

Informatics



- | Web Ratna Awards 2014
- | Jeevan Pramaan Update
- | eVisitor: IT Solution for Visit Management
- | Goa Excise Management System (GEMS)
- | Implementing Business Continuity Plan using Active-Active Hosting Strategy
- | ICT in Districts: Hazaribagh, Amravati, Kangra & Kota

INFORMATICS

Volume 23 No. 4 April 2015

PATRON

Dr. Ajay Kumar, IAS

EDITOR-IN-CHIEF

Neeta Verma

ADVISORY PANEL

**Dr. Shefali S. Dash
Sanjay Gahlout
Dr. B.N. Shetty
G.S. Bansal
M. Vinayak Rao**

EDITORIAL BOARD

**R. Gayatri
Vivek Verma
Rubaiyat Ali
Anshu Rohatgi
Mohan Das Viswam
Prashant Belwariar**

WEB VERSION

**Lokesh Joshi
Ritu Ghai**

PRINT, CIRCULATION & DISPATCH

**Anita Arora
Anita Bhardwaj
Jasvinder Kaur**

EDITORIAL ASSISTANCE

Bhuvan Chopra

GRAPHICS ASSISTANCE

**Anand Kumar
Biswaranjan Pati
Vijay Kumar Maurya**

INFORMATICS

Is Published by National Informatics Centre, Department of Electronics & Information Technology, Ministry of Communications & Information Technology, Government of India
A Block, CGO Complex, Lodhi Road, New Delhi-110003

PRINTED AT

VIBA PRESS PVT. LTD.
C-66/3, Okhla Industrial Area, Phase-II,
New Delhi-110020 (INDIA)

EDITORIAL



Web Ratna Awards recognizes the exemplary and sustainable e-Governance initiatives in the realm of World Wide Web. Instituted

in the year 2009, Web Ratna Awards have come a long way in accelerating the cause of e-Governance at all levels of Government, providing necessary impetus in spreading innovative eGov Apps in the web space, urging others to emulate the best practices in ICT. Web Ratna Awards 2014 were conferred recently by the Hon'ble Minister of Communications & IT- Shri Ravi Shankar Prasad in a ceremony on 25/03/2015.



In our E-Gov Products & Services section, we bring out some of the significant ICT initiatives implemented across the country. e-Nijukti, KhoyaPaya, Goa Excise Management Systems (GEMS), Unified Birth and Death Registration System in Andhra Pradesh, etc. are highlights of this section. A new section-Spotlight features on the Challenges in Govt. Procurement of IT Goods & Services.

In Guest Column, Shri Lalit Das, IPS & Special Secretary, Home Department, Government of Odisha talks about Implementation of IVFRT MMP in Odisha, while in Spotlight, Shri Rajesh Bahadur, MD, NICSI has provided an account on the challenges in Government Procurement of IT Services.

The Technology Update section emphasizes on the importance of Implementing Business Continuity Plan and Active-Active DR Strategy while District Informatics section covers updates on the latest ICT developments in Hazaribagh, Amravati, Kangra and Kota districts. The Awarded Products section provides glimpses of various award winning ICT initiatives developed and implemented by NIC.

Our regular sections such as Cyber Governance, International e-Gov Updates and In the News would apprise you on the latest technological developments in India as well as the world.

Send us your views and feedback on the articles to help us in enhancing the quality of the newsletter.

Happy Reading.

NEETA VERMA

We invite your valuable articles and write-ups for Informatics.

Please send your inputs/contributions/feedback to our State Correspondents or else directly to us at the address below:

Editor-in-Chief
Room No-375, 3rd Floor, NIC-HQ
A-Block, CGO Complex, Lodhi Road
New Delhi - 110 003
editor.info@nic.in

CONTENTS

LEAD STORY

4-10 Web Ratna Awards 2014

E-GOV PRODUCTS & SERVICES

11-12 e-Nijukti: An Online System for Managing Job Oriented Skill Development & Training in Odisha

13 Jeevan Pramaan Update

14-15 eVisitor: IT Solution for Visit Management

16 KhoyaPaya: A Citizen Centric Portal for Missing and Vulnerable Children

17-18 Unified Birth and Death Registration System in Andhra Pradesh

19-20 Goa Excise Management Systems (GEMS)

21-23 Use of Hybrid Survey Methodology and Bhu-Sarvekshan Software for Resurvey in Bihar



4-10

GUEST COLUMN

24-26 Implementation of IVFRT MMP in Odisha

SPOTLIGHT

27 Challenges in IT Services Procurement in Government

TECHNOLOGY UPDATE

28-29 Implementing Business Continuity Plan using Active-Active Hosting Strategy

DISTRICT INFORMATICS

30-31 **HAZARIBAGH:** Using ICT for Smart Governance

32-33 **AMRAVATI:** Pioneering Aadhaar based DBT Schemes

34-35 **KANGRA:** An Emerging ICT enabled District

36-38 **KOTA:** Making Rapid Strides in ICT

ACCOLADES

39-40 Awarded Products & Projects

41-42 **INTERNATIONAL E-GOV UPDATE**

43-44 **CYBER GOVERNANCE**

45-48 **IN THE NEWS**



19-20



24-26



30-31

web ratna awards 2014



Good governance is one of the key ingredients of growth and development. Over the years, e-Governance in India has steadily evolved into a potent tool to foster transparency, accountability, efficiency and public participation in government systems, strengthening the premise of democracy.

In a run up to Government of India's effort to promote and uphold the use of World Wide Web for enhancing the efficiency and transparency of government mechanism and encouraging its speedy transition towards Digital India, National Informatics Centre (NIC), under the ambit of India Portal (<http://india.gov.in>) organized the third edition of Web Ratna Awards. Instituted in the year 2009, Web Ratna Awards is one of its kind awards in India which has honored the works of different government bodies on the web based platform.

Web Ratna Awards since its inception has played a major role in recognizing the noteworthy and sustainable initiatives in the realm of e-Governance for better delivery of information and services. At the same time Web Ratna Awards have re-established itself as an important platform to disseminate information about such path breaking initiatives. At the same time, Web Ratna Awards has also encouraged numerous departments to take up and replicate the successful innovations which have been recognized on this platform.

All in all the Web Ratna Awards in itself has created a benchmark for various Government Agencies in India enabling and encouraging them to strive for better utilization to promote innovation in the web





Web Ratna Award Event in progress



Release of Web Ratna Awards-2014 Compendium



Senior Officials present during the event

space to add on to public delivery and efficient governance. In addition to this it has also created a healthy culture of competition pushing them to do better and add to the larger goal of promoting Web based e-Governance application. The idea of Web Ratna is one of the key components in the Digital India initiative, doing its bit to promote exchange of information and values which run key governance aspects on the World Wide Web platform ultimately leading to digitally empowered society and a knowledge based economy.

THE EVENT AT A GLANCE

The third season of Web Ratna Awards was marked by unprecedented fervor. The award ceremony was held on 25th March 2015 at India Habitat Centre, New Delhi. Hon'ble Minister for Communications and Information Technology, Shri Ravi Shankar Prasad graced the occasion and presented the awards to the distinguished winners.

Shri RS Sharma, Secretary, Department of Electronics & Information Technology (DeitY), Shri Tapan Ray, Additional Secretary, DeitY and Dr. Ajay Kumar, Director General, NIC also graced the event. Senior officials from Department of Electronics & Information Technology (DeitY) and NIC were also present at the ceremony.

Web Ratna Awards 2014 Compendium and Index of Government Websites were also released during the event.

THE PROCESS

E-Governance initiatives of Government Ministries and Departments across India were evaluated under various categories. Three awards Platinum, Gold and Silver were presented in each category to the winners shortlisted from the nominations received under each category. The categories included Citizen Centric Service, Open Data Champion, Outstanding Content, Innovative Use of Technology, Comprehensive Web Presence –Ministry and Comprehensive Web Presence-State/UT. Open Data Champion is a new addition to the awards. It honors Ministries/Departments who have contributed datasets to India's Open Government Data (OGD) Platform (data.gov.in).

Contd. On Page 9...

KEY QUOTES



“ Web Ratna Awards by the National Informatics Centre, Department of Electronics & Information Technology would indeed go a long way to promote e-Governance initiatives and to harness the medium of World Wide Web (WWW) for delivery of Government Information and Services. ”

Shri Ravi Shankar Prasad
Hon'ble Minister of C&IT



“ These Awards are being conferred in different categories which touch upon different aspect of e-Governance. I am happy to learn that a new category of Open Data initiative is added in this edition of awards. DeitY and NIC have a greater role to play in leveraging technology for realization of Digital India. ”

Shri RS Sharma
Secretary,
DeitY



“ I congratulate NIC for keeping up with the tradition of honouring the exemplary e-Governance initiatives using World Wide Web as a medium. I hope these awards will serve as a source of inspiration for others to follow. ”

Shri Tapan Ray
Addl. Secretary,
DeitY



“ It's my pleasure to stand here on the occasion of conferment of Web Ratna Awards-2014. It is extremely important to recognize exemplary initiatives to drive healthy competition all across the government. A spectrum of parameters including creative design, ease of use, ready updation, quality of content etc. are taken into account while deciding the awardees. ”

Dr. Ajay Kumar,
Director General
NIC



“ We had received total 315 nominations for Web Ratna Awards 2014, from all over the country. All the nominations were evaluated based on scientifically formulated criterion. All shortlisted nominations were equally deserving. I wish Web Ratna Awards will go a long way in making websites inclusive and accessible. ”

Ms. Neeta Verma
Deputy Director General
NIC



“ On behalf of NIC, I take this opportunity to heartily congratulate the winners of the prestigious Web Ratna Awards 2014. Your sustained efforts towards e-governance has enabled your department in delivering quality services. I hope to see many more awardees to join our journey in future. ”

Ms. Alka Mishra
Sr. Technical Director
NIC

Award Winners

There are total six categories of awards and winners for each of these categories are decided on the basis of content currency, relevancy, updation, website usability, accessibility, scalability, technology, design, interactivity among the other critical parameters.

CITIZEN CENTRIC SERVICE



Platinum Icon: Passport Seva Project



Gold Icon: National Safai Karmchari Finance Development Corporation



Silver Icon: Passport Seva Project

OPEN DATA CHAMPION



Platinum Icon: Office of Registrar General & Census Commissioner



Gold Icon 1: Planning Commission



Gold Icon 2: Ministry of Statistics & Program Implementation



Silver Icon: Ministry of Water Resources

OUTSTANDING CONTENT



Platinum Icon: Ministry of External Affairs



Gold Icon 1: Kerala Tourism



Gold Icon 2: Ministry of Tribal Affairs



Silver Icon: Ministry of Development of North Eastern Region

INNOVATIVE USE OF TECHNOLOGY



Platinum Icon: mKisan-Government of India Portal for Farmer Centric Services



Gold Icon 1: Computerization Project of Madhya Pradesh, Commercial Tax Department



Gold Icon 2: e-Services, Department of Commercial Tax, Tamil Nadu



Silver Icon: e-Sahakar, Maharashtra

COMPREHENSIVE WEB PRESENCE - MINISTRY/DEPARTMENT



Platinum Icon : Ministry of Information & Broadcasting



Gold Icon: Ministry of Health & Family Welfare



Silver Icon: Office of Controller General of Accounts

COMPREHENSIVE WEB PRESENCE – STATE



Platinum Icon: Maharashtra



Gold Icon: Tamil Nadu



Silver Icon: Uttarakhand

...Contd. From Page 5

Online nominations were called from various Government entities and overwhelming response was received for all the six categories. An extensive process for evaluation of filed nominations was followed which was conducted in two stages. In the initial stage, entries were screened based on a scientifically formulated Evaluation Matrix which was

specifically designed for each category of the Web Ratna Awards. The distinguished Jury thereafter reviewed the shortlisted nominations and finalized the awards in each category.

JURY

The esteemed, high-level Jury of Web Ratna Awards-2014 consisted of senior members from Government, Academia, Institutes and Organizations. Hon'ble Minister has felicitated the esteemed Jury members for their role in deciding the winners after evaluating the entries on various parameters. The names of Jury members are - Shri RS Sharma, Secretary (DeitY), Dr. Ajay Kumar, DG (NIC), Dr. Rajendra Kumar, JS (DeitY), Ms. V Vidyavathi, JS (ARC, DARPG), Ms. Neeta Verma, DDG, (NIC), Prof. MP Gupta, Dept. of Management Studies (IIT Delhi), Ms. Rama Vedashree, Vice President, (NASSCOM), Shri Shyamanuja Das, Director/Columnist (Juxt Consult Research & Consulting Pvt. Ltd.) and Ms. Anjali Kaushik, Associate Professor (Management Development Institute).



Shri Ram Sewak Sharma



Dr. Rajendra Kumar



Dr. Ajay Kumar



Ms. Neeta Verma



Prof. MP Gupta



Ms. Rama Vedashree



Shri Shyamanuja Das

e-Nijukti: An Online System for Managing Job Oriented Skill Development & Training in Odisha

Employment & Technical Education and Training Department (ETET) was initiated by Government of Odisha with National Informatics Centre (NIC) serving as the knowledge partner to increase job opportunities and skill development in the state with the use of ICT. The online application (www.empmissionodisha.gov.in) plays a pivotal role for instituting effective e-governance and essentially bridges the gap between government and citizens. Less qualified youth of the state are captured online through this system and imparted with necessary skill development training. Further, certificates are issued to the candidates after online verification by various assessing bodies.



Dr. R.N. BEHERA
Sr. Technical Director
m.behera@nic.in

Edited by
PRASHANT BELWARIAR



Odisha State Employment Mission (OSEM) under ETET conducts various skill development & training programs with an aim to create employment opportunities for the unemployed youths in the state.

The State Employment Mission roped in NIC Odisha as a knowledge partner to increase job opportunities and to manage programs through extensive use of ICT. The portal-www.empmissionodisha.gov.in plays a pivotal role in providing e-services and bridges the gap between government and citizens. Details of unemployed youths are captured online and as per their ability are imparted with necessary skill development & training. They are assessed online by an assessing body before the certificate is distributed.

The software is developed in Open Source i.e. Linux, JAVA, JBOSS, PgSQL and Enterprise DB. The entire cycle in the process i.e. registration of candidates, imparting training & batch allotment is done randomly by the assessing bodies. The portal provides names of the trained job-seekers which can be absorbed by the private organizations.

STAKEHOLDERS

The various stakeholders for the e-Nijukti initiative are:

- a) Job Seekers,
- b) OSEM,



Dr. CHANDRA SEKHAR KUMAR, IAS,
Commissioner-Cum-Secretary,
ETET Department

I am happy to note that NIC Odisha State Centre is bringing an article in Informatics. NIC is our knowledge partner in various ICT based services including e-Nijukti which is a very good product for less qualified, unemployed youths who lack proper skill set and knowledge to compete and get suitable job opportunity. This product is generic and can be rolled out PAN India.

- c) Project Implementing Agency (PIA),
- d) Training Centres,
- e) District Employment Officer (DEO),
- f) Assessing Bodies recognized by RDAT (Regional Directorate of Apprenticeship Training),
- g) Job Providers.

ODISHA STATE EMPLOYMENT MISSION (OSEM)

OSEM invites application online from less qualified youths across the state and impart them skill development

& training programs. The application facilitates easy monitoring and keeps a check on spurious and duplicate candidates.

PROJECT IMPLEMENTING AGENCY (PIA)

PIAs can register themselves online and get the approval from OSEM for training and placement activities besides adding training program, Training Centres and trainers. PIA can counsel the online registered candidates and enhance the batch strength.

TRAINING CENTRES

Training Centre can update bio-metric attendance of candidates and notify the same through email/SMS.

JOB SEEKERS

Unemployed youths can get information about various training programs available and other related information from the website. They can register online or can contact DEO/PIA or Common Service Centres for the same. Auto-notification via SMS/e-mail is generated after registration giving information regarding date of batch commencement, trade etc.

ASSESSING BODIES

Assessing bodies identified by RDAT assess the candidates online on the

basis of quality of the training provided and skills acquired. Post completion of this, NCVT certificates are issued to the candidates which facilitate them in getting job.

