

# Contribution of NIC to Government of Bihar in the field of ICT

National Informatics Centre has its wide presence in Bihar besides the 38 districts of the State. These centres have been instrumental in accelerating the pace of e-Governance with ICT-led initiatives and developments using the infrastructure of NIC e.g. NICNET, Data Centre, Video-Conferencing, etc. Regular technical support is being provided for the implementation of various National and State Government ICT initiatives and support including strategic control of the applications and services.



**SANTOSH KUMAR**  
State Informatics Centre  
NIC Bihar  
[santosh.kumar@nic.in](mailto:santosh.kumar@nic.in)



**RAJIV RANJAN**  
Principal Systems Analyst  
NIC Bihar  
[rajiv.ranjan@nic.in](mailto:rajiv.ranjan@nic.in)



Hon'ble CM of Bihar, Sh. Nitish Kumar, along with Senior Officials during inauguration of Smart-Card based Driving License at DTO, Patna

THE successful joint venture of NIC and State Government departments have been in socio-economic sectors like Rural Development, Urban Development, Property Registration, Land Records, Surface Transport, General Administration, Social Welfare, Human Resources Development, Health, Agriculture & Animal Husbandry, Panchayati Raj, CGHS Wellness Centre, Lokayukta office etc.

## NICNET SERVICES IN BIHAR

The NICNET Last Mile Connectivity (LMC) in Bihar has reached to 78 in numbers besides the 38 NIC district Centres of Bihar. Various Central and State government departments are utilizing the NICNET facilities to leverage ICT tools in delivering their services and conducts of their functioning, which includes DoPT, Patna

High Court, Secretariat, CGHS Dispensaries, Directorate of Economics & Statistics, Directorate of Census, Regional Passport Office, DGFT, ICMR, Emigration Centre at Gaya etc. They are connected with NIC Bihar State Centre, having redundant connectivity to NIC (HQ) through NICNET. The NICNET connectivity up to the districts is being upgraded to 34 Mbps with STM/CPE technology.

## E-GOVERNANCE INITIATIVES

A number of ICT led projects recently initiated and implemented under the technical guidance and support of NIC Team in Bihar are Nagrik Seva Kendra, i-BhuGoal, Vahan & Sarathi, e-Registration, Chanakya, e-Procurement, MUDRA, e-Gazette etc. Moreover, ELECON, RACE, Bhu-Abhilekh, Courts Computerization, GPF, Office of Lokayukta, Regional Passport Office, Custom Office (EDI) and Application software for Panchayati Raj Department have also

been operational and are being utilized by the departments.

**NAGARIK SEVA KENDRA**

Most recently Nagrik Seva Kendra project has been initiated to converge various government services in delivery of citizen centric services in a stipulated timeframe under Right to Public Services Act (RTPS).

Patna and NIT-Patna besides IIT-Patna and ICAR-Patna. The services of Data Centre and Video Conferencing are also leveraging the NICNET for implementation of various programmes of the government. Video-Conferencing service in Bihar is successfully utilizing QoS for review, monitoring and capacity building programmes. In last five years, more than 10,000 hours have been utilized for more than 4000 session of video conferencing facilities of NIC in Bihar.

**I-BHUGOAL**

Geomatics Oriented Application Model, i-BhuGoal, has been initiated for Bihar infrastructure mapping for efficient and transparent decision making process.

This Project envisages establishment of Bihar State Spatial Data Infrastructure for Multi-Layer GIS by leveraging the existing & available data and ICT infrastructure resources at NIC Hq as well as State Level, involving various stakeholders in State of Bihar. It is meant to visualize MIS data spatially through thematic maps. A GIS/GPS/Remote Sensing based project for Bihar Infrastructure Mapping of educational facilities has been initiated to cover through a project GPS based data collection for GIS enabled school mapping for approx 75000 schools, 80000 Anganwadi Kendra, ITIs, Polytechnics, Engineering Colleges, Colleges and Universities of Bihar.

High courts in India to Computerize Cause List Management System. As of now LAN with FO backbone has been established. Daily Cause lists are published on <http://causelists.nic.in>. Statistical reports are generated. Judgment Writing Information Management System (JWIMS) facilitates Secretaries/PA's to create, update & pronounce orders/judgments. Judgment & Order Retrieval System (JOARS) are accessed through Case No., Party Name etc. Reception cum Information Counter (RIC) disseminates information to advocates, Litigants & others Citizens. Advocate-on-Record Information System (AoR) contains database of all registered advocates. Judicial Officers Activities Monitoring System helps to monitor the various activities of each Judicial Officers. These activities are captured online. Also Judicial Officers Service Record Information System helps different committees of the Patna High Court.

