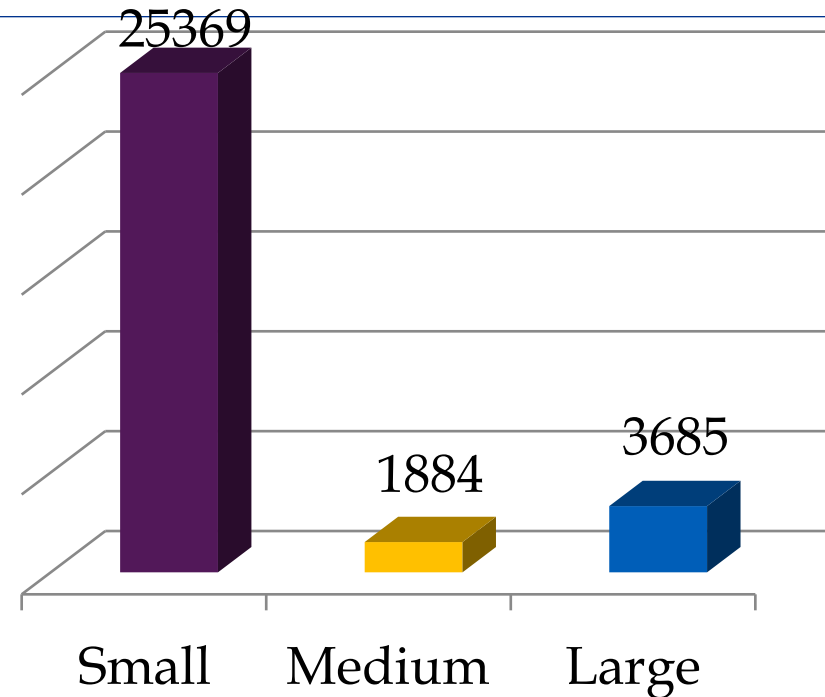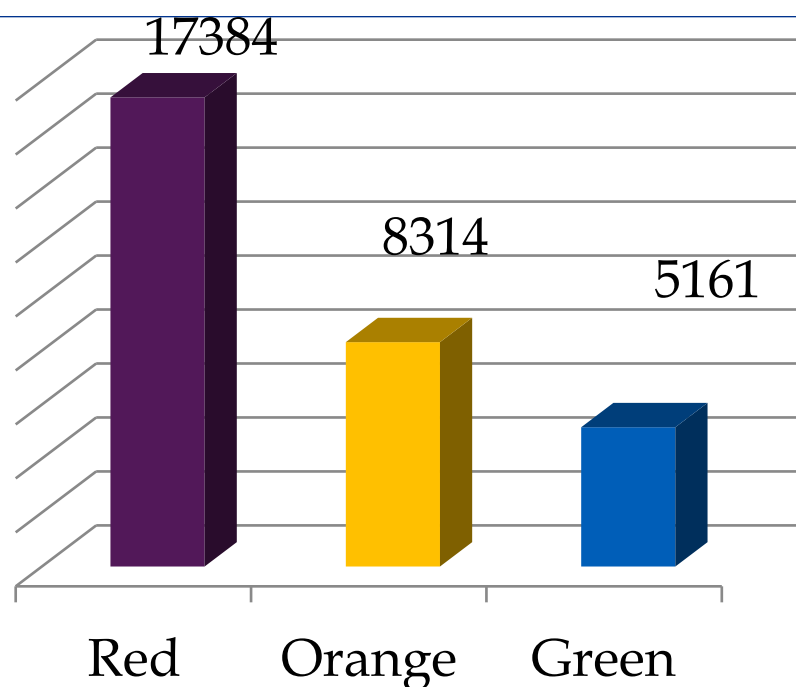# Gujarat Pollution Control Board
Reforms & Best Practices for Environmental Regulation

