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Mark Certificate Verification System -Tamil Nadu

National Cloud- A Journey towards Digital India

Joint Seat Allocation System

Aadhaar enabled Public Distribution System

JailVaarta- A system for Video Conferencing with Prisoners

ASHA Soft- Online Payment & Performance Monitoring System -Rajasthan

District Una- Ahead in e-Governance

INFORMATICS

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EDITORIAL

loud enables flexible, agile & innovative means of delivering citizen services by government. National Cloud set up by NIC is the first of its kind under Meghraj, the cloud ini-

tiative of Government of India. We are humbled by the overwhelming responses from government departments and organisations across the country to avail our cloud services. In this issue, we carry details on the features & value added services offered by National Cloud of NIC



The 'E-gov Products and Services' section in this Issue updates you with some of the important initiatives and services in the different parts of the country such as 'Jail-Vaarta'- System for Prisoners' Video Conference with Relatives, NITI AYOG Online Internship management system, Joint Seat Allocation System, e-Archives- Online Cataloguing System Odisha State Archives, Mark Certificate Verification System for Tamil Nadu etc. The 'Technology Updates' section, we carry the details on achievement in PUE effectiveness of National Data Centre, Shastri Park, Delhi.

Our regular sections such as 'Cyber Governance', 'International e-Gov Updates' and 'In the News' provide you brief updates on the latest technological advancements in the country as well as around the world.

NIC has bagged numerous awards in recent ICT events across the country. 'Accolades' section showcases pictorially the awards conferring ceremonies, including Smart City Awards 2015, Smart Governance Awards 2015 and Leaders Award 2015.

We would appreciate your feedback and suggestions to improve the content and presentation of the magazine so as to make it more useful and interesting to its readers.

Wishing you all an enjoyable festive season ahead.

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

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Dr. Shefali Sushil Dash Deputy Director General, NIC & Chair, Advisory Panel, INFORMATICS



Y journey with NIC started way back in 1986 and with deepest feelings of sadness I realise that it is coming to an end this month. However, the journey has been eventful, exciting and immensely satisfying. Several milestones achieved during my years in NIC leave me with a feeling of admiration and pride for the organisation and for its personnel who have made them possible.

I remember the time when I joined; NIC had just shifted its headquarters from Pushpa Bhavan to its present location in CGO Complex. The mainframe Cyber System was being phased out and the supercomputer NEC was being operationalised. We had to access the system from the few terminals installed in each bay. What a change from that time to the present when everybody use desktops / laptops, which are many times more powerful than the so called supercomputer of 1980s! In those days NIC was providing computerisation support to central ministries/ departments in their office automation initiatives. During 1987-88, NIC set up NICNET, NIC's network services by installing VSATs at the state capitals. Subsequently NICNET was extended to the districts, resulting in ICT led development across the country, bridging digital divides. It has been a major achievement that all ministries/ departments are now using this network to receive useful data from the fields, in many cases on real time basis. National Knowledge Network (NKN), the high-speed digital backbone, connecting all knowledge institutions across the

country, complements NICNET in furthering its reach.

During the last decade, focus has shifted from office automation, Management Information Systems (MIS) and Decision Support Systems (DSS) to e-Governance and citizen centric services. During this paradigm shift, NIC has geared up to prepare ICT roadmaps and e-Governance plans for various central ministries and state governments and also help in their implementation. NIC's evolution from having a few cells in some central ministries to a leading organisation supporting the Government in its major eGovernance initiatives such as MyGov, Meghraj, eTaal, Dial.gov, etc., has been nothing short of phenomenal. NIC, through its offices in all 36 states/ UTs and 650+ districts, provides ICT support to the state and district administration across the country. Furthermore, NIC holds the distinction of being the largest Indian Government email service provider with more than 9 lakh accounts. The data centres of NIC host 8000+ government websites with more than 80 lakh users accessing them every day.

A thousand miles' traverse begins with one single step. Now that the time has come for me to bid adieu, I am proud of the fact that we rightly took that one step. I am sure that NIC will continue its endeavor to accelerate e-Governance processes at all levels of governance and keep surging ahead.

> - Dr. Shefali Sushil Dash (dash@nic.in)

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e-Archives: Online Cataloguing System for Odisha State Archives, Bhubaneswar

The system helps citizens, research scholars, historians, thinkers to know more about the history of Odisha, its rich cultural heritage, freedom movement, old publications, newspapers etc. This online Cataloging System has eliminated the tedious process of people visiting Odisha State Archives and manuals making request for viewing archival records.



Dr. R. N. BEHERA Senior Technical Director mbehera@nic.in

Edited by PRASHANT BELAWARIAR

-Archives is an online cataloguing system developed by NIC for Odisha State Archives(OSA) to facilitate

systematic collection (scanning and storing), preservation, management, publication and educational use of the rare records and historic documents digitally. One of its kinds, the e-Archives software is useful especially to the research scholars, teaching faculties and students as they can have online access to the rare and archival records of the rich culture and heritage of Odisha. Besides the catalogued documents, e-Exhibition and various other books & publications are also accessible through this portal.

e-Archives enable its users for online searching of the various available documents in catalogue formats. For the purpose of detailed study and researches, scholars can register through the portal of e-Archives. Once registered, using the user ID and password provided along with the confirmation SMS received on their mobile and e-Mail, the registrants can visit the OSA centre to access desired information in detail from the database of the Centre's local server.

PROJECT BENEFICIARIES:

Though the **e-Archives** is accessible online to citizens at any time from anywhere, the main target users of the project are:



⁶⁶This generic product 'e-Archives' developed by National Informatics Centre, Bhubaneswar is unique of its kind and helps citizens, research scholars, historians, thinkers & writers forum to know more about the History of Odisha and its rich cultural heritage, freedom movement, old publications, newspapers and many more.

> Manoranjan Panigrahy, IRS Commissioner & Secretary Department of Culture Govt. of Odisha

1. Odisha State Archives

2. Research scholars, teaching faculties, students and writers

Archiving process: With the use of high-end digital scanning machines connected to computer systems installed at OSA, various important historic documents including the rare antique books, micro films etc. related to undivided Odisha, Bihar and West Bengal are scanned and digitally stored. These are archived at the local server with a LAN connection to about 50 computers.

Previously, citizens and researchers from across the globe used to visit personally to the Odisha State Archives (OSA) and make requests to view archival records in person. This involved carrying out various permission formalities and processes. It was not permissible to take records outside of the OSA premises and neither was permitted to scan, take any digital print or photo of the records. With the introduction of the e-Archives concept, anyone can access the digitized records online cataloguing system anytime (24x7x365), and search any desired document. Only the first and last page can be downloaded and the printouts can be taken for the same. For further research and knowledge on the subject, author etc., he/she can visit the OSA computer centre and access details through offline e-Archives system available through LAN which is available from 10.00 AM to 5 PM during which they can take printouts and soft copy.

PREVIOUS CHALLENGES:

In the past, one had to visit the Odisha State Archives (OSA) for making the requisition and access the Archival records. Necessary permission procedures were also required to be followed which were tedious and time consuming. Besides, it was permitted only for reference by reading. Taking records outside the OSA premises was restricted and neither the records were allowed to be scanned or captured using camera.

The concept of **e-Archives** eliminated the above challenges and with its efficient search features, easy access has been made available to everyone.

Citizens can pinpoint the search and can find out the availability of the document, read, download & print the first and last page of the document.