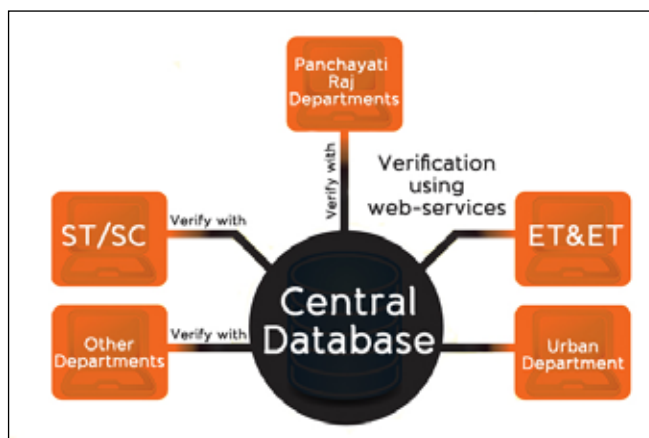
JOB PROVIDERS

Job providers collaborate with PIAs for getting trained skilled manpower. The list of unemployed skilled manpower is available on the portal for the employers.

CHALLENGES FACED

Odisha is an underdeveloped state of India with low penetration of ICT in rural and backward areas. Though literacy rate is 73.45 % (2011 Census), the IT literacy rate is still very low. There is lack of awareness among the youth regarding the benefits derived from the programmes organized by the Government.

A tribal living in a remote location of Odisha or any illiterate/semi-illiterate person who do not have access to internet can come to the nearest CSC for registering online. They can get all information through this portal.



AWARDS AND ACCOLADES

The portal has earned the following recognitions and awards:

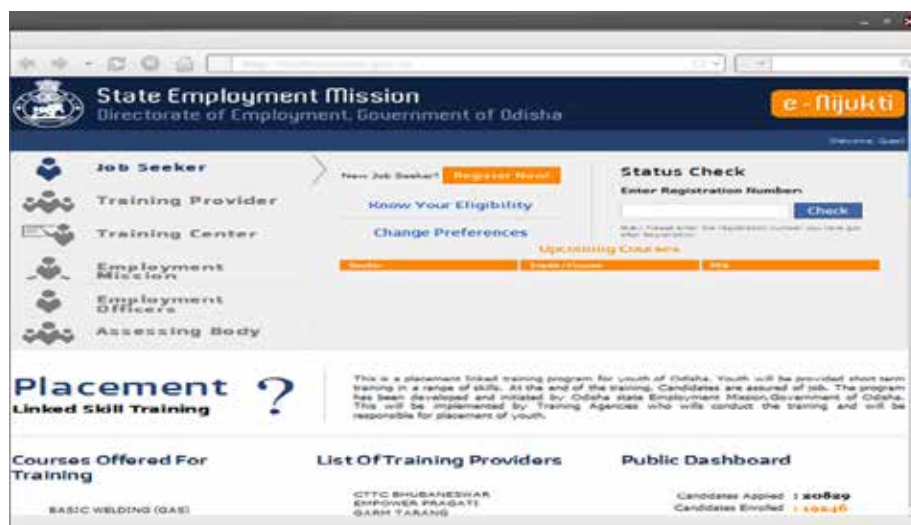
- e-India 2014
- SKOCH Digital Inclusion Awards for the year 2012, 2013 & 2014
- EDGE-Information Week Magazine Award 2014

PROPOSED SYSTEM

The system is in the process of integration with other departments that conduct skill development training programs with common database platform. Analytics will be used to forecast the skilled manpower produced and skill manpower required in the state. The system will be moved on to National Cloud 'MeghRaj' in near future.

CONCLUSION

e-Nijukti facilitates skill development and training with the objective to provide job opportunities to less qualified, unemployed youths. It also checks wastage of public money by preventing duplicate entries across the departments which are integrated with the system.



For further information:

Dr. R. N. BEHERA
Senior Technical Director
National Informatics Centre
Odisha State Centre, Bhubaneswar
e-Mail: rnbehera@nic.in

Jeevan Pramaan Update

Jeevan Pramaan Portal (www.jeevanpramaan.gov.in) was launched by Hon'ble Prime Minister on November 10, 2014. Jeevan Pramaan initiative provides facility to pensioners to submit Aadhaar based Digital Life Certificates (DLC) which are maintained in a central digital repository at NIC.

Edited by
MOHAN DAS VISWAM

D initially targeted towards Central Civil and Defence pensioners, Jeevan Pramaan has started necessary amendments in the relevant rules by Controller General of Accounts to recognize it as a method to provide life certificate digitally. The system while providing genuine help to the pensioners will also help in reducing the leakages which may be happening due to payment of pension to the pensioners who are not alive. While the system allows remote marking of DLCs, so far, the facility has been extended in the assisted mode for most cases due to newness of the facility. Nearly 30,000 CSCs were identified as Jeevan Pramaan Centres at the time of launch of the portal for providing such facilitation.

The number of Digital Life Certificates received through the Jeevan Pramaan portal as on March, 2015 is 1,06,700 (out of these, nearly 74,000 pertain to various Banks, 19,000 pertain to DPDO and 11,000 pertain to EPFO) and 72,000 DLCs have been successfully verified by various Pension Disbursing Agencies (PDA).

The following steps have been taken since the launch of the portal:

- NSDL Centres NIELIT Centres, NIC offices etc. across the country other than CSCs have become Jeevan Pramaan Centres for pensioners to submit their life certificates.
- The client version of the Jeevan Pramaan software available for Windows and Android environment provides the facility through which the pensioners can submit DLC from their home with the use of PC, laptops or smart phones with biometric devices attached.
- **Automatic updation of pensioner database with DLCs:** To further reduce efforts to update the pensioners'

database, the banks and other Pension Disbursing Agencies can automate their backend wherein the DLCs can be easily picked up from Jeevan Pramaan portal to update the pensioner database. Seeding of Aadhaar Number in pensioners' accounts would facilitate automatic updation of pensioners' database.

- Special camps have been held in coordination with Defence and EPFO organizations.
- Several State Governments have come forward to have the facility for their pensioners. Haryana, Himachal Pradesh, Goa, Manipur, Odisha and Punjab are some among these states. Efforts are underway to extend the facility to pensioners of these states.
- Collaboration with pensioner organizations like Ex-Servicemen Welfare Organizations, Bharat Pensioners etc. has been established to enlist their support to create awareness among pensioners about the scheme.

WAY FORWARD

• Creating greater awareness

As we move to next annual cycle for life certificate i.e. in November, there is a need to create widespread awareness among pensioners for availing this facility. A sustained and strategic publicity campaign through media such as posters, advertisement in magazines having longer shelf life needs to be carried out.

• Extending Scheme to other major pensioner groups

Focused efforts are essential in Railways, Post and Telecom to encourage their pensioners to use the facility. Similarly, State Governments which are not on board would also need to be encouraged to avail this facility.



RAJIV RATHI
Senior Technical Director
rajiv@nic.in

For further information:

RAJIV RATHI
Senior Technical Director
E-mail-rajiv@nic.in

eVisitor: IT Solution for Visit Management

eVisitor, a web based application system developed by National Informatics Centre is a citizen service to facilitate submission of online requests by individuals for visiting government officers of Ministries/Departments located at various Bhavans. This facility is available through the Home Page of the Ministry website, which directs the visitor to eVisitor site ie., <http://MyVisit.gov.in>. The registration page of the site has the prescribed format in which the visit details submitted are communicated back to the visitor through SMS/email containing information such as visitor registration number, status of approval and approved date and time for visit.



RAJIV PRAKASH SAXENA

Deputy Director General
rajiv.saxena@nic.in



SHASHI KANT SHARMA

Technical Director
shashi_kant@nic.in

Edited by
MOHAN DAS VISWAM

The eVisitor application provides online interface for the visitors of department/ministry to register for visiting officials. The data is processed for generating passes for the visit after due consent of the approving authority. The system features the facility to check request status any time at the eVisitor site (<http://MyVisit.gov.in>) by specifying the request registration number. The status of the visit approval/change in visiting time/redirection is communicated to the visitor through SMS/email. In case, if the visit could not be approved by the officer concerned, visitor can take the printout of the request generated through the eVisitor website and can get it approved by an alternate concerned officer. At the time of visit, the visitor is required to carry a proof of identity such as Aadhar card, election card, driving license, ration card or passport. For enhanced security, a photograph of the visitor is taken at the reception counter, which is operated by the Ministry of Home Affairs at various Bhavans.

If the visitor has registered once, for the subsequent visits, he/she can give provide reference of old registration number, mobile number or personal details to facilitate quick registration at the MHA operated reception counter.

<http://eVisitors.nic.in> is the URL for new visit registration, while <http://eVisitors.nic.in/eVisitorsmis> is the URL for the processing by officer concerned and subsequent issuing of visitor pass by PRO/Reception.

FROM VISITORS' PERSPECTIVE

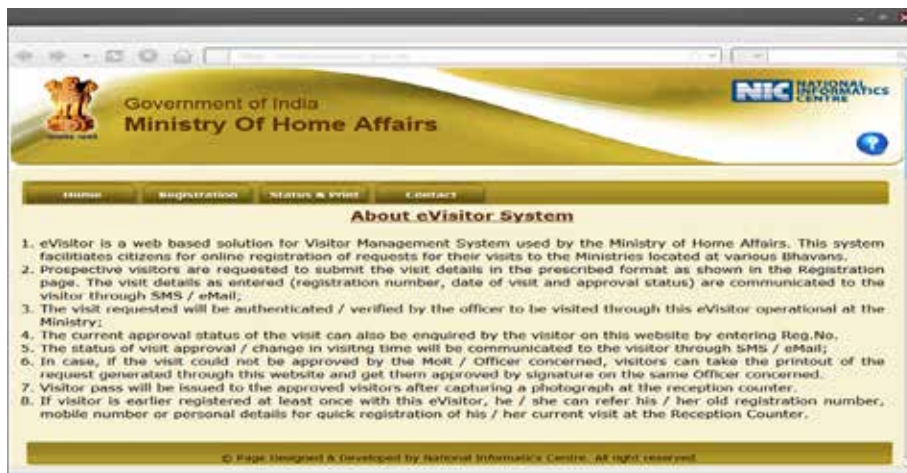
eVisitor facilitates online registration features, SMS and eMail integration, check current status of the visit approval and barcode reader integration for security purpose.

FROM MINISTRY / DEPARTMENT PERSPECTIVE

eVisitor facilitates:

1. Visit Management Module for the officer

- Visit registration (through phone / email / facsimile)
- Debarring of visitors
- Visit view / approval / rejection /



The image displays three components related to the National Visitor Portal:

- Top Screenshot:** The 'Visitor Detail' registration form. It includes fields for Visitor Name, Address, Identity Proof, Officer Details, Visit Date, Gender, Age, Visit Type, Mobile No., Preferred Time, Additional Visitors, and Purpose. A 'Submit' button is at the bottom.
- Middle Screenshot:** The 'Welcome to National Visitors Portal' page. It provides a brief overview of the system and its purpose, explaining how visitors can register and check their status.
- Bottom Diagram:** The 'Process Flow of eVisitor Application'. This flowchart illustrates the steps from a visitor's request (online, phone, or gate) through officer approval, PRO/reception processing, and final registration (photo capture, pass issue, record maintenance) to the final 'Stop' state.

- Queries and reports

3. Administration

- Creation and modification of the officers profile
- Allocation of the roles
- Maintenance of the master data
- Application configuration

eVisitor has a three tier web application system at the backend with modular & role based access control and is hosted at the cloud environment of NIC. Following are its key features:

- Access to the citizens to book their visit to a government office in advance through the internet
- Enhanced security perception at the bhawans
- Enables control and elimination of unauthorised visitors
- Pre-booked and approved visits for better crowd management at the government offices and providing better services to the citizens
- Application access to the officer to view/approve/reject/change the time/redirect/forward to another officer
- SMS and eMail based alerts about visit approval status (confirmation/change in the visit date and time/officer)
- Reception centre of the ministry can register new visits, which are not booked through internet, capture photographs and record visitor movement
- Automatic generation of the appointment list of the officers
- Provision to store the user log as a security measure for future forensics.

redirection/forwarding/rescheduling

- Queries
- Reports

2. Visitor Management Module for the reception

- Visitor registration (visitors approaching reception);
- Approved visits processing (photo capture/generation of the pass)
- Debarring of the visitors
- Gate Management (entry/exit)

For further information:
RAJIV PRAKASH SAXENA, DDG
 Prisons Division, NIC
 DeitY
 Email: rajiv.saxena@nic.in

KhoyaPaya: A Citizen Centric Portal for Missing and Vulnerable Children

Children are the most vulnerable section of our society and are observed as the easy and soft target of criminals and pervers. The worst among the atrocities encountered by children are trafficking, kidnapping and sexual abuse. Despite the law enforcement agencies does their best to safeguard the children from such inhuman acts; the sad reality is that a large number of kids go missing every year. Statistics reveal that one child goes missing every eighth minute in our country. The law enforcement bodies are bound by the law and are doing the best to prevent such acts and are committed to take immediate action once identified. Unfortunately, delay invariably creeps in due to completion of formalities by parents before the formal lodging of complaint, as per the law, it is mandatory to immediately file FIR in case of a missing child. Government focused on the need for an alternate solution in the form of web-centric channel. This is the genesis of KhoyaPaya- a citizen-centric portal for missing and vulnerable children.

PADMAVATHI VISWANATHAN

Deputy Director General
padmavati@nic.in



C. J. ANTONY

Senior Technical Director
antony@nic.in



NALINI S. NAUTIYAL

Principal Systems Analyst
nalini@nic.in



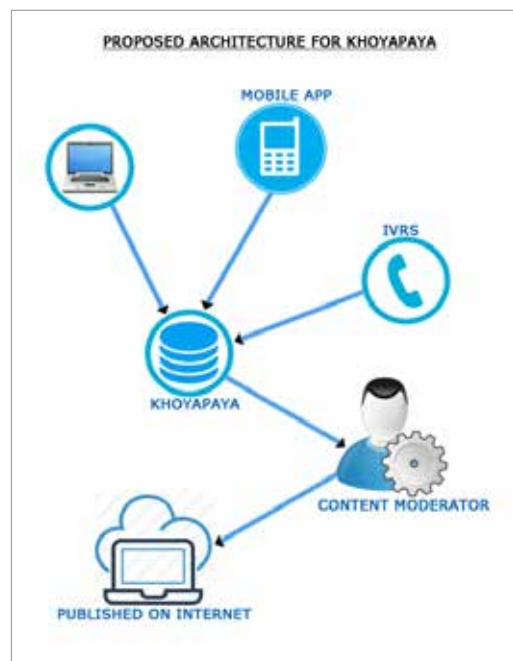
Edited by
MOHAN DAS VISWAM

KhoyaPaya is an online portal by the Government of India for reporting and tracing missing children. Envisaged as a people centric and collaborative portal, KhoyaPaya is an online interface for parents of the missing children to lodge and find details. This is a platform to register and provide information regarding a missing or sighted children, without waiting to complete the formal legal procedures. After quick moderation, the information would be made open for public view. The portal facilitates to search the database of the children by matching the attributes of the lost/sighted child. This is to drastically reduce time for the relevant information to reach the parents. Though KhoyaPaya is not a substitute for any existing system or statutory bodies to track the missing children, it would enable the parents in possibly locating their missing child in an alternate and effective way of public participation.

The platform is being developed as National Portal for Lost and Sighted Children – an Early Harvest Program under “Digital India”. Developed using state of the art Open source technologies such as J2EE frameworks, Postgre SQL, Linux et al, KhoyaPaya portal is hosted on NIC cloud. Mobile app for uploading details of sighted children

has also been developed for android-based phones. Development of apps for other platforms is also underway. Reporting of missing and sighting of children through Interactive Voice Response System (IVRS) is also proposed.

Standard operating procedures for the portal are under way and a team of moderators will be deployed to ensure that the uploaded content is as per the portal usage policy. Additional features such as natural language processing tools and facial recognition tools will be integrated with the portal in the near future. It is also proposed to link the system with other systems at a later stage through web services.



