

# Assam Weaving ICT Dreams into Reality

*Assam popularly called the land of red river and blue hills, famous for its tea and one-horned rhinoceros, dominated by the mighty river Brahmaputra, is the gateway to the northeastern India.*

*The state has a large number of tribes each unique in it's tradition, culture, dresses and exotic way of life.*

*The people of Assam have traditionally been craftsmen. Artists, sculptors, masons, weavers, spinners, potters, goldsmiths, artisans of ivory, wood, bamboo, cane and hide. Assam is renowned for its exquisite*



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NIC, Assam State Centre was set up in the year 1986. Since then the center has embarked on many e governance projects and simultaneously upgraded its ICT infrastructure & resources to the best in the industry.

## ICT Infrastructure

**Network Operation Centre (NOC):** NIC commissioned 'Network Operation Centre' which also serves as the digital gateway for the entire northeastern states. The 100 Mbps links connects Guwahati Delhi while Guwahati-Hyderabad link act as a failover. All the NE State capitals are connected to this centre. The NOC is manned 24/ 7 and various software are installed for effective monitoring of the entire network.

All the 8 Blocks of the Secretariat are connected to the NOC with OFC backbone, each block having nearly 120 LAN nodes. The 23 districts are connected with dedicated 2 Mbps MLLN from the NOC in addition to DVB VSATs for data and DAMA VSATs for VC. Four other new districts are presently having VSATs connectivity.

Various post offices have been connected under the Department of Post (DoP) project. The Regional Passport Office (RPO), Census and Immigration Terminal at the airport are connected to NOC with MLLN line. The Guwahati Metropolitan Area Network (GMAN) connects nearly 42 Directorate offices using RF links. The four sites with RF hubs

are connected by 2 Mbps leased line, which acts as a backbone for the GMAN network. The residence of Governor and the Chief Minister are also connected with 2 Mbps leased line and RF Link. This centre is equipped with 1 TB SAN along with several mid-range servers for hosting several Intranet applications both under Windows and Linux platforms.

**Video Conferencing:** VC facilities presently exist in the Chief Ministers Residence Office, offices of the Chief Secretary, Minister of IT, Commissioner of IT, apart from the 24 districts and the state center. Most of these are IP-based and through 2 Mbps lease line connectivity.

**Training:** NIC, Assam has been regularly imparting Training since its inception. Training Division conducts about 35-40 courses per year ranging from general awareness and Office Productivity courses for government users, sectoral courses and Technology Update Courses for NIC personnel for the entire NE region.

## Projects:

**Land Records:** A web-enabled ISO/IEC 9126 and ISO 12007 standards certified software for Land Records Computerization, named Dharitree, started as a pilot project in the Sonitpur district of Assam under NeGP. Dharitree is being replicated in all the districts of Assam as well as in the state of Meghalaya, and Nagaland. Dharitree facilitates up-to-date maintenance of Land

Records, automated mutation system including automatic correction of Chitha and Jamabandi records through online mutation system, efficient online delivery of quality services (mutation, copy of Record-of-Rights, various land based certificates etc.) to the citizens.

**Registration (e-Panjeeyan):** e Panjeeyan project deals with the computerization of the Document registration work at Sub Registrar Office. e Panjeeyan provides modules for Initial enquiry for stamp duty evaluation, cash collection, entry of basic data, verification by RO, scanning of registered document, digital photo and finger prints of 1st, 2nd Party along with witness and modules for generating various MIS Reports and searching of digitized documents. e-Panjeeyan has been implemented in all the four SROs of the Sonitpur district. It is being gradually rolled out at other Sub-Registrar Offices.



*e- Panjeeyan Inauguration at Jorhat*

**Transport Vahan and Sarathi:** The Vahan & Sarathi software helped in the transport department. The software has been implemented at 4 DTOs viz, Kamrup, Silchar, Jorhat and Sibsagar. In DTO Kamrup (which takes care of more than 50% of transactions of the State), smart-card-based Driving License and Registration Certificates are being issued.

**Judiciary:** Websites of Guwahati High Court, Legal Services Committee, district judiciary of Kamrup, Nagaon and Goalpara has been designed and hosted. High Court Case Status Enquiry, a web based online system for case details have been launched recently to help individuals, lawyers, petitioners to check their case details. The e-court project is also being rolled out in the state for computerization of the civil courts.