For detailed study of desired document in full, one can visit the OSA as mentioned earlier.

MODULES OF E-ARCHIVES:

e-Catalogue Module: With this on-



line catalogue module, a visitor can view the various categories of archival documents and can read the first and last page online as described. Various other categories include books, records, private collections, gazetteers, journals & periodicals, microfilms and maps, archives of voice recordings of freedom fighters are stored digitally and can be access through this portal. The e-cataloging are made as per the subject/topic area, year, author details etc. This module also facilitates advanced searching on all archival records.

MODULE FOR ONLINE APPLICATION FORM FOR RESEARCH PERSONS:

This is an online application form for those researchers who are interested to become members for the purpose of study and research at OSA. Once applied through the registration form online, the applicant receives an SMS through their mobile and e-Mail. On successful completion of the approval process, the applicant gets registered to OSA.

SCANNING & DOCUMENT MANAGEMENT MODULE:

This module facilitates options for scanning documents at various de-



Screenshot of e-Archives web portal



sired resolutions. Moreover, the module has features for image cropping and optimizing, save and storing the images and data to the local server at OSA.

DEPLOYMENT AND SCALABILITY:

e-Archives application has been deployed at the NIC Data Centre New Delhi. The application has been designed to manage steady traffic in addition to load balancing during occasional heavy traffic by adopting Modularity, Session variables etc. The application has been thoroughly tested and audited for cyber security and a strong network and application security has been maintained. **e-Archives** application software has been designed and developed considering its scope to scale up for the

purpose to use it generically across the nation.

COST BENEFITS:

1. It is financially beneficial to the users availing the services through **e-Archives** portal as no service charge or logistic or indirect cost will be incurred to them.

2. The facility can be provided at a very nominal charge if the user can visit the CSC.

3. Significant stationary cost minimizing could be achieved as the reports used to be submitted in the form of hardcopy earlier can now be replaced with soft copy.

4. As the archiving is an ongoing process, necessary scanner facility and servers has been established at OSA computer centre in order to scan, process and store new documents continuously.

The website of **e-Archives** has been developed with responsive design to enable the users of desktops, laptops, various hand held devices such as tablets and mobile phones to conveniently view the web pages by auto screen adjusting layouts.

BACKEND TECHNOLOGY:

Server-side scripting: PHP

Database: PostgreSQL/ Enterpise-DB (EDB CE PGSql Community Version with solution pack)

OS: RHEL6.2 Server

Web Server: Apache Tom-

cat 6.0

CMS: Drupal (for portal management)

Conclusion: This generic product is robust enough to take care of even scanning and storing high-resolution images in its database. **e-Archives** has been proposed for hosting National Cloud, MeghRaj. In the next phase, all the inventory and data stored at LAN server are planned for storing and hosting at Cloud environment. e-Archives can be an efficient roll out model which can be considered for adoption by other states also.

Visit: http://odishaarchives.nic.in

For further information: Dr. R. N. BEHERA Sr. Technical Director NIC, OSC, Bhubaneswar rnbehera@nic.in

JailVaarta: Innovative software to facilitate Video Conferencing of Prisoners with Relatives

JailVaarta is a simple, economic and effective solution providing prisoners and their Relatives an easy way to interact without visiting Prison. More than one person can interact through this online system at the same time. This system helps in saving both money and time. JailVaarta would help motivate prisoners to reform their lives and after the prison term to turn out as orderly citizens in the society.



AJAY SINGH CHAHAL Scientist-F and SIO ajay.chahal@nic.in





Edited by

VIVEK VERMA

ailVaarta is an innovative application developed by NIC, for primarily facilitating the prison inmates and their relatives to interact conveniently without the relatives visiting prison. In our society people, especially women show reluctance to visit prisons due to the social stigma attached and the complexities of procedural formalities for such visits. JailVaarta's online video conferencing (VC) facility is an effective solution for this, as even the request for the facility can be made online. This initiative, first of its kind in India is second in the world, next to Singapore.

OBJECTIVE

The prime objective of JailVaarta is to enliven the hope of prisoners to reform their lives and after the prison term to return as orderly citizens in the society. JailVaarta helps to eliminate complexities and expenditures incurred for arranging visitor-prisoner meetings and also enable investigation officers to question the under-trials without the court's permission to take them out of prison.

THE PROCESS

JailVaarta is a simple, economic and effective solution, which uses the NIC Vidyo Portal software and a web cam with internet enabled PC. No other specialized client software is required at the user- visitor end. Relatives are required to go through the following steps in order to conduct a video conferencing session:



⁶⁶ JailVaarta has been a great service and is motivating prisoners who are now engaged in activities like bakery, laundry, mobile food canteens for a better tomorrow once they are released. This is the main intent of our department and JailVaarta is helping a lot.

SOMESH GOYAL, IPS Director General of Prisons & Correctional Services Himachal Pradesh

1. Visit the website of HP Prisons and Correctional Service Department, Himachal Pradesh.

2. Click on to the link 'JailVaarta' and provide details of prisoner and visitor, such as name, age, visitor's ID details, email, mobile number etc.

3. Agree with the terms that the recording of entire JailVaarta session would be carried out and kept for reference and investigation purposes when required.

4. The Jail Authorities will then receive a request through the online system (based on Login/Password). A decision is taken by the authorities based on the merit to allow or reject the Video Conferencing.

5. Once the permission is granted,



the visitors/relatives will receive a PIN number and a hyperlink through SMS and E-mail for conducting VC on a set date and time.

The courts and investigating officers can also interact with the accused in prisons through VC. The above diagram shows how a session of JailVaarta is facilitated:

IMPLEMENTATION

The JailVaarta Application has been successfully implemented in all the 20 prisons (2 Model Central Jails, 9 Sub Jails, 7 Open Air Jails, 1 District Jail and 1 Borstal Jail) of Himachal Pradesh.

The main user community is relatives of the prisoners lodged in the 20 prisons of Himachal Pradesh. About 655 VCs have been conducted successfully out of the 1092 VC requests received so far. Of these, 20% requests were from foreign countries such as UK, USA, Finland and Russia. About 50% of total prisoners have made use of this facility during the last two years.

The second main users of JailVaarta are the prisoners. It helps them to remain in touch with their beloved with the hope of a better future after the prison term.

The Police officials, Lawyers and

NGOs are the third important users. JailVaarta enables them to interact with the prisoners for official purposes or to facilitate requirements on humanitarian grounds. Besides, Himachal Pradesh Prison Authorities use the application as the security arrangements to be made is minimal to conduct the prison-relative interaction.

BENEFITS

- More than one person can interact at the comfort of being at home.
- Prisoner can get a feel of the home environment.
- Can avoid relatives' social stigma attached in visiting prisons.
- Saves commuting time and money.
- Improves convenience of the authorities by reducing visitor crowd at the prison premises.
- Can facilitate interaction with lawyers, counselors, preachers etc.
- Beneficial to reduce any corrupt practices or avoid any discretion in granting permission for visitor-prisoner meeting.
- Can avoid contraband or illegal items being passed on to the prisoners.
- Lesser security arrangements required eluding prison escapes.

• Enables the investigating officers of police to question the under-trial prisoners without permission of the Court.