For further information:

C. J. ANTONY

Senior Technical Director

E-mail: antony@nic.in

Unified Birth and Death Registration System in Andhra Pradesh

ITE&C Department, Govt. of Andhra Pradesh has initiated Civil Registration System- Unified Births & Deaths Registration, a Flagship project, for computerization of Civil Registrations for RLBs (Rural Local Bodies) and ULBs (Urban Local Bodies) in consultation with Commissioner & Director of Municipal Administration (CDMA) and Commissioner, Panchayati Raj and Rural Employment (CPR&RE).



K. RAMA SUBBA REDDY

Senior Technical Director
reddykr@nic.in



SHAIK HAFEESEDDIN

Senior Systems Analyst
hafees@nic.in



K. SWATHI VENKATA LAKSHMI

Systems Analyst
swathi@nic.in

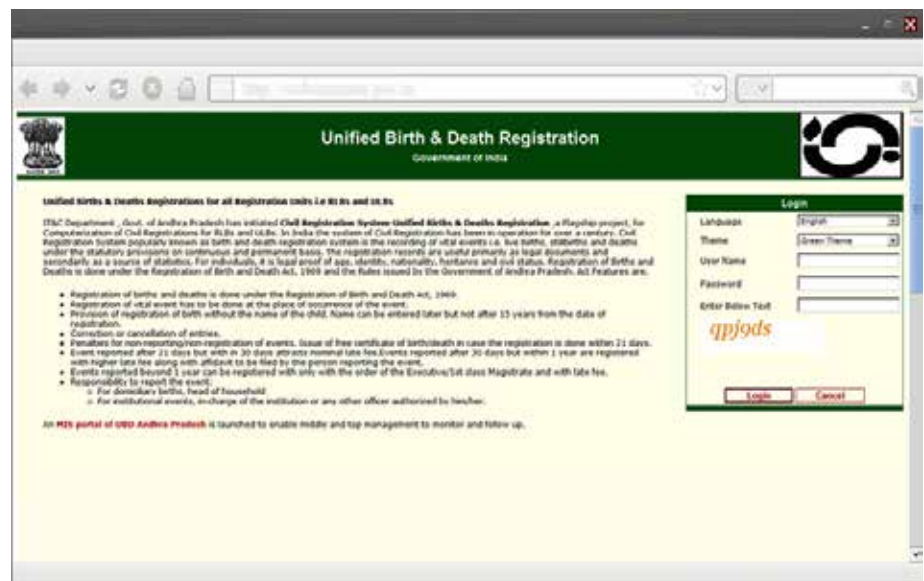
Edited by
R. GAYATRI

In India, the system of civil registrations has been in operation for over a century. Civil Registration System popularly known as Birth and Death Registration System is the recording of vital events i.e. live births, still births and deaths under the statutory provisions on continuous and permanent basis. The registration records are useful primarily as legal documents and secondarily as a source of statistics. For individuals, it is legal proof of age, identity, nationality, heritance and civil status. Registration of births and deaths is done under the Registration of Birth and Death Act, 1969 and the Rules issued by the Government of Andhra Pradesh.

UNIFIED MODEL

Different models and architectures

were followed by the Birth and Death Registration Units of RLBs (Gram Panchayats) and ULBs (Greater Municipal Corporations, Municipal Corporations, Municipalities) of Andhra Pradesh. Major gaps among the models are standardization, centralized access, restricted service delivery points, vertical monitoring, centralized application status view, etc. ITE&C department entrusted the activity of Gap Analysis to NIC Andhra Pradesh to study the prevailing models. Accordingly, NIC proposed a Unified Model of Birth and Death Registrations to bring out the standardization, centralized repository, digital signing of events, online boarding of reporting units to minimize the delay in reporting of events and G2C services either through Mee Seva or Registration Units. NIC has designed and developed web based Unified Birth and Death (UBD) Registration application software which is hosted on Andhra Pradesh



State Data Centre (APSDC). It is being implemented successfully in 1,317 registration units of ULBs and RLBs of Andhra Pradesh. Hospitals can avail the Online Event Reporting facility based on the assessment of eReadiness of the hospitals by the Registration Unit. Approval Authority of the hospital forwards the events to the concerned Registration Unit for registration.

FEATURES

- Birth, death and still-birth event reporting and registration
- Provision for Legacy Data Entry and Confirmation
- Registration of Digital Token by the Approval Authority of Registration Unit
- Digital signing of events - single/bulk
- Issuance of Birth and Death Certificates
- Issuance of non-availability of Birth and Death Certificates
- Registered Event Corrections
- Name Inclusion

- Hospital Interface for reporting of events
- Cancellation of registered birth and death events
- Aadhaar Seeding provision for birth and death events and interface to SRDH AP
- Two-level workflow
- Comprehensive MIS Capsule
- Unique Code for Registration Unit
- Mee Seva Interface

CITIZEN SERVICES THROUGH MEE SEVA CENTRES

G2C services are classified into two categories, Category-A-issuance of Birth and Death Certificates for the digitally signed records and Category-B - workflow based requests.

- Category A: Birth and Death Certificates
- Category B: Request for Birth and Death Certificates for un-ported data, Name Inclusion, Birth and Death Event Corrections, Non-Availability of Birth and Death Certificates.

DEVELOPMENT TECHNOLOGIES

- Java
- JSP
- Struts
- AJAX
- HTML
- Web Services

DEPLOYMENT PLATFORM

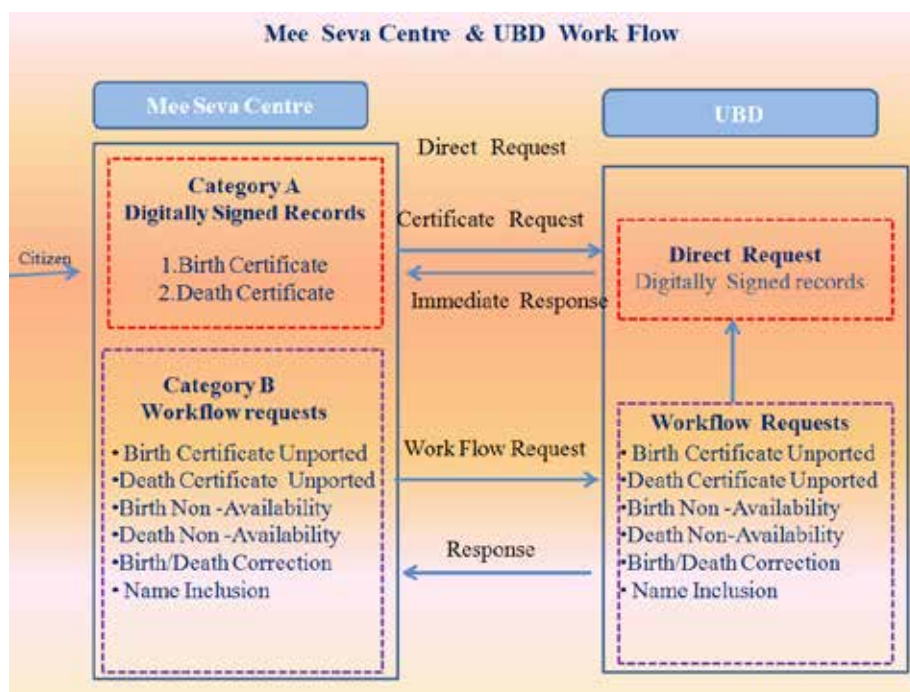
- **Application Server:** GlassFish Open Source Edition
- **Database Server:** Oracle Exalogic of AP State Data Centre

CHALLENGES

- Information in silos with diversified structures
- Migration of Legacy Data into a Unified Model
- Data Cleansing
- Digital Token Readiness
- Digital Signing of Records
- Capacity Building

BENEFITS

- UBD-APSC acts as a centralized repository of about 11 million events.
- Around 7 million events have been digitally signed.
- About 3 million certificates have been issued through Mee Seva Centres.
- Extensive Capacity Building Programmes have been carried out using SAPNET – Maana TV Programmes
- Centralized MIS Capsule (<http://ubd.ap.gov.in:8080/UBDMIS>)



For further information:
K. RAMA SUBBA REDDY
 Senior Technical Director
reddykrs@nic.in

GOA Excise Management System (GEMS)

'GEMS' is Government to Business (G2B) initiative of Department of Excise, Government of Goa, aimed at achieving good governance and paperless office using ICT tools. The project was entrusted with NIC in October 2013, to develop a complete web based workflow application providing end-to-end solution to the business community, facilitating the dealers through anywhere, anytime and round the clock services.



K.P. PARISELVAN
Technical Director
kpp.pari@nic.in

ANJU T.S
Scientific/Technical
Assistant "B"
ts.anju@nic.in



Edited by
ANSHU ROHATGI



Excise is a matter mostly governed by the Central Government. In such a case, only the manufacture and sale of alcoholic beverages comes under the purview of State Excise Departments. In Goa, the Excise Department is headed by Commissioner and consists of Assistant Commissioners, Superintendents and Excise Inspectors (EI's). There are 60 EI's stationed at various Talukas, Manufacturing Units and Check Posts.

In all there are 105 Manufacturing Units, 240 wholesalers, 2173 retailers and 8087 bars in Goa. The manufactures produce Indian Made Foreign Liquor (IMFL), wine, beer, country liquor etc. These products are sold in Goa as well as exported outside Goa and also from the country. The raw materials are manufactured in

Goa or imported from outside based on the product.

The main function of the Excise Department is issuance of licenses for setting up liquor manufacturing units, wholesale shops, retail shops and bars. These license and liquor labels are to be renewed every year. Apart from this, the department issues NOCs/ permits for import/export of raw material and liquor.

Moving with the time, the Excise Department in Goa decided to embrace technology to provide efficient and faster service to the stakeholders involved. Earlier, most of the work was done tirelessly by the staff, which was time consuming and prone to errors. In 2013, the Goa Excise Department kicked off its process of computerization by issuing printed challans to tax payers in place of handwritten challans. Printed challans was actually the first step towards making the process computerized. Later, the department





Launching of Portal by Hon'ble Chief Minister of Goa, Shri Laxmikant Parsekar on 20th February 2015

also started e-payment of excise duty on the lines of e-payment of other taxes like Income Tax and Value-Added-Tax (VAT) etc.

The move of issuing printed challans simplified matters for manufacturers and distributors of alcoholic beverages. It also helped the Goa Excise Department in curbing corruption as they were able to check the details of printed challans on the click of a mouse. The department also adopted a computerized system known as Sales Removal for monitoring the movement of goods. Other beneficiaries of the system are the research organizations and agencies which can access crucial information about products manufactured and sold in the state.

OBJECTIVES OF GEMS

- Work flow based system to carry out all major activities of Goa Excise Department
- Issue NOC's, Permits and Licenses
- Monitor online revenue collection
- Minimize physical interaction between business community & departmental officials
- Integration of Digital Signatures to promote Green Office
- Facilitate online payment
- Facilitate "Anywhere, Anytime Services" to the business community

GEMS APPLICATION

GEMS is a combination of two web based applications - the Internet based interface is for the business community, while the Intranet interface is for the departmental officials.

The business community can apply online (for NOC's, permits & licenses) along with softcopies of all the supporting documents. The EI will log into the portal, verify the supporting documents, generate the e-challan accordingly and send it back to the applicant electronically. The applicant will either pay the e-challan online, or at the bank counter and upload the e-receipt on the portal. The EI will forward the application with appropriate remarks to the concerned officer who in turn will forward it to the higher authorities with appropriate remarks. This process continues till the final grant stage. The history of each officer's comment along with the documents uploaded can be viewed by officers to take appropriate decisions. There is no file/paper movement from one stage to other. After the grant, the system will generate the NOC, permit etc. and the authorized official will sign and issue the same. The dealers will visit the department only once to collect the NOC/permit etc. Integration with digital signatures is being done to eliminate the physical visits by the dealers. At every state the dealer is kept informed about the

status of the application through SMS.

In the manual system, this process used to take a minimum of 3 working days, as the entire file has to come to head office from various Excise Stations. After deploying GEMS, it takes only 1-2 hours to process the applications.

For the departmental official - the dashboard display the pending applications and revenue collection. There is an option to transfer all the files pertaining to an officer to other employee in case of leave or transfer so that the services are provided uninterrupted. Android based mobile apps are being developed to facilitate the department official to view the status and circulars, and scan the GS1 barcode to verify the documents during enforcement.

BENEFITS

- System generated application forms for the dealers are based on the input with GS1 barcode that eliminates need to write applications manually. GS1 barcode standards are used to identify the document type, validity, issuing authority etc.
- Dealers can scan and upload all the reference documents and department officials can view these documents digitally at any stage. This helps in quick decision making. It also eliminates completely the need to carry physical files to the department, thus saving manpower, transport, energy and paper.
- Fee calculators for calculating excise duty and auto-generation of e-Challan are available.
- Linking of permits and endorsement details avoids multiple truck entries against one permit.
- Integration with e-Challan Payment Gateway helps in easy transactions.
- Less paper means fewer trees are cut, resulting in saving the environment.

For further information:

JJR ANAND

State Informatics Officer

National Informatics Centre, Goa State Centre

H-Block, Paraiso-De-Goa

Porvorim Goa

Use of Hybrid Survey Methodology and Bhu-Sarvekshan Software for Resurvey in Bihar

The Bihar state - spread over approx. 94163 sq. Km area, has an administrative setup comprising of 9 divisions, 38 districts, 101 subdivisions, 534 circles and 45,700 mauza(s) i.e. revenue villages. The very first survey of land i.e. Cadastral Survey (CS) of the state was conducted almost a century ago. These hundred years old records have now become fragile. Their day to day handling is critical in terms of loss of information and destruction of paper based maps. Fragmentation of land parcels and their subsequent maintenance regarding updation of records were not timely accomplished. This has posed a great challenge to the government in implementing development schemes, disposal of litigations and land acquisitions for infrastructure projects.



SANJAY KUMAR
Principal Systems Analyst
sanjay.kumar@nic.in

MD. JAWED MANZAR
Senior Systems Analyst
jmanzar@nic.in



Edited by
PRASHANT BELWARIAR

RE-SURVEY & CHALLENGES

A re-survey is a re-construction of land boundaries and sub-divisions accomplished by re-running, re-marking the lines represented in the field-note records or on the plot of a previous official survey.

PROPOSED SOLUTION

Department of Revenue and Land Reforms, Government of Bihar decided to start the re-survey in the state using “Hybrid Survey methodology employing Aerial Photography and Ground Truthing with TS/DGPS” (Total Station/Differential Global Positioning System) as per the guidelines of National Land Modernization Programme (NLRMP). Hybrid Survey Methodology by aerial photography and ETS (Electronic Total Station) & GPS is suggested for survey/resurvey of plain areas, where good quality Cadastral Maps are available. This technology is also appropriate for hilly areas where terrain corrected aerial photographs can be generated.

RE-SURVEY ROADMAP

For the re-survey work, ‘Bihar Special Survey and Settlement Act, 2011’ and ‘Bihar Special Survey and Settlement Niyamawali, 2012’ were enacted. The act has been designed to emphasize all the stages of Cadastral Survey and settlement operations in the state using hybrid modern methodology



MITHILESH MISHRA
Director, Land Records & Survey

The basic components related to Cadastral Resurvey process are Pre-Survey Activities, Survey Activities, Post Survey Activities. Pre-Survey Activities i.e. creation of ground control network has been completed in 34 district of Bihar. Survey activities, aerial photography for 10 districts have been completed. Processing of aerial photographs and generation of ortho rectified images have been completed for 7 districts. Creation of cadastral parcel and field verification are in progress. Cadastral Maps of 2 revenue villages were finally published after completing 100% ground verification.

to minimize the time span without compromising on quality, transparency and grievance redressal with lesser manpower. The re-survey was launched on 22nd May, 2013 by the then Hon’ble Chief Minister of Bihar.

RE-SURVEY EXECUTION

Re-Survey process using aerial photography started with selection of appropriate agency having expertise in Hybrid Survey Methodology. The



agency created Primary, Secondary, Tertiary and Auxiliary Ground Control Points (GCP) for the purpose.

