Yearly	2,500	5,280	19,000+
Ratio of Rejection - Yearly	40 %	38 %	3%
LAB Charges defaulting Amt	Rs 3.2 Cr	Rs 78 lakhs	Almost Nil
Total Waste CO-PROCESSED (MT/yr)	Nil	15,693	41,78,530

### **Common Consents & Authorisation**

Issuance of Common Consents & Authorisation (CCA) instead of individual consents & authorisation

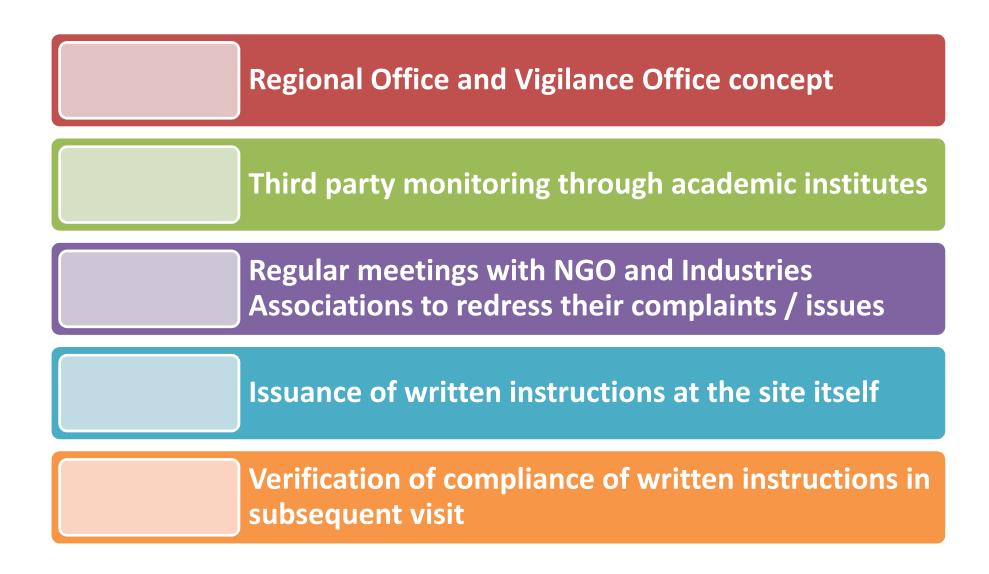
**Issuance of CCA with longer validity** 

(G - 10 years, O - 7 years, R - 5 years)

Industry with ISO: 14001 given one extra year of validity

Industry with Responsible Care (RC) Certificate given two extra years of validity

### **Innovative Monitoring Tools**



### **Environmental Audit Scheme**

Implemented after the judgment of Hon. High Court of Gujarat Third party auditors registered with GPCB Third party auditors audit the identified industries Allotment of industries through XGN **NEERI-Nagpur evaluated - suggested replication in other states** JPAL-SA (Harvard University) assessed it as an innovative method of environmental regulation

### **Environmental Registration Reforms**

Notified list of green industries over and above CPCB list

**Exempted select Green industries from clearances (White Category)** 

Policy for auto-renewal of CTE based on self-certification/third party certification

Policy for auto-renewal of CTO based on self-certification/third party certification

**CTE** issued for period of 7 years

CTO issued for period of 5 (Red), 7 (Orange) and 10 (Green) years

### **Inspection Reforms**

Inspection based on industry categorization (Red, Orange, Green) and Scale (Large, Medium, Small) through a formula in XGN system

Green Category Industries which have a history of satisfactory compliance - exempted from routine inspection

Third party certifications accepted instead of Departmental inspections for Orange Category Industries

#### **ISO & NABL Accreditation**

## All GPCB offices are ISO 9001 and 14001 certified

Standardisation in procedures & documentation – improved efficiency and quality of output