TECHNOLOGY

The JailVaarta software developed by NIC Himachal Pradesh is an important component of the website of Himachal Pradesh Prisons Department (http://hpprisons.nic.in). Developed with ASP.NET technology for sending VC permission/approval requests, JailVaarta uses NIC's Vidyo portal, as all the prisons of HP are having Desktop VC accounts. It has been integrated with the e-Prison software for fetching record of prisoners for booking the VC requests, which are also implemented in all the HP prisons. JailVaarta has been integrated with Aadhaar number of citizens residing in Himachal Pradesh and the data is fetched directly from Aadhaar database.

For further information: State Informatics Officer National Informatics Centre HP Secretariat, Shimla-171002 Phone: 0177-2624045 E-mail: sio-hp@nic.in

e-Services for Council of Higher Secondary Education – A successful approach in Manipur

This system has now made it easy to access latest notifications, Recognized institutions, Special scheme, Curriculum and Syllabus for class XI and XII, Academic calendar. Download forms etc. Made for the council of Higher Secondary Education, the system has proved to be a successful approach especially for students living far away from Imphal. It is a great help as they can easily receive result reports such as provisional mark sheets, subject wise toppers list and Top 25 Ranked students list.



MAIBAM IKEILEN Scientist-B ikheilen@nic.in

Edited by RUBAIYAT ALI

IC Manipur has been providing ICT services to the Council of Higher Secondary Education, Manipur (COHSEM)

since the year 2003. In the year 2004, the Application software for computerization of the entire process of examinations conducted under this council was developed and the results of these examinations were declared and made available through the exams portal http://results.nic.in. Moreover, various result reports such as Provisional mark sheets, Subject wise toppers list, Top 25 ranked students etc were made available through web, which was of tremendous help to the students, especially to those living far away from Imphal.

OTHER IMPORTANT SERVICES PROVIDED TO COHSEM

- Web portal of COHSEM
- Enhanced version of the Computerization of Examination Processing System.
- Online Enrollment System
- Web portal: The official web portal of the COHSEM (http:// cohsem.nic.in) was developed and hosted by NIC Manipal. Using the latest website development software such as Dreamweaver CS4, the site was developed and hosted at the NIC Servers. Latest Notices, Organizational Structure, Recog-

nized Institutions, Special Scheme, Curriculum and Syllabus for class XI & XII, Academic Calendar, Download Forms etc. are made available through the portal.

• Examination Processing System: Developed for the Council, the Examination Processing System is reliable and robust solution to overcome the lengthy process of conducting annual Class XI and Class XII examination. Modules and features of the systems are as:

1. **Enrolment:** Each year, details of students enrolled in Class XI and Class XII are updated in a centralized database by every schools and colleges affiliated to this council. This is by submitting the students' data in MS Access Database files with authenticated hard copies. The Council then generates enrolment numbers for each student from the database for future references.

2. **Registration:** The system generates registration numbers of the enrolled and valid students who are eligible for appearing in the HSE examination.

3. **Issue of Roll Numbers:** The roll numbers of the students who will be appearing in the examination are generated.

4. Allocation of Centres: Students are allocated with the Centre of Examination by mapping with the capacity of each Centre.

5. Codification/Decodification of Roll Numbers: For the process of evaluation of answer scripts, codifica-

tion and decodification of Roll Numbers are carried out.

6. **Evaluation:** The Council maintains a list of evaluators for subjects for every exams which they conduct. The evaluators are then assigned the answer scripts according to the subject they are competent in. The marks statements after evaluation are then submitted to Council for tabulation.

7. **Tabulation of Marks and Processing:** The marks collected from the evaluators are then consolidated for each code and corresponding subject. The system can generate various reports such as pass percentage, number of students in each division, highest marks etc.

8. **Results declaration:** The results are declared with various reports such as Provisional mark sheets, Passing Division wise, Subject Group wise, Subject wise toppers, Top 25 ranked students, Statistical Abstracts, etc.

9. Issuance of Mark sheets and Certificates: Finally the Mark sheets and Certificates are issued, in which the status of each student candidate of the Council Examination is reflected.

Development Technology/ Software: The System was developed using VB6, MS-SQL Server and Crystal Reports. Results are published on the



NIC website http://manresults.nic.in.

• Online Enrollment System:

This web-based application is a part of *Examination Processing System*. The objective of the application is to automate the data submission by allowing schools to download a blank MS-Access database from the site, enter data into the database in offline mode and further upload the filled-in MS-Access database to the website directly online.

Then the system generates unique enrolment number for each student. Through this web application, taking print out of broadsheets is also made available. This system serves the enrolment process through both online and offline mode. This enables saving of time and money for the schools. The system also checks student's records and help verification of reports



to detect duplicity of the student enrolled in different schools.

The Online Enrolment System has been developed using MS-Visual Studio 2010 using Asp.net and MS-SQL database. The system is a part of the website http://cohsemmanipur.nic.in which was hosted successfully after completion of the security audit process by the Cyber Security Division of NIC.

Each school affiliated to the Council is given User ID & Password after registration in the system. Only the valid users are allowed to upload and submit the students' data online. The system generates enrolment numbers for the students and broadsheet online, which can be downloaded by the school authorities.

WAY FORWARD

- System for online payment of fees by school to the Council
- System for SMS and email alert to the students on information updates like Registration notification, Examination routine, Exam Centre notification etc.

For further information: KH. RAJEN SINGH STD & State Informatics Officer NIC, Manipur State Centre E-mail: sio-man@nic.in

Mark Certificate Verification System for Directorate of Government Examinations, Tamil Nadu

Mark certificate Verification System incorporate 2D barcode which contains verifiable items in encrypted formats which can be used at places where internet connectivity is not available. This system has provided an easy access to the secured verification services for Government, Public and Private Organizations. Mark Certificate Verification is possible using hand held devices at anytime, anywhere.



V.S. RAGHUNATHAN Senior Technical Director raghunathan.vs@nic.in





Edited by **R. GAYATRI**

he Directorate of Government Examinations conducts massive board examinations, for which they issue about Eight

lakhs of Higher Secondary Course Certificates, Twelve lakhs of Secondary School Leaving Certificates and Fifty thousand Diplomas for Elementary Education every year.

The **National Informatics Centre**, Tamil Nadu State Centre has designed and developed an Online Marks Certificates Verification System to provide easy access to the Secured Verification Services for Government, Public and Private Organizations. The system is set to verify about twenty lakhs certificates per annum.

OPEN STANDARD ENCRYPTED ONLINE 2D BARCODE AND ENCRYPTED OFFLINE BARCODE

The Mark Certificates have been re-designed incorporating open standard encrypted 2D barcode to facilitate online verification of certificates. 2D QR Bar code Encoder component is used to create the encrypted and encoded 2D QR Bar code images for printing on all the mark certificates for generation and verification anywhere in the country. This component is flexible enough to be used by any State and for generating any certificate. All the options such as barcode encoding and decoding are open to the Application Service Provider (ASP) for integration in their software while printing the mark certificate. "Generic 2D Bar Code Creator for any Marks Certificate" is registered in egov app store for horizontal and vertical replication.

The Offline Barcode enables additional verification to the existing online option. This contains entire verifiable items in encrypted format which can also be used at places where the internet connectivity is not available.

VERIFICATION VOLUME

Candidates seeking admission for higher studies in Medical/ Engineering Colleges, Poly-Technic Colleges and also for getting employment are required to go through Mark certificate verification. Hence, about 15-18 lakhs of marks certificates are to be verified every year.

