

Informatics

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SPOTLIGHT

Hon'ble Union Minister (E&IT)
Visits Himachal Pradesh

FROM THE STATES

Punjab, Nagaland
Andhra Pradesh

DISTRICT INFORMATICS

Sangareddy, Ujjain

E-GOV PRODUCTS & SERVICES

Aadhaar Authentication Platform

TECHNOLOGY UPDATE

Live Syncing Daemon (Lsyncd)

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“Be the change you want to see in the world!” So many of us have heard and been moved by the powerful words of Gandhiji. His life and thoughts inspire and ignite many minds to transform lives in meaningful ways and making the lives of others better than they ever thought possible.

As we celebrate Mahatma’s 147th birth anniversary this year, there can’t be a better tribute to him than each of us selflessly doing our bit to keep our country clean and beautiful. ‘*Swachh Bharat Abhyan*’ introduced in the year 2014 is perhaps one of the most ambitious initiatives taken by the Indian government towards realisation of Gandhiji’s dream of making a cleaner and healthier India.

Aiming at overcoming implementational challenges, ICT solutions at various levels are explored in government, right from generating awareness till measuring and ensuring the effectiveness of the initiative. As a result, we see a large number of centralized and regional Apps available for citizens and other stakeholders. It is noteworthy that NIC has, in some-way or the other, contributed to the development of many of such useful Apps. As a technology enabler in government, NIC strives to provide the best of ICT services for empowering citizens and stakeholders.

Appscape, in this Issue showcases 8 prominent and feature-rich Apps developed by NIC. Hon’ble Minister of E&IT’s visit to Himachal Pradesh has been focussed in the *Spotlight* section and as we cover Punjab, Nagaland and Andhra Pradesh in *From the States*, two prominent districts namely; Ujjain and Sangareddy are featured in *District Informatics*. Aadhaar Authentication, Fostering the implementation of IDS in Malda, Strengthening the Finance Management in Meghalaya and Wi-Fi implementation in the Civil Secretariat of Arunachal Pradesh are the articles covered in *eGov Products & Services* section of this Issue. Featured in the *Technology Update* is ‘Lsyncd’ which makes Host 2 Host replication easy. Our usual sections such as *Accolades*, *International eGov Update* and *In The News* are here for you as usual.

Here’s wishing you a celebration of patriotism and a season indulged in activities which are socially relevant and inspiring.

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Shri Ravishankar Prasad, Hon'ble Union Minister in Himachal Pradesh

The Minister visits Shimla and Dharamshala, reviews ICT activities in the State, the role of National Informatics Centre and Common Service Centre

By AJAY SINGH CHAHAL & SANDEEP SOOD, HIMACHAL PRADESH



Shri Ravishankar Prasad, Hon'ble Union Minister of Electronics & Information Technology, Law & Justice visited Himachal Pradesh during September 2017 to review the ICT activities in the State, especially the role of National Informatics Centre and Common Service Centre.

The Minister appreciated the good work being done by the NIC Himachal Pradesh by providing two national level products namely "Manav Sampada" and "ARMS" application for timely, easy and effective monitoring of Mid Day Meal being served in the schools. The minister appreciated the way now Mid Day Meal data is being made available on daily basis at the National Level for effective monitoring of the scheme. He emphasized on the need to add exception reporting into the system to keep a check on the data being received.

On his visit to Dharamshala, District Kangra, the Minister inaugurated the CSC VLE Conference at Dharamshala, Himachal Pradesh, where more than a thousand Village Level Entrepreneurs of Himachal Pradesh from all 12 Districts participated.

The Hon'ble Minister inaugurated 5 services of IGNOU, payment gateway integration with Jamabandis, Homeopathy consultancy,

//

"Winning awards at National level, puts more responsibility on the NIC Himachal Pradesh to come up with innovative ICT solutions for citizens of hill State where commuting to Government offices is a time consuming and costly affair"

//



//
 Services under Revenue sector need to be extended to enable land owners in villages, with almost 90% of the State population, to avail these services without visiting Government offices
 //



Hon'ble Minister launching the Revenue Services with Integrated Payment Gateway



Hon'ble Minister lighting the ceremonial lamp to inaugurate the CSC-VLE conference at Dharamshala, Kangra, Himachal Pradesh

marketing portal for local products of artisans and .IN domain registration.

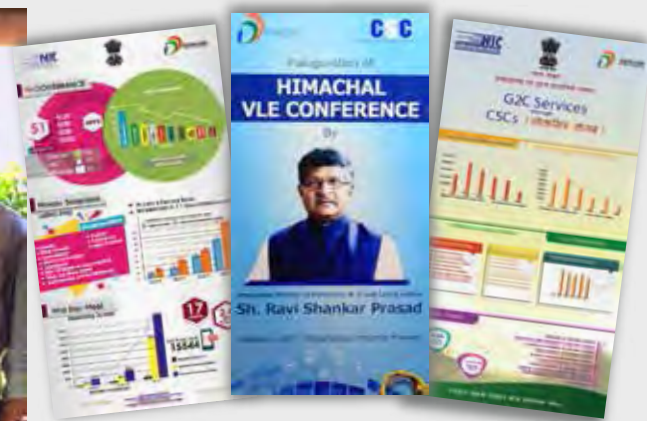
During a conference, the Minister said that he has specifically visited Himachal Pradesh for the conference as most of the VLEs were unable to visit New Delhi earlier in March 2017. He appreciated the work done by VLEs in running the Common Citizen Centres and providing various kind of services to citizens in the rural areas of Himachal Pradesh. The Minister added that he hope the VLEs will continue to expand the scope of Digital India Program by providing quality services at the doorstep of the citizens.



Hon'ble Minister addressing the VLEs in the Conference



Officers of NIC Himachal Pradesh with the Hon'ble Minister



PUNJAB STATE

Ensuring Transparency and Reliability in Services provided to Citizens through Efficient ICT Solutions

NIC Punjab has successfully implemented various citizen focussed e-Governance projects in the State fulfilling the objective of making Government services available and accessible 24x7 to the common man at an affordable and hassle-free manner, at the same time ensuring efficiency, transparency and reliability of such services.

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Punjab State is situated in the north-west region of India and is one of the most prosperous States in the Country.

The name Punjab has been derived from the combination of two words; ‘Panj’ for five and ‘Aab’ for water, meaning Land of five rivers. Majha, Doaba and Malwa are the three regions of the State. According to 2011 Census of India, the total population of Punjab is 2,77,43,338. Today there are 22 Districts and 5 Divisions in Punjab.

ICT SERVICES IN PUNJAB

State of Punjab has been emerging as one of the leaders in the country to implement e-Governance initiatives in every sphere of governance, in order to bring paradigm shift in citizen service delivery and Government functioning, with vision “Make all Government services accessible 24x7 to the common man at affordable costs and in hassle free manner, and ensure efficiency, transparency & reliability of such services”. For making this vision true, NIC Punjab has implemented various e-Governance projects in State.

Ministry of Electronics & Information Technology (MeitY) of Government of India provided e-Readiness report according to which Punjab is one of the leading States of India in making the use of Information and Communication technologies (ICT) effectively. NIC Punjab is providing its expertise in ICTs-design, development and implementation of various ICT services to the State Government like Suwidha, Sewa Portal, invest Punjab, Election, VAHAN, SAR-ATHI, eCounseling, eOffice, HRMS etc.

NIC PUNJAB STATE CENTRE

Established in 1988, Punjab State Centre



“

National Informatics Centre, Punjab has always provided excellent support to the Government of Punjab for designing and implementing important e-Governance projects. I would like to specially mention the outstanding achievements of National Informatics Centre in designing the regulatory approval system for invest Punjab which has been recognized as one of the best in India, and also for implementing the e-District Projects in all districts of the State.

National Informatics Centre, Punjab has always been very proactive in supporting the State Government to analyze, design and implement information systems.

I look forward to greater synergies between National Informatics Centre and the State Government in future and wish NIC, Punjab great success.

KARAN AVTAR SINGH
Chief Secretary
Government of Punjab

”

of National Informatics Centre (NIC-Punjab) has been instrumental in bringing ICT culture in Punjab government.

With a focus on building IT interfaces to facilitate citizen-friendly and transparent government, NIC has made significant contributions in improving service delivery by a number of departments such as Revenue, District Administration, Rural Development, PDS, Finance, Agriculture, Industry, Labour, Health, Education, Elections, Social Welfare, Food & Civil Supplies, Courts etc.

NIC-Punjab has offices at State and District levels within government complexes so as to have a very close coordination with the government. NIC provides the following services.

- Technical Consultancy
- Software Development & Maintenance
- Network (NICNET/ NKN) & Video Conferencing Services
- Technical Support for implementation of NIC Projects
- Domain Name registration
- Web Hosting
- Cloud Services
- Application Training Services

DESIGN, DEVELOPMENT & IMPLEMENTATION

Following were designed, developed, implemented solutions in various sectors of Punjab Government:

INDUSTRY

- One Stop Clearance System for Punjab Bureau of Investment Promotion, Single Roof Clearance System (SRCS) for Haryana Enterprise Promotion Board, Punjab Industrial Inspection Monitoring System (PBIIMS)

CITIZEN SERVICES

- Punjab Sewa Portal covering 271 services

EDUCATION

- Standardized ITI Portal (eITI), eCounseling for Punjab State Board of Technical Education (PSBTE), eCounseling for courses covered under ITI's (for Department of Technical Education and Industrial Training), eScholarship (ASHIRWAAD)

PUNJAB PUBLIC SERVICE COMMISSION

- PPSC-ISR (Integrated Solution for Recruitments for Punjab Public Service Commission)

AUTOMATION OF WORKPLACE

- eOffice, a digital workplace solution for 22 DC Offices, MilkFed, PMIDC, ETTSA, DGR and MSGSIPA

HEALTH

- Blood Bank Management System, Mid-day Meal Monitoring System, MedLEaPR (Computerization of Medico Legal Reports and Post Mortem Report), Cancer Rahat Kosh Fund Monitoring System (CRFMS-Web), MCTS/ RCH (Mother- Child Tracking System)/ RCH (Reproductive and Child Health), Track Child, National Tracking System for missing & vulnerable children, eHospital.

LABOUR

- Web Portal for Labour Department

ADMINISTRATION & GOVERNANCE

- Human Resource Management System- Manav- Sampada, Government eProcurement System- GePNIC

ELECTION

- District Information System for Election, Punjab Poll Day Monitoring System

RIGHTS & SOCIAL JUSTICE

- PB-PGRAMS (Public Grievance and Redress Monitoring System)

TRANSPORT

- VAHAN (Vehicle Registration System), SARATHI (Driving License Issuance System for Transport Department), e-Challan, Punjab Roadways Collection Monitoring System (PBRCMS), Permits

LOCAL GOVERNMENT

- Web Portal for Department of Local Government Punjab

NETWORK & WEB SERVICES

- NIC Punjab Cloud Management
- Domain Name Registration
- Email Creation
- VPN Services (remote publishing facilities)
- Website Hosting
- Websites for all the 22 Districts of Punjab
- Video Conferencing

MAJOR INITIATIVES

PUNJAB SEWA PORTAL (PSP)

(<http://164.100.146.172/cui/>)

In order to ensure better and timely delivery of various government services delivered through different departmental systems under one roof, Govt. of Punjab has set up 2147 Sewa Kendras as single point of contact in different parts of urban as well as rural areas of the state. Punjab Sewa Portal (PSP) has been developed by NIC Punjab as an umbrella platform to enable the delivery of citizen-centric services of all the departments under one roof covered under Right to Service



“

NIC Punjab has been extending excellent support to Government of Punjab in various verticals of e-governance in the State of Punjab. I appreciate the good work done by NIC Punjab at State as well as District level

I would like to have NIC's more proactive participation in development of IT support systems. I look forward for creation of new synergy between NIC and State Government Departments for continued support and effective results.

I wish all the best to NIC in its endeavor.

Dr. NIRMALJIT SINGH KALSI

Addl. Chief Secretary
Home Affairs & Justice
Government of Punjab

”



Seva Portal



Manav Sampada



Labour Portal

(RTS) act by integrating applications providing Citizen Services. At present 271 services of 23 Departments are being delivered through the system. Average citizen footfall is around 50000 per day.

INVESTOR PORTAL
(<https://investpunjab.gov.in>)

Investor Portal or One Stop Clearance System (i.e. OSCS) is a common platform developed for the investor to obtain regulatory clearances as well as fiscal incentives from various departments through Punjab Bureau of Investment Promotion. The web portal is based on responsive design i.e. it provides an optimal viewing experience - easy reading and navigation with a minimum resizing, panning and scrolling - across a wide range of devices (from computer monitor to mobile phones). Till date system has processed 353 projects worth 20,000 crore rupees. Portal has been replicated in Haryana and UT Chandigarh. Replication in Daman and Dadra Nagar Haveli is in the pipeline.

MANAV SAMPADA (Human Resource management System)
(<http://www.ehrms.nic.in>)

NIC Punjab is implementing the Manav Sampada software and so far service book data of around 3.52 lakh employees out of estimated 3.60 lakh employees has been captured in a streamlined and standardized manner. Once the employee database is completely entered, not only it will be used as base for many other governance related software but will also be used for policy decision, manpower administration and rationalization.

NIC Punjab has trained 1700 plus master trainers of different departments / boards/corporations and PSUs besides helping the departments in implementing the software smoothly. District Informatics officers of all the districts are also helping in the implementation of the application

in district and field offices.

LABOUR PORTAL
(<http://pblabour.gov.in>)

Department of Labour, GoP has been delegated the power to maintain the industrial peace and harmony, safeguarding and improving the working conditions of the workers in the industries running in the state by enforcing various laws in the State. For better compliance of these acts and rules, Department of Labour is having vigilant eye over the industry. To have better co-ordination between the department and industry, department has come out with web based solution for ease of administration for 27 services. Integration of Construction Worker's Welfare Board services is also planned.

PPSC-ISR (Integrated Solution for Recruitments for Punjab Public Service Commission)
(<http://ppsc.gov.in>)

Integrated Solution for Recruitments for Punjab Public Service Commission aims at integrating and computerizing the recruitment process undertaken by PPSC Punjab. It is a CMS based application and is generic in nature.

SCHOLARSHIP PORTAL OF PUNJAB

Scholarship portal of Punjab is an attempt to provide speedy scholarship to the Scheduled Caste and Other Backward Class students through online application and disbursement mechanism. The portal has been implemented for automation & effective management of processes related to application receipt, processing, sanction and disbursement of Post Matric scholarships. This portal also provides beneficiaries data in standard format for automatic disbursement through UID/Banks. The portal has been implemented successfully and has become an efficient tool in the hands of the administration to

provide the scholarship to the needy students in stipulated time frame.

PRISON & VISITOR MANAGEMENT SYSTEM
(<http://eprisons.nic.in/npip>)

This project aims to modernize and computerize the functioning of the Prisons which are always under pressure due to ever increasing number of prisoners and visitors who visit the prisoner on regular basis.

RTSIS (Right to Service Information System)

RTSIS is a Web Based System for monitoring timely delivery and pendency of services provided by various Govt. Departments for the services notified under RTS act. It is also integrated with several departments such as Police, Urban development to generate state level MIS for RTS Commission.

EOFFICE IMPLEMENTATION IN NIC PUNJAB
(<http://eoffice.punjab.gov.in>)

In Punjab, eOffice has been implemented in all 22 DC offices, Department of Governance Reforms, MilkFed, EETSA, PMIDC, MGSIPA. Many other Departments like, Punjab State warehousing corporation, PUNSUP, Punjab Mandi Board and transport are in progress. Government of Punjab is planning for complete rollout across the state. NIC Punjab is focusing on closure of manual files through this system.

COOPERATIVE CORE BANKING SYSTEM (CCBS)
(<https://www.ccbs.nic.in>)

NIC's Co-operative Core Banking Solution (CCBS) has been designed and developed keeping in mind the needs and unique requirements of co-operative institutions in India. CCBS software caters to all banking (Advances & Depos-

its) related requirements in terms of maintenance, transactions and reporting. It has been developed as per RBI and NABARD guidelines. CCBS is a simple application which can be used by any State Cooperative Bank, District Cooperative Bank and Primary Agriculture Cooperative Society.

VAHAN (Vehicle Registration System)

Smart Card based registration certificate has been launched successfully in all DTO offices. High Security Number plates have also been introduced.

SARATHI (Driving License Issuance System for Transport Department)

Smart Card based Driving License is being issued in all DTO offices. Learners' License is being issued through Schools and Colleges also.

E-PROCUREMENT(Government eProcurement System - GePNIC)

(<https://eprocbbpwd.gov.in>)

(<http://eprocure.gov.in>)

NIC e-procurement solution (GePNIC) is being implemented in PWD department since 2000 & till date 10114 tenders have been processed and awarded through system worth Rs 22943 Crores. In the last financial year (2016-17) 98 tenders worth 94 crores have been processed. The system is fully automated and entire tendering process from Bid creation to award of contract is automated. The online payment of EMD & Tender fees &



NIC Punjab organized a 5 day training Program for training on e-Procurement (GePNIC) software for all the department of Punjab Govt from 9th October to 13th October 2017.

refund has been enabled in system since 2016. From 1st November 2017 all the departments of Punjab Government shall switch over to NIC system. For this NIC Chennai & Delhi team are working day & night to release the system for all departments before 1st November 2017.

NIC Punjab has organized a training Program for all the department of Punjab Government from 9th October to 13th October 2017 & around 125 officials have been trained to use the system.

ITI PORTAL SYSTEM (CCBS)

(<http://www.punjabitis.gov.in>)

A portal which dynamically generates websites of all ITIs has been developed in the state so as to enable them to update information related to infrastructure,

quality, result etc. in a standardized and uniform manner. The information entered/ updated by each ITI is made available in public domain immediately in real time. Various MIS and query reports give opportunity to the ITIs and Department for better monitoring and decision making.

ECCMS WEB 1.0 (Web based Court Cases Monitoring System)

(<http://ccmspb.gov.in>)

Web Based Court Cases Monitoring System (eCCMSWeb) facilitates departments / officers to manage and monitor court cases of any type pending in different courts. It can provide latest information about any pending case at any point of time. eCCMSWeb helps the departments/ officers to track the cases, prepare cause-list well in advance, and maintain complete history of the case including follow-up action taken apart from other activities. eCCMSWeb can generate a number of MIS reports including query based reports based on given parametric values.

PUNJAB INDUSTRIAL INSPECTION MONITORING SYSTEM (PBIIMS)

NIC Punjab has designed a system in consultation with Department of Industries & Commerce where industry can get all clearances like Boiler I/E Permission, Boiler Registration and Licenses etc. through online system. This system provides facility to monitor boilers deployed in State of Punjab by performing various inspections as per Indian Boilers Act 1923. The system has been designed to provide pre-intimation



Inauguration of eChallan at Jalandhar

regarding boiler inspection to industry so that production does not hamper and inspections can be performed in hassle free environment. After inspection, the industry can download digital license through online system.