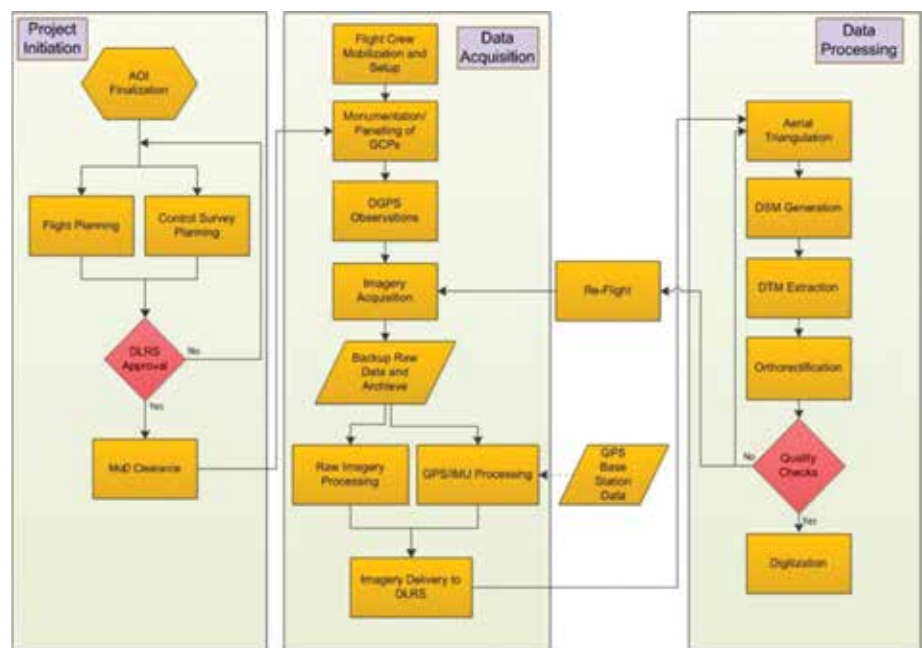
Presently, 39 Primary and 481 Secondary Ground Control Points have been monumented in Bihar. Tertiary and Auxiliary GCPs have been monumented, which were governed by photogrammetric requirements and need based. The plot boundaries were surveyed using the offsets from the details appearing on the ortho-photo, in which case, tertiary control and auxiliary points were not needed. Flying permissions were obtained to fly over a desired area from the competent authorities like DGCA, Ministry of Home Affairs (IB) and Ministry of Defense (Military Survey).

The aircraft captures photograph of plots with specially designed camera fitted at the bottom of the fuselage. The aircraft flies on a pre-defined flight path and captures photographs with 60% forward overlap and 30%

side overlap. The raw images are stored on an onboard storage device. The camera fitted in the aircraft is GPS enabled and its IMU (Inertial Measurement Unit)/GPS data is captured separately for utilizing at

the time of raw data processing. The raw data is further sent for security vetting to the Ministry of Defense. After getting clearance, the raw data passes through different stages of processing like Aerial Triangulation, Digital Terrain Modeling, Orthorectification and Mosaicking. Aerial images have to be taken maintaining a Ground Sampling Distance (GSD) of 10 cms. Necessary pre-marking or post marking of GCPs are required for precise geo-referencing of images. It is required that each GCP is clearly identifiable in the aerial image after processing.

The generated map is sent to field for its verification through ETS/DGPS, if required. Sometimes part of image captured through aerial flying is not clearly visible because of heavy cloud, forest, orchard etc. Such uncovered area is surveyed through ETS/DGPS for modification in the map. After modification the digital map, is geo-referenced using



Work Flow of Hybrid Survey methodology using Aerial Photography

established control survey network (Primary, Secondary and Tertiary) around existing Survey of India Permanent Reference Points. The map is indexed and meta data related to it is preserved for future reference. Finally village map is generated in .shp file format (WGS 84 - UTM) along with all the supporting files like (.shx, .dbf, .prj, .xml, .sbn, .sbx). The scale of the map for agricultural land is 1:4000 (this may vary based on the need to match the village boundary of CS/RS maps, i.e. the original map scale of CS/RS required for further consideration), for Abadi land in village area is 1:1000 and for urban area is 1:500 within a permissible error limit.

After all needful corrections under 'Kishtwar' activity, the map is provided to survey team for further survey work beginning with 'Khanapuri' activity. 'Amin' of the survey team allocates new plot number to each and every land parcel of the map and verify the land area of land parcels with the actual one on the ground. After needful corrections as recommended by 'Amins' the final map is referred by the survey team on the ground for starting the activity - 'Making of Khatiyani & RoR (Record of Rights) Database'.

PROGRESS AND MONITORING

Different committees were formed by Department of Revenue and Land Reforms to monitor the massive work of aerial survey for the whole state. The survey work has been carried out by three agencies namely M/s IL & FS Environment, M/s IIC Technologies and M/s GIS Consortium India Pvt. Ltd in Bihar.

So far, 1182 maps of Begusarai, 475 of



Equipments used and images captured through Aerial Photography

Lakhisarai, 294 of Khagaria, 53 maps of Nalanda and 4 maps of Sheikhpura have been generated through aerial survey. The aerial data of Saharsa, Supaul and Madhepura have been submitted for security vetting, and soon will be available for map generation.

The RoR data collection in the survey process has also been started in Nalanda, Saharsa, Begusarai, Khagaria and Lakhisarai. A web based software solution - "Bhu-Sarvekshan" for making of Khatiyani & RoR database in the survey process has been introduced by NIC-Bihar. It has eased the process of record keeping, report generation and the management of activities.

The software collects survey data from Prapatra-6(Khesra Panji) - the first official document of survey, which is provided to each and every land holder of the mauza in the format of Prapatra-7 (Khanapuri Parcha) for its verification - generated by the software. The genuine corrections in Prapatra-7(if any) raised by Raiyats are

updated through the software which in turn generates Prapatra -12 - the draft publication of Khatiyani. During the process the software assigns unique Khata number to each and every Raiyat for different categories of government plots. The Prapatra-12 is kept in the concerned circle office for public review for specified period. If any discrepancy in data still persists then it is corrected in the database. After a stipulated period, the software generates Prapatra-20 which is the final Khatiyani - the net outcome of the survey process.

Saidpur mauza of Katrisarai circle of Nalanda district is the first village of which the final Khatiyani and map has been officially published and its RoR data is also available on department's official website i.e. <http://lrc.bih.nic.in>.

For further information:
NIC, BIHAR STATE CENTRE
 3rd Floor Technology Bhawan,
 Bailey Road, Patna. PIN - 800015

Implementation of IVFRT MMP in Odisha

This is an exclusive interview with Shri Lalit Das, IPS & Special Secretary, Home Department, Govt. of Odisha on various paradigms along with challenges faced during implementation of Immigration Visa and Foreigner's Registration (IVFRT) Mission Mode Project in Odisha.

NIC: Sir, IVFRT Project is a Mission Mode Project, what is the State Government's initiative/outlook about the project?

Spl. Secy: We perceive this project as a much needed and awaited one. The use of ICT is inevitable in many functionalities of the State Administration. Home Department being the nodal one, has to oversee law and order, police administration including security matters. It is imperative that this project is implemented across the state of Odisha.

NIC: Can you please elaborate the importance of the project to the State Administration and its functionalities?

Spl. Secy: As you are aware that large number of foreigners visits the state as tourists, students, scholars



LALIT DAS, PS & Special Secretary
Home Department, Govt. of Odisha

etc. and as per the Rule 1992 of the Registration of Foreigners Act 1939, registration of foreigners arriving for various purposes is mandatory along

INTERVIEWED BY:
Nihar Ranjan Biswal
Principal Systems Analyst



Range level Workshop on IVFRT at Paradeep, Jagatsinghpur District



Inauguration of C-FRO at Puri by Special Secretary, Home in presence of FRO, Puri, and Dr. B. N. Shetty, DDG & NIC team

with their tracking and ensuring their identity. This is done at various missions, ICPs and FROs (Foreigners Registration Offices) using document scanners & biometrics, updation of foreigner's details at entry and exit points. Sharing of such information with FROs and FRROs is extremely useful over the legacy manual system and helps in tackling security issues along with providing seamless and hassle free services to our foreign guests.

NIC: Who are the major stakeholders of the project in Odisha?

Spl. Secy: The project was initiated under National e-Governance Plan (NeGP) with technical assistance from National Informatics Centre, Ministry of Home Affairs, Govt. of India and BoI (Bureau of Immigration) as the key stakeholders. Other project functionaries are the immigration check points and State SP Offices which act as FROs. At present we have one immigration check point operating at Paradip and we hope

few more to be operational soon after the International Airport becomes functional. State Home Department closely monitors the project along with State Intelligence Department and all SPs/FROs have been instructed to complete the project on priority basis.

NIC: Having recognised as an important project, what steps the Govt. of Odisha is aiming at for its implementation along with possible action plans?

Spl. Secy: The project was initiated in Odisha in the year 2013 with Bhubaneswar FRO chosen as the pilot. Being the capital city - Bhubaneswar receives nearly 2000 cases and a well equipped office with necessary ICT infrastructure with net facility was ideal to select it on priority for launching the project. After running the project for a couple of months, it was planned to replicate it across the state with suitable capacity building at SP offices. Measures like hand holding, district level trainings, workshops, awareness raising among

hoteliers and institutes etc. were taken up simultaneously.

NIC: How the project is beneficial to the State Govt. and in particular to the Police Administration?

Spl. Secy: I would say immensely, as you are aware foreigner's data captured during visa issuance at the mission is seamless and shared across the FROs in districts which in turn is updated as the foreigners move across the country. The data further gets shared online with hoteliers/institutes. They see it as a very convenient way of registration and intimation to FROs which is mandatory for them.

The web enabled application with DSC/VPN based security is available 24*7 to users. Online Form-C module keeps track of registered foreigners while students details are recorded in the Form-S module. C-FRO module while providing services to foreigners also keep track of Pakistani nationals besides performing risk assessment which is impressive. Apart from these, it maintains a vigil eye on illegal immigrants and is a source of information for faster security arrangements in terms of key information accessibility.

NIC: You are involved in this project since its inception, what initial challenges were faced and what are the future plans?

Spl. Secy: We have been targeting to accomplish the implementation of this project across the state at all 33 FROs by June 2015 in accordance to date set by MHA, Govt. of India. Currently, we have completed the district level training and workshops at more than 20 locations and all these locations are operational. The internal stakeholders like Home Department, State Intelligence, Immigration, SP

Offices are working with absolute co-ordination although there are certain issues like frequent transfer of officials dealing with the technicality of IVFRT system and certainly we have to fight with issues like low count of computer literacy among police staffs. The state level workshop conducted last year at Bhubaneswar was extremely beneficial and its importance has percolated to the lowest levels. With accelerated speed, we are now focusing on issues like issuance of VPN token to authorised officers, infrastructure, connectivity at far off locations, training & support etc.

NIC: How do you plan for the sustainability of the project along with upcoming projects like National Database for Arms License(NDAL) and Immigration System at International Airport?

Spl. Secy: State NIC has taken many proactive steps in implementation of the project and I find a perfect balance in the process, technology and programme implementation plan that are required for the implementation and sustainability of the project. We are also aiming for early implementation of the NDAL (National Database on Arms License) whose target date has been set as Oct. 2015. The issuance of Unique Identification Number (UIN) would be substantially helpful in curbing illegal arms sale. State level workshop has already been conducted. We are also installing all H/W, S/W and other infrastructure requirements at the Biju Patnaik Airport - already declared as an international airport. With plethora of projects in pipeline along with excellent co-ordination among teams, we are sure that the project will be running smoothly in the state of Odisha.



State Level Conference on IVFRT at NIC State Centre, Bhubaneswar

NIC: How do you attribute to the State Government and NIC team working for the project? Yourself being an engineer and a tech savvy bureaucrat in Higher State Administration, what are your observations on this project and message to the team?

Spl. Secy: As I have already said that the scale of this project is enormous, starting from districts to the national level it goes to the Indian Mission abroad. I congratulate NIC for implementing this project in a professional way. The team work has been excellent with equal support at the state level, which is essential for the implementation of this project. There is an increasing trend for maximum use of ICT at FRO/SP offices under the project. I sincerely thank Principal Secretary to Govt. Home Department for providing all support as and when required along with DG Police, IG Intelligence, Director Intelligence, Director Airport and SPs at various districts. I also sincerely thank Shri S.K Panda, SIO NIC, Shri Dilip Jena,

TD NIC for their essential support for success of the project. Smt. Sasmeeta Sabat, IVFRT State Co-ordinator incessantly with various departments along with Shri Avinash Mishra for all out success of the project. I express my thanks to Dr. Shefali Das, DDG, NIC New Delhi for assurance in extending all support to the state of Odisha during our meeting at the National Conference and my heartfelt gratitude to Dr. B.N Shetty with whom we have inaugurated the Puri FRO and who is one of the founder of this Mission Mode Project. I also extend my gratitude to Dr. R.K Mishra for his exceptional support and my best wishes to all team members and stake holders working at various levels for the success of the project.

COORDINATED BY:
Dr. A.K. Hota
Senior Technical Director

Challenges in IT Services Procurement in Government



Caviling is not foreign to Indians. With this thought, I am reminded of a fable. Once a very famous painter

kept his ravishing painting for public display and has invited people to list the shortcomings. He felt miserable to find that his painting was inundated with thousands of unsupportive remarks, shattering his self-worth into pieces. After a few days, he recovered from his depressed state of mind and decided to place the same painting seeking solutions to improve the piece and there were none.

My reason of citing this story is to highlight two kinds of people; doers and the backseat drivers. The story is emblematic of the challenges faced in procurement; in fact the word “challenge” also seems minuscule when the complexities are weighed in. Procurement involves an understanding of objective, stakeholders, and deliverables. It includes fixing of resources, formation of Request of Proposals (RFP), bidding & evaluation process, choosing the vendor within required timeline. The key stakeholders in this process include Ministries, Government Departments, Procurement agencies, vendors who can be the Original Equipment Manufacturer (OEM) themselves or their authorized agents/distributors. The entire process has to comply with General Financial Rules & the CVC guidelines. The stakeholders, rules & procedures pose indefinite challenges results in undesired delay.

The procurement commences with formation of different committees. Conflicting interests forms the primary challenge in the entire process. On the

other side, the challenges posed by the prospective bidders relate to:

- 1) Eligibility conditions
- 2) Failure to comply with the stipulated time frame
- 3) Challenges posed to the decisions of the technical committee
- 4) Quotations of unviable rates

Some bidders who are unable to bag the tender often question the integrity of the government officer or send anonymous letters to the ministry leading to the process being viewed suspiciously. Avenues like RTI, CAG, & CVC become their potent weapon for debilitating the system.

Rules are made to avoid anarchy and not flexibility. The rules that are designed to smoothen the process often hinder it. The GFR rules are not conducive to innovation and therefore cradle stagnation. What is required is re-working of these rules to create a stimulating environment and a process like Strategic Alliance in NICS I can be part of the GFR considering specialized nature of ICT niche products.

At times, the rigidity of the committee members ruins the entire process. The rules are the guiding beacons but should never be the over-riding factor, compromising things like efficiency, speed, skill and quality. The system should be the base for overall working and the members should decide the superstructure which should be in tandem with innovation and achieving the primary object for which procurement is made. It is thus imperative to weed out the environment of fear and offer space to the government officials. Entertainment of anonymous/



RAJESH BAHADUR
Managing Director, NICS I

pseudonymous complaints by CAG & CVC inhibits the progress. Audit should be a parallel exercise with processes i.e proactive corrections and not reactive penalization. Let us not make Governance and Procurement contradictions to each other.

Visionary ideas such as Digital India, which promises to transform India into a connected knowledge economy, entails critical sourcing of ICT products. The mindset requires transformation from A (Avoid), B (Bypass), C (Confuse), D (Delay) to R (Responsive), O (Ownership), A (Accountable), D (Decisive). After all, progress is determined when second mindset overcomes the first. Why make this struggle an unending exercise?

For further information:

RAJESH BAHADUR

Managing Director, NICS I

Email Id : mdnicsi@nic.in

Implementing Business Continuity Plans using Active-Active Hosting Strategy

Business Continuity Plan is an essential part of organisation's response planning. It connotes how the business will perform its operation in case of a disaster and how it expects to resume 'business as usual' operations in the quickest possible time following the disaster.