MANUAL VERIFICATION PROCESS

Manual verification process begin with taking records physically by the available resource persons of the Directorate. After completing the entire process, the Genuineness of the mark certificate will be dispatched by Registered/ Speed Post. This procedure is for verifying each and every photo copies of the mark certificates (Higher Secondary/S.S.L.C. & D.E.E Examination I & II year) received by the Directorate every year.



CHALLENGES IN MANUAL VERIFICATION PROCESS:

- Completing verification process in the same year remains a challenge due to shortage of resource and inherent delay in manual verification
- Occurrence of errors handling the work manually
- Damage of records due to frequent manual handling
- Difficulties in deploying additional manpower

KEY FEATURES:

- Open standard encrypted 2D QR code on Mark certificates for online verification anytime, anywhere.
- Open standard encrypted PDF 417 2D linear barcode on Mark Certificates for offline verification as an additional security option.
- Automated Batch Verification for speeding up the verification for bulk verification from institutes.
- Direct Batch Verification for certif-

icates in batches received directly from Government / Unregistered Institutes by DGE.

• With necessary authentication, staff selection commission, employment exchange, Govt./Pvt. recruitment board, engineering/ medical counselling board etc. can make use of the system.

- Saving of cost, time and resources because of automated verification and minimize the verification process.
- Offline Mark Entry Module available for convenient offline entry at institutes which speed up the process and without the concerns of network speed and server load.
- On-Line verification services available at multiple levels as per the authorization of DGE.
- Mark Certificate Verification Mobile app at anytime, anywhere.
- Counter services for the additional services such as issuance of Certified Copies, Migration Certificates and Certified Extract of date of birth etc.

IMPORTANT MODULES:

Automated Batch Verification (Online Mode):

In the Automated Batch Verification, a batch is created by each institution with necessary details, marks of each individual students are entered, con-



firms the marks entered and then submitted online to verification by DGE. On acceptance of the batch, automated verification is done by comparing the marks entered by the Institution against marks in the database available with DGE. Necessary verification reports are further generated and sent to the respective institutes. Following are the advantages and features:

- The implementation of automated verification will cut down the entire process of manual verification process.
- Facility for the registered Institutes to submit on line batches for verification.
- Verification of the entered marks against the Department Marks Database.
- Verification Report generated signed by the DGE official and then sent to the respective Institutes.

Automated Batch Verification

Offline Mark Entry Application has been developed in order to speed-up the data entry by the institutes, an offline application based on HTML5. Institute users can download this module, which can then be copied to their local system and further the data can be entered in offline mode (without the requirement of internet connection). They can then export the data and upload to the application server for verification.

Direct Batch Verification:

- This option is normally used by Government Departments to submit batches for marks certificates verification.
- Verification done manually by us-

ing open standard 2D Barcode/ Register Number.

- Facility can be availed by any unregistered Institutes also.
- Verification Reports can be generated based on the manual securitizes and signed by the DGE Officials, which are then sent to the respective Government Departments.

Counter Services Module for Issuance of Certified Copy of Marks, Certified Extract of Date of Birth and Migration Certificate.

This module has been developed and implemented for automation of Counter Services helps to minimize the time taken for actual issuance of the following certificates at Directorate of Government Examinations:

- Certified Copy of Marks (CCM) for HSC
- Certified Copy of Marks (CCM) for SSLC
- Certified Extract of Date of Birth
- Migration Certificate (MC) for HSC
- Migration Certificate for SSLC
- Certificates given on the same day/ next day

TECHNOLOGY:

Operating System: CentOS (App Server), Windows (Database Server)

Technology Stack: Java Struts2 Hibernate and HTML5 / CSS3

Database: MS SQL Server

For further information: P. KRISHNA PRASAD State Informatics Officer NIC Tamil Nadu State Centre Chennai 600090 E-mail: sio.tn@nic.in



Online Internship Management System for NITI Aayog

Online Management System provides a convenient and transparent procedure for selecting young individuals so that the appropriate candidate gets selected. This system has replaced the ongoing process of manually receiving and scrutinizing the applications for final selections by providing an easy way online for selecting the right candidate.

Edited by MOHAN DAS VISWAM

ational Informatics Centre (NIC) unit at NITI Aayog has been actively involved in development and imple-

mentation of various e-Governance applications. Internship Management System is one such initiative to facilitate engagement of Indian Nationals as Interns in NITI Aayog. The system ensures a convenient and transparent procedure for selecting these young individuals. The applications were made available online and a proper method for scrutinizing and selecting appropriate candidates, based on their academic records were incorporated in the online system. The new system replaced the ongoing tedious process of manually receiving applications and making the final selections. This online system was implemented successfully and three batches were

selected for May to September 2015 Internship.

INTRODUCTION:

NITI Summer Internship scheme 2015: The NITI Aayog (erstwhile Planning Commission) Internship Scheme seeks to engage Indian nationals as 'Interns', who are Undergraduate/ Graduate/ Post Graduate or Research students enrolled in reputed Universities/ Institutions within India or abroad. These 'Interns' shall be attached with various Divisions within NITI Aayog and would be expected to supplement the process of analysis within NITI through empirical collection and collation of in-house and other related information. For these 'Interns', it would be a valuable exposure to functioning and Developmental Policy issues of Government of India, which enables them to foster their future interests.



MINI MALIK Technical Director mini@gov.in







OBJECTIVE OF SCHEME

a. To allow young academic talents to be associated with the NITI's work and for mutual benefit.

b. The 'Interns' may benefit by getting an exposure to the Government functioning and Developmental Policy issues in Government of India and contribute to the Policy formulation by generating policy inputs such as empirical analysis, briefing reports, policy papers etc.

An **online Internship Management System** has been designed and developed with the objective to follow the procedure of selection and other modalities of the scheme. sirous of seeking Internship in NITI Aayog have to apply online within the prescribed time period, clearly indicating three areas of interest, in order of preferences. They should also indicate the period for which they are interested in the internship.

Interns de-

(i)

(ii) All the eligible applications are scrutinized online and shortlisted on the basis of the following educational criteria: (a) 40% weightage to the marks obtained in 12th Board Exams
(b) 60% weightage to the marks obtained in graduation.

(iii) The shortlisting of candidates are made on the basis of two lists to ensure high level of transparency:

(a) Engineering/ Technology/ Computer Science/ Sciences

(b) Economics/ Commerce/ Management/ Humanities

(iv) List of shortlisted candidates are forwarded to all the Advisers of concerned divisions of NITI Aayog. Each

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Adviser recommends a maximum of three interns for Summer Internship for their Subject Division.

(v) Interns are required to submit a brief report/ paper at the end of their assignment to the Adviser of their Subject Division explaining their learning experience.

(vi) Seminars/ Presentations are conducted by the concerned Advisers of particular Subject Divisions for their interns.

(vii) A certificate on successful completion of Summer Internship is issued to each 'Intern' by the Adviser of their Subject Division, duly countersigned by Adviser (Administration)/ Director (Administration).

TECHNOLOGY:

The application has been developed using ASP.Net at front-end and MS SQL Server at back-end.

IMPLEMENTATION AND UTILIZATION:

The Web application has been implemented successfully and utilized for selection of interns at NITI Aayog for the year 2015 in three batches (May-September). IMS NITI Application has been linked with the official website of NITI Aayog. All the applicants for these three batches have applied online. The system allowed only eligible candidates to apply based on eligibility criteria imposed by the system. Final list of selected candidates has been made available also on the system. The Internship Management System has been highly appreciated by the senior officers of NITI Aayog.