Cost savings due to resource, waste and energy management

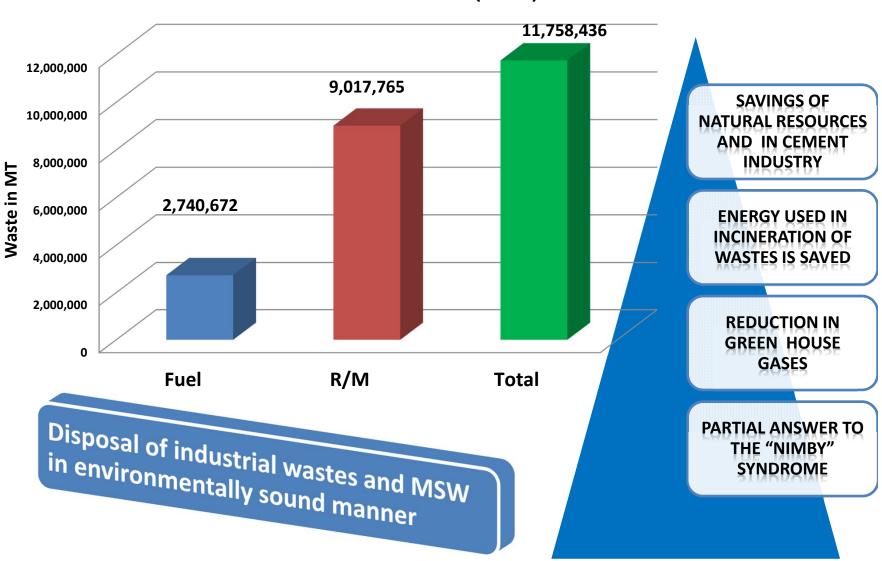
## Six Laboratories of GPCB are NABL accredited

Formal recognition of competence

Benchmark for performance
– standardisation of
laboratory procedures,
quality and efficiency

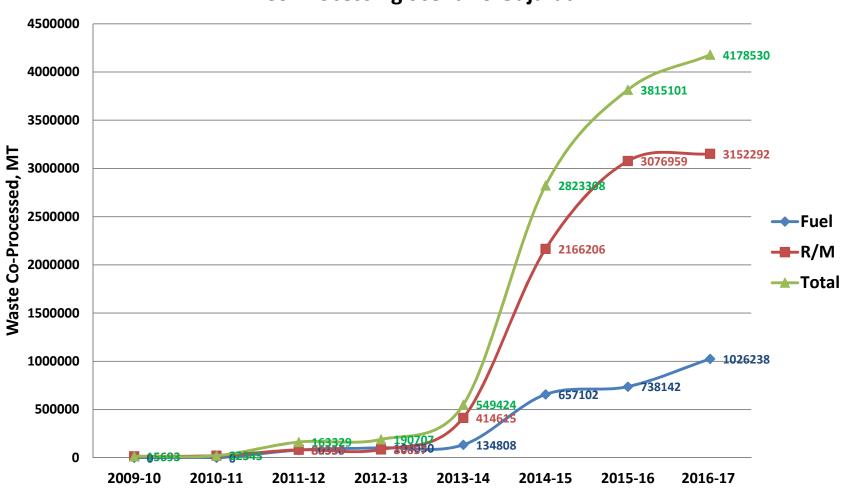
### **Co-processing of Hazardous Waste**





## **Co-processing of Hazardous Waste**





### **Auto – Renewal CTO**

**Existing industry can take the benefit of scheme** 

Industry self-certifies no change in product, process, emissions, EMS etc.

Industry should clear all dues before applying under this scheme

Mandatory visit is waived under this scheme

Verification during subsequent routine visit

CTO revoked if false self-certification submitted

## Clinical Approach – Act as facilitator

Venue, Date & Time

GPCB calls out for Environment Clinic

Clinic for Any Product, Process, Cluster etc.