**e-MAIL SERVICE**

e-Mail service of NIC has been widely used by government officials in the state. Websites of various departments and organizations that are accessible through Govt. of Bihar website (<http://gov.bih.nic.in>) are helping common citizen at large in getting information and services. Several websites have incorporated multilingual technology to benefit the common masses. To promote IT culture in Bihar, NIC also imparts training on ICT tools and e-Governance projects to the state government and central



Nagarik Seva Kendra website

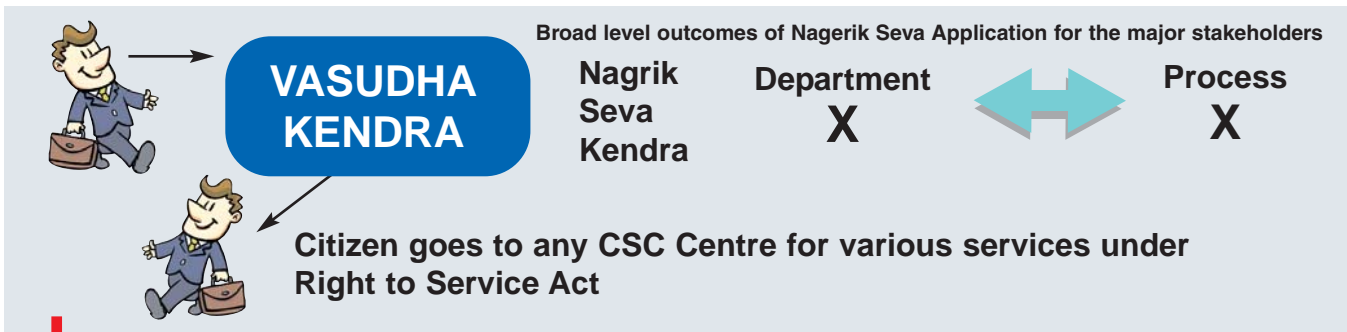
Nagarik Seva Kendra project envisages enabling the back end computerization and also using the SWAN for connectivity and CSCs for service delivery. The aim is to provide G2C services comprising of issue of certificates, applications for various govt. schemes, grievances etc. from the Nagarik Seva Kendra.

**NATIONAL KNOWLEDGE NETWORK**

NKN connectivity, multi-gigabit pan-India network for providing a unified high speed network backbone for all knowledge related institutions in the country, has been extended to IGIMS-

**COMPUTERIZATION OF HON'BLE PATNA HIGH COURT**

Patna High Court is one of the leading



Citizen goes to any CSCs for various services under Right to Service Act



Hon'ble CM of Bihar, Sh. Nitish Kumar, inaugurating Rashtriya Swasthya Bima Yojna (RSBY) using Video Conferencing

### e-REGISTRATION

Under e-Registration project of Registration department, recently an exclusive Data Centre has been established to centralize database of deed from year 1996 onward. Around 1.2 crore records are expected to be captured using SCORE and scanning & indexing of old deeds. Registry offices have been connected through VPN for daily transmission of records. A web based query system has been designed to enable citizen to access information for transactions related to Property Registration in public domain. The project in its earlier version has been the recipient of Prime Minister Award for Excellence in Public Administration for the year 2007-08.

### CHANAKYA

Chanakya is a Workflow based solution for automation of university business process related to Registration and Examination module. Registration Module includes Registration Form Data Entry, Registration Form Verification in workflow, Registration Number Allotment and Generation of Registration Cards and Index Registers. The Examination Module includes Examination Form Processing and Issuance of Examination Admit Card, Examination Form Entry,

Examination Form Verification, Roll Number Allotment, Generation and Printing of Admit Card including Examination Schedule, Generation of Attendance Sheet and Report for Examination Centres, Interface for filling Absent/Expelled Information Sheets, Marks Processing and Tabulation Register preparation, Interface for Marks-foil Entry, Verification Interface for Tabulator, Tabulation Register Printing facility, Mark-sheet Printing facility and Certificate printing facility etc.

### VAHAN & SARATHI

VAHAN & SARATHI has been implementing in all 38 districts in Bihar. The project was launched by Sh. Nitish Kumar, Chief Minister, Bihar on 27th May 2008. The application has been extended in the following areas:

- Smart-Card based Registration Certificate of Vehicles
- Smart-Card based Driving license
- Dealer-point-Registration
- Computerized Tax Token
- National Permit Authorization (NPA)

### RURAL DEVELOPMENT

NREGASOFT has been implemented in 534 Blocks of 38 districts in Bihar. This covers various processes of

MNREGA such as issue of Job cards, Scheme details, Muster Roll, Fund Transfers, Bills and other expenditure. E-Certificate software for issuing Caste, Income, Residential, Land Ownership certificate has also been implemented in Blocks through Block Informatics centre. A central database of entire locations of Bihar has been created for standardization and interoperability of applications.

Government Financial Accounting System (G-FACTS) is being extensively used at 534 Blocks x 2 i.e. BDO and PO Offices, and 38 DRDAs of Rural development Department for preparing Accounts, Cash Books and other analysis reports required for day-to-day financial Management. This is a web based application hosted at <http://gfacts.bih.nic.in>.

### BHU-ABHILEKH

The computerization of Land Records in Bihar has an estimated number of 2.5 crores land holders spread across 19,949 revenue villages in 534 circles in 38 districts. Bhu-Abhilekh is window based Unicode compliant application software with Indian Language interface for maintaining land records information, issuing computerized RoR and work flow based mutation of land. As of now Land Records in 147 circles in the State are ready for G2C services.