Edited by
MOHAN DAS VISWAM



Business Continuity Plan is made for critical applications that cater round the clock services to the clients, vendors or general public. They endeavour to ensure that the prioritized critical operation continues to be available even in the event of a disaster.

IMPLEMENTING BUSINESS CONTINUITY PLANS

They can be implemented using hosting strategies wherein both the DC and the DR infrastructure are always active. This approach has some additional advantages:

- Costly investments in the DR infrastructure are put to use.

- In case of a disaster, it was observed that sometimes the DR infrastructure was not found to be working to its full capability.

- Reduced requirement of conducting mock Disaster Recovery Drills

TYPES OF ACTIVE-ACTIVE HOSTING STRATEGY

- **Where both the sites are active:** Transactions can occur on either of the nodes and remains pending until it get committed on both the ends. Time lag involved in this approach is about 5 ms round trip time for a distance less than 60 kms.

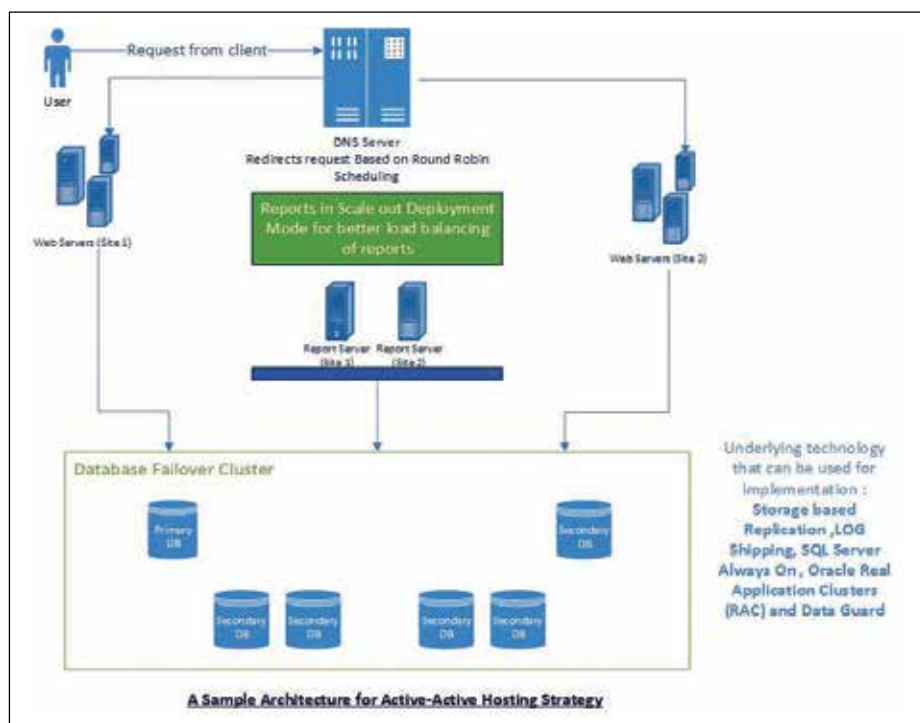
- **When both sites are separately located at relatively far distances:** This offers benefits such as strategic advantages and provides better sustainability, as the chances of a disaster striking at the both the sites simultaneously are less. It can also



DIPANKAR SENGUPTA
Senior Technical Director
dipankar.s@nic.in



MAYANK PRATIK
Scientist-B
mayank.pratik@nic.in



help in providing faster access times to the clients.

In the second strategy, the architecture is very easy to implement and forms a part of now highly popular High Availability and Disaster Recovery Strategies. Applications on both the sites have independent access and do not talk to each other. It is at the database level that there is sharing between both the sites. The Database Nodes can be hosted in a failover cluster and any disaster recovery DB solution can be implemented on these nodes.

The implementation of such an architecture previously required the use of Virtual LANs to form an application or database Geo Cluster (Cluster Across Geographical Locations). Advanced technologies available nowadays have eliminated the creation of VLAN for implementing this architecture which might have entailed huge costs in creating a Layer 2 Tunnel for this purpose.

The database nodes forming the part of the failover cluster uses a witness server to determine the quorum. If the quorum is satisfied, the clustering service is up and running and is able to cater to requests from the clients. The database cluster forms a logical group and is assigned a virtual IP / name. The application connects to this name and the cluster decides which of the nodes own the clusters as of now and is active. The active node caters to the application providing a level of abstraction to the application. The failover of databases can take place but the application is not concerned with these, it just has to make a call to the listener which routes the request to the appropriate node.

The underlying technology that supports this kind of database hosting might involve Storage based replication, SAN-SAN replication, Log shipping or strategies implemented in software viz. SQL Server Always on, ORACLE Real Application Clusters

(RAC) and Oracle Data Guard, SAP HANA (not exactly an active-active strategy) etc. Database Mirroring provides greater database availability by providing almost instantaneous failover. It can be used to maintain a standby database or a mirror database to the primary (principal) server.

Log shipping also operates at the database level and use shipping of logs to maintain one or more standby databases for a single primary database (production server).

ALWAYS-ON AVAILABILITY GROUP

An Always On Availability Group allows failover of a group of databases rather than a single database which is marked improvement over log shipping and database mirroring which were configured at the single database level. Availability groups are designed to support a primary database and a set of corresponding secondary database. An availability group fails at the level of an availability replica. Failovers are not caused by database issues such as a database becoming suspect due to a loss of a data file or corruption of a transaction log.

The primary replica makes the primary databases available for read-write connections from clients. Also, in a process known as Data Synchronization, which occurs at the database level, the primary replica sends transaction log records of each primary database to every secondary database. Every secondary replica caches the transaction log records (hardens the log) and then applies them to its corresponding secondary database.

Always On Availability Groups supports two availability modes:

- **Asynchronous-commit Mode:** This mode supports forced failover (manual with possible data loss) wherein the availability replicas are geographically separated. The primary replica sends the transaction confirmation immediately after writing log records to the local log file.

- **Synchronous-commit Mode:** It works similar to two phase commit protocol and supports Automatic and manual failover both.

Client connectivity to the database of a given availability group is provided by creating an Availability Group Listener. An Availability Group Listener is a Virtual Network Name (VNN) to which clients can connect in order to access a database in a primary or secondary replica of an Always On availability group. An Availability Group Listener enables a client to connect to an availability replica without knowing the name of the physical instance of SQL Server to which the client is connecting.

TAKING CARE OF REPORTING LOADS

Read-only Routing refers to the ability of SQL Server to route incoming connections to an availability group listener to a secondary replica that is configured to allow Read-only Workloads.

If Read-only Routing is configured for one or more readable secondary replicas, read-intent client connections to the primary replica are redirected to a readable secondary replica. Once these are configured, reports can be deployed in Scale-out Deployment Mode by which greater scalability and the ability to balance Reporting Loads can be achieved in a better way.

Implementing this strategy for websites will also help our website meet the needs of critical information Infrastructure protection in line with the National Cyber Security Policy 2013.

For further information:
MAYANK PRATIK
 Scientist -B
 E-mail: mayank.pratik@nic.in

Hazaribagh: Using ICT for Smart Governance

Hazaribagh - meaning city of thousand gardens, part of Chotanagpur Plateau endowed with natural hills, beautiful scenery, excellent climate, mountains & valleys, is situated at a height of 2019 ft above the sea level. About 45% of the district is forest area and is enriched with different types of ores & minerals. Coal is a major mineral and coal mines are major source of livelihood. The district comprises of 2 Subdivisions, 16 Development Blocks and 257 Gram Panchayats.



**SHAILENDRA
KUMAR DEO**

District Informatics Officer
sk.deo@nic.in

Edited by
PRASHANT BELWARIAR

NIC Hazaribagh - established in 1990 has been pivotal in implementing various e-Governance projects in the district.

Many ICT initiatives were taken up from time to time, leveraging the cause of e-Governance, delivery of citizen centric services and promoting transparency in the district administration.

MAJOR ICT INITIATIVES

- **District Portal:** The district portal www.hazaribag.nic.in designed and developed by NIC, Hazaribag is single point access for important information about the district and government programmes. It provides information related to MGNREGA, Old Age Pension, Public Distribution System etc.

- **DBT (Direct Benefit Transfer) Scheme:** Hazaribagh is the pilot district for roll out of DBT scheme. Payment system has been implemented for pension, scholarship, wages etc through Aadhaar enabled bank accounts. Hazaribagh has secured first position in the state and is among the most progressive district in India under the scheme. Technical support is provided to implement payments through DBT in 16 sectors.

- **Social Security Pension:** Under the National Social Assistance Program, all the pensioners are enrolled with Aadhaar No. which is linked to their CBS bank A/c. Nearly 76% pensioners are availing pensions through DBT



SUNIL KUMAR, IAS
Deputy Commissioner, Hazaribagh

ICT improves the interaction between government and citizens, and also increases the administrative effectiveness and efficiency in the government operations. It is the application of information technology for efficient and effective functioning of government processes in order to establish Simple, Moral, Accountable, Responsive and Transparent (SMART) government. NIC Hazaribagh is playing very crucial role in designing and implementing ICT based applications in different government offices of the district. I appreciate the enthusiastic and sincere efforts of District Information Officer, Mr. S.K. Deo and Prime Minister's Rural Development Fellows- Mohd. Karimuddin Malik and Mr. Vinod Chandrwal for the successful implementation of various e-Governance projects in the district.

at their doorstep by using Biometric hand held devices- Micro ATM. The important outcome of DBT rollout has led to the elimination of fake beneficiaries from the whole system.

During the exercise, approximately 10,000 traceless beneficiaries were eliminated from the pension schemes which ultimately created vacancies for new eligible persons.

• **Biometric Attendance System:**

Biometric attendance machine has been installed at 23 offices including District Collectorate, hospital, DRDA, and block offices. All employees have been registered under Biometric Attendance System for marking their daily attendance. NIC Hazaribag processes the summary of attendance and submits it to the treasury for disbursement of employees' salaries.

• **Online Mutation System:** Under NLRMP, an online mutation system was launched recently at three circles viz – Tatijharia, Daru & Churchu of Hazaribagh district. The applicant applies for mutation through online mode and simultaneously land transaction details is sent through SMS to both the seller as well as the buyer and after verification the Register – II is updated.

• **Health:** District administration initiated the payment of Janani Suraksha Yojna (JSY) incentive through DBT to eligible pregnant women. NIC has developed and installed the Hospital Management



System at the District hospital. The software provides single point access to patient information, monitoring of drugs, OPD information etc.

• **e-Mulaqat:** Hazaribagh district launched the e-Mulaqat service for prisoners relatives. Currently, 16 e-Mulaqat Centres are operational in the district. The relatives can talk to the prisoners of Central Jail, through e-Mulaqat Center through video conferencing.

• **e-Nagrik Seva:** e-Nagrik Seva, an application for providing G2C services is implemented through Common Service Centres (Pragya kendras). All the 257 Gram Panchayats

(GPs) have CSCs and each of them is equipped with necessary hardware & software resources. The e-Nagrik Sewa software facilitates submission of application forms by the citizens for issuance of certificates like Caste, Birth, Death, Residential and Income. The citizen interface provides for the submission, tracking and monitoring of applications along with the facility to download forms and guidelines issued by the government from time to time. Authenticity of the issued certificate can be checked from anywhere. Till date more than three lakh certificates have been issued by CSCs in Hazaribagh. The software is providing hassle free services to the citizens.

• **e-PDS:** NIC Hazaribag has issued more than three lakh digital ration cards and the process of data digitization has been almost completed. PDS software has been implemented by District Supply Office with help of NIC to monitor the location of trucks and tankers loaded with ration in the district.



District Level workshop for creating awareness for Aadhar & DBT

For further information:
SHAIENDRA KUMAR DEO
 District Informatics Officer
 E-mail: sk.deo@nic.in

Amravati:

Pioneering in Aadhaar based DBT Schemes

Amravati literally means 'the abode of immortals', is a land of great personalities such as Sant Gadge Baba, Sant Gulabrao Maharaj and Rashtrasant Tukdoji Maharaj. The district, with an area of 12,626 sq. kms is located on the Maharashtra's northern border. It is the fourteenth most populated district of the state with a population of nearly 28.88 lakhs and is divided into seven Sub-divisions and fourteen Talukas. The district is also famous for Chikhaldara hill station and Melghat Tiger Reserve.



MOIZ HUSSAIN ALI
Deputy Director General
siomsu@nic.in



ARUN M. RANVIR
DIO & Principal Systems
Analyst
mahamr@nic.in



MANISH K. FULZELE
ADIO & Scientist-B
mahamr@nic.in

Edited by
ANSHU ROHATGI

The NIC District Centre at Amravati is providing ICT based solutions to the district administration for extending e-governance services to the citizens. It is also supporting various government departments in their endeavor to simplify processes by intervention of ICT and reach the masses through development and implementation of various web based software applications. The district is connected to NICNET backbone at Mumbai through high speed Optical Fiber Channel at 34/100 Mbps and 1 Gbps. Apart from these, extensive deployment of web services & training has played a vital role in improving the skills of district officials in the fields of Information Technology.

AADHAAR BASED DBT SCHEMES

Amravati is spearheading many Aadhaar based DBT (Direct Benefit Transfer) schemes. The UID enrollment percentage of the district is 95.79% and this has given the district administration an opportunity to harness the ICT tools to ensure transparency, terminate pilferage and ensure that the benefits of the government schemes reach the correct beneficiary with minimal leakages. The total population of Amravati district is 28,87,826 out of which 27,66,282 citizens have already been enrolled under UID and 24,80,495 UID cards have been issued to the citizens.

The district was selected in the first phase of Aadhaar based DBT



KIRAN GITTE, IAS
Collector & DM, Amravati

The NIC team at Amravati has made outstanding contribution in Government of India's Direct Benefit Transfer for LPG (DBTL) Project for the year 2013-14, in the district. The amount of work and efforts is praiseworthy and the quality of contribution is exceptional. The NIC Unit has also played a vital role in smooth and successful accomplishment of Parliamentary and Assembly Elections 2014.

implementation in the country. A total of thirteen schemes were selected in the district, beneficiary data was collected from departments & UIDAI, CPSMS and DBT - Application Software was used for the preparation of beneficiary list, data was digitally signed and finally the processing of payments was done using the Aadhaar Payment Bridge of NPCI to credit the payment directly in the bank accounts of the beneficiary. A total of Rs. 27.8 crores were transferred through the system in the district under the project.

• DBT for National Social Assistance Programme (NSAP)

NSAP is a National Policy for Social

Assistance for the Poor and aims at ensuring minimum national standards for social assistance. In Amravati, data of 74,243 NSAP beneficiaries was uploaded in the NSAP-MIS, the number of beneficiaries eligible for DBT was 56,890 and an amount of ₹1761.43 lakh was directly transferred in the bank account of beneficiaries.

• DBT for Janani Suraksha Yojana (JSY)

JSY is being implemented by Health Department for the benefit of pregnant women. The total number of beneficiaries for JSY DBT is 6,655 and an amount of ₹56.26 lakhs has been disbursed through the system.

• Direct Benefit Transfer for LPG

The district was selected for pilot implementation of the DBTL scheme in 2013 and since then out of 38,5765 consumers, 31,9578 have been seeded with UID.

DISTRICT ICT INITIATIVES

• Tapal Tracking and Monitoring System (TTMS)

TTMS is an office automation system designed to keep track of communications received at Collector's Office. It provides the



NLRMP data cleaning work being done at NIC Centre

single point data entry facility of references, letters, DOs and LAQs received at the inward section and the same can be forwarded as per official hierarchy to different officials. It also provides the facility to track and maintain the status of the letters and more.

• Revenue Officers Management Information System

This system has been designed for assessment of target and achievements of Revenue Officers and is used for maintaining monthly information of revenue recovery, food supply, land acquisitions, re-settlement, accounts,

home etc. The system is available on <http://mahasim.nic.in>.