DISE (District Information System for Election)

DISE is randomization software for Election Department for formation of various parties / teams, EVM machines etc as per ECI guidelines. DISE-MC and DISE-NP are randomization software developed for State Election Commission for Municipal Corporation and Nagar Panchayat elections respectively.

PPMS (Punjab Poll Day Monitoring System)

PPMS is Web based application software for Department of Elections, Punjab. It is aimed at capturing a set of fixed events for all the Polling Stations of an Assembly Constituencies on Poll Day through SMS by the authorized mobile numbers from respective Polling stations (in this case PROs, APROs, BLOs, RO, ARO-1, ARO-2, SM) in a prescribed format and to update the database for online monitoring reports on CEO's website. The software has the provision for entering data through web-entry also. Web-entry is only allowed to authorize users like ROs/AROs of the assembly segments.

IMMIGRATION CHECK POST COMPUTERIZATION

Immigration, Visa, Foreigners Registration and Tracking (IVFRT) has been implemented in all districts of Punjab and immigration check posts at SGRD Ji Amritsar and Chandigarh International Airport, land check post Wagha Border, Amritsar and rail check post Attari, Amritsar.

GRANTS MONITORING SYSTEM

Developed and implemented by NIC Gurdaspur, it was launched by Hon'ble Rural Development Minister and Education Minister of Punjab in district Gurdaspur segments.

NATIONAL GENERIC DOCUMENT REGISTRATION SYSTEM (NGDRS)

NGDRS developed by NIC Pune has been tested at Adampur and Moga Tehsils. UAT has been received. State wide implementation of NGDRS in Punjab has been approved. NIC is in the process for preparing DPR for state wide

roll out and Pilot launch by 15th November 2017.

OTHER APPLICATIONS

- Mid-Day Meal Monitoring System (MIDMMS)
- National Database of Arm License (NDAL)
- Central Public Procurement Portal (CPPP)
- Public Grievance and Redress Monitoring System (PB-PGRAM)
- e- counseling for admission to professional courses (Engineering, Diploma and ITI)
- Aadhaar Enabled Biometric Attendance System at 137 central and 38 state government offices
- HortNET
- NeGP – Agriculture
- National Animal Disease Reporting System: for 143 disease at 7000 locations across all districts
- Permits
- Mobile Based Fertilizer Management Information System
- Web Portal for Department of Governance Reforms
- Implementation of LAN,IP Telephony and automation of Economic and Statistical Organization of Punjab
- eTaal (Electronic Transaction Aggregation and Analysis Layer)
- NKN implementation at 23 Educational/ Research institutions and 7 universities
- AGMARKNET
- Targeted Public Distribution System (TPDS)
- Payroll and GPF
- CIPA (Common Integrated Police Application)
- Dial.Gov
- SPARROW for IAS, IPS and IFS officers
- Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)
- Indira Awas Yozna
- Integrated Child Development Systems
- National Social Assistance Programme (NSAP)
- Track-Child National Tracking System for Missing and Vulnerable Children
- Blood bank Management System (<http://bbmspunjab.gov.in>)
- Border Area Development Plan (BADP)
- Integrated Scheme Monitoring System (ISMS) for Department of Water Supply and Sanitation (DWSS)
- PEAIS (Panchayat Empowerment and Accountability Incentive Scheme)
- Waqf Management System India (WAMSI)
- National Scholarship Portal (NSP)

- Public Finance Management System (PFMS)
- National Career Service Portal
- Jeevan Pramaan (Digital Life Certificate)
- Web Portal for Department of Local Government
- eHospital
- Blood Bank Management system (<https://bbmspunjab.gov.in>)
- Computerization and Computer Networking of Consumer Forums
- XLNINDIA-Extended Licensing Node

AWARDS AND LAUNCHES IN 2017



- 1 Silver and 2 SKOCH Order of Merit Award 2017 for eOffice Implementation in Punjab
- SKOCH SILVER Award 2017 and SKOCH Order-of-Merit Award 2017 for District Barnala
- SKOCH Order-of-Merit Award 2017 for District Fatehgarh Sahib.
- SKOCH Order-of-Merit Award 2017 for Department of Governance Reforms (DGR), Punjab.
- Launch of Grants Monitoring System developed by NIC Gurdaspur by Hon'ble Rural Development Minister and Education Minister of Punjab.
- Shri Rohit Chaudhary, IPS, ADGP (Law and Order), Punjab Police launched e-Challan system at KVM Sanskriti Public School, Jalandhar on 21-07-2017. With this launch, Punjab Police Jalandhar has become the first Traffic Police unit in the country to start e-challan using handheld devices integrated with the national database of VAHAN and SARATHI.

For further information, please contact:

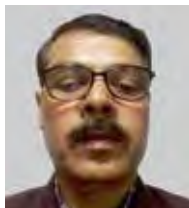
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NAGALAND STATE

'Land of Festivals' Empowers Citizens with ICT Enabled eGovernance Services

NIC has been the pioneering in ICT activities for good governance of the State of Nagaland since 1989. While successfully implementing many citizen centric projects, services and ICT enablements in the State, NIC Nagaland advances ahead with a number of new projects and initiatives. Many of the accomplished projects have received accolades and wider recognition.



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By whatever name people have called this realm, hidden among the mountains of India's northeast, Nagaland has always evoked a sense of mysticism and awe, intensified by the remoteness of its geographical location. The scenic beauty of tall and lush green hills always becons one to immerse oneself into the cool and peaceful ambience of Nagaland, officially named as 'Land of Festivals' which borders Mayanmar in the east, Assam in the west, Arunachal Pradesh in the North and Manipur in the south.

The State comprises 16 tribes, each representing a different culture and preserving unique customs. These colourful people span across the districts with a population density of 120 persons per sq. km. The climate of Nagaland can be called nothing but perfect.

NAGALAND AT A GLANCE

Area	16579 Sq.Km.
Population (2011 Census)	19,80,602
Capital	Kohima
Districts	11
Development Blocks	52
Recognized Villages	1428
Literacy	80.11%
MLAs	60
MP (Lok Sabha)	1
MP (Rajya Sabha)	1

With the signing of MoU between Govt of India and Govt of Nagaland in the year 1987, NIC was established in Nagaland in the year 1989 with Kohima, the State Capital, as the first District-cum-State Centre. Today, NIC is fully established in the State with 11 district centres and the



“

The e-Governance activities in the State are expanding with active support of NIC Nagaland. NIC is also helping the State in providing connectivity of the State's core ICT infrastructure project such as the Nagaland State Data Centre and the State- Wide Network, besides giving high bandwidth through Lease line and Wi-Max connectivity to various Government offices and Educational institutions. NIC's video conferencing facilities are extensively used by the State Government for conducting high-level meetings with various Ministries of Government of India as well as meetings within the State with District officials.

PANKAJ KUMAR, IAS
Chief Secretary
Government of Nagaland

”



Nagaland Chief Minister, Shri T. R. Zeliang inaugurating the Pilot Phase of Treasury Computerization at the Central Treasury, Kohima on 22nd May, 2015

State Centre located in the Civil Secretariat Complex, Govt of Nagaland, Kohima. NIC has undertaken various ICT Projects since 1989 for good governance of the State, some of which have already been implemented successfully while many new recent projects have also been taken up for implementation. It may be mentioned here that NIC has been the pioneer of ICT activities in the state of Nagaland. Major IT Projects initiated and implemented by NIC Nagaland are profiled below.

MMP PROJECTS

TREASURYNET

Nagaland State Chief Minister, Shri T. R. Zeliang inaugurated the Pilot Phase of Treasury Computerization at the Central Treasury, Kohima on May 22, 2015.

This is a web-based online Treasury Software under Mission Mode Project (MMP) implemented in the Treasuries/ Sub-Treasuries of Nagaland. With collaborative effort of NIC Manipur and NIC Nagaland, the TreasuryNET software developed by NIC Pune, has been customized as per the requirements of the state treasuries. The software handles Payment, Receipt as well as Accounts Compilation modules at the Treasuries/ Sub-Treasuries of Nagaland.

The objective of this MMP project is to

achieve online processing of bills and challans in all the Treasuries and maintain the database in a central server at the State Data Centre/ NIC Nagaland Data Centre. Computerization of Treasuries will relieve the pressure on the Treasuries and facilitate faster and efficient processing of bills, challans and meet the objective of accurate monthly accounts compilation within first week of the next month. It will also help the Treasuries in achieving transparency in the processing of bills as well as tracking of records of payments and receipts by the Finance Department, Nagaland.

ONLINE GPF

An Online GPF Information System for Nagaland State Government employees was launched on July 31, 2017 by the Chief Secretary, Shri Pankaj Kumar, IAS, Government of Nagaland at the Office of the Principal Accountant General (A&E), Kohima in the presence of high-level state officials and Smt. Neeta Verma, Director General of NIC, who joined the function through Video Conferencing facility of NIC.

The office of the Principal Accountant General (PAG), Kohima has been maintaining the records of about 43,000 employees using the standalone system. The annual GPF statements are collected by the department nodal officers from PAG's office in the month of July every year and distribute it to their respective employees.

The online GPF system has features to facilitate the government employees to generate Annual Account Statement, Ledger and missing credit anytime from anywhere and send updated information

to the subscriber through SMS. The GPF subscribers can access the online GPF system through <http://agnl.cag.gov.in/onlinegpf.htm> with his/ her GPF account Number, PIN/ password and OTP.

NIC Nagaland, in collaboration with NIC Manipur, has taken up the project for the implementation. The online GPF application is a two-tier security system, which will not expose the main VLCS Server.

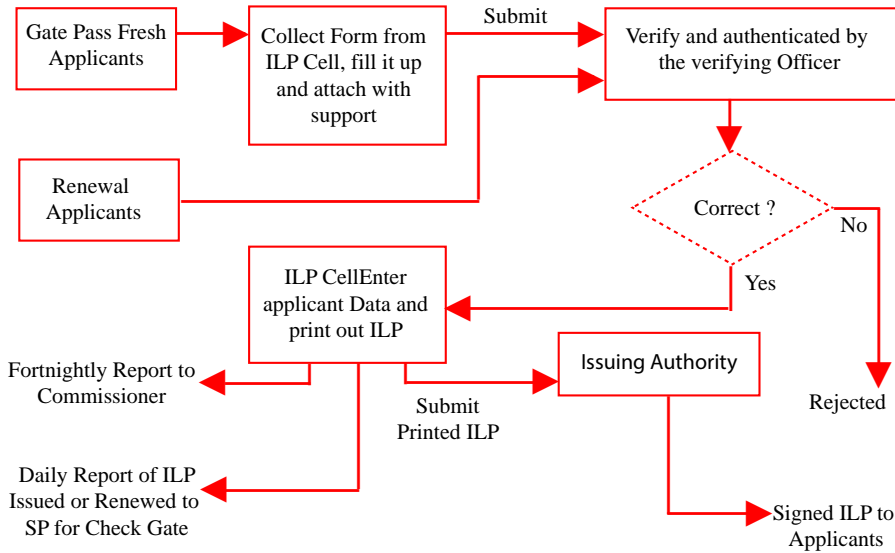
INNER LINE PERMIT (ILP)

Under the Eastern Bengal Regulation Act of 1873 and Government of Nagaland Notification NO.REV/T-9/91, any person who is not a local inhabitant and desires to cross the Inner Line into Nagaland is required to have Inner Line Permit (ILP). For the purpose of monitoring the issue of ILP and action initiated for detection of defaulters, a Monitoring Cell has been set up in the office of the Commissioner, Nagaland. Each ILP Cell in the district is to submit details of information pertaining to issue of ILPs and action taken against defaulters to this cell on a fortnightly basis.

NIC Nagaland State has developed the ILP Management System and the Nagaland and Nagaland Government has implemented the software in all the districts since July 1, 2002. With implementation of the application, issue of ILP has been regulated and monitoring of Inter-checking of ILP issue from district to district is feasible now. The application has been upgraded to a web based system using ASP.NET and introduced in three districts of Nagaland viz. Kohima, Dimapur and Wokha.



Shri Pankaj Kumar (IAS), Chief Secretary, Govt. of Nagaland receiving Annual GPF Statement from Shri E. Mhonbemo Pattaon, AI&AS Principal Accountant General (A&E), Nagaland



Process flow of Inner Line Permit

LAND PATTA MANAGEMENT SYSTEM (LAPAMS)

LaPaMs (Land Patta Management System) is the web-based online Computerized Land Records Management Application System of the Land Revenue Department, Govt. of Nagaland. The application was indigenously designed and developed by NIC, Nagaland in open source platforms- PHP and PostgreSQL. The application has been hosted in the mini data centre of NIC, Nagaland for centralized implementation for the entire state of Nagaland. The application can presently be accessed from any location where there is NICNET connectivity of NIC. The software will facilitate automatic updating of land records through work-flow based mutation and

partition and provide land owners a document called ‘Patta Book’ generated from the application with efficiency and accuracy.

The project has been initially implemented for the Dimapur district of Nagaland which has the largest volume of land records data of the state. The project was inaugurated by the Chief Secretary, Shri Pankaj Kumar, IAS, in a programme jointly organized by the Land Revenue Department, Govt of Nagaland and the NIC Nagaland State Centre, Kohima in the Chief Secretary’s Conference Hall, Kohima on October 13, 2017 in the presence Shri Subodh Shukla, STD and coordinator NIC Nagaland and many high-level officials of the Govt of Naga-

land. While inaugurating LaPaMs, the Chief Secretary congratulated NIC Nagaland for developing the software.

E-PROCUREMENT/ E-TENDER PROJECT

With a view to enhance transparency, efficiency, shorter procurement cycle etc., the Government of Nagaland has issued a notification to the effect that all Government Departments, Agencies shall call for open tenders, for construction/ supply works through the e-Procurement System. The portal <http://nagalandtenders.gov.in>, is an online system developed to facilitate all Government procurement processes of goods, works and services. Nagaland has opted for the GePNIC solution for eProcurement. An awareness programme for all AHODs and HODs was organized.

WEATHER WATCH INFORMATION SYSTEM (WIS) PROJECT

Based on the requirements of the Soil department, a web-based application for Weather Information System was designed, developed and hosted by the NIC Nagaland State Centre, Kohima. The data is fed by the Soil and Water Conservation Department, Government of Nagaland from 14 Meteorological Stations in different parts of the state. This MIS has been implemented since August 16, 2005.

The WIS application has been upgraded with ASP.NET platform recently. Presently the application is accessible over NICNET only.

These weather data is being used for right selection of crops, plants species best suited to climatic conditions by the



Shri. Pankaj Kumar, IAS, Chief Secretary, Govt. of Nagaland launching the Land Patta Management System



eProcurement Workshop held at the Conference Hall, Nagaland Civil Secretariat

METEOROLOGICAL DATA								
Station : <u>Meteorological Observatory, Kohima</u>								
Altitude : <u>1420 Metres</u>								
Month : <u>August 2005</u>								
Date	Air Pressure	Max Temp	Min Temp	Dew Point	Relative Humidity	Rain Fall	Wind Speed	Wind Dir
	mm	°C	°C	°C	%	mm	k m/h	
16/8/2005	23.2	25	19.2	20.7	93	33.4	3	
17/8/2005	22.8	23.9	19.4	20.6	84	6.6	3	
18/8/2005	23	26	19.9	21.4	85	2	5	
19/8/2005	23	26	19.5	20.3	93	34	3	
20/8/2005	22.3	25	19	20.2	86	16.6	3	
21/8/2005	23	24.6	18.3	21.1	84	7.1	5	

Weather Watch Information System (WIS)

agriculture and allied departments, for designing structures in construction engineering, weather Data bank for monitoring environment changes like rainfall behaviour, global warming, occurrences of natural calamities etc. This site is available at <http://10.181.2.132/> only but accessible within NIC network only.

MORD PROJECTS/ SCHEMES

The Ministry of Rural Development (MoRD) has been implementing schemes such as MGNREGA, PMAYG, PMGSY, SAGY, NSAP, DDWS which are being monitored through online MIS applications from the Ministry level. NIC Nagaland has been providing the necessary

technical support for the implementation, imparting training and handholding support as well as giving network connectivity for various projects across the state through the Rural Development, Social Welfare and PHED departments. The Local Governance Directory (LGD) under the Ministry of Panchayati Raj project - Panchayat Enterprise Suite is being implemented in the state, which is being referred to by various departments.

IVFRT PROJECT

In order to modernize and upgrade the Immigration services, “Immigration, Visa and Foreigners Registration & Tracking (IVFRT)” has been identified and included as one of the MMPs to be undertaken by the Ministry of Home Affairs under the National e-Governance Plan (NeGP). The core objective of this Project is to develop and implement a secure and integrated service delivery framework that facilitates legitimate travellers while strengthening security. FRO-Kohima under IVFRT-MMP was established in the year 2012 at the SP Office, Kohima. Under this MMP, a three-day workshop on various modules



Chief Secretary, Nagaland inaugurating the LG Directory

such as C-FORM, S-FORM and cFRO was carried out from March 12-14, 2014 by resource persons of NIC-IVFRT Division at Kohima and Dimapur districts of Nagaland. During this workshop session, FRO-Dimapur was successfully integrated with the IVFRT system. The remaining 9 districts of Nagaland are currently functioning as Spoke Districts and are attached to FRO-Kohima which is the Hub District. Additionally, in order to create awareness and facilitate the State Government in using the on-line IVFRT modules, a one-day State Level conference was held on August 28, 2014 at Kohima which was organized by the Home Department, Govt of Nagaland in collaboration with National Informatics Centre, Nagaland. FRO-Kohima and Dimapur are currently functioning smoothly, providing various services including, but not limited to, Registration of Foreigners, Registration Extension, Visa Extension, Visa Conversion and issue of New Visa and Exit Permits. In addition, registration of hotels and other places of accommodation under Form-C and registration of Institutions hosting foreign students under Form-S are carried out by the respective FROs. Foreign students are also registered under the Form-S/ FSIS (Foreign Students Information System) module by their respective institutions under IVFRT project.

SPARROW

Smart Performance Appraisal Report Recording Online Window (SPARROW) is an online system for recording the comprehensive performance appraisal dossier of each IAS, IPS, IFS cadre officials of the State Government/ Central Government. The aim of this system is to facilitate the electronic filing of APAR by officers in a way that is not only user friendly but also allows access from anywhere and anytime as per their convenience. Similar convenience will be available to the officers at different stages in the workflow hierarchy of the filling and submission process. The online SPARROW has been of great help for the IAS and IPS Officers in managing their APARs.

NDAL/ALIS (NATIONAL DATABASE OF ARMS LICENSE / ARMS LICENSE ISSUANCE SYSTEM)

NDAL-ALIS is proposed to be a complete integrated arms license issuance

system starting from the receipt of applications for arms licenses, document verification, application acceptance, police verification process, grant process and printing of license. This Project aims to provide the applicant with all the required verification processes for a license to carry weapon within a certain pre-defined jurisdiction.

