



# *XGN-Xtended Green Node*

## Inside this issue:

• Objectives	<u>2</u>
• Features	<u>2</u>
• XGN Modules	<u>3</u>
• Adaptability &	<u>4</u>
• Security Features	<u>4</u>
• XGN on Governance	<u>5</u>
• System	<u>5</u>
• E-Gov News	<u>6</u>

## *Background*



XGN has been developed by NIC (National Informatics Center) for the Gujarat Pollution Board, Facilitates the users in the day to day operations at **13 field office & about 17,000 Industries** spread all over. XGN is in operation since **June-2008** and has been instrumental in effective implementation of Pollution Control Board Act, Rules & Notifications. Acts covered are the **Air, Water, Hazardous & Bio Medical Waste, Plastics**. The **Stake Holders** of the XGN are different types of users at the regional, Head Office, Industries, Hospitals/Clinics, (Pvt-Govt), TDDFs, CETPs and BMW handlers. **The core of xgn lies in the e-Movement & Online Processing of e-Files leading to Stoppage of Physical Files. Average Daily Users are approximately 75 Technical Staff, 70 Scientist, 652 Industries.**

### Courtesy BY

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## *Project Initiative*

Gujarat Pollution Control Board in the sector of chemicals and pharmacy and Compliance monitoring of the industrial activities having high pollution potential from chemical, pharmaceuticals, fertilizers and iron and steel industries. Up till now Board was managing the frequency of the monitoring manually which was a very exhaustive activity for the technical staff of the Board. It was therefore, emphasized by the **Chairman of the Board, Shri C. L. Meena, IAS** that Board should have its own Management Information System which would relieve the technical staff from the exhaustive paper work and tracking of the industrial monitoring.

## *Objectives*

- Standardization & Speedy disposal of NOC-CCA through technology Usage.
- A Transparent e-Movement from Field Offices to Head Office
- Consent Grant/ Reject within 45 days Monitoring of Technical Parameters related to Air/Water/Hard Pollution
- Monitoring Previous Inspection & Sample History for reviews.
- Widening the base of industries registered with GPCB.
- Monitoring of Ground Water/Surface Water/Ambient Air Central Pollution Control Board (CPCB) Sampling Points Projects GEMS,MINAR,AAQM etc.
- Timely Alerts for Renewals/Expiry of CCAs & Payment Dues.
- Effective Monitoring of Hazardous, Bio Medical Waste Generation, its Treatment and eventual Disposal.
- Effective Online Interaction between GPCB Staff-Industries thru e-TALK.
- Isolation of Sample Collections from Parameter Testing and Result Reflections.
- A generalized Public Complaints Redressal System.

## *Features*

- Provides faster, accurate and relevant information pertaining to each and every industries located in the state.
- Improve the monitoring frequency.
- Provide an instantaneous list of the industrial units, health care units running without consents and authorization.
- Provide effective data and information amongst the various management levels and associate offices.

## *XGN Modules*

- **Industry Profile**

Sector, Location, Scale, Previous NOC-Authorization Details, Products, Raw Material, Investment and Air/Water/Hazardous Technicalities

- **Online application Module**

For the Industries (NOC/CCA application, Uploading Pages, Fee Payments)

- **Application Scrutiny system**

(e-Talk forms the base)

- **e-File movement**

Up to Final GRANT/REJECT (putting up to, Queries, Replies, Noting, Comments)

- **Inspection Module**

(Visits allocation, Inspections Dues, MPRs, H. Q. References, Freezing of I.R.)

- **Laboratory Module**

(Sample Collection, Dummying Parameter Allotment, Testing Results, Reflection to various levels)

- **Accounting Module**

(Appln Fees/Fees Slab/Lab Bills/Payments/Water Cess)

- **GPCB/CPCB Projects Monitoring**

(Sampling Points parameters, GEMS/MINAR/AAQM etc.)

- **Municipal Solid Waste**

- **Management System**

- **XGN Control Module**

(Tracking Management keys to Implementation)

- **Hazardous Waste Monitoring System**

Generation/Manifests/Disposal/Recycling)

Legal Module

(Show Cause Notice/Closure Directions/ Bank Guarantee)

The Public Grievances/Complaints Redressal System

(a G2c utility)

- **Bio-Medical Waste Management System**

Covers all the above Modules for Industries in brief, but with different parameters and modulus Operandii [BMW Act]