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National Cloud Services of NIC-A successful journey towards Digital India

Cloud services are now encapsulated in simple packages. For their needs, the departments now have multiple options to choose, ranging from preconfigured web, applications and database Servers with **Commercial/Open Source** System Software to Ready-to-Configure Servers and Storages. Application systems those are generic in nature and commonly used by multiple government organisations are also offered under the SaaS model of National Cloud



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Edited by MOHAN DAS VISWAM

LOUD manifests to be an effective way of provisioning ICT infrastructure set-ups in government because of its cost effectiveness, agility and sustainability, which further ensures rapid deployment & delivery of e-Governance projects and services. With the introduction of National Cloud during the beginning of 2014, India government has set its position to a

new high with the high availability of its ICT infrastructure for e-Governance. The National Cloud has further been taken up as a launching pad for fulfilling the aspirations of DIGITAL

INDIA. MyGov, Make in India, Digital Locker and eHospital are some among the many ambitious initiatives and projects hosted at the National Cloud. The National Cloud is the first and only one of its kind available under the MeghRaj initiative of Indian Government. Information and services of the National cloud are provided through its portal https://cloud.gov.in which has been recently enhanced for its look and feel as well as usability.

With the launch of National Cloud, the departments can avail cloud infrastructure with much ease. They now have the flexibility of scaling up facilities based on department's requirement of resources time to time. This saves considerable amount of cost, time and enables resource opti-

⁶⁶ The National Cloud of NIC launched in 2014 has been instrumental in delivering IT as a service to government departments for implementing e-governance initiatives in a timely manner. The Departments can now focus on the actual services and programmes they want to deliver instead of investing energies on IT procurement and management of infrastructure.

National Cloud Services of NIC have been a major support to the Digital India Initiative of the Government which envisages IT as a means to empower citizens. A number of initiatives under this programme including MyGov, KhoyaPaya Portal,



SHALINI MATHRANI Sr. Technical Director, NIC

Biometric Attendance System, Digital India Portal, Make in India Portal are hosted on the Cloud.

Since its launch last year, the Cloud team has made efforts to streamline the delivery of services by integrating various functions of security and networking to ensure a smooth user experience. Efforts are constantly in process to improve user interface. Users can also share their feedback and it is used for improvement of services. A 24X7 help desk is available to support users for any issues. A dedicated cloud team is available for management and administration of the entire infrastructure and services.

A Cloud First Strategy aims at ensuring responsiveness, agility and sustainability for government services along with better utilization of resources. Departments now look to the Cloud instead of expending efforts on provisioning infrastructure.



misation. Minimising the efforts for ICT procurement procedures, the departments can now focus more on the aspects of development, implementation and rollout of e-governance applications.

The National Cloud provides all the popular industry standard formats of services such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS) and Storage as a Service (STaaS).

In order to make it easy and simple for the departments, the Cloud services are now encapsulated in simple packages. For their needs, the departments now have multiple options to choose, ranging from preconfigured web, applications and database Servers with Commercial/Open Source System Software to Ready-to-Configure Servers and Storages. Application systems those are generic in nature and commonly used by multiple government organisations are also offered under the SaaS model of National Cloud.

Since the launch of National Cloud Services, various e-governance projects of national as well as state level have been made operational on National Cloud. This includes MyGov (with over 1.2 million Users engaging with Government), Make-in-India, Prime Minister's Office Portal, Biometrics Aadhaar Attendance System for Govt. Employees (BAS), Digitize

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India, Digital India Portal, Digital Locker, JOSAA (online counseling for Admissions in Engineering IITs, ISM, NITs, IIITs) and eHospital. Currently, around 5000 Virtual Machines have already been allocated to about 250 different projects of Central Govt. Ministries/Departments, State Governments, District administrations and other organizations.

CHALLENGES FACED AND ACTIONS TAKEN TO OVERCOME THEM

Soon after the inception of National Cloud Services, the cloud management team faced number of issues. Most of the users, including NIC officers across the Country were finding it difficult to use the Cloud services, as they were new to such kind of services. In order to address these challenges on immediate priority, following steps were taken:

- Set up 24x7 Help Desk
- Set up Cloud Orientation Cell

- Organized different Levels of technology awareness & hands-on programmes
- Arranged VC based knowledge transfer sessions

Subsequently, it was made mandatory that NIC officers (Cloud Technical Administrator/ Coordinator) attached with each project to guide its users for quick accomplishment of various procedures such as creation and management of Virtual Servers, coordination for Security Audit Clearance, DNS entry etc. The On-Boarding process was earlier taking a week time for any government organization to acquire the Cloud & initiate the work. This process was subsequently shortened to 2 days by integration of VPN and supporting Network/ Security Services along with automation of various internal manual process of the same workflow.

HOW TO AVAIL CLOUD SERVICES

Step 1 - Visit the National Cloud por-



tal 'https://cloud.gov.in'. Apply to Register for Cloud services. Once the application is submitted, applicant will receive an acknowledgement email.

Step 2 - After satisfying eligibility conditions, the applicant will be registered and subsequently receive a Welcome Mail for SignUp.

Step 3 - On successful Sign Up, the user will receive a 'Terms & Conditions' (T&C) document via email.

Step 4 - The T&C document duly signed and stamped need to be submitted to NIC Cloud Team through concerned NIC HODs/ SIOs.

Step 5 – After acceptance of the document, Sign Up process is complete. The user can then request from a variety of services offered by the National cloud. These include web-server, application and database server, ready-to-configure server along with Compute & Storage requirements.

The user would be given 'MyCloud' Dashboard over a secure channel. With this Dashboard, user can make necessary configuration, operations & management of various services. Maintenance can also be carried out through 'MyCloud' Dashboard.

SALIENT FEATURES

- Servers provided under PaaS are preinstalled with software and hardened as per the government security regulations. These are simple, ready to use machines, which are made to go live by installing application software.
- Provides a complete workflow system to assist the user for activation of any eGov application. NIC officers (Cloud Technical Administrator/ Coordinator) attached to project guides the user for accom-

plishment of various tasks such as creation and management of virtual servers, coordination for Security Audit Clearance, DNS entry etc.

- National Cloud provides a framework to manage multiple sub-projects under the main project with allocation of certain resource quota.
- National Cloud is designed for multi-located Cloud services. Set up has been completed at the Data Centres in Delhi whereas in Hyderabad Centre, the set up is with limited capacity. Hyderabad and Pune Centres are expected to be ready soon to provide Cloud services at a national level.

TECHNOLOGY & ROLLOUT

National Cloud (NC) has been built with state of the art technology, which is designed with security features, generic architecture and simple user interface through a self-service portal. Consisting of in-house developed software, featuring latest technology integrations, the National Cloud has the following technology tiers:

a. Self Service Portal/ Cloud Portal: Provides general information on various Cloud services such as the Cloud set up, Help Desk contacts, details of Cloud Coordinators, On-Boarding process etc. This portal facilitates online registration process for availing the Cloud Services and is built using Open Source Technology.

b. **MyCloud Dashboard:** Enables the registered users to access the cloud resources over a secure channel for operations, maintenance & management.

c. **Orchestration Layer:** Workflow driven automation of different processes is associated with various cloud services. This Layer interfaces with underlying hardware through APIs

MEGHRAJ

In order to utilise and harness the benefits of Cloud Computing, Government of India has embarked upon a very ambitious and important initiative: "GI Cloud" which has been named as 'MeghRaj'. This initiative was to implement various components including governance mechanism to ensure proliferation of Cloud in the government. The main objectives of GI Cloud are to ensure optimum utilization of infrastructure and speed up the development and deployment of eGov applications.

which provides virtualization solutions.

d. **Virtualization Stacks:** Virtualization engines of various technology providers have been integrated through Orchestration layer to extend seamless service to user departments.