NDAL was rolled out in Nagaland from September 2014. The last date for entering data was March 31, 2017. Technical support and connectivity to the respective License Issuing Authorities (LIA) has been provided by the NIC District Centres of Nagaland for the success of the project. The new portal NDAL/ ALIS (Arms License Issuance System) was launched on July 22, 2016. ALIS implementation is being carried out in the LIAs/ Arms Branches in all the districts of Nagaland for which a number of training sessions both via Video Conferencing and in classroom mode has been provided by the NIC- Nagaland NDAL/ ALIS Co-ordinator. All technical support viz. e-mail creation, VPN related issues and connectivity issues are being facilitated by NIC Nagaland for implementing NDAL/ALIS successfully in Nagaland.

PDS (PUBLIC DISTRIBUTION SYSTEM)

Under this PDS Program, the State of Nagaland has also joined the mainstream by launching NFSA (National Food Security Act). It is successfully implemented in all the district and the beneficiaries are being provided food grain under this program efficiently and with transparency. A total population of about 11,93,000 have been covered under NFSA so far.

ELECTION (ERONET)

ERONet is a web-based app for Electoral Roll management based on Unified National Photo Electoral Roll database, which integrates the Electoral Roll at the National level. ERONet envisions that no voter be left behind irrespective of his language or physical ability. The system strives to make an applicant's entry in the Electoral Roll unambiguous and error free without much hassle. ERONet brings in seamless processing of forms, easy handling of the records for monitoring and maintaining the Electoral Roll.

Any inclusion, modification, deletion or transposition in the electoral rolls is done by filling and submitting Electoral Roll forms. Forms can be submitted online through the National Voters' Service Portal (NVSP) <http://nvsp.in>, which are then processed in ERONet. Link to the NVSP portal is provided in the website of the Election Commission <http://eci.nic.in> and the website of the Chief Electoral Officer <http://ceonagaland.nic.in>. Offline Forms submitted in physical form to the ERO/ AERO/ BLO of his or her Assembly Constituency/ Polling Station shall be digitized, uploaded and processed in the ERONet.

The ERONet was officially launched in Nagaland on August 30, 2017 at the Deputy Commissioner's Conference hall, Kohima. All officials concerned have been trained at the State and District level for implementation of ERONet in the State.

ONLINE SCHOLARSHIP MANAGEMENT SYSTEM/ NATIONAL SCHOLARSHIP PORTAL (NSP 2.0)

The National Scholarships Portal is a one-stop solution through which various services starting from student's application submission, application receipt, processing, sanction and disbursement of various scholarships to students are enabled. The National Scholarships Portal is a Mission Mode Project under the National e-Governance Plan (NeGP). Various Central and State Scholarship schemes (Post-Matric, MOMA, NSIGSE, NMMSE, Incentives to Girls for Secondary Education, etc.) have been implemented in Nagaland State by various departments such as DTE, DSE, etc.

HAPIS (HORTICULTURE AREA PRODUCTION INFORMATION SYSTEM)

HAPIS is a web-enabled information system which facilitates district wise, block wise and crop wise data entry and information retrieval of area of production, quarterly new area sown and weekly area sown on the lines of APY information system of Directorate of Economics & Statistics (DES). At present, HAPIS is being used in intranet mode and is accessible within the NIC network only.

AGMARKNET

The Portal provides both static and



State Level workshop on SPARROW at State Police Headquarters, Kohima

dynamic information relating to agricultural marketing in India. The static information is about infrastructure-related (Storage, warehousing, Cold Storage, grading and packing facilities), market-related (market fee/ charges, weighing, handling, market functionaries, development programmes, market laws, composition of market Committees, income and expenditure, etc) and promotion-related (Standards, Grades, Labelling, Sanitary and Phyto-Sanitary requirements, Pledge Financing, Marketing Credit and new opportunities available, etc.) information. The dynamic part comprises price-related information comprising maximum, minimum and model prices of varieties, total arrivals and dispatches with destination. The Agriculture Produce Markets enter data in the prescribed format, using the customized application software "AGMARK". The information is either sent through the State Government or directly to DMI Headquarters. The data from the APMCs/ markets are transferred to the portal immediately after being reported from the APMCs. It is being implemented in the State of Nagaland.

TRACKCHILD PROJECT

The Ministry of Women and Child Development has been implementing a Centrally Sponsored Scheme, namely the Integrated Child Protection Scheme (ICPS) since 2009-10. The objectives of the scheme are to contribute to the improvement in the well-being of children in difficult circumstances, as well as to the reduction of vulnerabilities

to situations and actions that lead to abuse, neglect, exploitation, abandonment and separation of children. The Scheme, also envisages creating a mechanism for tracking 'missing' and 'found' children under the ICPS and Juvenile Justice (Care & Protection of Children) Act, 2000 (JJ Act). A national portal TrackChild which not only has data on 'missing' children but also connects to live databases to monitor the progress of the 'found' children who are availing various services in different Child Care Institutions (CCIs) under the ICPS and the JJ Act. The project is being implemented in Nagaland under the Social Welfare Department. NIC Nagaland has been providing training and handholding for all the stakeholders - Child Care Institutes (CCIs), JJBs, Police on usage of the Trackchild portal. In the Nagaland state portlet eleven (11) JJBs, seventy (70) CCIs, fifty six (56) Police stations have been registered and so far eight (8) and ten (10) children have been reported missing and recovered respectively.

NGO'S GRANT PROJECT

This is a common Platform for online registration of NGO's irrespective of any scheme where facility to submit online application forms for Grant-In-Aid proposals under various schemes of the Department of Social Justice and Department of Disabilities under the Ministry of Social Justice & Empowerment. In Nagaland the Social Welfare Department is implementing the project and NIC Nagaland has been providing support technically to all stakeholders - State Govern-

ment and NGOs with regard to the flow of the Proposal in the online system in the site <http://ngogrants.gov.in/bo-login>.

MCTS (MOTHER & CHILD TRACKING SYSTEM)

The MCTS is a management tool to reduce MMR/ IMR/ TFR and track health service delivery at the individual level. It is a generic system that aims to provide information of different health services received at the individual level, by monitoring all the issues that an individual undergoes in his/ her health program. It aims to help the service provider (Health Worker or Doctor) by categorizing various health services the individual person has to be provided with. It also provides for effective monitoring of different health services. Ever since its rollout in the year 2011, the project is being implemented successfully in the State.

E-HOSPITAL

NIC e-Hospital Management System is a workflow-based ICT solution for hospitals, specifically meant for the hospitals in the Government Sector. This is a generic software which covers major functional areas such as patient care, laboratory services, work flow based document information exchange, human resource and medical records management of a hospital. It is a patient-centric system rather than a series of add-ons.

e-Hospital Modules implemented in Nagaland: OPD, Patient Registration, IPD (ADT), Billing Implementation of eHospital phase-1 completed at Civil Hospital, Dimapur on January 19, 2017 and at Naga Hospital Authority, Kohima on March 25, 2017.

MDM-ARMS (MID-DAY MEAL AUTOMATED REPORTING & MANAGEMENT SYSTEM)

The MMDM-ARMS software is used for instant reporting of meals served in various schools of the State/ Country through different communication modes i.e Data collection is done through SMS (through toll free number 15544), Mobile App and through the web. It also facilitates checks on the quality of data, generates and auto generates alerts to ensure that all data is reported daily. The project is being implemented in the state of Nagaland with technical support of NIC, Nagaland.

NATIONAL TRANSPORT PROJECT

Vahan and Sarathi applications has been implemented successfully in all the 8 RTOs/ DTOs of the State. The Registration Certificates and Driving Licenses are being issued in SCOSTA-compliant Smart Cards. All technical support is being provided to the Transport Department for the implementation of the web-based Vahan 4.0 and Sarathi 4.0 applications.

JEEVAN PRAMAAN

Enrollment of all Ex-Servicemen for issue of Digital Life Certificate has been completed successfully by NIC with the co-ordination of the Directorate of Sainik Welfare and Resettlement, Nagaland. Enrollment of State Government pensioners is being taken up with the respective Banks/ CSCs/ registered service providers and NIC District Centres.

E-COURTS

Nagaland has implemented the First Phase of the eCourts project in a decentralized manner. The Second phase is being taken up and connectivity issues are being taken up with the telecom network service providers. Preparations for the roll out of online CIS 2.0 (Case Information System 2.0) is in the pipe line for the District Courts.

COMPUTERIZATION OF MUNICIPALITIES IN THE STATE OF NAGALAND

- The Housing for All (HFA)/ PMAY scheme is being implemented by ULB/ Municipalities. The data entry and geo-tagging has been done and the data uploaded in the HFA portal by SLTC (State Level Technical Cell) & CLTC (City Level Technical Cell) net connection and technical help from NIC.
- The Smart City Project for Kohima is being implemented with the technical support of NIC Nagaland. NIC officers were involved and worked with the team of consultants for preparation of the Kohima Smart City Plan.
- Development of the EoDB portal is being taken up for the Kohima Municipal Council by NIC Nagaland by customizing the NIC ServicePlus framework for providing services such as Trade License, Advertisement Tax and Cesspool.

NETWORK SERVICE- NKN/ NICNET

The NIC State Centre is connected by 10 Gbps LL connectivity from PGCIL and

2.5 Gbps from BSNL as the Primary and Secondary links respectively. These two core links provides redundant and reliable network connectivity. Wi-Fi services are provided in all the important conference halls: Secretariat Conference Hall, CM Conference Hall and CS Conference Hall. LAN is also extended to the main Secretariat building. Secretariat LAN is having structured OFC backbone having 1,200 Nodes. Dedicated 2 Mbps Wi-Max Internet connectivity has been provided to 64 State Government Directorates, Central Government Offices and Government Educational Institutes at Kohima. The NICNET Services provided is mainly used for internet access, eOffice services and online eGov Projects. The State Centre is also providing Executive Video Conferencing System to the office of the Chief Secretary and DGP for effective audio-visual communication.

The NIC Network Operation Centre (NOC) is co-located with NKN. The NOC connects all the eleven districts with 34 Mbps BSNL Leased line. The NOC is the main digital gateway for the state of Nagaland. The NKN link is connected to 9 (nine) Educational and Research Institutes including the Nagaland State IT&C department, core infrastructure projects such as the State Data Centre (SDC) and State Wide Area Network (SWAN) with a very high speed bandwidth of 1Gbps/100 Mbps LL. Twelve last mile leased line connectivity have been provided to State and Central Government Departments at Kohima and Dimapur Districts.

NIC Email Messaging has been extended to various state and central government department. Approximately 1,000 official e-mail IDs have been created in nic.in and gov.in domains.

VIDEO CONFERENCING SERVICES

All 11 NIC District Centers at the Deputy Commissioner's Office Complex and NIC State HQ at the Nagaland Civil Secretariat, Kohima are provided with High Definition Video Conferencing facility. Regular meetings are held over VC including review meetings on various centrally-implemented projects to monitor progress. Multi Conferencing Unit (MCU) is installed at State Centre. The Chief Secretary Office, Nagaland Commissioner's Office, CEO Nagaland and Guwahati High Court, Kohima

Bench are connected with Video Conferencing facility over NICNET.

NIC-VC facilities are extensively used for conducting important meetings between Ministries and State Departments and within the State for reviewing and monitoring of various project and services implementation.

MINI DATA CENTRE

The NIC Nagaland Mini Data Centre is equipped with a SAN system with 5TB storage capacity, an LTO-4 Tape backup system, and 6 Rack Servers (that include 3 servers of user departments), 3 Blade Chassis with 17 Servers (that include 2 blade servers of user departments). The data centre is mainly used for hosting of e-governance applications for the State and staging for temporary hosting of applications for testing and security audit. The PFMS SFTP Server, Inner Line Permit, GST State Accounting System, Online GPF, TreasuryNET, Society Registration, Weather Watch Information System, CMS for Central Institute of Horticulture and Hardware Inventory System are hosted at NIC Mini Data Centre, Kohima.

MEGHRAJ NATIONAL CLOUD SERVICE

The state accounting package of GST developed by NIC Pune has been installed and hosted at the NIC Mini Data Centre, Kohima. This accounting application does the interfacing with the RBI e-Kuber System and GSTN Portal for sharing the challan, payment, settlement and reconciliation with the electronic Payment and Account Offices or e-Treasuries of the state and O/o of the Principal CCA (Accounting Authorities).

For further information, please contact:

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ANDHRA PRADESH- Sun Rise State Striding ahead with Excellence in e-Governance through ICT

Besides developing and implementing eGovernance applications and other customised software, a host of Services are offered by the NIC State Centre, Andhra Pradesh. These include Video Conferencing, Virtual Class rooms and supporting various ICT initiatives through NICS. In addition, Data Centre Services, Network & Internet Services, Email Services and NKN Services are also provided.

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Andhra Pradesh, the combined State until 2014, was the 4th largest in area and the 5th largest in population. As one of the prominent States contributing to the upward economic growth of India, it had a new beginning as a sunrise State with 13 Districts and Amaravati as its new capital after the State got officially bifurcated in 2014. Andhra Pradesh has withstood the new changes, challenges, assimilates new technologies and hence no wonder it is still one of the most preferred destinations for IT and other sectors.

National Informatics Centre in Andhra Pradesh has come a long way, successfully completing vital e-governance projects for Central, State Governments and Public Sector Departments, operationalised in 1986 connecting all the 23 District Hqrs. in the State over NICNET. In the sunrise State of AP, NIC-APSC officially started working in a makeshift premises at Vijayawada during June 2017 with 1600 sq.ft. workspace and 1000 sq.ft. at Velagapudi to provide ICT

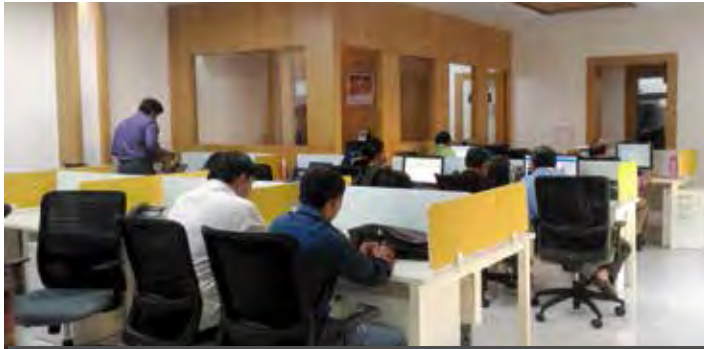
solutions to the State government departments. Within one month of the commencement of the centre, it got a full fledged VC studio at both the places with 1 Gbps NICNET backbone extended from Hyderabad.

Apart from developing and implementing eGov applications and other customised software, a host of Services are offered at the NIC State Centre. These include Video Conferencing, Virtual class rooms and supporting various ICT initiatives through NICS. In addition, Data Centre Services, Network & Internet Services, Email Services, NKN Services are also provided.

VIDEO CONFERENCING AND VIRTUAL CLASS ROOMS

- All 13 Districts of AP are on VC Network through terrestrial links
- Studio-based VC Systems have been commissioned at NIC-APSC, Vijayawada since September 2017. Around 50 VCs have been successfully conducted within the first month of its commencement
- Exclusive Studio-based VC has been commissioned for AP Secretariat and at Chief Secretary's office
- Virtual class rooms and e-learning framework is a part of NKN services





Smart work spaces at the Centre



Conference room with a brilliant ambience

EGOV APPLICATIONS INITIATED & IMPLEMENTED

- Website Design, Development & Hosting including Domain registration, Security audit, Remote publishing for Computer-aided Administration for Registration Department (CARD)
- **Webland**, a web-based land records management information system for Revenue Dept.
- **RuralSoft**, a financial accounting system for Dept. of Rural Development
- **e-Panchayat** for Panchayat Raj Dept.
- **Watersoft**, a web based MIS for Panchayat Raj, RWS
- Online web-based counseling for Engineering, MBA, MCA, LAW CET & Polytechnic courses
- GIS based school information system
- Stock and financial accounting system for Civil Supplies Corporation
- Girl child protection scheme portal for Women and Child Welfare Dept.
- Missing persons portal for Women and Child Welfare Dept.
- Revenue services through **MeeSeva**
- Business Information System for AP High Court
- A system for integrated services to farmers and other stake holders of horticulture, agriculture and allied sectors
- Case Information System (Dist. Courts)

e-GOVERNANCE INITIATIVES

AEPDS (Aadhaar enabled Public Distribution). The supply chain management, the Fair price Shop transactions, were automated with Aadhaar based bio-metric enabled POS device. With this effective G2C and C2G eGov application, the Ration card data has been digitized and

seeded with Aadhaar. Every month, nearly 1.3 crore Aadhaar beneficiaries (ration card holders) are availing the subsidized ration which has resulted in savings of nearly Rs.1,100 crores.

Since May 2015, **AePDS** has been implemented in entire Andhra Pradesh, covering 13 Districts with 29,488 Fair Price Shop outlets. The % of population covered by **AePDS** involves 1,38,90,139 ration cards comprising of 3,95,09,233 beneficiaries. **AePDS** is unique due to the following aspects:

- A beneficiary can withdraw his ration from any part of district, irrespective of his local fair price shop outlet. A beneficiary can withdraw his ration from any outlet within the State also.
- The program can be replicated for any scheme with the availability of Aadhaar platform. It does not require any major infrastructure for implementation.
- A unique innovation in **AePDS** is that the stock received by dealer is authenticated by him using aadhaar and hence he cannot deny the availability of stock.
- The stock available electronically is only allowed to be distributed and hence exact position of stock is known.
- There is a GPS tracking mechanism for the trucks carrying food commodities facilitating online monitoring of their movement in **AePDS**.
- For differently-abled beneficiaries, rations are delivered at their door step by vRealize Orchestrator Configure (VRO) authentication.
- All ePOS devices are connected to electronic weighing machines through Bluetooth.
- At Multiple Listing Service (MLS) all dispatches are electronically weighed and dispatched.

Built on Java technologies, the **AePDS** and the supply chain management applications have become very popular across the country and is now getting implemented in other States such as Haryana, Tripura, Punjab, Maharashtra and Uttar Pradesh, after their successful implementation in Andhra Pradesh.

E-SEED

This Aadhaar Enabled Seed Distribution System, alias, **Dkrishi** ensures smooth distribution of seeds to eligible farmers. It accepts farmer's Aadhaar number at distribution point and on verification fetches land data from **webland** database. Based on the total extent held by the farmer, quantity of the seed that can be issued is decided by the system. The farmer can avail the seeds in person or can authorize his/ her family member to take the seeds. In case of family member, the system fetches the data of ration card for the Aadhaar and does biometric authentication. It is a G2C and C2G eGov application.

On successful Aadhaar authentication of the receiver using NIC-ASA service, the system allows to issue coupon with pre-printed number (with QR code) allotted for each counter in each mandal. The coupon is submitted at the godown point to make the delivery. At the godown, the QR image on the coupon is scanned to populate the number and on clicking the issue option, the delivery details are uploaded to the server and stock balance is automatically updated. Stock entry details are captured from movement of stock at main godown to individual godowns and maintained agency-wise. This facilitates the administration to track the stock and plan adjustment among mandals in case of shortage.

e-Seed was implemented for Groundnut

in Anantapur district last year and as of now, it has been implemented in all the 13 districts with the distribution of a variety of seeds. 3,33,292 farmers benefitted during last Rabi, while 13,38,400 farmers benefitted during Kharif season. The current Rabi season already has 1,92,173 beneficiaries, as of now.