• National Land Record Modernization Programme

NLRMP for e-Chawadi, e-Mutations, e-Mojani and e-Records is being implemented in district. The land records data was converted into UNICODE, corrected, verified for all fourteen Tahsils and is now available at the State Data Centre.

WEB SERVICES

NIC, Amravati is also providing website development and hosting services to the departments. Some of the websites are Amravati District (<http://amravati.gov.in>), Divisional Commissioner (<http://amravatidivision.gov.in>), Melghat Tiger Reserve Project (<http://melghattiger.gov.in>), CCF, Amravati (<http://ccftamt.gov.in>), VNSS Mission (<http://vnss-mission.gov.in>) and Inspector General of Police (<http://igpamravatirange.gov.in>). The district unit is also implementing various central and state projects.



Inauguration of DBT for NCLP Scheme by Shri Rahul Mahiwal, Collector

For further information:

NIC, AMRAVATI

Ph: 0721-2662893

E-Mail-mahamr@nic.in

Kangra:

An Emerging ICT enabled District

Kangra district lies between 31° 21' to 32° 59' N latitude and 75° 47' 55' to 77° 45' E longitude. The entire area of the district is traversed by the varying altitudes of the Shivaliks, Dhauladhar and the Himalayas from north-west to south-east. Dharamshala is the headquarter of the Kangra District and winter capital of Himachal Pradesh. Kangra District is having 8 Sub-Divisions, 27 Tehsils/ Sub-Tehsils, 4 Municipal Committees, 5 NACs, 15 Development Blocks and 3906 census villages.



BHUPINDER PATHAK
DIO & Principal Systems Analyst
pathak.b@nic.in



AKSHAY MEHTA
ADIO & Sr. Systems Analyst
akshay.mehta@nic.in

Edited by
VIVEK VERMA

NIC District Unit, Kangra, established in 1988, has been facilitating District Administration with ICT services and has implemented many ICT projects.

Due to his keenness to see District Kangra at the top of good governance rankings, Shri Prabodh Saxena, IAS and the then Deputy Commissioner Kangra, with the active support of NIC has set up an E-Governance Centre in 2002 within the premises of the Collectorate at Dharamshala. The centre was first of its kind in HP, showcasing several e-governance applications.

IMPORTANT PROJECTS

- **Sarathi:** The software is used to issue Learner's License, Permanent, Driving License, Additional Endorsement and Conductor License to the applicant. Sarathi is running successfully in 8 RLAs and 1 RTO of the district. Screen Test Aid for Learner's License (STALL) is also running in all the 8 RLAs.
- **Vahan:** Vahan is used for new registration of vehicles, issuance of permits, collection of token tax and various other types of transactions on vehicles. The software is integrated with High Security Registration Plate (HSRP) application by the vendor.

• Himbhoomi

Himbhoomi software has been implemented in all the Tehsils. Citizens can avail RoRs at Tehsil Centres and through LMKs (Lok Mitra Kendras). They can also access their land details online at <http://admis.hp.nic.in/lrc/Revenue/nakalJam.aspx>.



C. PAUL RASU, IAS
Deputy Commissioner, Kangra

I wish to take this opportunity to thank the NIC Unit, Kangra for their support and cooperation in implementing the e-Governance initiatives in the district. Kangra was the first district in Himachal to setup e-Governance Centre and its success resulted in replicating the model in other districts.

I believe that NIC will keep up this good work and continue to provide us with technical expertise, innovative ideas and plan of action for implementation of ICT tools for the greater benefit of the citizens.

• HimRis

Himachal Registration Information System (HimRIS) is operational in all the Tehsils/Sub-Tehsils of the district. All type of deeds are registered by the system and has been further integrated with land records.

• Lokpraman Patra

Lokpraman Patra is a software for issuance of 14 types of certificates. It has been implemented in all the authorities of district. The online verification of the certificates is available at <http://admis.hp.nic.in/epraman/Treasury>.

- **HPOTIS:** HPOTIS software has been implemented in the Treasury and all the 14 Sub-treasuries of the district.

- **E-Stamp & E-Salary:** These software are running at 15 locations of the Kangra district.

- **e-Pensions:** The software is running successfully at Treasury, Dharamshala and is being used for generation of Superannuation and Family Pensions of all State Govt. employees.

- **e-Samadhan:** e-Samadhan (<http://esamadhan.nic.in>) is a web-based, role based system for redressal of public grievances/demands in online mode. This has been implemented for all the departments.

- **Shastr:** Shastr is a web based, role based Arms License software for the issuance, renewal, endorsement, deletion of Arms License at District Collectorate.

- **NDAL:** National Database of Arms License has been created for District Kangra and the old data of Shastr has been ported into NDAL.

- **Manav Sampda:** Manav Sampada is a web-based application to manage the full details of employees and to generate service books, transfer orders, Annual Performance Reports electronically.

- **Jeevan Praman Patra:** Jeevan Praman camps have been organized in three Defence Pension Disbursing Offices (DPDOs) to issue Digital Life Certificates to the Defense Pensioners.

- **Red Cross MIS:** The software has been implemented at Red Cross Society, Kangra. It assists in keeping the record of patients who are visiting Physiotherapy Centre and De-Addiction Centre. Cloth Bank is a bank with a difference as it does not deal in money, but in clothes, one of the basic human needs after food and shelter.

SOCIAL JUSTICE & EMPOWERMENT

- **e-Kalyan:** e-Kalyan software is used for disbursement of welfare pensions



Citizens availing services at Sugam Centre

through bank accounts and MOs.

- **e-Pehchan:** e-Pehchan is a web-based application used for issuance of Disability and Senior Citizen Identity Cards.

eROZGAR

This system implemented at all Employment Exchanges in the district, facilitates online registration process for the unemployed youth.

ELECTION SUPPORT

DISE software was implemented for randomization of polling and counting personnel, result compilation and data transfer to ECI during Vidhan Sabha (2013) and Lok Sabha (2014) Elections. On the poll day in May 2014, live webcast of polling process was done from 8 Polling Stations in the district. The facility was also extended for electoral roll management process during PRI/ULB Elections.

The National level projects coordinated and implemented by NIC Kangra are:

- AGMARKNET
- eCourts

- eMamta-Mother and Child Tracking System

- eProcurement-eTendering

- National Animal Disease Reporting System

- Immigration, Visa and Foreigners Registration and Tracking

- MNREGASoft (Aadhaar based)

- ePRI Suite of Applications

DISTRICT WEBSITE

The official website of District Kangra (<http://hpkangra.nic.in>) has been designed and developed by NIC Kangra District unit. The information rich website caters to various stakeholders.

NICNET & VIDEO CONFERENCING

NIC District Unit is connected with NIC State hqrs. through STM-1 with 1 GB leased line to provide smooth connectivity to various departments.

For further information:
DISTRICT INFORMATICS OFFICER
 NIC District Unit, Kangra
 Dharamshala, H.P.-176215
 Ph: +91-1892-222358
 E-mail: hpkan@nic.in

Kota: Making Rapid Strides in ICT

Kota- Rajasthan, situated on the banks of River Chambal is the heart of Hadoti, the land of Hada kings. Blessed with lush green jungles, sprawling golden rocks, majestic Chambal river and ravines, Kota is an amazing synchronization of nature, medieval history and modern day industrialization. The growing educational and coaching culture has put Kota on the limelight. ICT has grown horizontally and vertically in the district and NIC leading from the front has made Kota shine on the ICT horizon.



MUKESH JHA
DIO & Technical Director
mukesh.jha@nic.in



DEEPAK BHATIA
DIA & Principal Systems
Analyst
deepak.bhatia@nic.in

With inputs from Shri Chandan Sen, Informatics Correspondent, Rajasthan

The important ICT projects implemented by NIC Kota are as follows:

E-GOVERNANCE AND COMPUTERIZATION OF MUNICIPAL CORPORATION, KOTA (MCK)

(1) e-Governance Initiatives

- Zonal helplines in city for ease of citizen
- Pehchan Portal for online registration of births and deaths
- File Tracking and Letter Monitoring System
- Online System for removing pendency

(2) Newly Developed System for Pendency Removal

All applications are now received through helplines which are duly entered into the system. Thereafter, applications are processed to the corresponding officials. Time limit for each application is decided to curtail pendency. After each step, marking is entered into the system for easy tracking.

(3) Citizen-centric Initiatives

• Website

The newly designed website of Municipal Corporation is furnished with current news and updates. It enables, citizens to lodge their complaints to their corresponding ward or area. Also, they can check the status of their RTI application, building & construction permission etc. They can also book MCK's community halls online. The website enables citizens to provide their feedback directly to



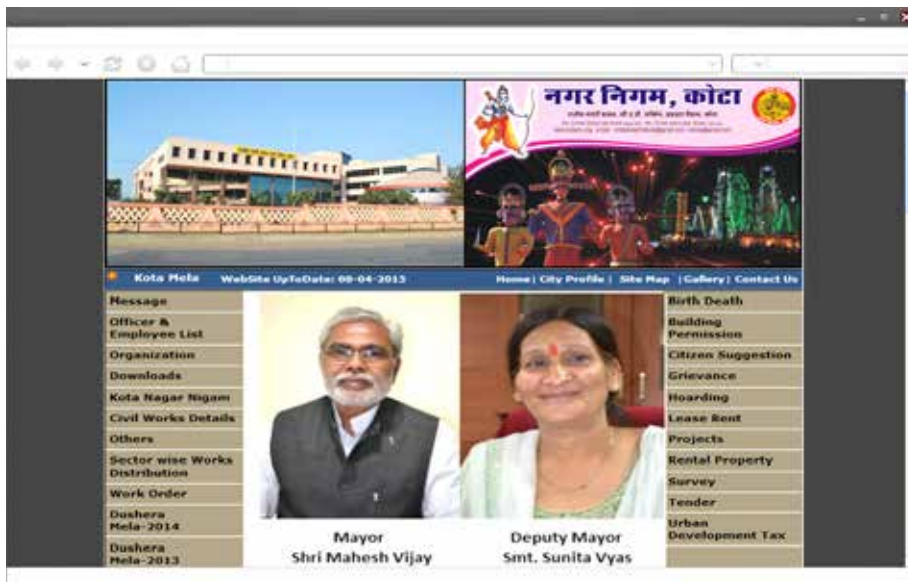
JOGA RAM, IAS
District Collector &
Magistrate Kota

NIC has played a pivotal role in steering e-governance applications in the government departments at national, state and district level enabling the improvement in government services.

MCK for better service delivery.

• Different Modules developed in Nagar Nigam, Kota

- Attendance module for Nagar Nigam employees
- Billing Software/Module for Cash and Health Departments
- File Meeting Software/Module for monitoring and accessing all the files in Nagar Nigam
- Electricity Complaint Module- which helps citizen to register complaints directly
- Automatic Messaging System to distribute the complaint to the respective office and contractor of the complainant's area



LOK SABHA ELECTIONS 2014, ASSEMBLY BYE-ELECTIONS 2014 & NAGAR NIGAM ELECTIONS 2014

(1) M.I.S.

Database has been prepared which contains the following:

- Details of area, Sector Officers and Zonal Magistrates along with Polling Officers attached with them
- Important phone nos. of the Magistrate for Control Room

(2) Live webcasting

Micro Observer, Polling party and Counting party are formed by generating Random numbers. Polling Booth and EVMs allocation to Polling parties was also done by using Randomisation process.

E-COURTS & CONFONET

Under District Court Computerization Project (e-Courts) in Kota, total 9 court complexes having 47 courts are covered. Optical fiber based and copper based networking has been done for 230 nodes. Ubuntu based using PHP & MYSQL and web based application-CIS National Core version 1.1 have been implemented.

Under this application, modules of filing, registration, allocation of cases and file transfer from one court to another have been implemented and installed at complex based local server. Daily data updation from local server to National Judicial Data Grid (NJDG) from 8 court complexes is done on daily basis through VPN or lease line. Also, 4 Mbps lease line has been installed at the District Court Complex.

LAND RECORDS COMPUTERIZATION

LRC data of all 5 Tehsils were converted according to the new version of online software and uploaded on the Jaipur based LRC server. Leased line connectivity has been provided to each Tehsil Office. Distribution of digitally signed ROR has started in the district from Tehsil Centres/CSCs/E-Mitra Centres. Work of mutation feeding & new chousala jamabandi preparation using online software is under progress.

PHOTO BEARING FIREWORKS LICENCES

NIC Kota has developed software for District Collector Office for issuing licenses for fireworks vendors bearing photos during Deepawali festival. The software generates different reports for effective monitoring of licensing process.

APP RETURNS MONITORING SYSTEM

NIC Kota has developed software for App returns. Monthly information is fed into the system. The software generates monthly, fortnightly and yearly reports.





Skoch Award 2014

NATIONAL DATA OF ARMS LICENSES

NIC Kota is generating Unique Identification Number for Arms licence holders using NDAL website.

JEEVAN PRAMAAN

NIC Kota is providing support for generating Life Certificates for Defence Pensioners on the website <https://jeevanpramaan.gov.in/>.

SUPPORT TO COMPUTER SECTION OF OTHER DEPARTMENTS

NIC Kota is providing support to the computer sections of the following departments: Pension Office, FCI, District Collector Office, Divisional Commissioner Office, SP(City), Police, SP(Rural), Police, District Supply Officer, Treasury, Subtreasury, Ramganjmandi and Zila Parishad.

OTHER SUCCESSFUL PROJECTS

(1) Ration Cards Computerisation

NIC Kota has implemented NIC

State Project for newly digitally signed ration card computerization. Scanning and data entry processes have been completed. At present, distribution of ration cards is going on.

(2) Social Pension Monitoring

NIC Kota is aiding in Social Security Pension Scheme monitoring in the district through websites- <http://nsap.nic.in> (National Social Assistance Programme) & <http://rajssp.raj.nic.in> (Rajasthan State Social Assistance Program).

(3) Integrated Financial Management System (IFMS)

Project IFMS has been successfully implemented in all the treasuries and sub-treasuries in the district.

(4) Pay Manager Software

Payroll s/w Paymanager <http://paymanager.raj.nic.in> has been successfully integrated with online budget module for checking the budget availability before passing. The software facilitates online bill

preparation at the DDO level, bill passing and online transfer of payment to bank accounts through secured digital signature of Treasury Officer.

(5) e-Gram Monitoring System

(6) Files & Letter Monitoring Software

NIC Kota has implemented the web based Files & Letters Monitoring software at District Collectorate, Vardhman Mahaveer Open University Kota (VMOU Kota), PHED & NADRS etc.

NETWORKING

NIC, Kota has established fiber optical (BACK BONE) and CAT 6 cable based 136 nodes network using managed switches (11-L2 Switches & 2-L3 Switches) at new Nagar Nigam Building. Switch based and OFC based 50 Nodes Network are being successfully managed at the Treasury, Kota. Optical fiber based and copper based networking has been completed for 230 nodes in case of District Court complexes. NIC Kota is supporting 95 nodes and 7 switch based network in Collectorate, Kota.

AWARDS & APPRECIATION

Nagar Nigam, Kota has received Skoch Award-2014 and ELETS Award-2014 for e-Governance. District Election Officer, Kota appreciated the work done by NIC during Lok Sabha Elections, Assembly Bye-Elections and Nagar Nigam Elections in 2014.

For further information:

MUKESH JHA

DIO & TD

NIC Kota

mukesh.jha@nic.in; rajkot@nic.in

Awarded Products & Projects



Name of the Initiative/Product: SAMVIDA

State: Bihar

Award/s Received: National Award for e-Governance 2014-15, Gold Award in Special Sector Category - "Skill Development and employability"

Description: SAMVIDA, popularly known as online contractual recruitment/volunteer services portal, uses ICT and web-based resources for finding, training, assessing, interviewing and hiring new candidates/personnel under various schemes of State and Central Government. SAMVIDA portal is being used by various departments for selection of candidates for surveys, contractual appointments, short term appointments etc.



Name of the Initiative/Product: Force Deployment Software

State: Bihar

Award/s Received: a) National Award for e-Governance 2014-15, Silver Award in "Innovative use of Technology in e-Governance" b) CSI-Nihlent e-Governance Award 2013-14

Description: Force Deployment Software leverages spatial and textual data to manage deployment of forces during Parliamentary and Assembly Elections and help to generate various MIS reports and facilitate District Administration and Police Administration in decision making process.