Currently, Cloud has been configured at NIC National Data Centre of Shastri Park in Delhi. Two other nodes at Hyderabad and Pune are getting ready for launch to provide seamless services at a National level.

SUMMARY

National Cloud Services encourages and expects more and more entities of government to take advantage of the cloud services for their various e-Gov projects and Applications by hosting them at National Cloud environment. The recent success stories of the major national level projects such as **MyGov**, **Make-in-India**, **Digital Locker** etc. would influence the departments to use Cloud Services tremendously in near future.

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Joint Seat Allocation System

Joint seat allocation to government funded technical institutes based on three independent entrance examinations using multiple ranks is a watershed event in engineering admissions in India. The aim was to prevent candidates from holding on to multiple offers of admission till the very last minute resulting in vacant seats.



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dmission in academic institutions is a colossal process considering the fact that every year a large number

of aspirants vying for admission in the institute and field of their choice. New institutions are added every year to compensate for the rising demand. However the competition for most sought-after branches and institutes remains tough. This is why it is all the more important to adapt a transparent and efficient process.

The idea on Web Based Counselling for admission was evolved first time in 2003 when Ministry of Human Resource Development took an innovative step and decided to implement online off-campus and on-campus counselling for admissions in NITs.

In the academic year 2015-16 e-Counselling System has been implemented in the several Universities and Counselling Boards including JoSAA 2015 for IITs and NITs, CSAB for NE-UT States JEE Advanced 2015, JEE Main 2015, AIPMT 2015, Hotel Management, Chandigarh, Delhi, Gujarat, Haryana, Punjab, Odisha, Uttarakhand, UP and West Bengal

As on today 5504 institutes participated in e-counselling, 7,81,362 seats were offered under various reservation categories. A total of 21,65,324 candidates registered and 3,08,322 seats (40%) were allotted. In the government institutions picture was much better with 1,59,929 seats were offered out of which 1,20,867 (75%) seats were filled.

JOINT SEAT ALLOCATION SYSTEM FOR IITS AND NITS:

Joint seat allocation to government funded technical institutes based on three independent entrance examinations using multiple ranks is a watershed event in engineering admissions in India. The aim was to prevent candidates from holding on to multiple offers of admission till the very last minute resulting in vacant seats. An attempt was made in 2013, but the launch had to be "aborted" when the countdown was close to 0. In retrospect, this attempt was destined to be aborted since there were no business rules nor was there any algorithm. At around the same time, Prof. Yashodhan Kanoria (Alumnus, IIT-B) wrote to Prof Khakhar (Director, IIT-B) suggesting the use of the deferred acceptance (DA) algorithm for joint seat allocation and offering his expertise. Prof Kanoria is an expert in the area of "stable matching". The efforts gathered momentum in the latter half of 2014 with the Joint Implementation Committee of JEE (Advanced) 2015 comprehensively documenting the business rules, and the Technical Committee (constituted by the Ministry of HRD) adapting the deferred acceptance algorithm to these business rules.

In the education sector, this is perhaps the most complex set of business rules for which DA algorithm has been used. Full credit goes to the Technical Committee for taking into account preferential allocation for DS (defence services) category, allocation for preparatory programs, de-reservation of seats, supernumerary seats for foreign



nationals, home state/ other states/ all India quotas, partial penalty for failure to produce valid category certificates, etc. The DA algorithm forms the crux of joint seat allocation.

Implementing the algorithm was indeed a great challenge since (i) there was absolutely no scope for any error, (ii) there was no data to test the software and (iii) had to think of, and code for, every possible eventuality. Hence, there were two independent implementations of the algorithm: one by the National Informatics Centre (NIC) in C# language and another by IIT Kanpur (in C++). Both implementations were closely supervised by Prof. Sharat Chandran (IIT-B) and Prof. Surender Baswana (IIT-Kanpur). The e-counselling and admission division of NIC has been providing seat allocation service to a large number of clients, including NITs, for several years now. This rich experience helped the technical committee to suitably modify the DA algorithm to make it compliant to the business rules. At IIT Kanpur, two students of B.Tech, CSE (Utkarsh Patange and Ashok Kumar) were involved in this project.

There were a few other firsts: IIT Bombay, as the nerve centre of JEE (Advanced) 2015 as well as joint seat allocation activities, introduced the concepts of (i) automated and endto-end validation of seat allocation and (ii) use of synthetic data. Three teams, one each from IIT Madras, IIT Kharagpur and IIT Guwahati took up this task: they independently generated synthetic data - this included both hand-crafted data for checking all the "specialities" of business rules as well as large data sets. These teams introduced "input sanity checks" as a mandatory step. Special algorithms were designed for generating large synthetic datasets. In addition, each team checked the correctness of input data

and validated seat allocation for compliance with each and every business rule. In essence, two teams allotted seats independently, and three other teams independently matched and validated seat allotments just to ensure that allotments are fair and error-free.

This entire exercise of joint seat allocation is a massive success considering that a large number of individuals from various agencies set aside their personal and professional commitments and worked together for the larger common good. There were no violations of any business rules, timelines were adhered to and the entire









operation – from framing business rules to successful admission – was pulled-off within a short span of 9 months! The success of this truly team effort stands out in a country like ours where most often the limelight is focussed on individuals for things they have done or even not done!

ONLINE PORTAL (http://josaa.nic.in)

Counselling websites are high transaction websites. The challenge posed was to design an online portal which will be capable of allowing **1.3** million prospective candidates to register and fill-in their choices with a span of just **5** days! Robust backend infrastructure on NIC's **Meghraj Cloud** was utilised to run this system. The fact that **38** different ranks were used for choosing the institutes and courses and allocating the seats shows the complexity of JoSAA software. **34,074** seats were offered in **184** unique academic programmes across **86** institutes. **31,015** seats are filled including all premium seats. **1.43** lakhs candidates registered and filled **1.5** crore choices. **45** Reporting Centres were set up for document verification and admission.

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Aadhaar enabled PDS System (AePDS) – electronic Point of Sale (ePoS)



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ndhra Pradesh is the first State in the country to implement ePoS in 100% Fair price shops with the integration of

FCI & MLS points (Supply Chain Management System) for lifting of Stock and ration portability. The system enables monitoring the Sales & Stock availability at every FPS. All PoS devices are linked with electronic weighing scales.

As per the guidelines issued by Department of Food & Public Distribution regarding the Computerization of TPDS, the State of Andhra Pradesh has developed an end-to-end IT solution (TPDS), which has been successfully implemented with very encouraging results.

It was observed that many of the true beneficiaries of these subsidies suffer due to large-scale pilferage and diversion, retail level issues including duplicates and ghost beneficiaries. Monitoring of the scheme was difficult due to insufficient staff and its complicity.

Online Authentication Services provided by UIDAI (fingerprints, iris and photo for face recognition) are used for the sale of PDS commodities to BPL beneficiaries in all Fair Price Shops (FPS). This has improved efficiency and transparency in the system and enabled on time ration delivery to eligible beneficiaries.