SOCIAL IMPACT & ASSESSMENT SURVEY

Developed a mobile application to capture the details of project affected families for construction of Nuclear Power Plant at Kovvada Village in Ranasthalam Mandal of Srikakulam District.

UNIFIED BIRTH & DEATH REGISTRATIONS FOR ULBS AND RLBS

Developed and successfully implemented a web based Unified Birth and Death (UBD) registration with QR code. Following is the status as on date:

- Total birth events digitally signed: **1,17,11,495/ 1,32,92,471 records (88%)**
- Total death events digitally signed: **25,73,327/ 30,06,739 records (86%)**
- **60 lakh** certificates distributed through MeeSeva Centres.

WEBLAND- LAND RECORDS SYSTEM

This is a G2C, C2G and G2G application which was successfully implemented in the State to store and manage 2 crore land records belonging to 80 lakh agricultural land owners along with crop particulars. All the records are digitally signed by the respective Tahasildars and land related services are provided across the counter through Citizen Interface Kiosks.

A citizen portal, *MeeBhoomi* is also launched as a C2G portal. Today, the citizen can print his Pattadar passbook online from the portal. To facilitate bankers to access land records before disbursing the loans to farmers, *Loan Charge Module*, a G2G portal has been implemented. Built on .NET technologies, Aadhaar authentication for verification, QR Code and digital signing of the records have been incorporated successfully.

DEBT WAIVER

An online system for the successful implementation of this flagship welfare scheme of the Government of Andhra Pradesh. The application had been developed and implemented using .NET technology in a record

time and had won government appreciation.

WATERSOFT

Aimed at bringing accountability and transparency, *Watersoft* is an integrated web based workflow MIS-Suite for digital empowerment of all the stakeholders involved in creating and managing the infrastructure for drinking water distribution in the rural areas. Developed and implemented since 2008 across the State, this system integrates Rural Water Supply & Sanitation (RWSS) offices and its laboratories of the State including the RWSS head office and the Secretary's office. The database is enriched day by day and serves as a treasure chest for the Department. Its salient features are:

- Complete workflow and integration of all RWSS modules
- Mobile interface
- Help Desk
- Dashboard Services
- Role Based, OTP based Authentication
- Transaction based Audit
- Online transfer of funds
- Automated habitation coverage status
- Financial & physical drill down reporting
- Centralized system for online entry of transactions/ data.
- Integration of all the offices of RWSS
- Accountability and transparency
- System generated alerts for concerned officials on logon on critical tasks
- Facility to generate various kinds of Results Framework Document (RFD), free format and drill down reports. Built on Java technologies, this eGov application is also being implemented in the states of Telangana and Madhya Pradesh.

BIO-METRIC ATTENDANCE MANAGEMENT

Aadhaar enabled Bio-metric Time and Attendance Management system is being implemented at all the major State Govt Offices in A.P. AEBAS implemented since 2014 and Vidyawaan since 2016. AP stands first in country by on-boarding 3655 Institutes, 11 Organisations, 51000 employees and 9 lakh students as on date and are linked to CM Dashboard in real time for analytics reports.

E-OFFICE

In the entire state of Andhra Pradesh, e-Office is being implemented successfully. 33 Secretariat departments, 144 HOD

Departments and 13 Districts and up to Gram Panchayat level. 83,500 employees are registered, 14,52,083 files were created and 64,65,569 files movement had been monitored so far.

E - GOVERNANCE AWARDS

Of the many eGovernance Awards won by NIC AP State Centre, the recent ones are:

- Aadhaar enabled Public Distribution System- SKOCH award, Vodafone India and NASSCOM award, Manthan Award and CSI Nihilent e-Governance Award, National e-Governance Gold Award and World Summit Awards in 2016
- ePDS- Gem of Digital' India Award in 2017
- Integrated Workflow RWSS MIS Suite - SKOCH Order of Merit Award (2011, 2015)
- WEBLAND- Best e-Governance Award in e-India 2012, Gold Award under Business Process reengineering - National e-Governance Event, 2017

LAND HUB - A NEW BEGINNING

As a part of ePragati (flagship Program of the Govt. of Andhra Pradesh), a common data warehouse, Land hub is being built for land sector. Various land related data of Government lands, rural and urban lands, forest lands etc. shall get integrated along with the data from the Depts. of Revenue, Registration, SS & LR, MAUD, Panchayat and Forest. Similar to Aadhaar for the Citizen, the land parcel will be identified by a *Bhudhaar number* to provide integrated services and Landhub is going to be the single source of truth for all land related matters in the State, ultimately. This is under development with hybrid technologies of both .NET and Java, since there are heterogeneous applications under Land Hub integration. It is being piloted shortly, before rolling out across the state.

WAY FORWARD

During the recent visit of DG, NIC to the State, Hon'ble Chief Minister of Andhra Pradesh has assured new and bigger office premises to accommodate the entire State Centre and to expand NIC's activities in the coming days.

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SANGAREDDY DISTRICT

Setting a benchmark in providing excellent ICT Enabled Services

NIC, Sangareddy is facilitating District Administration with its State-of-the-Art ICT services to leverage the e-Governance scenario in the District. The NIC District Centre has played a significant role in the development and implementation of most of the successful ICT projects in Sangareddy.



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Edited by
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Sangareddy District bifurcated from erstwhile Medak District on 11th October 2016. Sangareddy, formerly known as Sangareddy Peta is the District headquarters of Sangareddy, which is located in the northern region of the Telangana State.

Sangareddy was named after the ruler Sanga, who was the son of Rani Shankaramba, ruler of Medak during the period of Nizams. The District is located at a distance of 55 Kms. from Hyderabad, the capital of Telangana State. Spread across an area of 4,464.87 sq. Kms. and having a population of 15,27,628 as per 2011 Census, Sangareddy has three Revenue Divisions (Sangareddy, Zaheerabad and Narayankhed), 26 Mandals, 475 Gram Panchayats and 600 Revenue Villages. BHEL (Bharat Heavy Electricals Limited), BDL (Bharat Dynamics Limited, where one of India's most powerful missile PRITHVI was produced) and the Ordnance Factory, Sangareddy (which manufactures the Sarath tanks for the Indian Army) are the three large-scale public sector industries situated in the District. The prestigious educational institution, IIT Hyderabad is situated at a distance of 5 Kms. from Sangareddy Town located at Kandi Village.

e-LAABH TO BENEFIT FARMERS

eLaabh is a web based Benefit Management System designed for the welfare of dairy farmers and fishermen for sanction and release of subsidy under various schemes offered by Government of Telangana, which is in a highly objective and transparent manner. Under this scheme, the financial benefit would be directly transferred to the beneficiary, similar to the gas subsidy. The scheme was launched in November 2016.



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NIC District Unit Sangareddy, established in 1988 has been facilitating District Administration with its State-of-the-Art ICT services to leverage the e-Governance scenario in the District. Considering the work & support provided to the District Administration, NIC District Unit was allotted 5000 Sq.ft. space & Rs.10.5 Lakhs worth furniture in Integrated Collectorate Complex (ICC), where 42 other offices are located. NIC office was designed as a model office for all the other offices in ICC.

The District Centre has played a significant role in most of the successful projects.

MANICKARAJ KANNAN, IAS
District Collector, Sangareddy

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e-OFFICE

NIC Medak has become the first District to implement eOffice in the State of Telangana. This has been achieved by implementing in Collectorate for all sections. This was carried out by creating EMD, Mapping Section and Post/ Hierarchy. Prior to the launch of eOffice, NIC Sangareddy has imparted a series of trainings to all the employees, upgraded the systems as well as LAN bandwidth.



Launch ceremony of eLaabh. Shri Suresh Chanda, IAS, Principal Secretary, Govt. of Telangana, along with (L) Dr. A. Rama Mohan Rao, SIO, NIC, Telangana and (R) Shri Venkateswarlu, Director, Department of Animal Husbandry, Dairying and Fisheries. Govt. of Telangana



District Collector, Officers and Staff Taking Pledge during Digital India Week

LAND RECORD UPDATION PROGRAMME

This programme is a prestigious project initiative of Government of Telangana to update the land records in the State. Launched on September 15, 2017 in all Districts of the State, the project aims at having accurate land records which reflect the ground reality, transparent and accountable enabling farmers to freely access land records.

NIC has developed a web based application software and also an Android App for the updating of LRUP (Land Records Updation and Purification). NIC Sangareddy has been providing active support by conducting trainings to Tahsildars and their staff besides resolving the issues on a daily basis.

DIGITAL INDIA INITIATIVES

Conducted meeting with all the district officers and deliberated the DIW (Digital India Week) activities and implementation. District administration issued instructions to all the stakeholders and trainings were conducted on usage of Jeevan Pramaan, DigiLocker and AEBAS. Under DIW, trainings were conducted to all the officers and staff working at District & Mandal along with MeeSeva kiosk operators.

e-SERVICES- SANGAREDDY

As a part of Ease-of-Doing- Business, the District Collector has devised the e-services portal (<http://eservices.sangareddy.telangana.gov.in>) which has the following sections:

- e-Services (Step-by-step guidance to Land buyers for availing 9 services

(original Sethwar, Khasra Pahani, RoR-1B etc.,)

- Grievance Monitoring System for redressal of citizen grievances
- e-Staff (Leave Monitoring System for district officers and staff)
- e-Health (Health Monitoring of pregnant woman)
- File tracking System (for officers and citizens)

DISTRICT WEBSITE

The official website of Sangareddy District (<http://sangareddy.telangana.gov.in>) is developed for providing information such as profile of the District, key contacts of administration and public representatives, circulars, recruitment

notifications, news & events etc. The website is updated regularly.

OTHER KEY INITIATIVES

FOOD SECURITY CARDS-EPDS

The Monthly allotment of essential commodities to all Fair Price Shops, Key registers generation, Updation of Digital key details, Signing the data, Meetings on ePDS FSC entry and Updation. Aadhaar Seeding of Ration card data, Dynamic key Register reports, Mee Seva Requests processing for Ration Card alteration requests.

SUPPLY CHAIN MANAGEMENT -EPDS SCM

WebStat, Masters Preparation of MLS



Official Website of Sangareddy district - <http://sangareddy.telangana.gov.in>



Launching of e-Office on 4th April 2016 by Shri D. Ronald Rose, IAS, District Collector Medak

Points, Godowns, Buffer storage and OB entry. Trained MLS point incharges, Dy. Tahsildars and Operators on stock lifting particulars, truck chit generation etc. and generation of reports.

SAMAGRA KUTUMBA SURVEY(SKS)

SKS is a prestigious and intensive household survey of Government of Telangana. Generated Enumerator Orders for conducting intensive household survey duty on August 19, 2014. Using NIC Gateway, SMS were sent on survey duty details to all enumerators. Supported on Voice Blast SMS. Coordinated with engineering colleges/ institutions to facilitate the data entry of SKS survey data and in generating reports.

RURBAN

Technical support in conducting training



Website of Sangareddy District Collectorate

and identifying the areas for setting up MeeSeva and OSS centres for implementation of RURBAN project. Rural Urban mandal Narayankhed was selected under RURBAN.

BIFURCATION OF DISTRICTS & SCANNING OF RECORDS

Technical support in training all Departmental officers and staff on updating the details of manpower, infrastructure and scanned official records.

SOIL HEALTH CARDS

Technical support provided and coordinated with Agriculture Department for preparation of the Soil Health Cards database and also coordinated with VLEs of MeeSeva centres for providing Soil Health Cards to the farmers at all the MeeSeva Centres in the District.

MISSION KAKATIYA MONITORING MODULE

A monitoring module for Silt extraction from Tanks was designed and implemented in consultation with SE, Irrigation and the District Collector nominated officers.

REVENUE COURT CASE MONITORING SYSTEM

Technical support to the District Administration for Monitoring and Updation as a part of ease of doing business.

POLICE e-MISSION TEAM

Technical Support in setting up LAN in the New Police Stations of the three newly formed districts.

e-PANCHAYAT

Technical support on House Tax demand notices, PRIASOFT and other PRI modules to Gram Panchayats and Zilla Parishad Medak. Coordinated with CEO and DPO.

ELECTIONS-NERP (NATIONAL ELECTORAL ROLL PURIFICATION)

DIO was nominated by District Collector and appointed by Chief Electoral Officer, Telangana State as State Level Master Trainer (SLMT) for the State of Telangana. Conducted training programmes at State level for District Level Master Trainers, Electoral Registration Officers (ERO), Assistant Electoral Registration Officers (AERO), Technical personnel and also at two districts in the State.

e-HOSPITAL

Coordinated and provided support for District Collector, DM & HO, DCHS and with empanelled agency master trainer to complete the 1st phase of implementation of the eHospital at District HQ hospital, 2 Area hospitals and 4 CHCs in the District.

RASHTRIYA BAL SWASTYA KARYAKRAM (RBSK)

Conducted training for DM & HO staff. Provided technical support on RBSK, a web based application for capturing the health status of school children

AADHAAR ENABLED BIOMETRIC ATTENDANCE SYSTEM (AEBAS)

AEBAS implemented in Collectorate, all Tahsil & MPDO Offices and other departments in Medak district. Supported in establishing AEBAS in the Ordinance factory, Medak.

SOCIAL MEDIA

Publishing the District activities through Twitter and Facebook (For the last three years).

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DISTRICT UJJAIN, MADHYA PRADESH

Achieving a New Horizon with Efficient G2C Services

Many key eGovernance initiatives have been implemented successfully in the District to empower citizens and making Ujjain one among the prominent Districts of the State enabled through ICT. NIC District Centre has always been pro-active and pivotal in providing ICT support to District Administration for delivering better Government services



Dr. DHARMENDRA SINGH YADAV
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NIC District centre in Ujjain was set up in the year 1989. Ujjain, popularly believed as the abode of Lord Shree Mahakaleshwar, one of twelve Jyotirlingas, is also known as Temple City for its numerous religious shrines of different eras. The world's largest religious gathering, Mahakumbha, is held in Ujjain on the bank of river Shipra once in every 12 years. The district Ujjain is spread over an area of 4,464.87 Sq. Kms. and has a population of 15,27,628 as per the 2011 Census. For the efficient management of religious tourism and people gathering, decision making has utmost importance. e-Governance, hence has key significance in the administrative aspects of Government functioning. NIC-Ujjain continues to successfully play its significant role in various successful ICT implementations in the District.

KEY ICT INITIATIVES

In the District administration, digital literacy and ICT integration has improved working efficiency and effectiveness to a great extent. The key to this has been ensuring transparency, security, 24x7 availability of services, information dissemination to citizens, maintaining the system responsible and accountable, ensuring citizen participation in development and decision making processes.

NIC-Ujjain has implemented many successful projects and initiatives in the District of which, following are few of them.

SHREE MAHAKALESHWAR TEMPLE MANAGEMENT SYSTEM (SMTMS)

A Temple ERP (Gateway of Temple Services)

(www.mahakaleshwar.nic.in)

Developed in-house by NIC and implemented in temple, this system has been working hassle free since the last three years. The system functions as:

- A gateway of all the services to all its



“

Activate m-Governance for impugning digital tools to achieve proactive governance. Increasing access of information and augmenting the process of information exchange, ICT along with integration of technology has the potential to increase efficiency, productivity, competitiveness and growth in various services delivery mechanism and also in social sectors.

SANKET BHONDAVE, IAS
Collector & District Magistrate
UJJAIN

”

stakeholders.

- Responsive, transparent, responsible to all its service holders, while keeping it secure, at the same time expanding its services areas.

SYSTEM FEATURES

- **Centralised architecture:** TRM (Total Resource Management)
- **Transparency:** Anyone can do and anyone can view
- **Scope of services:** Shifted from local (temple premises) to global
- **m-Governance:** Confirmation of all services delivery through SMS
- **Electronic Fund Transfer Facility:** All payments are made through payment gateway using internet banking/ credit card / debit card and in all the modes



Hon'ble Chief Minister inaugurating Shree Mahakaleshwar Portal from his resident office at Bhopal

processing charges are free.

- **Ease of Operation:** Kiosk based operation i.e. self-service with barcode checking system.
- **Crowd Management:** Awareness to people in advance, resulting in better crowd management
- **24x7** Free live darshan of Deity
- **Security:** Printing of photo and ID's on every receipt and bar-code checking mechanism, followed by SMS. Total campus covered with structure LAN cabling, deployment of 125+ CCTV cameras, NVR/ DVR with remote monitoring through web as well as on mobile.
- **Multilingual** Portal has bilingual facility i.e., Hindi and English
- Effective feedback mechanism
- **Key services** such as e-Darshan, e-Bhasma Aarti, e-Dharmashala, e-News, e-Tender, e-Complaint, e-Pass, e-Clock room, e-Prashad, e-HR, e-Donor list,

e-Inventory and Dynamic Photo gallery Back office system such as file management bank reconciliation is part of the portal

- **Role based Architecture:** Entire system is role based as well as workflow based
- **Technological integration:** It has the features like bi-lingual, SMS gateway, Payment Gateway, Bar-coded receipts and barcode scanning for extracting information, image and photo capture through webcam and token display for queue management
- **Quota System:** It has booking modules of Arti (Bhasm Arti), Dharmshala etc. All bookings are based on quota system.

MOBILE APP FOR SHREE MAHAKALESHWAR TEMPLE

An Android based Mobile App for Shree



Mobile App

Mahakaleshwar Temple was developed which is fully integrated with Temple portal. The App has features such as integrated payment gateway, SMS gateway, GPS to trace location, Unicode compliance, Bar-coded Receipts. Modules of the App include live darshan, online Dharmashala booking, online donation, online Darshan ticket, Arti videos, MyTransaction and Photo gallery.

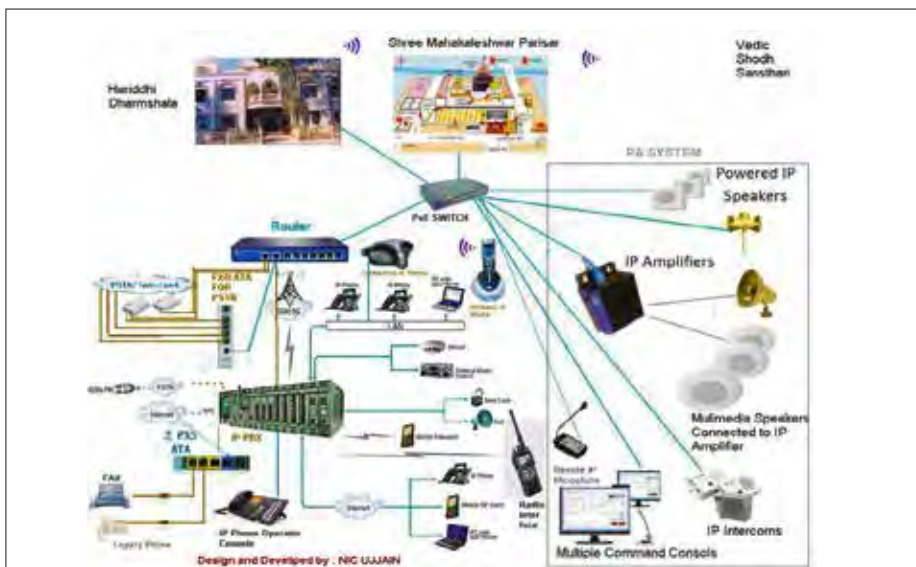
CONTROL ROOM FOR CROWD MANAGEMENT AND CONTROL ENTIRE SYSTEM

A control room was constructed for crowd management and a new product was innovated and implemented with the integration of IPPBX and PA system, enabling zone-wise addressing remotely with the help of IP phone or its mobile client information dissemination system. This is integrated with IP telephony and loudspeakers. The system is a viable solution for crowd management and dissemination of information to specific groups. The system was used efficiently for crowd management in Shree Mahakaleshwar Temple during Simhastha (Kumbha) 2016 and other important festivals. During Simhastha, this system worked 24x7 to manage more than 2 crores visitors. The entire premises of Shree Mahakaleshwar temple is divided into 7 zones.