*e-Court inauguration*

**Geographic Information System:** NIC has been coordinating in updating village polygons and habitation point database for National GIS enhancement. Village polygons for 12 districts and habitation database for 17 districts have been updated. Base maps are created for a few circles with the help of Directorate of Assam Survey & Settlement, Guwahati.

**North East Accounts Employee Empowerment:** The web enabled (G2E) Integrated Accounts Information System for North Eastern States developed in PHP and PostgreSQL having five modules, namely Payroll, Income tax, Leave and Tour Bill processing has been implemented. Separate levels of access are provided for the SIO's of various NE States, the DDO's and NIC employees.

**SDO Suite:** The Subdivision is an important level of government hierarchy below the district and SDO-Suite takes care of various G2C services from the sub divisional office. This system helps in issuing various certificates like Land sale Permission, Legal heir, Issue of Passport Verification, Birth and Death Report, Non creamy layer, Permanent Residential, Meeting Order etc. The software has been implemented at three sub-divisional offices.

**CIPA:** The Common Integrated Police Application (CIPA) is a multilingual application to automate the processes at Police Stations and to build a crime & criminal Information system based on CrPC. Workshops cum training programs have been organized jointly by NIC and Assam Police for smooth implementation of the software. CIPA has been rolled out at twenty four police stations.

**NREGA Soft :** Data entry for NREGA Soft is being done in all the districts with the technical support from NIC. Training and workshop on the software for all the 27 districts has been conducted.



*NREGA training Program*

**Plan PLUS:** State and district level training on PLANPLUS software for creating the Annual and Perspective Plans, have been conducted for the 11 BRGF districts of Assam. The training support has been provided for other NE states like Arunachal Pradesh and Meghalaya.

**PHED Project:** A Web based software developed in .NET framework with SQL Server as backend covers all the work flows for the Public Health Engineering Department up to Sub division level for capturing the required information for 15 identified modules has been implemented. It generates reports and required queries.

**Election:** NIC consistently supported in the Lok Sabha, Assembly and Panchayat elections. The website of the CEO Assam <http://ceoassam.nic.in> has been hosted & maintained. NIC also developed a suitable computerized system to take care of the Affidavit management during filing of nominations by candidates in the last Assembly Election.

**State Govt Employee Database:** Database has been built for the employees of twenty seven districts of Assam. The details has been published on the website <http://wap.as.nic.in>.

**Websites:** At present over hundred websites are hosted and maintained by NIC for various govt. departments & institutions. Domain registration services, VPN accounts for secure update of websites are provided. e-mail accounts for government officials are provided for secure online correspondences within the departments.

**Passport Computerization:** Regional Passport Office (RPO) Guwahati has its jurisdiction over six North Eastern States of India viz Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram and Nagaland. The RPO, Guwahati was computerized in co-ordination with MEA Information Division, Delhi. Processing of applications for passport and other miscellaneous services has been fully computerized.

**COMPACT Implementation:** Comprehensive

Accounting System - COMPACT has been implemented at the Regional Pay & Accounts Office and National Highway Authorities. The system generates cheques, which can be directly printed for disbursement has benefited the employees.

**Online GPF Accounting:** An Online Portal for Accountant General maintains a huge database of approximately 5 lakh State Govt. employees and provides them online search facility for their latest position of GPF accounts with missing credit details. The web enabled GPF module of been developed in ASP.net and Oracle10g under linux.

**Immigration Control for LGBI Airport:** The Immigration Control System (ICS) developed by NIC HQ has been implemented at Guwahati airport to provide information on entry/exit etc. about travelers at the immigration counters.

**Other Major Projects implemented are:**

- e-Sanwad / e-Suvidha / e-Sewa - web-based systems for providing G2C services Software for the P & RD Department: support for schemes like Rural Housing, IWDP, SGSY, DRDAAdmin, etc.
- IEEE Counseling Project - provided support at IIT, Guwahati and NIT, Silchar.
- Dak Management Software - provides efficient management of Letter's or Daks received at various Government Offices.
- Online Web-based File Monitoring Software: Implemented at the office of Chief Secretary and Deputy Commissioner, Dibrugarh.
- Web-based Telephone Information System application to computerize all the telephone /mobile connections and bills of all the departments under the Government.
- Comprehensive DDO software - has been implemented at SSC, CAT, Income tax Appellate Tribunal, CGWB, NHAI and Regional Passport Office.
- Postal Life Insurance for Post office: Migrated existing computerized PLI system to Web based under Oracle 10g.

NIC Assam looks forward to provide ICT- based services to various government organizations in the State to promote e governance for the benefit of common people.

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