"With the AePDS, Krishna District has emerged as first district in the country having hundred percent digitized Public Distribution System. This system helped in saving in subsidy to the Gol and Government of AP to the extend of 12 to 13 Cr every month from Krishna District alone.

I want to express my sincere appreciation to all the PDS team members of NIC, Andhra Pradesh for providing excellent technical support. All of them have done a commendable job in achieving the results in a short span of time. Keep up the good work."

> A. BABU, IAS Collector & District Magistrate Krishna District

PROJECT OBJECTIVES

The Department of Food & Public Distribution identified 4 key areas to achieve end-to-end Computerization of TPDS.

- 1) Creation & Management of digitized Beneficiary Database
- 2) Supply-Chain Management of TPDS commodities including Procurement from various sources including FCI till movement to FPS
- Sale of TPDS commodities at Fair Price Shops including Aadhar authentication of beneficiaries and recording of transactions through ePos
- 4) Transparency and Grievance Redressal Mechanism

END-TO-END COMPUTERIZATION OF PDS WAS TAKEN UP IN THREE PARTS AS FOLLOWS:

1. Component I - Ration Card Management

The first and the most tedious task was to digitize the beneficiary data and create a centralized database with clear process of data Updation to be put in place in a time bound manner.



District Collector of Krishna, Sri A. Babu at a Fair Price Shop

- A special drive to eliminate fake and bogus ration cards was undertaken. 100% ration card details with the member details are made available.
- The Ration Card application is workflow based, which runs up to the Mandal/ Taluk supply office for creation and modification of cards. Maintenance of digitized

Ration Card database is done using web based application software available on http://epdsap.ap.gov.

2. Supply-Chain Management (SCM) - http://scm.ap.gov.in

- SCM covers monitoring of foodgrains allocation, storage and movement starting from the base depots till the FPS.
- Generation of delivery order, truck



AePDS enabled activity at a Fair Price Shop

challans, receipts and movement of commodities.

• It is a complete work automation system having dashboards catering to the varying information needs of various stakeholders, reducing diversion.

3. Component II – ePOS (http://epos.ap.gov.in/ePos)

- This component relates to the computerization of operations at the Fair Price Shop.
- Aadhaar is the basis of authentication of the beneficiary at the time of food grains delivery.
- As part of first phase of Krishna district, all FPSs were equipped with PoS terminals for the purpose of authenticating/ verifying beneficiaries before commodity distribution.
- One crucial feature of the process is that the closing balances are updated in database through PoS transaction from FPS on a daily basis.
- The aim is to provide beneficiaries with:
- a. Maximum choice of locations and portability allowing the drawal of commodities from any shop across the State
- b. Purchase commodities in convenient quantities and in any number of instalments

SALIENT FEATURES:

- Ration Card management including Issuing of new card, Transfer of card, Card type change, Member modification, FP shop change, Split cards, Surrender of Card, Duplicate Card, Member migration, Change energy category, Address change etc. with photo upload and Aadhaar seeding
- · Generation of Dynamic Key reg-

ister (office wise & shop wise). Allocation of commodities based on card strength, Allocation policy and Closing balances.

- Bulk migration of cards from one fair price shop to another, issue and suspension of FPShop licenses
- Stock balances of FPShop, Mandal stock points etc. at any point of time.
- Tracking of food grains movement
- Integration with Meeseva for RC Mutations, eSeva for FPShop dealer payments and ePoS for food grain distribution to beneficiaries
- · Complaints tracking
- Approvals, Sanctions, Rejections, Allocation, Receipt of payments etc. are all automatic, online and are completely workflow based.
- Aadhaar authentication ensures that only a genuine cardholder or family member can draw the commodities
- Electronic transactions enabling real time MIS on opening stock, daily sales and closing stock, monthly allotment etc.
- Facilitate monitoring and detection of any fraudulent transactions
- SMS communication on arrival of goods which promotes transparency

- Portability for drawing Ration anywhere
- Transparency and accountability in the Public Distribution System

SERVICES IN E-POS APPLICATION

- Delivery of items to the FPS dealer by Authentication of Route Officer & FPShop owner
- Best finger Detection
- Online Aadhaar Authentication of card holders
- Sale of PDS commodities
- Aadhaar seeding
- Complaints registration

BENEFITS

- Creating information visibility of supply chain will reduce diversion.
- Movement of commodities at market price all the way till the sale point.
- Generation of delivery order, truck challans, receipts enabling tracking of stock movement from FCI godowns to MLS points and from MLS points to FPShops
- Obtaining up-to-date statements of stock lifting and stock at various stock points



WORKFLOW OF AADHAAR ONLINE AUTHENTICATION THROUGH EPOS APPLICATION

IMPACT & ACHIEVEMENTS:

- 1. Aadhar Seeding reached 98%, resulting in deduplication and removal of bogus cards.
- 2. More than 5 Lakh citizens' requests through Meeseva addressed
- 3. Supply Chain Management with more than 40,000 Release Orders generated all over the State per month and also exact dispatch details of date, Truck no, truck date etc.
- 4. Savings in subsidy to the GoI and AP Govt.
- 5. Beneficiary receives SMS about arrival of stock at FPShop
- Mobile App giving allocation details and closing balances is available at https://apps.mgov.gov.in/ descp.do?appid=836¶m=app
- 7. Monitoring of fraud
- 8. Delivery of ration to all the eligible beneficiaries

SCENARIO BEFORE AePDS

- Manual allotment/ dynamic Key Register
- Route Officer stock deliveries not monitored real-time
- Lack of information to card holders on arrival of stocks resulting in multiple visits
- Difficulty in identifying genuine beneficiaries
- No tracking of stock distribution
- No billing and incomplete manual records/stock details

- Leakages
- Improper calculation of closing balance
- Routine inspections with incomplete data

SCENARIO AFTER AePDS

- Accuracy in closing balance and allotment
- Route officer delivery monitored online
- Information to card holders
- Genuine beneficiaries only
- Savings
- Card holder satisfaction
- Stock visibility
- Complete MIS

CHALLENGES FACED WHILE IMPLEMENTING THE PROJECT

- Training and capacity gaps within civil supplies officers in field and ration shop owners
- Selection of technology partner (PoS Device)
- Seeding of EID/ UID/ Mobile No./ Bank Account of the beneficiaires
- 24X7 Operational and technical Support
- Aadhaar Seeding and cleansing of ration card database
- Removal of duplicate/ bogus ration cards/ members

- Allotment of commodities to the ration shops based on real time closing balances to enable transparency and accountability
- Connectivity achieved with mix of Network Survey and
- GPRS
- Establishing Antenna for GPRS for PoS
- Broadband
- WIMAX
- CDMA

TECHNOLOGY

AePDS was developed using Open Source technologies and the technology components are Java, JBOSS web server, RHEL OS and PostgreSQL Database

WAY AHEAD:

With the successful computerization of all the components linked with Fair Price Shops in Krishna District, Government of Andhra Pradesh has rolled out the Krishna model to remaining 28,000 Fair Price Shops across the State. With this Biometric enabled foolproof system, the government of Andhra Pradesh saves about an amount of Rs. 1300 Crores per annum.