ICT USAGE IN SIMHASTHA (MAHAKUMBHA) 2016

SIMHASTHA WEBSITE

The website www.simhasthujain.in was developed for dissemination of information on activities, visuals, who-is-who, schedules, alerts etc. of the kumbha. Simhastha training web site (www.simhasthujaintraining.in) was designed and developed for the govt. employees of different departments having Simhasth duty during kumbh for awareness on their deployment.



Pictorial presentation of the IP telephony cum PA System



Shree Mahakaleshwar Temple Management System has been awarded SKOCH Order of Merit India's Best 2013 and Runner-up Award from DST (MAP_IT) Govt. of MP under the Category- Improvement in Citizen Service Delivery



Conferring ceremony of Runner-up Best eDistrict Award from Department of Science and Technology, Madhya Pradesh Agency of Information Technology (MAP_IT) Govt. of MP

Technical support provided for social media such as design and updation of Facebook page of Kumbh, YouTube Channel, Instagram and e-magazine.

SIMHASTHA MELA OFFICE LAN NETWORK

LAN network was set up at Simhastha Mela office and providing NICNET connectivity for smooth and fast operation of all its IT related activities. GIS for Kumbha management, the entire infrastructure, services facilities, zone sector offices, amenities, camps layout etc. were maintained and managed through 51 different GIS layers and most of the essential services linked through GPS for easy monitoring.

SIMHASTHA MOBILE APP

Two mobile Apps were developed for Simhastha Mela. First App is for the visitors in which information on history of Ujjain and Simhastha, travel, stay, gallery, complaints and suggestion etc. were made available. The second App, **SARTHI** is for the employees who were engaged in the duty, especially for the handling of day-to-day complaints and immediate redressal of the complaints.

SIMHASTHA MANPOWER MANAGEMENT

HRMS for kumbh duty allocation and monitoring.

SIMHASTHA CALL CENTRE

For information dissemination, 24x7 Toll Free Call Centre with 25 seats was set up.

VIDEO CONFERENCING

Established temporary video conferencing facilities using NIC Video Desktop in 6 Zones and 22 Sector offices for one to one talk of the senior officials with field staff for receiving minute to minute information.

DIGITAL INDIA CASHLESS PAYMENT CAMPAIGN

Under Pradhan Mantri Gramin Saksharta Mission (PMGDISH) for spreading cashless awareness to citizens upto root level, total approved centres are 188, in which registered students are 20615, training completed 20062 and certified student are 11529.

PROACTIVE GOVERNANCE APPROACH

To minimize governance it is important to

use proactive approach, citizen must get the benefits/services when they become eligible for getting the same. For achieving this following approach has been adapted:

- Target to complete 100 percent aadhaar preparation
- Aware citizen for having Aadhaar number and its seeding/ link with bank accounts, Gas connection etc.
- Linked all the pensioner beneficiary with Aadhaar and mobile no till now 95.54 % of different pension beneficiary's aadhaar has been linked with different portals
- Linked all NFSA beneficiaries with aadhaar, till now 81.46 % NFSA member beneficiary and 95% families has been linked with the NFSA portal
- Use of NIC Quick SMS and C-DAC SMS gateway for IEC activities the activate citizens, educating them for giving all kind of information related and benefited for them

BEST e-DISTRICT OF MP AWARD

Received Runner-up best e-District Award from Department of Science and Technology, Madhya Pradesh Agency of Information Technology (MAP_IT) Govt. of Madhya Pradesh for eGovernance initiatives, design, developed and implement for citizen benefits, easy monitoring of progress, taking effective decision making and work in a transparent manner.

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Cashless Payment Awareness Campaign

CIVIL SECRETARIAT GOES WIRELESS

ARUNACHAL PRADESH Government Sets a New Trend with the Implementation of Wi-Fi at its Hub

With its Wi-Fi implementation, the Arunachal Pradesh Civil Secretariat becomes first of its kind in the Country to go wireless. Covering the entire Secretariat which consists of four blocks, this set-up has been designed for wireless access of a large number of users to the tune of about 6500 concurrent users. The Wi-Fi is also open to visitors (guest users) during office hours in a simplified manner keeping the security aspects safely intact.



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Edited by
RUBAIYAT UL ALI

Gracefully traversing through all odds, the Government of Arunachal Pradesh (GoAR) has taken an outstanding initiative to make all stakeholders, importantly the citizen, business and employees as part of Digital India through the implementation of wireless LAN in its Civil Secretariat. This has been set up in all the four blocks of the Secretariat, with access to the offices of Ministers, Parliamentary Secretaries, Commissioners, Secretaries and other Officials. The process started in the early part of the calendar year 2017 by GoAR, and has been made a reality under the technical guidance, supervision and active involvement of NIC.

With its Wi-Fi implementation, the Arunachal Pradesh Civil Secretariat becomes first of its kind in the Country to go wireless. Covering the entire Secretariat of GoAR, this set-up has been designed to take care of a large number of users to the tune of about 6500 concurrent users and also it is open to visitors (guest users) in a simplified manner keeping the security in place.

The Hon'ble Chief Minister of Arunachal Pradesh, Shri Pema Khandu, during the inauguration of Wi-Fi set-up, has congratulated the officials of State Information Technology and National Informatics Centre (NIC) for achieving the milestone in a record time of two weeks (besides the four months in planning and designing). He expressed confidence that the set-up would overhaul the work culture in Civil Secretariat and would enable seamless and smooth communication between Ministries and Departments to accelerate services delivery. The Chief Minister highlighted it as a positive step towards fulfilling the vision of the Prime



“

This new facility will provide seamless internet connectivity to Secretariat officials anytime anywhere within the Secretariat premises and enable them to access e-Governance applications through Wi-Fi enabled devices.

While officials can get access through their official (NIC) email IDs, visitors have to access through the SWAGAT mode that generates an OTP for logging in. The 157 access points installed across the secretariat premises would allow round the clock Wi-Fi access to officials and eight hours per day to visitors.

Interestingly, the Delhi NIC unit that provides Wi-Fi connectivity in some of the Ministries there has decided to replicate our design and project for offices at Delhi.

PRINCE DHAWAN, IAS
Special Secretary, IA&C
Govt. of Arunachal Pradesh

”



Hon'ble Chief Minister, Shri Pema Khandu launching the Wi-Fi at CM Conference Hall on 19th June 2017

enhanced usage of 10 Gbps bandwidth owned and maintained by NIC.

SECURITY & AUTHENTICATION

In the security front, NIC has implemented Authentication, Authorization, and Accounting (AAA) through Remote Authentication Dial-In User Service (RADIUS). Considering the security aspects, a separate authentication has been implemented for Government users and visitors to access Wi-Fi network. The citizen and business users is provided with a One Time Password (OTP) each time, while the Government officials would be authenticated through their Government email accounts.

ONLINE REGISTRATION

The facility for online registration of Government users is being implemented for direct registration of such users on their devices.

AWARDS & RECOGNITION

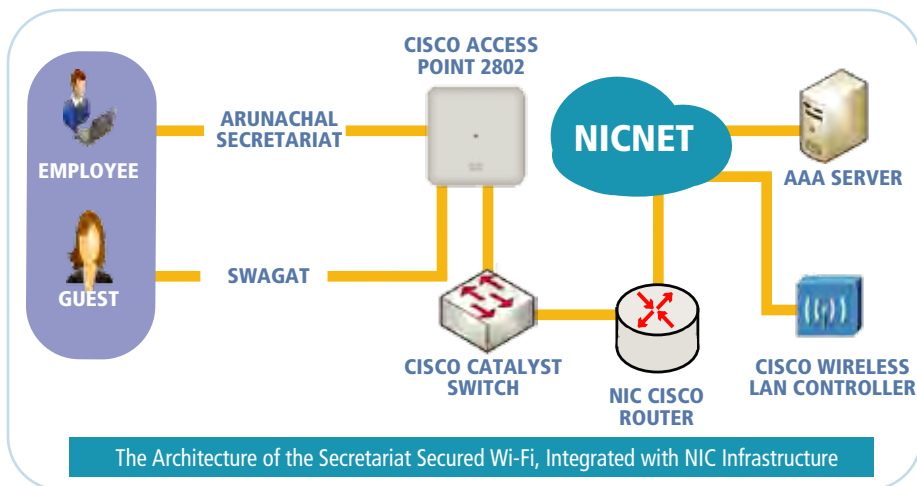
The Civil Secretariat Wi-Fi LAN has received SKOCH Award-of-merit while competing with projects from across the Country. The Special Secretary, I&AC, GoAR, Shri Prince Dhawan informed that the achievement of the team is very encouraging and has brought recognition in the form of such awards at national platform. The State is marching forward with many IT initiatives. The achievement will prove to be a great source of encouragement to move towards Digital Arunachal.

SUMMARY

The Wi-Fi access at the Civil Secretariat, Arunachal Pradesh is open to the visitors (guest users) during office hours in a simplified manner keeping the security intact. The concept design and project implementation plan is reported to be replicated by many of the Central Ministries. The Wi-Fi Connectivity at Civil Secretariat is one of the key projects under Digital Arunachal Mission of the State Government.

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The Architecture of the Secretariat Secured Wi-Fi, Integrated with NIC Infrastructure

Minister, Shri Narendra Modi for a 'Digital India' and is a big contribution from Arunachal Pradesh by becoming the first to have a secretariat with this digitalized facility.

ARCHITECTURE

Architecting a secured Wi-Fi system

using the 5th generation advanced technology of Wi-Fi devices which provides faster and more scalable communication, NIC has enabled the freedom of wireless with the capabilities of Gigabit Ethernet. The architecture includes integration with the Network Operation Centre (NOC) of NIC for



SKOCH 2017 Award-of-merit being conferred to the Civil Secretariat Wi-Fi LAN establishment

AADHAAR AUTHENTICATION PLATFORM

Enabling Digital Governance with Citizen's Identity

The Authentication Services is integrated with 110 plus applications of States & Central Government Departments and Ministry with the monthly transaction of around 12 Crores in the month of November 2017. Indian Army, Public Distribution System, Digital Locker, CBSE, Jeevan Pramaan, Biometric Attendance System are some of the applications which have used the services for establishing the Digital Identity of Citizens to get the benefits.



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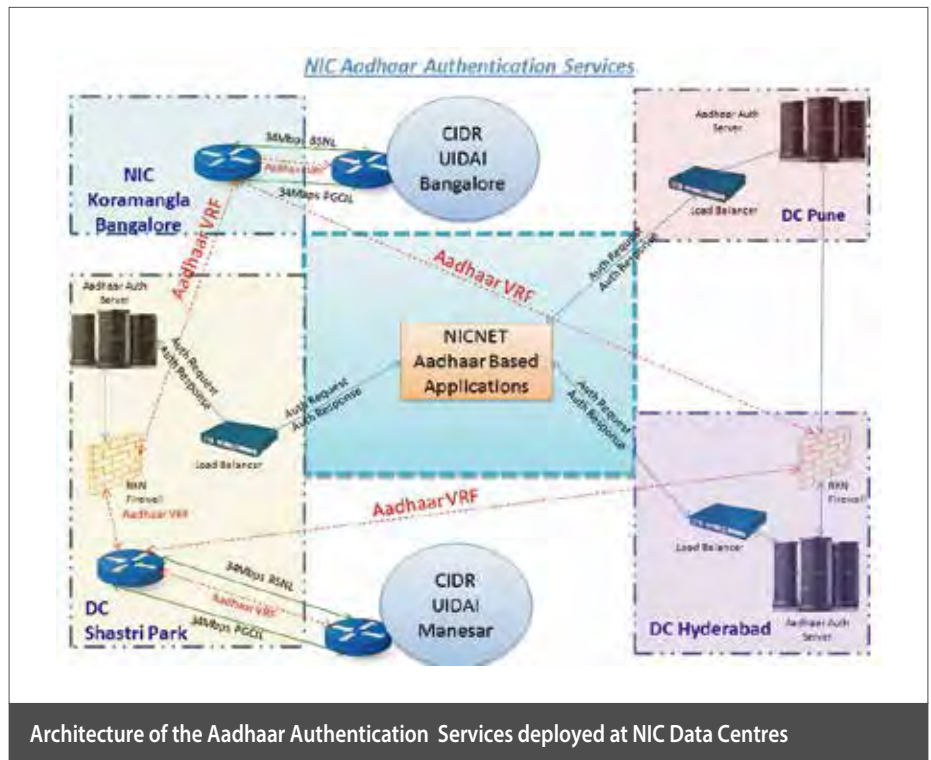
NIC signed an agreement with UIDAI for Authentication User Agency/ Authentication Service Agency. Further a dedicated, structured platform has been designed and developed for e-Governance projects under Digital India initiative. Initially the authentication service was started for Biometric Attendance System (BAS). A cloud based infrastructure was setup at National Data Centre, Shastri Park, New Delhi with dedicated 34 MBPS secure, redundant connectivity between National Data Centre and UIDAI Data Centre for authentication. NIC has further furnished dedicated secure connectivity between National Data Centre and UIDAI Data Centre.

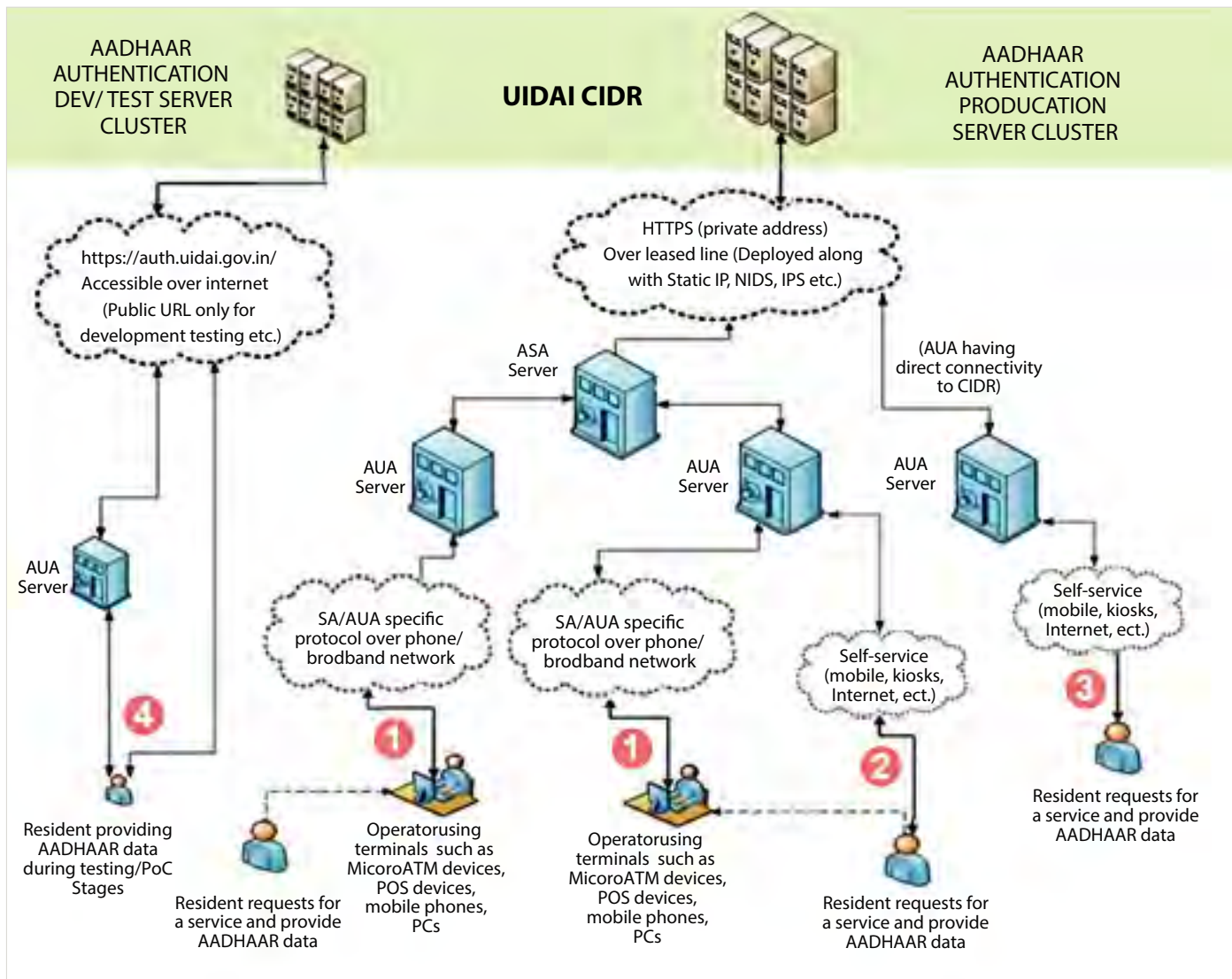
Aadhaar Authentication platform shall mean that the authentication services provided by UIDAI and used by Authentication User Agency where the personal identity information/ data of an Aadhaar-holder (who is a beneficiary, customer, employee or associate of the Authentication User agency) is matched with their personal identity information/ data that is stored in the UIDAI's Central Identity Data Repository (CIDR).

SERVICES

AUTHENTICATION USING BIOMETRIC/ DEMOGRAPHIC

E-Governance applications can use Aadhaar based Demographic Authentication for matching Aadhaar number and the demographic attributes (Name, Gender, Date of birth, etc.) of a resident. This is called demographic authentication e-Governance Applications can use





Aadhaar Authentication flow under various scenarios

Biometric Aadhaar Authentication system to authenticate residents using biometric attributes (Fingerprint, Iris). E-Governance applications can use OTP Aadhaar Authentication system to authenticate residents through One-Time-Password (OTP) which is delivered on resident's mobile number and/ or email address registered with UIDAI.

E-KYC SERVICE USING BIOMETRIC/ OTP

Application can use e-KYC system of UIDAI to fetch demographic information of the residents using biometric/ OTP or both authentication.

Ministries/ Departments/ Organisations are the custodian of residents' data for the services offered by them to the residents.