Name of the Initiative/Product: Chanakya Software

State: Bihar

Award/s Received: State E-Governance Excellence Award at eBihar Summit, "Excellence in Govt. Process Re-Engineering"

Description: Chanakya is a role based solution for automation of university business process related to Registration and Examination Modules. Registration Module covers the registration of students in the university and it includes Registration Form Data Entry or capturing of students details from OMR sheet of Registration Form through OMR/OCR device.



Name of the Initiative/Product: District Khagaria for best e-governance implementation in a District of Bihar

State: Bihar

Award/s Received: State E-Governance Excellence Award at eBihar Summit, "Award for best e-governance implementation in a District of Bihar"

Description: District Khagaria took the lead in implementing many ICT projects including- installation of 32 Night vision IR CCTV cameras covering all Sections/Departments and open spaces of Collectorate, Khagaria & Sadar Hospital, Khagaria to ensure transparency and public safety, installation of RFID Biometric Attendance System, installation of EPABX Machine covering all 32 Sections/Departments of Collectorate and conversion of Collectorate Campus into Wi-Fi Zone.



Name of the Initiative/Product: Block Jalalpur District Saran for best e-governance implementation in a Block of Bihar

State: Bihar

Award/s Received: State E-Governance Excellence Award at eBihar Summit, "Award for best e-governance implementation in a Block of Bihar"

Description: Block Jalalpur, District Saran is heralding the ICT revolution by implementing ICT initiatives such as digitization of the database of State and Central Pensioners, generation of Bar coded Passbook of all block pensioners, tracking of Pensions distribution at block and Panchayat level, etc.



Name of the Initiative/Product: District Gaya for best e-governance implementation in a District of Bihar

State: Bihar

Award/s Received: State E-Governance Excellence Award at eBihar Summit, "Award for best e-governance implementation in a District of Bihar"

Description: Gaya district has been awarded for Best e-Governance district in e-Governance excellence award function for implementing initiatives in delivering various citizen services under RTPS, Grievance Redressal Mechanism and management of Pitripaksha Mela through ICT tools.*

* e-Plantation, Website of Rural Development Department, Bihar and Rollout of e-Panchayat MMP in Bihar are some of the other projects from NIC, Bihar that have been awarded with "State e-Governance excellence award 2015". For more details on the Awarded Products of National Informatics Centre, Kindly visit at <http://www.nic.in/awards>.



Name of the Initiative/Product: District Junagarh for sustenance towards Excellence in e-Governance

State: Gujarat

Award/s Received: CSI-Nihilent e-Governance Awards 2013-14, "Award for sustenance towards Excellence in e-Governance"

Description: Junagarh, Gujarat has already taken lead in developing and implementing some key projects and as of now all these projects are also running successfully. Some of the main projects implemented in the district include- Revenue Cases Management System, iQIN 4 Planning- Scheme Management System for decentralized district Planning Department, SWAGAT- CM's Online Grievances Redressal System, Vikaspath- Monitoring system for schemes under Panchayat Department, Arms Licensing, Long Term Visa, e-Dhara -Land Records etc.



Name of the Initiative/Product: ReALCraft

State: Kerala

Award/s Received: eINDIA Awards 2014 under the category of Best e-Governance Projects

Description: ReALCraft is a system for issuing Fishing Vessels Registration and Licensing certificate for doing fishing operations in the Indian territorial water.



Name of the Initiative/Product: e-Procurement

State: Kerala

Award/s Received: eINDIA Awards 2014

Description: Government eProcurement software (GePNIC) application developed by National Informatics Centre, caters to the process of online tender publishing, bid submission, bid opening and award of contract, to help bring in transparency in the tendering process. The software is web enabled and built on industry standard software technologies and best practices.



Name of the Initiative/Product: ASHA Soft

State: Rajasthan

Award/s Received: elets-eHealth Healthcare Leaders' Award

Description: ASHA Soft developed by NIC Rajasthan, is a system for performance measurements and online payment of incentives to ASHAs (Accredited Social Health Activist) across the state in their bank account. The system has been developed for Medical Health & Family Welfare department, Government of Rajasthan and has been operationalized from PHC (Primary Health Centre) level.



Name of the Initiative/Product: Open Data

State/ Hqrs.: NIC Headquarters

Award/s Received: CSI Nihilent eGovernance 2013-14 (Award of Excellence) Awards

Description: Open Government Data (OGD) Platform India - data.gov.in - is a platform for supporting Open Data initiative of Government of India. The portal is intended to be used by Government of India Ministries/ Departments their organizations to publish datasets, documents, services, tools and applications collected by them for public use. It intends to increase transparency in the functioning of Government and also open avenues for many more innovative uses of Government Data to give different perspective.



Name of the Initiative/Product: eMutation

State: Maharashtra

Award/s Received: SKOCH Order of Merit Award 2014

Description: eMutation is regarding the updation of Land Records through various types of Transactions on Land Parcels called as "Mutation". These mutations are recorded as Registered Documents or Non-Registered Documents. The mutations for Registered Documents are first done at Sub Registrar Office (SRO).

International e-Gov Update

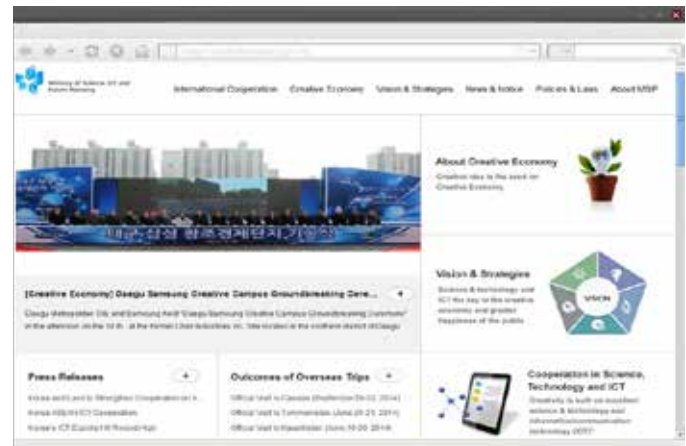
South Korea Unveils its New ICT Vision



he Ministry of Science, ICT and Future Planning of South Korean Government has unveiled the road map and future strategies to accomplish its vision of a creative economy and a happier Korea through science, technology and ICT intervention.

The five strategic visions are- establishing Creative Economy Ecosystem through creative ideas, strengthening existing industries by utilizing S&T and ICT etc; national research development for scientists to pursue research works by strengthening the fundamentals of creative R & D; promotion of software and content as the core of the economy by building world's best network for providing fertile soil for C-P-N-D ecosystem and more; International Cooperation and Globalization through secure leadership in the global community and lastly Happier Korea with wider use of ICT.

To promulgate ICT for a Happier Korea, the Ministry has strategized to use ICT as a tool in resolving various social issues such as Food Safety, Crime Prevention, Social Exclusion, etc. Further, it has been planned to reduce household communication costs by promotion of MVNO Services and phase out of Mobile Subscription Fee. Wider variety of customer choices will be provided by allowing



m-VoIP and other services. A safe and convenient Internet environment will be created by expansion of information and communication infrastructure and with wider use of HTML5, Open and Global Web Environment.

Overall, South Korea has aimed to develop a “creative society” through hyper-connections by the year 2025.

FOR FURTHER INFORMATION:

<http://english.msip.go.kr/english/main/main.do>

Cyber Security Information Portal Launched in Hong Kong



he Cyber Security Information Portal (www.cybersecurity.hk) was launched by the Office of the Government Chief Information Officer (OGCIO), Hong Kong. This Cyber Security Information Portal (CSIP) is a unique resource that provides step-by-step guidelines and cyber security tool information for general users, SMEs and schools to conduct health check on computers, mobile devices and websites. The portal also provides personal tips and techniques to the users on how to guard their websites against cyber attacks. CSIP also inform users with latest highlights of public events, expert advices and stories that

have been contributed by the expert organizations.

CSIP comprises five types of information resources. The Safety Centre assists users with guidelines and tool information to conduct health checks on their computers, mobile devices and websites for keeping them safe from common cyber attacks. Users can learn about the security risks the precautions they can take when performing activities such as online shopping and social networking at the Learning Centre. Industry experts share their valuable experience and views on various information security topics at the Expert Corner while the Event Highlight section provides a list of cyber security-related events for the participation of interested parties. Finally, there is a dedicated Media Centre that provides a whole collection of multimedia materials. Videos are available for the users to learn about various security best practices.

The portal comes with a clear layout and responsive web design for an enhanced user experience. The OGCIO will later arrange for the broadcasting of a new set of TV and radio Announcements in the Public Interest (APIs) on cyber security to protect the masses from the onslaught of cyber attacks.

FOR FURTHER INFORMATION:

<http://www.cybersecurity.hk/en/index.php>



Singapore divulges its "Government With You" Approach with eGov 2015 Master Plan



Gov2015 Master plan of Singapore has been released to usher in a new era in ICT in the wake of advent of Web 2.0, increasingly multi-faceted & dynamic issues and emergence of Gen-Y and Digital Natives. The new master plan is aimed at realizing the vision of a collaborative government through shift in approach from a "government-to-you" to "government-with-you". eGov2015 is focused towards building an interactive environment, where with the assistance of infocomm technologies, Governments, citizens and private sector players could work together in a seamless manner. The three strategic thrusts laid down in the vision includes- Co-creating for Greater Value, Connecting for Active Participation and Catalyzing Whole-of-Government Transformation.

With rapid intrusion of smart phone technology, the Government is planning to leverage its service delivery by deploying more feature-rich and innovative mobile services enabling customers to transact with the government while on the move. eGov 2015 emphasizes on creating new platforms for citizen engagement including crowd sourcing tools for inviting views and innovative ideas from the masses. It is planned to further enhance REACH (or Reaching Everyone for Active Citizenry @Home), the official channel for news and updates on all government consultation exercises by adding new features, such as alerts on new e-consultation exercises for citizens via social media channels and mobile applications.

The Singapore Government will give a boost to the digital infrastructure by designing the next generation whole-



of-government infrastructure to enhance cross-agency collaboration. This will help in harnessing Singapore's high-speed Next Generation Nationwide Broadband Network besides leveraging cloud computing along with energy-efficient technologies.

A central Singapore Government Enterprise Architecture repository will also be established to provide a collective view of government applications, data and technologies. ICT smart public sector workplaces will also be developed to enhance productivity.

FOR FURTHER INFORMATION:

<http://www.egov.gov.sg/>

Department of Science and Technology, Philippines launched Mobile Disaster Communications Service



The Department of Science and Technology (DOST), Philippines in association with international and local partners launched the Moveable and Deployable ICT Resource Unit (MDRU) in the town of San Remigio, Cebu, a municipality ravaged by typhoon Yolanda. The donations for the MDRU have come from the efforts of the International Telecommunications Union (ITU) and the Ministry of Internal Affairs and Communications of Japan (MIC) and the Central Visayas Information Sharing Network Foundation (CVISNet).



MDRU is self-reliant unit running on its own power source and/or is able to harness other power sources such as power generators or local active power lines and can be quickly deployed to restore communications in communities in the aftermath of a disaster.

The MDRU donated by Japan comes in two configurations. The small version contains the necessary equipment and software necessary to provide basic voice and data communications within a small area for up to 500 concurrent users. The attaché case version of the MDRU can do the same for a much smaller area. The MDRU can also act as a data center, it is built in with an Evacuee Management System that allows relief workers, to use their smartphones or tablets to track and tabulate those who have been displaced by a disaster.

According to Ioane Koroivuki Regional Director, Regional Office for Asia and the Pacific, International Telecommunication Union (ITU); "The ITU acknowledges that it is absolutely crucial that in times of emergencies that communications are restored in the shortest possible time, it also recognizes that having the right tools in place to enable this. The MDRU is one such tool that enables the establishment of an ICT network and emergency communications services in the fastest time possible".

FOR FURTHER INFORMATION:

<http://icto.dost.gov.ph/>

Cyber Governance

National Safai Karamcharis Finance & Development Corporation

National Safai Karamcharis Finance & Development Corporation (NFKD) aims to empower the Safai Karamcharis, Scavengers and their dependents and help them in break away from their conventional occupation, depressed social conditions and poverty. The NFKD provides financial assistance in the form of various loan schemes training programmes through State Channelizing Agencies (SCAs) nominated by State Government, UTs and National Banks, RRBs across the country.

The vibrant website of NFKD disseminates latest information pertaining to welfare activities, schemes and Skill training programmes meant for persons engaged in or employed for any sanitation work. The header region of the website provides information related to About Us, Schemes & Programmes, Skill Development Training, CSR, SRMS and Annual Report. The footer region contains Privacy Policy, Archive Feedback, Hyperlinking Policy, Disclaimer, Copyright Policy, Terms & Conditions and Help.

Media Gallery module is also incorporated for presenting the media data i.e. images and videos on the website. Users can also do free text search in web pages as well as in linked documents. A well structured Site Map has also been provided to assist in smooth navigation.

The website provides for a Loan Calculator Application



<http://nkskfdc.nic.in/>

CONTENT: 5 ★★★★★

NAVIGATION AND BROWSER COMPATIBILITY: 4 ★★★★★

DESIGN: ★★★★★

INTERACTIVE ELEMENTS: ★★★★★

the results of which are meant for comparison purposes only. The website comes with the provision of increasing or decreasing the text size. The site also offers bilingual content both in English and Hindi languages.

The website comes with a Feedback section for inviting valuable comments/feedback from users besides providing links for Facebook, twitter, Google+ and YouTube.

NIOS Online For Providing Learner Centric Services

National Institute of Open Schooling (NIOS) aims to cater to the wide spectrum of courses of study up to the pre-degree level for all categories of learners through open school movement. NIOS Portal proves to be very convenient for the learners to access information, independent of time



<http://www.nios.ac.in/>

CONTENT: 5 ★★★★★

NAVIGATION AND BROWSER COMPATIBILITY: 4 ★★★★★

DESIGN: 4 ★★★★★

INTERACTIVE ELEMENTS: 3 ★★★★★

and place. The portal enables learners to take admission in courses on anywhere, anytime basis. The bilingual portal is designed keeping the learners as the centre point for providing quality support.

The indigenously designed website comes with content divided into individual sections. These are- Information Section, Services and Interactivity, Student Information Section, Study Centre Information System, Virtual Open Schooling, Open Educational Resource, Examination System and Support, etc.

In-built Search facility and FAQs apart from the General Instructions and how to fill up the Online admission form, Examination/Results along with Photo Gallery and a Video Gallery have been provided on the Homepage. Information on Tenders, Notices, Library, Awards, Vacancy etc. has also been provided on the Homepage. The footer region of the website provides content related to FAQ, Feedback, Terms & Conditions, Privacy Policy, Help, Accessibility Statement and Sitemap.

The website provides Screen Reader Access and is made accessible to persons with disabilities. It meets the Guidelines for Indian Government Websites and adheres to Level AA of the Web Content Accessibility Guidelines (WCAG 2.0) of the World Wide Web Consortium (W3C). The website seems to be compatible with all major browsers.

Uttarakhand State Portal

Formed on 9th November 2000 as the 27th State of India, Uttarakhand abounds in natural resources and scenic beauty. The State Portal of Uttarakhand Portal contains more than 100 websites of departments, boards, organizations and universities. The portal is customized to update contents as per GIGW guidelines. All websites linked to the portal are managed by different departments independently through single interface.

The information rich and conscientiously designed website provides various information and services to the multiple stakeholders. The Slide Show on the Home Page showcases major events like budget, elections and online services. Uttarakhand at a Glance section displays some important figures related to the state. For ease of navigation, the important information is clubbed under prominent categories on the Homepage including- Uttarakhand At a Glance, Spotlight, State Government Websites, National News, Government Releases and Other Links. Uttarakhand State Link to Sugam Sewa has also been provided on the portal, which contains a catalogue of all online services available in for the citizens.