K. C. Mistry, Member Secretary,
Gujarat Pollution Control Board
Government of Gujarat
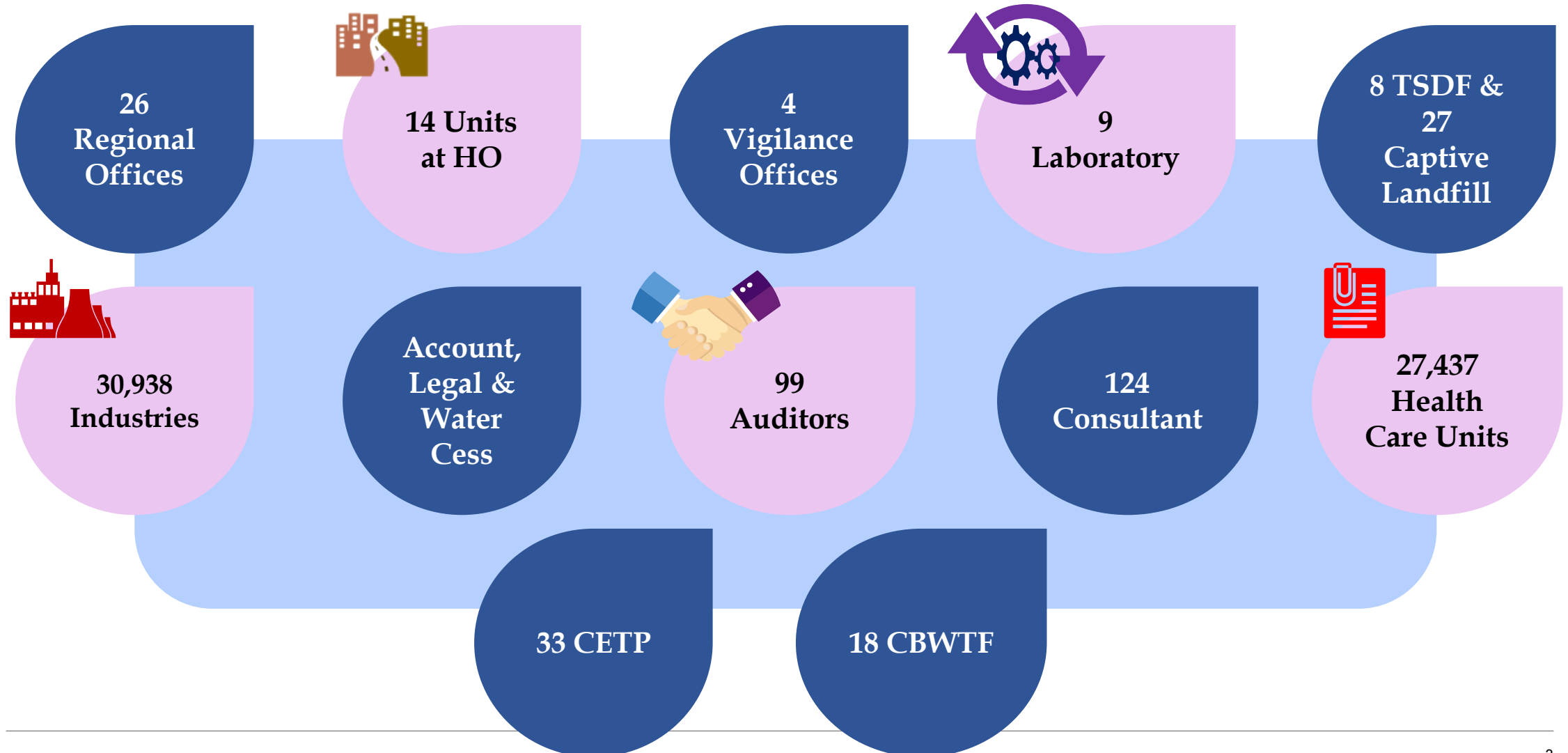29 July, 2017

Industrial Scenario- Gujarat

Red: 17384, Orange: 8314, Green: 5161

Small: 25369, Medium: 1884, Large: 3685

Strong presence of SSI units in the State

TOTAL – 30938

(As of 29th July, 2017)

Stakeholders – More than 58,000

26 Regional Offices

14 Units at HO

4 Vigilance Offices

9 Laboratory

8 TSDF & 27 Captive Landfill

30,938 Industries

Account, Legal & Water Cess

99 Auditors

124 Consultant

27,437 Health Care Units

33 CETP

18 CBWTF

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

XGN Development over the years (1/2)

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 (2/2)

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	2016-17
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	43,00,000 +

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**

Other Major Reforms

Common Consents & Authorization

✓ Issuance of Common Consents & Authorization (CCA) instead of individual consents & authorization

✓ 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

Auto – Renewal CTO

✓ Existing industry can take the benefit of scheme

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

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

✓ Mandatory visit is waived under this scheme

✓ Verification during subsequent routine visit

✓ CTO revoked if false self-certification submitted

Innovative Monitoring Tools

Regional Office and Vigilance Office concept

Third party monitoring through academic institutes

Regular meetings with NGO and Industries Associations to redress their complaints / issues

Issuance of written instructions at the site itself

Verification of compliance of written instructions in subsequent visit

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

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

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.

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)

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 recognized

Replication

Cloud Ready Application

Replicated in
1. Himachal Pradesh
2. Madhya Pradesh
3. Karnataka
4. Goa
5. Uttarakhand
6. Andhra Pradesh

Request received from:
1. Chhattisgarh
2. Assam
3. Bihar
4. 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