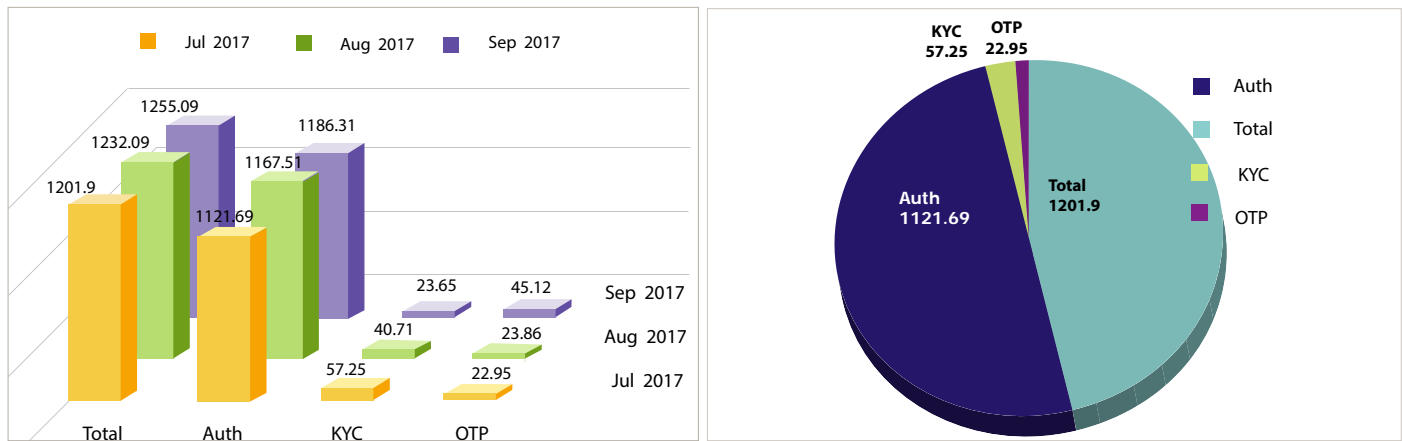
Ministry/ Departments / Organisations who are willing to use AUA platform of NIC for Aadhaar Authentications Services shall act as Sub AUA for their applications.

As a signatory to AUA/ ASA agreement, NIC has obligations for all transactions originating from its AUA/ ASA, audit,

security, logging etc.

UIDAI has made the Authentication services free of charge as on now. It may or may not be chargeable, which depends on the sole discretion of UIDAI. AUA will be solely responsible for the transactions done under AUA/ ASA agreements.

Month	Total Transactions	Transactions (in Lakhs)		
		Auth	KYC	OTP
Jul 2017	1201.90	1121.69 (93.3%)	57.25 (4.8%)	22.95 (1.9%)
Aug 2017	1232.09	1167.51(94.8%)	40.71 (3.3%)	23.86 (1.9%)
Sep 2017	1255.09	1186.31(94.5%)	23.65 (1.9%)	45.12 (3.6%)



ELIGIBILITY FOR GETTING AUTHENTICATION SERVICES

- Central Government and State Government Ministries/ Departments/ Organisations who are getting IT services from NIC may become Sub AUA. For Aadhaar authentication services, SUB AUA's application must be hosted in the NIC's Data Centres
- Under exceptional cases, if the e-Governance applications is hosted outside NICNET and Competent Authority, NIC approves, then the Organisation has to get dedicated leased line installed between NIC and hosted location (Sub AUA) at its own cost subject to the clearance from Network and security Division

of NIC (for connectivity and application)

- Commercial/ Profit making Organisations/ PSUs are not eligible for Sub AUA services from NIC
- The Organisations eligible for Sub AUA have to sign MoU with NIC to act as Sub AUA for e-Gov. Applications
- Officer of the rank of Director and above may sign MoU from user organisations
- Pre-Production & Production service request forms are to be filled along with MoU

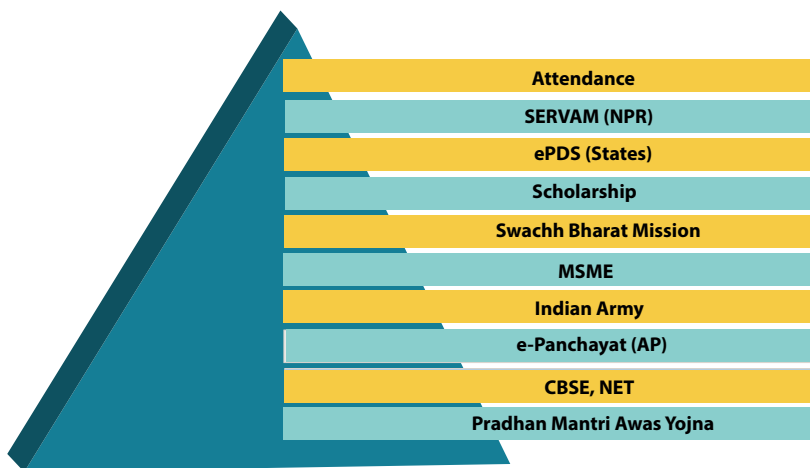
ON-BOARDING PROCESS

Sub AUAs are agencies that use Aadhaar authentication to enable its services

through an existing AUA. Government Departments/ Ministries seeking to use the Aadhaar Authentication Platform have to provide the mandatory information like application description, details of application server location and its IP. This is required for white listing the system for accessing the Aadhaar Service Platform.

Steps for on-boarding:

- Accept the filled Pre-Production form duly filled by the Sub AUA.
- Whitelist the Application Server IP address and allowing access to the Pre-Production server.
- AUA assigns certain project specific unique values (SA & LK) to Sub AUA for incorporating in the xml.
- Provide the Sub AUA the necessary credentials and the URL on which xml is to be posted.
- Sub AUA does the testing on Pre-production environment.
- After successful Authentication of the Application, An MOU is signed between AUA and Sub-AUA users
- Once MoU is signed, the above mentioned steps are repeated for Production Server.



On-boarded Applications those using Aadhaar Authentication Services

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STRENGTHENING MANAGEMENT OF FINANCE IN MEGHALAYA- Adopting ICT for Improving Efficiency and Transparency

With the computerization of online treasuries and other related activities using ICT, there has been a paradigm shift in e-Governance of Finance Department of Meghalaya. Most of services are now centralized and hosted at the dedicated servers, where citizen can access over the internet, hazzlefree.



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NIC Meghalaya started the first computerization of the Finance Department way back in 1993 with the computerization of the State Budget using Xenix OS and 20 nos. of dump terminals connected to a X386 Server. Since then there has been tremendous improvement in providing egov support to Finance Department with the computerization of online treasuries and other related activities as highlighted below and most of these services now are centralized and hosted in the dedicated servers where citizen can access them over the internet. The following are the ICT services rendered to Finance Department, by NIC Meghalaya. All these activities are possible with the activity support of the Principal Secretary of the Finance Department which took many initiatives and decision to support NIC in its endeavor.

INTEGRATED FINANCIAL MANAGEMENT SYSTEM

Meghalaya Integrated Financial Management System (<http://meg-ifms.nic.in>) is an ICT based fiscal and financial management information system that provides financial information to the DDOs/ HODs in general and Finance department in particular to monitor the financial transactions incurred by them and to manage and report their financial activities. With the implementation of the Online Treasury Computerisation (TreasuryNET), the financial transactions (Receipt and Expenditure) from various Treasuries and Sub-treasuries in the state is integrated and published in this portal.

TREASURYNET

TreasuryNET is an **n-tire** architecture web based modular application which runs on Linux OS, with PHP on the client-end and PostgreSQL in the back end for on-line treasury activities. Data from treasuries are uploaded to the



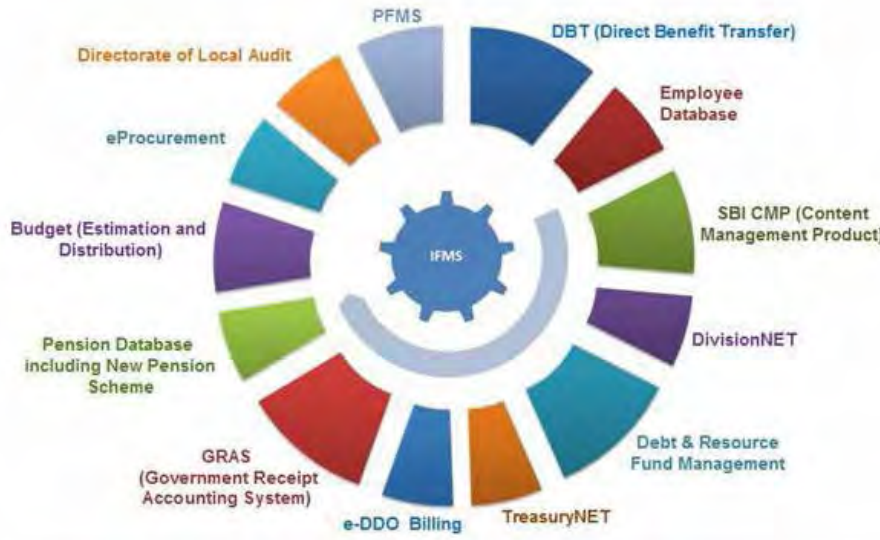
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To strengthen the Financial Management in the State, implementation of various e-Gov initiatives cannot be over emphasized. It is in this context that the Finance Department, Government of Meghalaya has taken keen interest in promoting ICT solutions. Many applications have been implemented in this regard, viz. Treasury NET, Employee Database, Centralized Pension Payment System, Finance Budget, eGRAS, PFMS, Megdbt portal, etc., with the implementation of these applications, transparency and accountability has improved in the State.

I would like to congratulate the NIC Meghalaya team for extending unstinting support to the Department. I wish them very best in their future endeavors and hope that they carry-on the work of uplifting the services of the Government and its people.

R. V. SUCHIANG, IAS
Principal Secretary
Finance Department
Government of Meghalaya

”



Components of IFMS

Central Server to provide a updated information to the DDOs, the Administrative Departments and Finance Department. The application is also integrated with the Cash Management Product (CMP) of SBI which enables Treasury Officers to upload the financial transaction directly to the Bank’s portal. It is also integrated with the Accountant General’s Office and other stake holders involved in the financial transaction of the state government.

MEGHALAYA EMPLOYEE INFORMATION SYSTEM (MEGHEIS)

NIC Meghalaya has taken up the project to computerize the Employee Database for the employees of the State Government of Meghalaya. The State Government took the initiatives and entrusted NIC Meghalaya to design and built a

comprehensive Database for the employee across the state which includes personal information, salary details, information relating to transfer and posting, promotions, family details etc for all Government employees, semi-government employees, ad-dhoc staff etc.

The core elements that comprised the Employee’s database are bio-data of the employee, appointment details, family details and most importantly, the salary details. The prerequisites for the database are the legacy data and pay data as per recorded in the Service Book/Roll which is authenticated by the DDO of the employee. Also the database has the information like new appointment/ transfer, changes in emoluments or entitlements or promotions, increments, suspension, leave etc.

MegheIS is a role-based system and it

follows the Maker-Checker concept for data initialization and data verification. The system has the features that any Government employee can login into the application and checks for his/her latest payslip, GPF statements and other details. A mobile app is also being developed to enable the employees to view the data like payslip, GPF Statement etc.

CENTRALIZED PENSION PAYMENT SYSTEM (CPPS)

NIC has implemented the Centralized Pension Payment System (CPPS) which enables Treasuries and Sub Treasuries to digitize the pensioner profile, capture pensioner image, fingerprints, update appearance, upload fingerprint, generates the pension payment, print payment slip of pensioner and update passbook to/from the Central server from a Nodal Treasury. With the implementation of CPPS, Treasuries/ Sub Treasuries are able to submit the statement to Nodal Treasury to process the pension of pensioner and disburse the pension. Using this system, the monthly pension is directly credited to the bank account of the Pensioners on the 1st working day of the month.

MEGHALAYA NEW PENSION SCHEME (MEGHNPS)

NIC Meghalaya has taken up the project to computerize the New Pension Scheme (NPS) for employees of the State Government of Meghalaya who join the service on or after 1st April 2010. As per the recommendation of the 13th Finance Commission, the State Government took the initiatives and entrusted NIC Meghalaya to design and build a comprehensive Database for the employee across the



Megh-EIS



TreasuryNet



New Defined Pension Scheme interface

state which includes registration of NPS subscribers, contribution, information relating to subscriber’s contribution etc.

NPS database is a record of the legacy data of a government employee using data storage technology (Database) to store or add new record (s) or modifying an existing one which can be retrieved easily and maintained effectively. The core elements required for building up of this database are bio-data of the employee, appointment details, family details and most importantly the salary details, contribution of the subscriber and reconciliation of contributions.

The “New Pension Scheme” (MegNPS) application is seamlessly integrated with the existing “State Employee Database Project” (MegHEIS) for fetching employee’s information such as subscriber’s profile and contributions details. The information retrieved is



Meghalaya ePayment portal

validated by the operator and stored into the NPS Database after the generation of a PPAN number.

GOVERNMENT RECEIPT ACCOUNTING SYSTEM (GRAS)

[\(https://megpayment.gov.in/\)](https://megpayment.gov.in/)

NIC Meghalaya in collaboration with Finance Department (FD), Government of Meghalaya, is implementing an online system to collect the payments (i.e. Revenue Receipt) from the citizens and taxpayers, electronically over the payment gateway of SBI. The e-Payment is an additional mode of payment of Taxes, fees, penalties etc to the government, in addition to the conventional methods offered by the Government.

Three modes of payments are enable in the system:

- Internet Banking
- Payment by Debit/ Credit Card
- Payment across the Bank Counter (*For those citizen who does not have a bank account with internet banking facility*)

All major nationalized banks and private banks are already integrated with GRAS.

Citizens who are frequent tax payers can register themselves in the system and can get a unique User-ID/ Password. Others can make payment to the Government e.g. job aspirants, students etc using the option “Payment without Registration”.

The system operates on a 24x7 mode and citizen can make the payment any time of the day. Using the online filling of single challan form, one has to enter minimum parameters as most of the data are pre-populated in the form of the drop-down list. Once the payment is done, instant online receipt and instant online banks transaction number will be made available to the citizen. One can pay personal taxes as well as other taxes/ fees, fines, penalties etc or any other payment on behalf of the firm, company and others.

DIVISIONNET

NIC Meghalaya has taken up the computerization of the Accounting sections of the Divisions of different Works Departments such as PWD, PHE, Forest etc. The online application has been developed

and has been tested and implemented in number of Divisional Offices in the state. The system is a role based system where data is captured and pushed from level to another level electronically. The system has been designed as per the PWD Accounting Manual for the Divisional Offices under PWD, PHE, Water Resources, Estate Office etc. whereas for the Departments such as Forest & Environment Department, Soil & Water Conservation Department etc, the system is designed based on the Forest Accounting Manual.

E-DDO BILLING SYSTEM

The e-DDO Billing system is an extension of the TreasuryNET counter to the office of the DDOs. Different types of bills of the departments are keyed in by the department themselves along with the bank account details of the payees into which the amount is to be credited. A bill number will be generated and this will be treated as the Treasury bill number. The information on particulars of the payee is necessary for integrating TreasuryNET application with other applications like Public Financial Management System (PFMS) and SBI CMP so that the payments can be made directly to the account of the beneficiary. The application is built using PHP, javascript, jquery and postgresQL as the RDBMS.

INTEGRATED ONLINE BUDGET SYSTEM (IOBS)

The Integrated Online Budget System (iOBS) is a web based system conceptualized and designed for capturing the electronic data and hosting the various activities involving Budget Distribution, Budget Preparation, Budget Allocation, Budget Re-appropriation, Errata and Submission of Excess Funds at the end of the financial year. The System enables the participation of various stake holders such as Administrative Departments and the HoDs in cases where the Administrative Departments have Field Departments. The system has been designed as a role based which follows a well defined work-flow where Administrative/ Field Departments will submit data online to the concerned branch of the Finance Department. The application consolidates all the financial data into a single database for easy analysis. Having a central database ensures that all changes made will get updated to the proper place



and data can be easily backed up and audited for adjustment.

Features

- An **n-tier** Web Based Application designed and developed using Open Source platform/ technologies (Java/ PostGreSQL)
- “Rule based” i.e. rules are defined and incorporated in the system for which validation checks, level of entries, work-flows will be automated based upon pre-define rules
- “Role based” i.e. data and information flows from one level (table) to another level across the network. Accessing and modifying the data will depend on the roles for which the user is assigned
- User IDs and Passwords are provided to the various users at different levels
- No unauthorized user will be allowed to access the system
- Designed on a central database architecture model. Using this architecture, controlling and managing the system will be much easier.

PMFS AND DBT

PFMS is web-based online transaction system for fund management and e-payment to implementing agencies and beneficiaries through Direct Benefit Transfer (DBT). The objective of PFMS is to establish an efficient fund flow system and expenditure network and provides various stakeholders with a reliable and meaningful management information system and an effective decision support system.

The integration between TreasuryNET and PFMS has been completed and mapping of various government schemes had been done. A number of State Implementing Agencies have been registered in

the online System. Various departments such as Education, Community & Rural Development, Social Welfare, Border Areas Development, Health, Soil & Water Conservation, etc have incorporated the DBT in transfer of funds under various schemes operated by them. Students have been registered for the appropriate scholarship schemes they are entitled to. Beneficiaries upto the village level are registered for availing various schemes which open up employment avenues, provide necessary day to day services and ensure social security.

MEGHALAYA DBT PORTAL (MEGDBT)

MegDBT is a web based Portal developed by DBT Mission and customized by NIC Meghalaya to help the state to manage DBT applicable schemes running in State UT and get aggregated dashboard and information.

MegDBT Portal is an open source web based application, which is an aggregated Portal for DBT related scheme and services to monitor their performance, and mechanism to on-board these schemes / services for regular data reporting. The portal features interactive dynamic dashboards and reports required by all stakeholders. MegDBT also disseminates information regarding to DBT implementation in the state viz., DBT Cell Circulars, Guidelines, SOPs for DBT, Office Memorandums, etc.

E-PROCUREMENT PORTAL

(<http://meghalayatenders.gov.in>)

The e-Procurement project has been implemented in Meghalaya through the Mission Mode Project (MMP) under the National eGovernance Plan (NeGP),

being pursued by the Ministry of Commerce and Industry, Department of Commerce, Government of India. The State Apex Committee on Digital India has decided that the threshold value for the adoption of e-Procurement is Rs. 50 Lakhs and above. As on 31st August 2017, 266 Nos of Tenders value at Rs. 2008.42 Crores have been floated in the State e-Procurement Portal and 11 Departments are on board.

FINANCE DEPARTMENT WEBSITE

(<http://megfinance.gov.in/>)

NIC Meghalaya has designed and developed the official website of the Finance Department and it was launched by the Chief Secretary, Govt. of Meghalaya. The website contains information on the different branches of Finance Department along with their functions and duties, e-governance initiatives, forms and Annexures required to be submitted to various authorities under the Finance Department, Acts and Rules, notification and circulars etc. The website also will improve the process of the dissemination of information from Finance Department like Government Orders, Official Memorandums, Circulars etc to various departments.