### PANCHAYATI RAJ DEPARTMENT

Under e-Panchayat Mission Mode (MMP), NIC in Bihar is striving to implement a suite of applications called Panchayat Enterprise Suite (PES) and Enterprise Resource Planning (ERP) - a solution for the Panchayats developed by NIC HQ. PlanPlus has already been rolled out in Bihar. National Panchayat Portal (dynamic website of Panchayat) is operational. PRIASoft (Financial Management & Accounting of Panchayati Raj Institutions (PRIs) has also been recently initiated for implementation after State Level Training Programmes.



### e-PROCUREMENT

Government e-Procurement (GePNIC) System has been successfully implemented in Rural Works Department (RWD). The modules have been implemented - Registration, Tender Management, Bid Opening & Bid Evaluation, Award of contract. As of now more than 1800 tenders have been published through the e-Procurement system. More than 600 officials from user departments have been trained and 1200 contractors have been registered.

### MUNICIPAL CORPORATION DIGITAL REVENUE ADMINISTRATION (MUDRA)

The system MUDRA - a web enabled application software has been deployed at 43 ULBs out of 49 ULBs. The system helps the Holding owners, Tax collectors, officials at headquarter levels and Circle levels. The features include functioning activities of Holding owners, Tax Collectors, Computerized Bill generation, Demand note generation, Online tax collection, Receipt generation, Makan database, etc.

### e-GAZETTE

e-Gazette (<http://egazette.bih.nic.in>) is a Web based application in workflow to render services to departments /employees of Bihar Government as well citizen of Bihar. The E-Gazette application starts from receiving of the notifications from different departments and to publish the Gazettes. The system facilitates for online advanced searching, viewing, downloading and printing of Gazettes.

### COMPDDO & E-SAMARTH

All accounting functions related to employees of NIC in Bihar have been computerized and accessibility has been provided through e-Samarth.

### MOTHER CHILD TRACKING SYSTEM (MCTS)

This application software of NIC has been utilized by State Health Society in Bihar. It is a prestigious project for

State Government. Data is captured through health facility centres e.g. Health Sub Centre, PHC etc. More than 7.5 lakhs mothers and 1.62 lakhs children have been enrolled so far.

### NIC CELL AT RAJ BHAWAN

The Cell extends its technical support to the office during VVIP visits at Raj Bhawan. Other technical activities include University Correspondence Monitoring System, Automation of Accounts, Website (<http://governor.bih.nic.in>) maintenance on regular basis, Public Grievance Monitoring System, Monitoring of Letters under RTI and NICNET support.

### COMPUTERIZED LOKAYUKTA INFORMATION MANAGEMENT SYSTEM (CLAIMS)

CLAIMS is a bilingual citizen centric web enabled software for monitoring of complaints related to this office. Case status and Email based Complaint filing system for Lokayukta, Bihar has been put on the website <http://lokeyukta.bih.nic.in>.

### CUSTOMS COMPUTERIZATION PROJECT THROUGH EDI

EDI operations at Land Customs Station Raxaul have been implemented and the application caters to the needs of Customs officials at Land Customs Station Raxaul and Service centre operators.

### NATIONAL ANIMAL DISEASE REPORTING SYSTEM (NADRS)

This project is being implemented by NIC for the department of Animal Husbandry, Dairying and Fisheries. 574 locations in Bihar have been identified to access the information from blocks.

### BIOMETRIC-BASED ATTENDANCE SYSTEM

Attendance Monitoring System software has been implemented in two Government Women's Colleges in Bihar i.e. Government Women's

College, Gardanibagh and Government Women's College, Gulzarbag. Under this project attendance of Staffs and Students are being captured using Biometric device and regularly uploaded on <http://ams.bih.nic.in>.

### WEB BASED APPLICATION FOR PATNA DIVISION

The web based application (<http://patnadivision.bih.nic.in>) has the features like online Court case monitoring, Public Transport Facility Management e.g. Bus Routes, Time Table, Route Permit, online booking status of S K Memorial Hall, Monthly Progress Report for 25 different social development schemes, Publishing of Tenders etc.

### DISTINGUISHED AWARDS

- **Prime Minister Award** for Excellence in Public Administration for the year 2007-08 [e-Registration in Bihar]
- **11th National e-Governance Award** (Silver Medal) in the year 2008 [ELECON - Election Confidential]
- **National award** for e-Governance (Excellence in Government Process Re-engineering) in year 2007 [e-Khazana: Computerization of Budget, Treasury and State Provident Fund]
- **Microsoft e-Governance Award** 2006 [COIN: Co-operative Banking in Place]
- **Oracle e-Governance Excellence Award** - IT against odds [VICTORY: VAT Information Computerization To Optimize Revenue Yields]

### For further information

**SANTOSH KUMAR**  
State Informatics Officer  
NIC, Bihar State Centre  
3rd Floor, Technology  
Bhawan, Bailey Road,  
Patna - 800015  
Ph: 0612-2545964  
[sio-bih@nic.in](mailto:sio-bih@nic.in)