The footer region of the site hosts information related to Trainings in NIC, Help, Downloads & Plug-ins, Accessibility Statement, Accessibility Options, Contact Us, Privacy



<http://uk.gov.in/home/index1>

CONTENT: 5 ★★★★★

NAVIGATION AND BROWSER COMPATIBILITY: 4 ★★★★★

DESIGN: 4 ★★★★★

INTERACTIVE ELEMENTS: 4 ★★★★★

Policy, Hyperlinking Policy, Copyright Policy, Terms & Conditions, Disclaimer and FAQs.

The portal comes with a well laid Sitemap for easy navigation. The bilingual portal also comes with a Screen Reader Access and text size adjustment features. The portal is compatible with all major browsers.

mKisan

mKisan is a unique and effective web based portal that extensively uses mobile/SMS for its outreach, both for officials as well as for farmers. It provides timely knowledge inputs or advisories to the farming community so as to increase their productivity and assist them in getting best remunerations for their produce through SMS facility. These inputs are in the form of information related to availability of quality seeds, fertilizers, credit, weather

information, proper sowing period and conditions or use of correct type and quantities of pesticides/insecticides by the experts. The project conceptualized, designed and developed in-house within the Department of Agriculture & Cooperation has widened the outreach of scientists, experts and Government officers posted down to the Block level to disseminate information, give advisories and to provide advisories to farmers through their mobile telephones.

Easily comprehensible dashboard with graphical view, mKisan provides complete information on the status of overall number of messages sent as well as number of farmers benefited. Services integrated to the portal include Kisan Call center, Buyer-Sellers Interface, choice of machine & dealer market prices, agro-met advisories, farm-mechanization, micro-irrigation, animal-husbandry, fertilizer testing, dealer licensing etc. Messages from mkisan can be sent to the farmers in the language of their choice at the time of registration for the service.

The diligently designed website contains information related to USSD, Pull SMS, IVRS, Push SMS, Ksewa, KCC, Buyer Seller, Mobile Apps and Reach Us in the header region. The footer region of the website hosts information related to RTI, Help, Terms & Conditions, Copyright Policy, Hyperlinking Policy, Sitemap and Accessibility Statement.

The bilingual website also comes with Screen Reader Access and link for the twitter handle.



<http://www.mkisan.gov.in/>

CONTENT: 5 ★★★★★

NAVIGATION AND BROWSER COMPATIBILITY: 4 ★★★★★

DESIGN: 4 ★★★★★

INTERACTIVE ELEMENTS: 4 ★★★★★

CONTRIBUTED BY: LOKESH JOSHI
Principal Systems Analyst
E-mail: lokesh@nic.in

In the News

Awareness Workshop on Standards for e-Governance organized at Chandigarh

DeitY, under NeGP, is promoting the use of e-Governance Standards in the eGov Applications, to enable them share the information, in a seamless manner. The government departments, at central and state level, are being made aware about the eGov standards notified by DeitY, with the help of seminars, trainings and workshops.

A one day awareness workshop was organised at Chandigarh on 19th December, 2014 for the states of Punjab, Haryana, Himachal, J&K,

Uttarakhand and Chandigarh UT to discuss the adherence to e-Governance standards and interoperability of data across various e - G o v e r n a n c e applications.

The workshop was attended by 100 officials from state governments of the six northern states mentioned. After a brief introduction of e-Governance Standards, sessions were organised on the following standards- Digital Preservation, Metadata and Data standards, Localization standards and Best practices and Guidelines for Indian Government Websites (GIGW).



Participants attending the Workshop

The participants showed lot of interest by asking queries and making the sessions interactive. In their feedback, they wanted more of such workshops to be organised, region wise, and at regular intervals for maximum awareness.

MEENAKSHI MAHAJAN

Comprehensive Online Projects Management System (e-PMS) launched by Chief Secretary of Haryana

The Haryana Chief Secretary Shri D.S Dhesi launched a comprehensive Online Projects Management System (e-PMS) for Haryana State on 9th February, 2015 to fast track stalled projects, involving investment over Rs. 50 crores at Haryana Civil Secretariat, Chandigarh. Dr. V P Joy, Joint Secretary, Cabinet Secretariat, Shri Devender Singh, Principal Secretary IT Haryana, Shri Vijayendra Kumar, Secretary IT Haryana, Shri Ghan Shyam Bansal, DDG & SIO Haryana, Dr. Shubhag Chand, HoD NIC Cabinet Secretariat Informatics Division, Shri Deepak Bnasal, ASIO and Shri Ganesh Dutt, TD & State Project Leader were present on this occasion. In addition, the Administrative Secretaries / HoDs of 16 identified departments of Haryana Government were also present.

The customized link for the Haryana Portal for the e-PMS has been created as <http://cabsecpmg.gov.in/haryana>, for projects value Rs. 50 crores and above.

The e-PMS automates entire tracking

from submission of issues to the commissioning of projects. The milestones include; submission of a new project, editing or updating the projects, reviewing the projects, submission of details relating to bottlenecks.

It also includes preparation of Agenda and Minutes of the meetings that can be generated online and circulated with auto mailer to the Nodal Officers, Secretaries of the Ministries or Departments and invitees. The decisions taken by the subgroup can be entered online in the system. System also provides various types of reports based on query in different format (Excel, Word and PDF). It also facilitates various graphical reports for analysis purpose.

The data of Nodal officers is being compiled from various departments or organizations, as per requirement of e-PMS Haryana. The State Coordination department is the State Nodal department for implementation of e-PMS in Haryana. The State IT Department and local NIC-Haryana are providing all requisite ICT support services for the smooth implementation of e-PMS Haryana.



Participants attending the Workshop

In the first instance, 16 key departments of Haryana including Revenue & Disaster Management, Power, Panchayats, Industries, Mines & Geology, PWD (B&R), Health, Town & Country Planning, Agriculture, etc. have been identified for implementation of e-PMS Haryana, for all the projects involving investments over Rs. 50 Crores, in respect of their sectors or areas of operations.

A two days training will be provided to the State Government Officers or Officials on how to use portal. Implementation of e-PMS in Haryana will start soon after the above the training.

Dr. SHUBHAG CHAND, DELHI

Workshop on Haryana State Projects Management Portal organized at Chandigarh on 18th and 19th February 2015



A Training workshop on ePMS On-line Project Management System Portal was organized for Govt. of Haryana at Knowledge Centre, Haryana Civil Secretariat, Chandigarh on 18th and 19th February 2015.

Training program started with the introductory speech from Shri Ganesh Dutt, Scientist E, Govt. of India. Shri Vinod Kumar. J, Scientist-B, NIC provided the technical insight of the e-PMS portal of Haryana. Thereafter, Shri Vijay Tiwari SO (SB), NIC gave the complete demonstration about the working of the Haryana portal regarding the roles of Ministry/Department users. During the demo all the real examples were used to get connected with the users in a better way. The demo was followed by a Q&A session.

During 2nd session, hands on was conducted for Ministries/Department

users in which all the users were provided with to-do list. Participants were asked to try in accordance to their respective roles. During the hands on adding projects, comments made by the recipients, searching projects etc. were also tried by the users with the help of Shri Vinod and Shri Vijay Tiwari.

Individual queries and doubts were also taken up and resolved after the hands on session. Thereafter, the ministry users were requested to provide their feedback followed by a vote of thanks.

On second day, demo was given to various Ministry/Department representatives again along with administrator activities like accepting the project, preparing agenda and monitoring projects etc. All the tasks were explained in detail, which was followed by the Q&A session, during this the state portal's usernames and passwords were also handed over to the state PMG.

This is followed by hands on session started with three groups of 2-3 members each for admin. During this session



Shri Vijay Tiwari, SO (SB), NIC during hands on session

they were provided with the to-do list of Admin users which lists all the major operations as per Admin role. During hands on the teams were able to perform all the operations including project monitoring and commissioning reports. Master data for Haryana Portal was updated by Haryana State admin team during the Hands on session.

Hand on session was also attended by Shri Vijayendra Kumar, IAS, Director General cum Secretary Electronics & Information Technology, Haryana and Shri Ghan Shyam Bansal, DDG and Scientist G, Haryana State Unit. The workshop ended with the concluding comments by Shri Ganesh Dutt.

Dr. SHUBHAG CHAND, DELHI

NIC Panipat, Haryana rendered ICT Support during launch of 'Beti Bachao, Beti Padhao' Programme



During the visit of Hon'ble Prime Minister Shri Narendra Modi at Panipat, Haryana on 22nd January, 2015 for launch of 'Beti Bachao, Beti Padhao' programme, NIC Panipat Haryana rendered extensive ICT Services and Support. Control Room and Media Centre were established that were equipped with latest hardware and networking infrastructure for PMO officers and SPGs. Apart from this, more than 4500 I-cards were generated for General/VIP/VVIP persons at

NIC District Centre Panipat. For extensive public awareness of this programme, NIC Haryana sent more than 15 lakh SMS during 14th to 22nd January, 2015 from the office of Public Relations/CM Haryana.

A National workshop on 'Beti Bachao, Beti Padhao' programme was organized by Women and Child Development Department, Govt. of India from 20/01/2015 to 22/01/2015 at Panipat. NIC Panipat, Haryana rendered ICT Services & Support during this workshop also.



Hon'ble PM Launching the programme

Media Centre, Secretariat Room and Control Room were established during this period.

NEERAJ, HARYANA

Chhattisgarh eGazette Website launched to facilitate users

On 5th January, 2015, Shri Prem Prakash Pandey, Hon'ble Minister for Revenue, Govt. of Chhattisgarh has launched the "Chhattisgarh eGazette" website enabling users to easily access various published State Gazettes. Open to all, the website <http://cg.nic.in/egazette> lists latest five uploaded Gazettes each in the "Ordinary" and "Extra-Ordinary" categories on its home page. Besides displaying the Gazettes, the website offers users facility to take a print out of the same. Further, there is a facility to search for the desired Gazette based on parameters such as period of publication, department and Gazette

number. The Published Gazettes can directly be uploaded by the Govt. Press through a separate login based module provided for the same purpose.

Hon'ble minister congratulated NIC for providing this much needed facility, reducing the undue delay faced by departments and public in accessing the Published Gazettes. Any user who needs to access a particular Gazette or any part of it can directly search and print it from the website without going through time consuming procedures of approaching Government Press or the Revenue Department. Shri



Question and Answer session in progress

K.R.Pisda, Secretary (Revenue), Shri M.K. Mishra, SIO, NIC Chhattisgarh along with Shri Y.V. Shreenivas Rao, TD, Shri Amit Kumar Dewangan, SA and other officials of Government Press and Revenue Department were also present during the occasion.

Y.V.SHREENIVAS RAO, CHHATTISGARH

Hon'ble PM launched NIC Soil Health Card in Rajasthan

Hon'ble Prime Minister of India, Shri Narendra Modi recently launched the Soil Health Card Scheme (SHC) at Surathgarh (Sri Ganga Nagar District) in Rajasthan on 19th February, 2015 (URL: <http://shc.agnet.nic.in>). The SHC software developed by NIC Rajasthan under the AGRISNET Project is the backend software for the SHC. SIO & DDG NIC Rajasthan Smt. Indu Gupta informed that "The IT enabled SHC software with an interface to the CSC at the gram panchayat with digital signature facility will prove to be a boon for the farmers and immensely help them in improving soil health in terms of fertility and productivity of the crops. Four farmers from the region were given the printed SHC by the dignitary. Webcast of the event was also done by NIC".

Hon'ble Governor of Rajasthan- Shri Kalyan Singh, Hon'ble Minister for Agriculture, GOI- Shri Radha Mohan Singh, Hon'ble CM Rajasthan Smt. Vasundhara Raje, CM's of other states, State Minister Shri Prabhu Lal Saini, Secretary Agriculture Shri Ashish Bahuguna IAS, Shri Ashok Sampatram IAS, Shri Kuldeep Ranka IAS with other dignitaries were also present on the occasion. The PM also released the Soil Health Card logo titled "Swasthya Dhara, Khet Hara" on the occasion. The software has been developed in DOT NET (C sharp) while the database is SQL Server 2008. The project has been initially taken up on a pilot basis in the zone and will be extended to other parts of Rajasthan and all over the country.



Hon'ble PM Launching the scheme

The event was attended by thousands of farmers from Hanumangarh, Sri Ganga Nagar, Bikaner and adjoining areas. The project would generate employment for the kiosk holders and the testing will be done both from the private and government soil testing labs. On the occasion Krishi Karman Awards were also given away by the Hon'ble Ministry of Agriculture, GOI. Doordarshan has telecasted the event live.

CHANDAN SEN, RAJASTHAN

Sixth Trainers' Training Programme on IVFRT-MMP organized in Delhi

A two days long Trainers' Training Programme (TTP) was organized on Immigration, Visa, Foreigners' Registration & Tracking-Mission Mode Project (IVFRT-MMP) on 26th and 27th February 2015 at the Central IVFRT Office, Shastri Park, Delhi. This was the 6th TTP for the participants involved in the implementation of IVFRT-MMP in various state and districts. The TTP started with a formal inauguration by Dr. Shefali Sushil Dash, DDG, NIC, followed by a brief Overview on IVFRT-MMP by her. The entire TTP was customized in such a manner that every module and session was exclusively targeted to the need of state level applications and its implementation.

Technical sessions for the first day started with Shri N. S. Rawat, PSA, NIC along with his team who conducted an important session on "Visa Issuance Process (TVoA) in India & Indian Missions". Session on "BL/PRC/referral process and

issuance of visa of all categories" was taken by Shri G. Christopher, TD and Shri Vikas Nagi, SSA, NIC.

Subsequently, sessions were conducted on Immigration Control System (ICP) and APIS, LOC and ICP Networking by Shri Madhvendra Singh, PSA and Shri Alok Roy Chaudhary, SSA, NIC with their teams respectively. Biometric Enrolment and Verification System along with Deportee Management System was covered by Ms. R. G. Charumati along with live demonstration. Sessions on "VPN technical aspects and troubleshooting client issues and Antivirus" was taken by Ms. Arpita Burman, TD and team.

Technical Sessions on Day-two of TTP were dedicated to the important modules of C-FRO, UCF, Indian Citizenship, NDAL, ALIS, OCI, C-Form, S-Form and Q & A & Feedback sessions. C-FRO module was covered by Shri A. Ravikumar, TD, NIC and his team. The session



Presentation Session during the TTP

on UCF System was covered by Shri Shambhu Kumar, SSA, NIC. Shri P. K. Bhardwaj, JD(I) from IB, MHA addressed the participants and also clarified many emerging queries of participants.

Further sessions on Indian Citizenship (IC) and National Database on Arms License (NDAL) were presented by Shri Meghasyam Yedla, Scientific Officer and Shri Vikas Khatri, Scientific Officer, NIC with their respective teams. The presentation on "Overseas Citizenship of India" was given by Shri Jitesh Sharma, SA, NIC. The presentation on "Arms Licence Issuance System" was delivered by Shri G. Christopher, TD, NIC and his team.

N.K PRASAD, DELHI

Digital Archival of Records for Phase-1 and Phase -2 of Delhi Metro Rail Corporation (DMRC) launched

Online repository for storing DMRC official records was formally launched by Delhi Metro Rail Corporation MD Mangu Singh on 16th February, 2015 at Metro Bhawan, New Delhi. Shri RP Saxena, DDG, Shri SB Singh, DDG and Dr. Surinder Kumar, STD of the NIC and other members of Digital Archiving and Management Group of NIC, were present during the inauguration. The repository is created using open source digital archiving software 'DSpace' with backend 'PostgreSQL' database in the Linux environment.

Digitization helps in organizing and preserving the information scattered

in various forms. Digital technology has brought about a large number of changes in the modernization and automation of work processes in various organizations by making the processes more efficient, transparent and productive.

It offers various advantages like easy accessibility and retrieval, protection of data authenticity, data security besides the possibility to save and store in the multiple formats. Once digitized, processing is easier and faster compared to the manual system. Furthermore, digitization enables access at multiple points at the same time.

DMRC online repository is presently having twenty one different collections



Participants at the launch event

corresponding to different sections and departments of DMRC, with more than eight thousand records amounting to one terabyte of data have been uploaded and are hosted at the National Data Centre at Shastri Park. These records are accessible through Intranet at DMRC offices at Metro Bhawan and Ashok Road.

NIVEDITA AGGARWAL, DELHI