PROJECTS IN THE PIPELINE

The following are the ICT projects that we are planning to execute and implement for Finance Department in the near future:

- **Scheme Monitoring System**
- **Debt Management System**
- **Computerisation of Local Accounts and Audit**
- **Implementation of Mobile payment gateway through UPI**

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Lsyncd (LIVE SYNCING DAEMON)

Host 2 Host Replication Made Easy

Lsyncd (Live Syncing Daemon) is a light-weight data replication tool which is free, easy to install and convenient to configure. It is an open source technology based, ultimate 'host to host replication/ mirroring' tool with very minimal configuration, cost effective and can assure the RPO in minutes or even seconds.

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Edited by
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Business Continuity Plan (BCP) and Disaster Recovery Plan (DRP) are the essential elements of every ICT application. BCP/ DRP requires a redundant arrangement for the IT hardware infrastructure, software and most importantly for the data getting generated through the application.

The method, tools, storage infrastructure required for maintaining the redundancy of data are to be decided based on numerous factors like frequency at which the data is getting changed, the type and size of the data, availability of facility at the redundant location (floor space, fund, similar infrastructure) availability of skilled manpower etc.

DATA REPLICATION LEVEL

As far as BCP/ DRP with regard to data is concerned, following are the two extremes of maintaining the data backup/ replication:

- The least that can be done is replicating the data using traditional backup tools. This is cost effective and in this method, storage source and destination can be heterogeneous. But the difference between point of disruption and point of recovery of data may be large in hours/ minutes – ie. the Recovery Point Objective (RPO) is higher.
- The best that can be done is maintaining a mirror site at the remote, which requires identical storage and other infrastructure both in production and remote. In this setup, the data is getting replicated at block/ byte level between storages (Storage to Storage replication). This demands more cost, more space, more skilled manpower,

but the RPO will be in seconds/ milliseconds.

Due to the above factors, not every IT project/ department can afford to maintain mirrored sites. Thus, **Lsyncd** is a data replication tool which is cost effective and also can assure the RPO in minutes or even seconds, which is suitable for Host to Host replication. **Lsyncd** is mainly for host to host replication of flat files stored out of the Database system.

HOST TO HOST REPLICATION WITH 'LSYNCD'

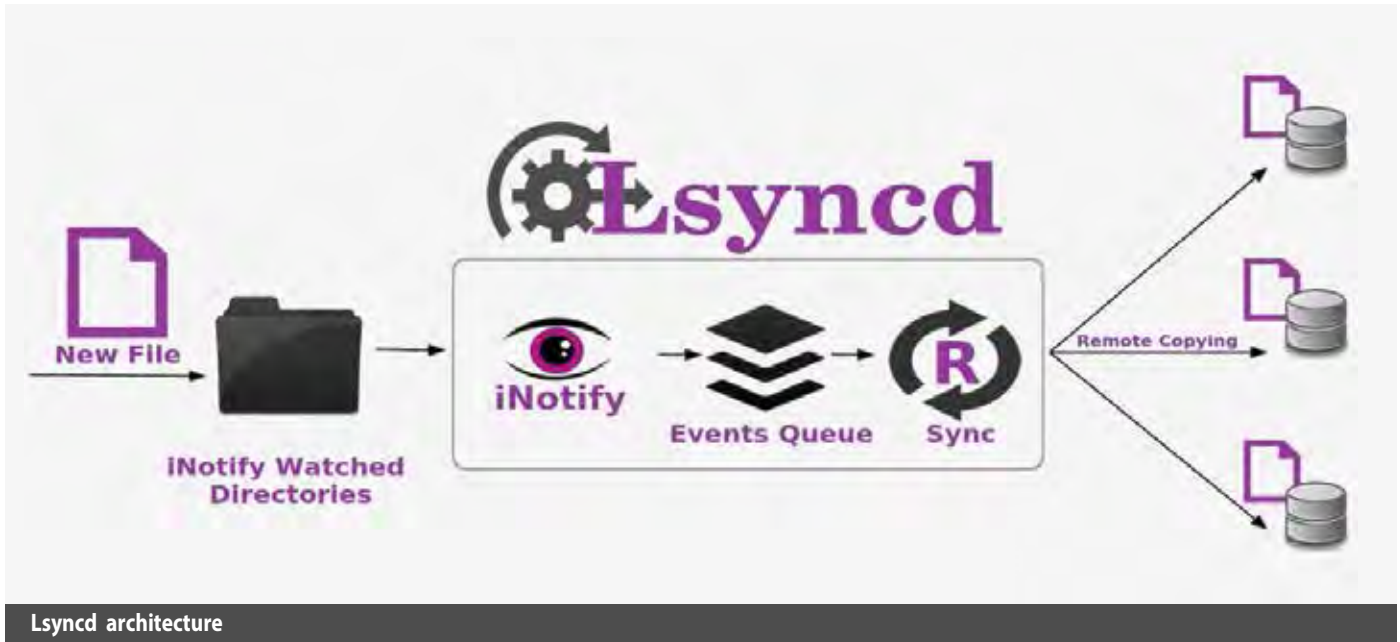
PLAYING FIELD OF LSYNCD

ICT application can generate and store the data in a database or in the OS as flat files. In the first case, the synchronization / replication of primary data can be done by underlying DBMS's replication service. But, in the case of flat files, the synchronization will be taken care of either by the Operating System's inbuilt replications tools or by any other third party tools – here comes a simple and handy solution for host to host replication '**Lsyncd**':

RSYNC VS LSYNCD

Traditional Linux server administrators might be using Rsync, the native tool available in all the Linux OS, as the replication tool for long and raise a question or doubt on using **Lsyncd**.

Since 1996, '**Rsync**' holds the throne of the synchronization realm without any defenders. The merely delta encoding algorithm checks for the difference of file content from source to destination and transmits the difference data/deltas through '**Rsync**' daemon via TCP or '**Rsync**' via SSH. Therefore, using the cron based '**Rsync**' synchronization always drags you into the hell of troubles in replication. The real problem of **Rsync** starts with cron based synchronization of numerous files scattered across various folders. The built-up time of checksum generation and the file attributes compari-



Lsyncd architecture

son for finding which set of partial files that should be transmitted grows exponentially with the number of files & folders increases. For example, if we have more than 2 TB of flat files it may take around 1-2 hours of time only to create the list of modified files and when real transmission starts the data gap from the source to the destination will be already in 2 hours. Day by day, this gap extends and finally the synchronization gap will be in GBs.. In order to minimize this built-up time, we need to introduce some file system event monitoring to fire the Rsync commands whenever any file changes or newly created. Inotify is a file change notification system in Linux Kernel and when we pair it up with the Rsync, we can spawn Rsync only for file creation/ change events. This is where *lsyncd* really shines and runs as a service on the OS level with logging facilities.

LSYNCD

As described above, *Lsyncd* is nothing but a tool written in *lua* language using linux *inotify* and *Rsync* package. i.e., *Lsyncd* = *inotify* + *Rsync*.

The Live Syncing Daemon watches local directory tree events through inotify or fs events interface. It queues up these events in a queue and every x seconds it will execute these events and copy/create the files in another directory either locally or remotely. The tool itself makes use of *Rsync* as well as *ssh* for remote transfers,

this allows you to make sure that no data is lost due to the checksums that *Rsync* looks at, as well as when using *SSH* you ensure that all data is encrypted. The beauty of *Rsync+SSH* is an advanced action configuration that uses a *SSH* to act file and directory moves directly on the target instead of re-transmitting the move destination over the wire.

Fine-grained customization can be achieved through the config file. Custom action configs can even be written from scratch in cascading layers ranging from shell scripts to code written in the *Lua* language for automating any activities over the replicated files. For example, if it is required to archive the uploaded files to another format; it can be automated through custom-action configs. In this way simple, powerful and flexible configurations can be achieved. The *Lsyncd* architecture is as given in the graphic representation above.

CASE STUDY

A sample instance was taken for case study, which contained a total of over 45.34 lakh files uploaded and still growing. With Rsync as replication tool, the Point of recovery was in the range of 24 to 48 hours data gap. With *Lsyncd* as the replication tool, the files were getting replicated to the remote / DR node almost instantaneously as and when they are created in the primary node, resulting the RPO of 3 seconds data gap.

No of Files: 45.34 Lakhs

Rsync RPO: 24 to 48 Hrs data gap

Lsyncd RPO: 3 Sec data gap

CHALLENGES

The major issue of *Lsyncd* arises in the event of primary/ remote host failure or termination of *Lsyncd*.

If the primary host fails, then *Lsyncd* generates the '*iNotify Watch Directories*' again from the scratch as when the primary host is made up. In a case study instance, *Lsyncd* took 4 hours to build the watch list and kick start the replication.

If the remote host fails, then *Lsyncd* keeps on trying to *Rsync* to remote, event queue keeps building up and *Lsyncd* daemon stops after some time. So, this requires the restart of *Lsyncd* service as and when the remote host is made up i.e. again it has to re-generate the '*iNotify Watch Directories*' to ensure that the process builds up the file directory.

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Appscape

Mobile is one of most rapidly evolving technology over last decade and showing its perceivable presence in eGovernance domain. There has been a shift in ways of implementing eGovernance by use of mobile technologies, which resulted in the buzzword - 'mGovernance'. mGovernance is especially important for communication between government to citizen (G2C) and citizen to government (C2G), though it has dominant presence in government to business (G2B), government to employee (G2E) and government to government (G2G) also. Of late, application development paradigm is shifting to 'Mobile First' approach, where applications are designed primarily keeping hand-held devices in mind, and further extending the features and content for bigger screen.

National Informatics Centre has its own Mobile AppStore (<https://egovmobileapps.nic.in/>), as a centralized repository of all mobile applications in eGovernance domain developed by NIC. This AppStore has become a rich repository of mobile applications with applications from platforms like Windows, BlackBerry and iOS along with Android. Application owners across ministries/departments and states can showcase their mobile application which can further be reviewed and rated by an authenticated visitor on the portal. Portal provides feature of searching the application based on keyword and applications can be filtered based on sector and mobile platform that application belong to. The eGov Mobile AppStore provides different statistics for uploaded applications like state/division wise distribution of application, sector wise distribution of application and visitor statistics. Nearly 250 applications across 30 Sectors have

been uploaded on eGov Mobile AppStore and the number is continuously increasing as more eGovernance applications are being developed. To contribute a Mobile Apps, users may login to this portal using their LDAP credentials, after which they are can submit application catalogue form.

This issue of AppScape covers a bunch of Mobile Apps from a variety of sectors extending from Judiciary to Finance and Rural to Transport. The eCourts Services App caters to the stake holders in tracking the status of court case in Taluk and District courts of the Country. The mParivahan and SpeedSpot Kannur Apps from the transport sector empowers citizen with instant access to various services related to the sector and help reporting the over speeding by public transport vehicles respectively. While the Gram Samvaad App provides rural citizens a single window access to information at Gram Panchayat level, the AwaasApp captures photographs of houses being constructed under Pradhan Mantri Awaas Yojana (Rural) for monitoring the progress, and the JanManrega app allows locating and sending feedback on geo-tagged MGNREGA assets in rural area. The Kerala GST App enables citizens to check GST registration status of dealers in the state; while the Manav Sampada App is a mobile interface to the eService book of employees.

- C J ANTONY, NIC HQ



Visit the Mobile App Store
<http://egovmobileapps.nic.in>
showcasing NIC's capabilities as a provider
of mobile-based solutions

For Apps uploading queries:
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eCourts Services

eCourts Services App is useful to Citizen, Litigants, Lawyers, Police, Government Agencies and other Institutional Litigants to view and track the status of Case from District and Taluka Courts of the Country. The app is available in both Android and iOS version.

App provides services under various captions; Scan QR Code, Search by CNR, Case Status, Cause List and My Cases. CNR is unique number assigned to each case filed in District and Taluka Courts of the Country. QR Code is also provided to every case and can be printed from services.ecourts.gov.in portal for reference. Simply by entering the CNR or scanning QR code user can get the current status and details of the case.

Case Status can also be searched by various options such as Case Number, Party Name, Filing Number, FIR Number, Advocate Name, Relevant Act of the Case and Case Type.

“Add Case” button can be seen while viewing the case history. Once a case is added or saved, it is shown in My Cases tab. This helps litigants/lawyers to create and manage Portfolio of their cases or Personal Case Diary for further use. Refresh button updates the status of cases saved under My Cases.

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<https://play.google.com/store/apps/details?id=in.gov.ecourts.eCourts Services>

AwaasApp

To support Government's commitment of 'Housing for All', Pradhan Mantri Awaas Yojana- Gramin (PMAY-G) was launched with an objective of providing 2.95 crores pucca house by 2022. Program implementation and monitoring is being carried out through an end-to-end e-Governance model using AwaasSoft and AwaasApp.

While AwaasSoft is a workflow enabled, web-based electronic service delivery platform through which all critical functions of PMAYG, right from identification of beneficiary to providing construction linked assistance (through PFMS) are carried out. Mobile application "AwaasApp" captures geo-referenced and time-stamped photographs of the houses during their construction has been developed. The application is designed to facilitate inspections and uploading of photographs. AwaasApp is also given the functionality to cover the entire data entry and MIS requirements. Photos of old house and construction site of a new PMAYG house are taken mandatorily using the mobile application before the sanctioning of house, and subsequent inspections at various levels are linked to release of instalments. AwaasApp is currently available on Android platform and has both online and offline version to facilitate inspection in connected as well as remote areas. AwaasApp has 2.1 Lakhs active and 4.9 Lakhs installed users which marks to be the most downloaded NIC App.

Contact for queries: [*Prashant Kumar Mittal \(pk.mittal@nic.in\)*](mailto:Prashant Kumar Mittal (pk.mittal@nic.in))



<https://play.google.com/store/apps/details?id=rural.housing&hl=en>

Gram Samvaad

‘Gram Samvaad’ has been launched as a citizen centric mobile App to serve and empower the rural citizens of India. The App facilitates single window access of information by citizens at Gram Panchayat level on various Rural Development programs, covering inter-alia programme objectives, scope and performance. Gram Samvaad is a window providing details of seven rural development programs (NREGS, NSAP, PMAY-G, PMGSY, DDUGKY, DAY- NRLM and NruM) at Gram Panchayat level. Beyond public information dissemination, this App enables transparency and accountability at all levels and further helps the administrators and elected representatives to have a quick view of the program’s progress, which would facilitate the decision making quick and effective.

The Gram Samvaad App can make use of mobile phone’s GPS to fetch the current coordinates and provides information of that location. The data once viewed would be stored thus providing the ability to work in offline mode, in case of no internet connectivity. The information provided in this App are in multilingual form, regional languages are being included in a phased manner. The App is receiving a remarkable response and marks to have 4510 active and 8086 installed users with a proficient feedback.

Contact for queries: [Prashant Kumar Mittal \(pk.mittal@nic.in\)](mailto:Prashant.Kumar.Mittal@pk.mittal@nic.in)



<https://play.google.com/store/apps/details?id=com.nic.gramsamvaad>

SpeedSpot Kannur

Public transport vehicles are prone to violate traffic rules while they are not on a watch. Rash driving and over speeding are among the common violations which cause road accidents and tussle among operators.

SpeedSpot Kannur facilitates a passenger to report an over speeding bus. This App helps a traveler to know the speed by which the bus is running and provides facility to report to authorities if the bus violates the speed limits. User can take a snapshot indicating the speed of the bus along with the GPS coordinates and also provides facility to take a photo of the bus ticket. User can tap in some description also while reporting. For violations in Kannur district, report is sent to District Authorities. The District Collector and RTO are given access to the complaints through a portal for taking remedial measures. A density map embedded on Google maps is provided for the authorities, which help them to identify the locations where frequent violation of speed limits happen.

This App, designed and developed by Mobile Application Development Competence Centre, Kannur, Kerala for the District Administration has been successfully launched in Kannur District, Kerala.

Contact for queries: [T.Mohana Dhas \(sio-ker@nic.in, kerkan@nic.in\)](mailto:T.Mohana.Dhas@sio-ker@nic.in)



<https://play.google.com/store/apps/details?id=speedmtr.nic.org.speedometer>

Manav Sampada

The Manav Sampada Mobile App is developed for Android and iOS users and is available for all the State and Central Government organizations where the Manav Sampada software as a product has been implemented. The user has to login into the App using credentials created in the Manav Sampada application and functions are made available as per defined roles. The user gets the option to view their eService book which includes information related to Employee's Personal, Family, Present and Permanent Address, Nomination, Education, Training, Joining, Service History, Leave, Tour details and departmental notifications. The employees can apply leave/ tour through the App, which is made available to the reporting officer for approval. Details of all applied leaves/ tours are also made available to the user. User can also view the leave type-wise, balance of leaves in his account as on date. User can also cancel leave (till it is pending) and also cancel approved leave of their subordinates. The reporting officers can view the leave applied by their subordinates and can approve or reject it. The tour requests are dealt in a similar manner. The App also reflects the GPF/ NPS current balance of the employee. The App is bilingual and is available in English and Hindi.

Contact for queries: [*Ajay Singh Chahal \(sio-hp@nic.in\)*](mailto:Ajay Singh Chahal (sio-hp@nic.in))



<https://play.google.com/store/apps/details?id=nic.hp.manavsampada&hl=en>

Janmanrega

Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) has inherent provisions for proactive disclosure of information to its citizens in reference to implementation of the MGNREGA. Janmanrega is an instrument for information flow to and from ground-level, which will connect citizens with the system. An initiative towards good governance, Janmanrega is an interface to improve quality of public services. The Ministry of Rural Development (MoRD) launched 'Janmanrega', a Citizen-Centric Mobile Application (CCMA) on 19th June 2017.

Developed by NIC Himachal Pradesh, in collaboration with NIC MoRD and National Remote Sensing Centre (NRSC) Hyderabad, Janmanrega enables locating more than 1.78 Crore Geo-tagged MGNREGA Assets along with their attributes. User can send feedback on any Geo-Tagged asset from within 20 meter radius of the asset.

The App content is available in 12 Indian languages enabling the citizen at grass root level to send valuable feedback on MGNREGA assets.

Contact for queries: [*Ajay Singh Chahal \(sio-hp@nic.in\)*](mailto:Ajay Singh Chahal (sio-hp@nic.in))



<https://play.google.com/store/apps/details?id=nic.hp.ccmgnrega&hl=en>

Kerala GST

Goods and Services Tax (GST) is an indirect tax levied on supply of goods and services and it replaces multiple cascading taxes levied by the central and state governments. Any business entity whose turnover exceeds the threshold limit need to register under GST.

A dealer can obtain the GSTN registration as ‘Regular’ or ‘Composition’ type depending upon the turnover in a year. A regular dealer can collect tax from the customer whereas a composition dealer is not supposed to collect any tax from the customer. However, it was observed that few dealers not having a valid GSTN registration and few composition dealers were collecting tax from the citizens.

On the request of the State Goods & Services Tax Department, NIC Kerala has developed Kerala GST mobile application which facilitates citizens to check whether a dealer is having a valid GSTN registration and if so, the type of GSTN registration. Through this App, a citizen can also verify whether the dealer can collect tax from the public.