- **Water Cess Module**

### Modules under development

- Water Cess Module
- General File Movement
- Fly Ash, Plastic Rules

## *Adaptability & Scalability*

- Standardization has come into place at units of Head Office, Regional offices and Industries responses.
- Physical File Movement has been completely stopped for Industrial NOC, CCA. Inspection reports are not sending physically anymore, while for BMW the entire cycle is through XGN & No Application Submission.
- Speedy disposal of NOC-CCA through Technology Usage.
- A Transparent e-Movement from Regional Offices to Head Office.
- Consent Grant/Reject within 45 days.
- Monitoring of Technical Parameters related to Air/Water/Hazardous.
- Monitoring Previous Inspection & Sample History for reviews.
- Widening the base of industries registered with GPCB.
- Monitoring of Ground Water/Surface Water/Ambient Air Central Pollution Control Board (CPCB) Sampling Points Projects GEMS,MINAR,AAQM etc.
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## *Security Features*

- Maintaining audit Trails as far as Freezing of inspection reports, consent approvals and sample results. History of transaction by various users is being logged.
- Level of access – Updation and viewing depends up on the 2 pointers of the users i.e. Role of Logger and location.

## *XGN on e-Governance*

- Shunning away the Physical files has lead to users coming on to a common platform of e-Governance.
- Correspondence thru e-Talking results in to instant reflection to Industries & equally fast replies from them , further leading to speedy disposal of Inward Applications.
- SMS @ 8 stages has lead to Just-Enough-Transparency & ultimately speedy e-Movement.
- Restriction & Alerts at various stages of Inputs by Industries has resulted in immediate/timely payments has helped in recovering of outstanding dues (57 lakhs from 2.3Crores)
- Effective monitoring of TDSFs & CETPs treatment & capacities by co-relation with the actual Frequency of the monitoring is now being maintained as per the norms.
- Effective & Speedy Follow ups of the public complaints thru NET to immediate reflection to appropriate GPCB levels and action taken.
- Pulling of files by various heads from lower level after expiry of stipulated days, ultimately leading to faster disposal and a negligible pendency.
- Information regarding the expiry of the CTE/CCA is available on the click of the mouse, scheduling the monitoring programme .
- Displaying of relevant inward data combining it with a history of inspections/samples etc and that too on one pages has helped in seedier decision making almost unit heads, R.O heads & TLM.

## *SYSTEM*

System is based on the client server and service is manage by National Informatics Center, Gandhinagar. Clients are 125 technical officers, 125 scientists =, 50 Ministerial staff of the Gujarat Pollution Control Board and 17000+ industrial units, 26,000+ health carte units, 170+ urban local bodies, any citizen can submit his redressal on the site.

The Development, establishment and maintenance of the management Information System for the Gujarat Pollution Control Board.



## *NeGP Workshop on 26th June, 2009*

**A** State level Workshop on Awareness of National e-Governance Plan (NeGP) was organized today at GCERT Bhavan, Sector-12, Gandhinagar under the auspicious of Ministry of Information Technology, Govt. of India, Department of Science & Technology and Gujarat Informatics Limited, Government of Gujarat.

The e-Governance scenario in India has evolved from computerization of Government Departments to initiatives which encapsulate the finer points of Governance, such as, citizen centricity, service orientation and transparency. The approach, implementation methodology and management structure for NeGP was approved by the Government in 2006. Experiences from success as well as failures of the various previous initiatives played an important role in shaping the e-Governance strategy of the county.

About 125 Senior Officials from Govt. of Gujarat including CIOs & Jt. CIOs, who are instrumental in implementing e-Governance projects and programs in Gujarat have attended the Workshop.



Hon'ble Chief Secretary started with focus on various thrust areas like IT Infrastructure, IT in education, e-Governance through digitization of database and making more and more government services available online and greater public awareness about the importance of Information Technology. He also mentioned about the frontline position of Gujarat in implementation of e-Governance infrastructure policies and projects. Mentioning the 3 key components viz. responsiveness, transparency and accountability, he emphasized on government citizens' interface across the governance structure i.e. State, District, Urban and Rural levels. He also mentioned about the projects which are successfully implemented and are in the process of implementation. In the tune of NeGP vision, he mentioned about the State initiatives for making all government services accessible to the common man in his locality at affordable costs. The very basic components of e-Governance services is Capacity Building. He narrated that Capacity Building Programs developed and deployed in the State for effective implementation of e-Governance.



Joint Secretary, Shri Shankar Aggarwal, who specially came for this programme from Govt. of India talked about the promises & Premises of NeGP. Shri Piyush Gupra, NISG, Hyderabad had talked about the Capacity Building and Change Management.

Secretary, Dept. of Science & Technology, Shri Raj Kumar, IAS had talked about the NeGP Status in Gujarat. Dr. Varesh Sinha, IAS, Principal Secretary, Panchayat, Rural Housing & Rural Dev. Dept. had given the Status of Common Service Centre (CSC) in

Gujarat. The Director Accounts & Treasury Shri S. M. Shah shared his experience about the State Mission Mode Project.

There was a very good interaction among the participants. The Workshop was highly successful in creating the awareness and sensitizing as well as motivating the stakeholders who are implementing the e-Governance Projects.

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