Board owns the Industry's Need Based Research projects

**Industry submit its Problems Online** 

Problems are discussed in the Clinic

Experts are invited by GPCB

**GPCB Funded Research Scheme** 

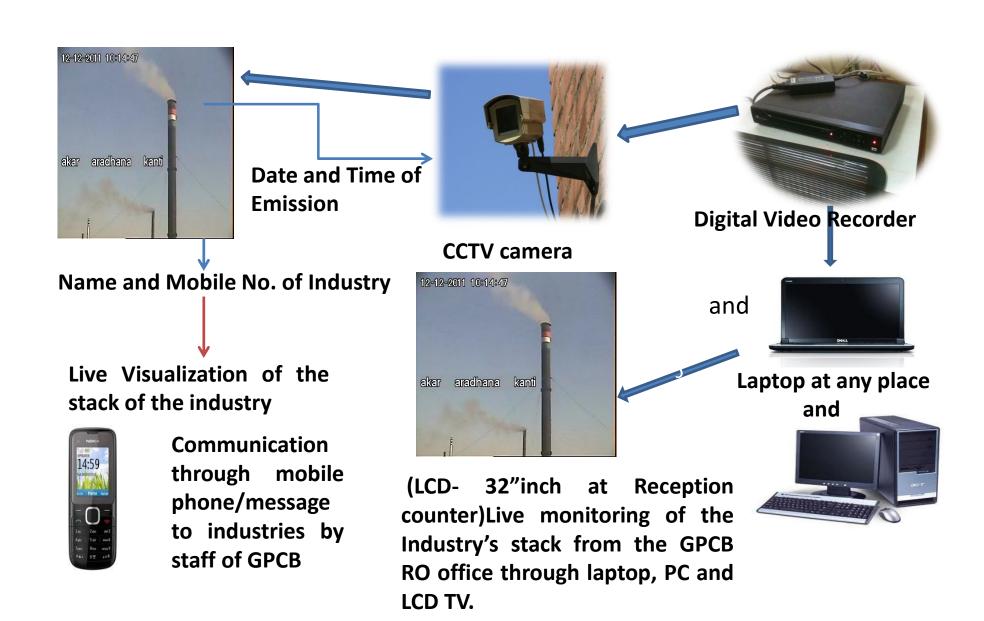
Research is required to solve the problem

Problem Solved due to Intervention of the Board-Common

Problems
Solved with in
the Clinic
through
Interactions

Solutions for the pollution

### **Use of Technology**



### Help Desk

All applications only online through XGN

Help Desk Concept to assist-support Small Scale Industries

Can avail facility without paying any charge

Help Desk at all ROs and also extended to Industry
Association on request

Facilities like uploading documents, printing reports and bills, lodging application etc.

### **Citizen's Charter**

Sr.	Type of Application	Time Limit
No.		in Days
1	Consent to Establish	90
2	Consent to Operate	90
3	Bio-Medical Waste Authorisation	90
4	Municipal Solid Waste Authorisation	45
5	Plastic Waste Authorisation	90
6	E-Waste Authorisation and Registration	90
7	Hazardous Waste Import One Time Registration	30
8	Environment Public Hearing	45
9	Trial run for Co-processing of Hazardous Waste	60
10	Registration for Recycling of Hazardous Waste	90

#### **Awards**

National Award for eGovernance (Processes Re-engineering) - 2009-10

**CSI Nihilent Award 2010-11** 

CSI Nihilent Award for Excellence – 2013

Manthan South Asia & Asia Pacific Award – 2014

National Award for eGovernance (Incremental Innovation) - 2014-15

### Recognitions

Initiative has helped GPCB in obtaining and sustaining

ISO – 9001 and ISO – 14001 at its Head Office and all its Regional Offices

NABL Certification for 6
Laboratories

- Planning Commission recommended replication and roll out of XGN Gujarat Model in other SPCBs 2012
- DIPP GOI recognised XGN as successful tool for e-Governance - May 2014
- Research paper "Environmental Regulations through ICT" selected at Ireland University, Galway in 2014

### **Recognition – Ease of Doing Business**

"State Implementation of Business Reforms through Ease of Doing Business Initiative" - Report by DIPP, GOI in September, 2015

(prepared by World Bank Group, KPMG, CII and FICCI)

GPCB achieved 100%
compliance in Area of
"Complying with
Environment Procedures"
during assessment Years
2015 and 2016

GPCB's e-Governance efforts through the portal – XGN are specially recognised

### Replication

#### **Cloud Ready Application**

Replicated in HP, MP, Karnataka, Goa, Uttarakhand, AP
Request received from Chhatisgarh, Assam, Bihar and
Rajasthan

Considering the successful implementation of XGN in GPCB and other SPCBs and the requests received from other SPCBs, Ministry of Environment, Forest and Climate Change has been requested to replicate and implement XGN at pan India level vide letter no. GPCB/IT-29/327938 dtd. 21st Sept., 2015

# Thank You

### **Questions / Contact:**

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