Contact for queries: [T. Mohana Dhas \(sio-ker@nic.in\)](mailto:T.MohanaDhas@sio-ker@nic.in)



https://play.google.com/store/apps/details?id=nic.kerala.gst.apublic.gst_public&hl=en

mParivahan

mParivahan empowers citizen with instant access to various information, services and utilities related to the Transport sector thereby bringing convenience to citizen and transparency in the system.

This App enables finding of all India RTO vehicle registration numbers through search and provides complete information of vehicle such as owner’s name, registration date, registering authority, make model, fuel type, vehicle age, vehicle class, insurance, validity, fitness validity etc.

One can find details of any parked, accidental or theft vehicle by just entering the registration number. Verification of car registration details, details of vehicle age, ownership details would be beneficial while buying a second hand vehicle. Besides one can also verify Driving License (DL) details and create virtual DL and Registration Certificate (RC) using this App. Some other highlights are: Virtual RC/ DL, Encrypted QR Code, Information Services, DL/ RC search, Road Offence Reporting, Road Accident Reporting, Transport Notification to the citizen, RTO/ Traffic Office locations. Soon complete transport office related services will also be facilitated.

Contact for queries: [Joydeep Shome \(joydeep@nic.in\)](mailto:JoydeepShome@joydeep@nic.in)



<https://play.google.com/store/apps/details?id=com.nic.mparivahan>

Accolades



SME Department, Government of Odisha bags SKOCH Platinum Award 2017 for Mid-Day Meal Application

Award: SKOCH Smart Governance Platinum Award 2017
Categ.: Multiple categories
State: Odisha

The SMS based monitoring system of Mid-Day Meal Programme of School and Mass Education Department, Govt. of Odisha (mdmodishasms.nic.in) has bagged the SKOCH Smart Governance Platinum Award '17 at the 49th SKOCH Summit held at Constitution club of India, New Delhi during 8th and 9th September 2017.

This Application facilitates monitoring of the Mid-Day Meal program through SMS and collects information on Mid-Day Meal consumption on a daily real time basis, IFA tablet consumption on a weekly basis and Cook-cum-Helper Absentees report on a monthly basis. This was developed by NIC Odisha State Centre team (Dr. RN Behera, Sr.TD (Team Leader), Shri AK Pattanayak, TD and Shri BL Gupta, SA under the guidance of Shri PK Pramanik, DDG & SIO, Odisha).



SKOCH Order-of-Merit Award 2017 for e-Vidhan implementation in HP Vidhan Sabha being received by Shri Dharmesh Kumar, Sr.TD (NIC) alongwith Director (IT) to Hon'ble Speaker

Award: SKOCH Silver Award 2017
Categ.: Smart Governance
State: Himachal Pradesh

The successful implementation of e-Vidhan in H.P. Vidhan Sabha has bagged the SKOCH Silver Award 2017 and became India's first ever paperless hi-tech Vidhan Sabha.

The project implementation was a joint effort of Himachal Pradesh Vidhan Sabha, MeitY, NIC and NICSI. Shri Dharmesh Kumar Sharma, Sr. Technical Director (NIC) along with Director (IT) to the Hon'ble Speaker jointly received the award on 9th September, 2017 and SKOCH Order-of-Merit Award 2017 on 8th September, 2017 during the 49th SKOCH Summit at Constitution Club of India, New Delhi.



PUNJAB bags SKOCH Silver Award and four Order of Merit Awards for eOffice Implementation and Portal of Economic and Statistical Organization (ESO)

Award: SKOCH 2017 Awards
Categ: Multiple categories
State: Punjab

NIC Punjab has received the following awards for eOffice implementation and for automation of Economic and Statistical Organization (ESO) Punjab.

- 1 Silver and 3 SKOCH Order of Merit Award 2017 for eOffice Implementation in Punjab
- SKOCH Silver Award 2017 and SKOCH Order-of-Merit Award 2017 for District Barnala
- SKOCH Order-of-Merit Award 2017 for District Fatehgarh Sahib
- SKOCH Order-of-Merit Award 2017 for Department of Governance Reforms (DGR), Punjab
- SKOCH Order-of-Merit Award 2017 for Automation of Economic and Statistical Organization (ESO) Punjab

Shri Neeraj Garg, Scientist-B & DIO Barnala, Shri Kalwarn Singh Sr. System Manager & Project Head DGR Punjab, Shri BS Saini, ASIO & Sr.TD(NIC), Shri Pankaj Jain, Scientist-D(NIC), Shri SK Banga, TD and DIO Fatehgarh Sahib participated the event to receive awards on behalf of respective Departments.

Swaziland Launches E-Government, Enabling Online Payments

The government of Swaziland is now user-friendly following the launch of e-Government which will enable people to make payments using credit and debit cards. Prime Minister, Mr. Barnabas Dlamini said the government transactions would from now be processed from anywhere at any time without having to go to offices.

This followed the introduction of the Point of Sales facility that allow debit and credit card usage when paying for government services.

“The Ministry of Commerce, Industry and Trade is currently working on the soon to be published online provisional company registration which will see locals being able to have their companies registered within 24 hours,” said the Prime Minister.

The country also boasts an e-Health Strategy comprising the Client Management Information System, which was introduced early this year in accordance with the World Health Assembly resolution of 2005.



Source: <http://en.africatime.com/>

Australia's Victoria Government Launches Cyber Security Strategy

The Victorian Government in Australia has launched its Cyber Security Strategy. The 32-point framework is designed to protect Government services and information from cyber threats. Under the 5-year cybersecurity strategy, the State government seeks to protect citizen and data against loss, malicious alteration, and unauthorised use. The plan is also designed to ensure government services, systems and infrastructure are capable of recovery during and after "serious cyber incidents".

The local govt. believes cybersecurity capability across the public sector needs to be improved to become consistent, less fragmented, based on industry practice, and appropriate to the risk profile of each organisation. The strategy also covers the establishment of whole-of-government subscriptions for internet security and information security services.

In September, the Victorian Govt. plans to name a chief information security officer who will cooperate with the Privacy and Data Protection Deputy Commissioner, who currently regulates information privacy and protective data security. They will also work with Emergency Management Victoria to better understand risks and ensure a consistent whole-of-government approach to cybersecurity, as well as with the Victorian Managed Insurance Authority which provides insurance against damage to



state assets or liabilities to third parties arising from cyber incidents.

Under the strategy, Govt. agencies will be required to develop and present a quarterly cybersecurity briefing and status reports to the Victorian Secretaries Board and the State Crisis and Resilience Committee, as well as undertake cybersecurity operational health checks. The State will also establish a workforce plan to attract, develop, and retain specialist cybersecurity skills.

Source: <https://www.telecompaper.com/>

Two Apps of Haryana Medical Services Corporation Limited launched by Minister of Health

Hon'ble Health Minister of Haryana, Shri Anil Vij has launched two Apps (HMSCL Prabandhan and HMSCL Sangrahan) of Haryana Medical Services Corporation on 13th September 2017. The Principal Secretary (Health), Managing Director (HMSCL), Director General of Health Services and other Health officers were present at the occasion. Both the Apps were developed by NIC-Haryana and are made available for download through Play Store.

The Haryana Health Dept. (SHD) provides essential medicines free of cost to the patients visiting the State Health Institutes. The medicine procurement, quality testing, warehousing and distribution are maintained through an Online Drug Inventory Management System. The availability of medicines can be viewed online by all the officials of SHD through this portal.

HMSCL Prabandhan: From Medical Officers of a Primary Health Centre to Hon'ble Health Minister can view the availability of medicines on their mobile phones(Android based). This application will show the current stock availability of



Hon'ble Health Minister being explained of the App features by Shri Rahul Jain, TD(NIC)

medicines at the level of Warehouse and at every facility of the State. The purchase pipeline and quality pipe line will also be visible. The Health officials will be able to view all the information anytime, anywhere.

HMSCL Sangrahan: Created for the help of Warehouse managers, this application facilitates improvement in the working of warehouses, by better planning and efficient utilization of available resources. There can be instances of over stocking and non-availability which will now be visible online to every Health Official.

- DEEPAK SAWANT, HARYANA

Launch of Administration of Incentives to MSMEs (AIM) by Chief Minister of Odisha

Shri Naveen Patnaik, Hon'ble Chief Minister, Odisha has launched the AIM software on 15th September 2017 at Conference hall, Secretariat, Odisha. Shri Prafulla Samal, Hon'ble Minister for MSME, W&CD and SSEPD, Shri Aditya Prasad Padhi, IAS, Chief Secretary, Shri L. N. Gupta, IAS, Addl. Chief Secretary, MSME Department, and Principal Secretaries of other Departments were present on the occasion.

Shri L.N. Gupta, IAS, Addl. Chief Secretary, MSME Department gave a brief description on various features and functionalities of *AIM* software and how it will drive State Government's initiative to promote 3T's (Technology, Transparency and Teamwork) in public service delivery.

The software has been developed by National Informatics Centre, Odisha State Centre, Bhubaneswar. In MSME sector, applications such as Startup Odisha, Acknowledgement of EIN, Issue of PC, Amendment to EIN and PC are also developed and implemented by NIC. Shri C.R. Kanungo, Addl SIO, Shri S.K. Bhol, TD(NIC), Shri M.K. Das, TD(NIC), Shri Sambit Panda,



Hon'ble Chief Minister, Odisha launching AIM

TD(NIC) and Shri B.V. Raman, SA(NIC) were present on the occasion.

MSME Department has made provisions for different incentives under Industrial Policy Resolution (IPR) 2015, MSMED Policy 2016, Odisha Food Processing Policy 2016 for MSMEs. With the launch of AIM, entrepreneurs can apply for incentives and avail the benefits within defined timeframe. AIM will ease the administration of incentives benefiting MSME entrepreneurs, where State Government is committed to provide conducive environment for the growth of MSME entrepreneurs.

- A.K. HOTA, ODISHA

'e-Sanad' Inaugurated by Union Minister of External Affairs in Mumbai, Maharashtra

Hon'ble Union Minister of External Affairs, Smt. Sushma Swaraj inaugurated the *e-Sanad* Software of NIC on 27th August, 2017 at Videsh Bhavan Mumbai, in the august presence of Hon'ble Chief Minister of Maharashtra, Hon'ble Minister of State for External Affairs and Hon'ble Administrator of Daman & Diu, Dadra and Nagar & Haveli. The project coordinators from NIC HQ and NIC Mumbai were present during the occasion. Hon'ble Union Minister and Hon'ble Chief Minister of Maharashtra conveyed best wishes on the occasion. The software will enable Indian Citizens to get their documents verified in time. Presently, the



Launch event of 'e-Sanad' at Videsh Bhavan, Mumbai, Maharashtra

software is integrated with Maharashtra State Board of Secondary & Higher Secondary Education and Confederation of Indian Industry for the documents issued by them.

- MOIZ HUSSAIN, MAHARASHTRA

Launch of 'DARPAN'- DM Dashboard by Chief Minister of Himachal Pradesh

Shri Virbhadra Singh, Hon'ble Chief Minister of Himachal Pradesh launched the *DARPAN* DM Dashboard software on 4th September 2017 at Hamirpur. Shri Anil Sharma, Hon'ble Minister for Rural Development, Shri I.D. Lakhanpal, Chief Parliamentary Secretary, Shri T.G. Negi, Principal Advisor to CM, Shri Onkar Chand Sharma, Principal Secretary (Rural Development), Shri Madan Chauhan, Deputy Commissioner and other dignitaries were present on the occasion.

Shri Vinod Garg, DIO- Hamirpur gave a brief presentation on the various features of *DARPAN* software and how it will be useful to the Deputy Commissioner, Hamirpur for monitoring the progress of various schemes, projects, functions, grievances. He informed that all NIC Himachal Pradesh developed applications has been integrated with *DARPAN* as Key Performance Indicators. Shri Bhupinder, ADIO was also present.

The *DARPAN* software, acronym for Dashboard for Analytical Review of Projects Across Nation, has been developed as a Product by National Informatics Centre to review the progress of Schemes, Plans, Projects, Applications etc. on a single dashboard. It has interfacing with highly configurable services where projects can be integrated using Web Services for scheduled data transmission. The national level projects like MGN-REGA, Swachh Bharat, Urban Development Mission, PMGSY, Mid Day Meal etc. are integrated in it. The software has interfaces for the Hon'ble Chief Minister, Secretary concerned,



Hon'ble Chief Minister Launching DARPAN-DM Dashboard



A view of audience at the inauguration ceremony venue

Divisional Commission and Deputy Commissioner. The Dashboard shows relevant data to the respective Officers who are viewing it through their official Email account based login.

DARPAN can be used as a tool to transform complex government data into compelling visuals. It provides the district administration with a graphical dashboard for real-time, dynamic project monitoring without the need for coding or programming.

- AJAY SINGH CHAHAL, HIMACHAL PRADESH

Web Application for Online Donations to CM Relief Fund Launched by Chief Minister of Himachal Pradesh

The Online Donations to CM Relief Fund Web application (<http://cmhimachal.nic.in>) has been launched by Shri Virbhadra Singh, Hon'ble Chief Minister of Himachal Pradesh on 8th August 2017 at Shimla. Shri Harsh Mahajan, Chairman, HP State Co-operative Bank Ltd., Shri T.G. Negi, Principal Advisor to CM, Shri Subhash Ahluwalia, Principal Private Secretary to CM, Shri Gopal Sharma, MD, HP State Co-operative Bank Ltd., Shri IPS Sethi, Scientist-F (State Coordinator of NIC, HP) through VC from NIC Kangra at Dharamshala. Shri Lalit Kapoor, ASIO and Officers from the Chief Minister's Office, NIC, HP and HP State Co-operative Bank Ltd. were also present on the occasion.

Through this web based Application, citizens can make donation online for the CM Relief Fund, any time, anywhere using net banking, credit or debit cards. The system delivers acknowledgement and receipt of donations.



Hon'ble CM, Shri Virbhadra Singh viewing the App features

During the launch ceremony, Shri Sanjay Thakur, Scientist-D (NIC) gave a brief demo of the software. This web application also helps in efficient online accounting of the funds received and disbursed. Through this web application, data is available to the dealing officials centrally on 24x7 basis.

Developed by National Informatics Centre, Himachal Pradesh, the Application has been hosted at NIC Cloud Server. The web application, in future, will facilitate online tracking of applications for relief from CM Relief Fund. Provision will also be made to raise applications for demand of relief from this relief fund, online through Lok Mitra Kendras (LMKs) in the State.

- AJAY SINGH CHAHAL, HIMACHAL PRADESH

Workshop on Digital Payment held in Bhubaneswar, Odisha

Government of Odisha, in collaboration with the Reserve Bank of India organized a workshop on "Digital Payment in Government" on 17th July 2017 at Madhusudan Das Regional Academy of Financial Management, Bhubaneswar. The day long workshop was attended by officers of Odisha Financial Service from all over the State including the probationers.

Speaking on the occasion, Shri Tuhin Kanta Pandey, IAS, Principal Secretary (Finance), Government of Odisha highlighted the achievements of the State Government in Government Receipts front. He also urged the RBI to consider reducing the merchant discount rate (MDR) or removing it altogether in order to encourage digital payments. Shri Pandey spoke on the connectivity issues faced by remote parts of the State which is acting as a deterrence to spread the digital transactions throughout the State.

In his keynote address, Guest of honour, Shri P.K. Pramanik, DDG & SIO(NIC-Odisha), emphasized the establishment of an end to end integrated architecture between Central Government Departments, State Government, RBI and Commercial Banks. He reiterated NIC's commitment to extend the support for integration of digital payments in providing better citizen



Principal Secretary (Finance), Government of Odisha addressing the audience during workshop

services. Shri Pramanik cited the example of PFMS implemented by NIC which has proved extremely useful to the beneficiaries for receiving various subsidies and payments from the Government.

Shri Ganesh Kumar, Executive Director, RBI spoke as a resource person in the workshop. He lauded Odisha for its achievements in many of RBI's digital payment initiatives and discussed on various mechanisms for digital payments such as Credit/ Debit Cards, Net Banking, Mobile Banking, Aadhaar enabled Payment System, UPI, USSD & Micro ATMs as well as security aspects in making digital transactions. Shri Ganesh appreciated NIC's role in taking forward the digital payments in the Government.

- A. K. HOTA, ODISHA

Chief Minister of Maharashtra launches 'MAHAPAR' Performance Appraisal System

Hon'ble Chief Minister of Maharashtra, Shri Devendra Fardnavis launched MAHAPAR, the Performance Appraisal System (<http://mahapar.maharashtra.gov.in>) at Vidhan Bhawan on 11th July 2017. During the launch, Chief Minister appreciated the work of NIC Maharashtra for the successful implementation of MAHAPAR. Addl. Chief Secretary (Services), Govt of Maharashtra, has acknowledged the excellent support given by NIC, Maharashtra and NIC HQ. He stated that this application software will help State Government in better administration of Annual Performance Appraisal Reporting of officers of State Cadre.



Hon'ble Chief Minister along with other dignitaries during the launch of MAHAPAR Performance Appraisal System

– MOIZ HUSSAIN, MAHARASHTRA

Director General Visits National Informatics Centre, Odisha State Centre, Bhubaneswar

Director General of NIC, Smt. Neeta Verma visited NIC Odisha State Centre, Bhubaneswar on 2nd August 2017, accompanied by Shri Sanjay Singh Gahlout, DDG & Head-Infrastructure, NIC. DG later visited the National Data Centre (NDC) Bhubaneswar which is underway, reviewed the progress with NBCC and NIC Officials.

During a meeting with the Commissioner-cum-Secretary to Govt., E&IT Department, Govt. of Odisha and other senior officers, DG was briefed on various ICT initiatives taken up by the Government of Odisha. The Secretary appreciated efforts of SIO(NIC) for bringing in a new synergy among NICians and the collaborative efforts of NIC and IT Department of the State.

Discussing on National Data Centre, DG informed the completion status of basic Infrastructure set up of Tier-III National Data Centre at Bhubaneswar. She, later had a detailed discussion on strengthening of NIC District units with the support of State Government for smooth execution of various ICT services which include connectivity at District level, integration of e-Office and OSWAS, CM Dashboard/ DM Dashboard and Open Data Initiative.

Smt. Neeta Verma later addressed the employees of NIC, Bhubaneswar in which DIOs and ADIOs joined over video conferencing. Shri P.K Pramanik, DDG & SIO, NIC made a presentation covering various G2C & G2G services provided by



Smt. Neeta Verma, DG(NIC) and Shri Sanjay Gahlout, DDG(NIC) interacting with officials during the visit

NIC Odisha and the new initiatives undertaken. During interaction, DG emphasized the role of NIC in the ongoing Digital India Programme and suggested the need to upgrade knowledge base through regular trainings, attending technology talks, webinars etc.. DG further conveyed that the infrastructure at the State and District level shall be strengthened in a phased manner.

Shri Gahlout, while appreciating the overall progress in the cleanliness, reorganization of seating arrangements, optimum utilization of resources etc. in the State Centre building, also assured necessary support from NIC(HQ) for further improvements.

Shri P.K Pramanik thanked the DG and DDG(Infra) for the visit paid and encouraging the officials.

– A. K. HOTA, ODISHA