For further information: K. RAJASHEKHAR DDG & SIO NIC, Hyderabad State Centre Andhra Pradesh Phone: 040-23223142



ASHA Soft - Online Payment & Performance Monitoring System for ASHAs in Rajasthan

Asha Soft, an Online Payment & Performance Monitoring System has made an impact by providing line list data of pregnant women and birth details of Rajasthan. It is a path-breaking initiative which has helped in improvement of health services in the state. With its implementation, availability of data of pregnant women has increased by 31% whereas; data availability of new born babies has increased by 19%. Follow- up visits for Home Based Neo natal Care have also increased significantly resulting in better care of infants and timely referral of sick neo-natal's.



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Edited by VIVEK VERMA

IC Rajasthan has developed and launched ASHA Soft for Medical, Health & Family Welfare department,

Government of Rajasthan. It is an integrated system, to measure the performance of ASHA (Accredited Social Health Activist) Sahyoginies and to ensure timely and transparent payment of incentives to ASHAs all across Rajasthan. Performance measurement of ASHAs on case-to-case basis with the help of ASHA Soft has resulted in significant improvement in concerned functional areas of Health & Family Welfare in the State.

ASHA is a community level worker deployed at Anganwadis through out the State to provide support services related to Medical, Health & Family Welfare. Approximately, 48,000 ASHA sahyoginies are currently working in the State and they get fixed monthly emoluments from the Woman & Child Development department who also get monthly incentives from Medical & Health department for providing health services to citizens. Based on type of activities and number of cases handled, incentives are calculated and paid to ASHAs. The incentives range from Rs. 5 to Rs. 5000 per case depending upon the type of activity. There are 26 different activities for which incentives are paid which include support services for Maternal health, Family welfare, Child health,



ASHA Soft has created confidence among ASHA health workers which will lead to thousands of health workers providing better "health awareness services" to millions of rural population of Rajasthan. NIC has been really very helpful in times of need

> NAVEEN JAIN Mission Director National Health Mission, Rajasthan

National health programmes, Routine record maintenance and Meetings.

IMPLEMENTATION:

In order to implement the system, Master data of ASHAs was prepared for each Anganwadi and was linked to the Health facility (e.g. Subcentres, PHC, CHCs or Hospitals). The same was also linked to PCTS (Pregnancy Child Tracking and Health Service Management System - Operational since 2008) and integrated with ASHA Soft. Case details are entered in PCTS and ASHA Soft depending on nature of activity and are verified through



ASHA Soft. Online Payment is made by CMHOs from the district level for all ASHAs in the district for which Digital Signature based authentication is used for releasing the payment. The system is operational since, December 2014 from more than 2000 locations and every month Rs. 7-8 Crore are released through the system.

IMPACT:

ASHA Soft has created significant impact through better availability of line list data of pregnant women and birth details. This has improved follow up of all listed cases enabling overall improvement in the health services. With its implementation, availability of data of pregnant women has increased by 31% whereas; data availability of newborn babies has increased by 19%. Follow-up visits for Home Based Neo natal Care have also increased significantly resulting in better care of infants and timely referral of sick neo.

THE DAYS EARLIER:

Prior to ASHA Soft, there were no standard procedures for performance and payment monitoring for ASHAs and there were Multiple Payment points. Cash was maintained at every sub centre, PHC, CHC etc. (Total 16000+ locations for cash handling). Incentive Payment for certain activities was made by ANMs up to sub centre while incentives for other activities was made through different cheques at PHC level (separate cheques for RCH activities, national health programmes etc.), which were handed over to the ASHA in the monthly meetings. Invariably, there was delay of at least one-two months in the payment. The process of approval on case basis generated lot of clerical work at all levels.

THE PROCESS:

ASHA Soft has been simplified the process significantly, which has introduced standardized claim forms for ASHA for all 26 activities. The forms are submitted by ASHA at her Sub centre where the ANM verifies them. The Claim forms for all 26 activities in a month are submitted at the end of the month by the ASHA and once



verified by the ANM, the forms are sent to the concerned PHC, CHC and Block PHC for data entry. All claim forms are entered into the system as per predefined schedule of data entry and verification (generally 26th of every month to 2nd day of next month).

As the next step, sanctions for each of the service category are generated by the MOIC (Medical Officer in Charge) for all ASHAs in his/ her jurisdiction and all these sanctions are generated as per predefined schedule (generally 3rd day of next month to 5th day). Sanction letters are generated accordingly, with the system and maintained online in pdf format for later reference and finally the Fund Transfer Order is generated at the district level by concerned CMHO using DSC. Thus the online payments are



transferred by 7th of next month.

The time taken to make the payment has drastically been reduced, from about 2 months to 7 days. The process of payment is very transparent and has almost eliminated the requirement of repetitive manual work which was also prone to many errors.

Large number of monitoring, analytical and exception reports are generated through the system. The system now informs about ASHAs 'not providing services' or ASHAs 'who are doing very efficient work'. Institute wise reports can inform PHC/ CHC with lowest performing ASHAs. Analytical reports generated by the system have outlined the areas of activities which are getting ignored by ASHAs and need more support. Similarly, patterns can be drawn geographically as well for a district or block. Such analysis highlights performance levels of all the staff engaged in providing health services at every location.

Rajasthan is the first State to have this kind of a system. The software has now been provided for implementation at Karnataka State whereas many other States have shown their interest in the system.

RECOGNITIONS:

This initiative has received many accolades. These includes Healthcare Leaders' award in March 2015, Award at elets knowledge exchange summit in May 2015 and Skoch Smart Governance Award in September 2015.

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Village level online e-Services in Goa: Taking Governance to the grassroots

The e-services from Panchayats through the use of "TalukaSuite Software" via the state Intranet GBBN has made easier and faster as the Talathi directly liaisons with the citizen and Mamlatdar's office. This online eServices at the village level has solved the problem of travelling an average distance of 60 kilometers to visit the South Goa District Administration office to obtain various kinds of certificates.



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Edited by ANSHU ROHATGI

he beautiful State of Goa is geographically small compared to many other Indian States. The long Konkan terrain

spreading across its many regions and the limited availability of public transportation system makes the travel especially for those from the farflung villages quite difficult. Citizens had to travel at an average distance of 60 kilometers to visit the South Goa District Administration office for their need to obtain various kinds of Certificates. Multiple visits for accomplishing the same task add to their woes.

Now, there is a great sigh of relief for the citizens as most of these services are provided at their village Panchayat office itself. The South Goa District Collectorate office in collaboration with National Informatics Centre of Goa provides the following seven e-services from Panchayats through the use of 'TalukaSuite Software' via the state Intranet GBBN.

- 1. Form I & XIV.
- 2. Residence Certificate.
- 3. Caste Certificate.
- 4. Income Certificate.
- 5. Divergence Certificate.
- 6. Character Certificate.
- 7. Freedom Fighter Children Certificate.

These services are made easier and faster as the Talathi directly liaisons



with the citizen and Mamlatdar's office. The citizens' applications are electronically forwarded to the Mamlatdar. Approved applications are made available electronically to the Talathi, who then simply take prints and handover them to the applicant on his or her next visit. The online eServices at the village level were inaugurated on 2nd April, 2014 in the Cola village Panchayat of South Goa district.

South Goa

Following is the excerpt from interview with the Collector & District Magistrate of South Goa, Dr. Sachin Shinde IAS.

NIC: How have Online Services at the village level benefited the citizen?

Dr. Sachin Shinde: Citizens are provided application, affidavit and self declaration forms in the village



Hon'ble MP of South Goa, Adv. Narendra Sawaikar addressing citizens of Cola village at the inaugural function in Cancona, Goa

panchayats itself. Citizen need not to travel to taluka Mamlatdar/SDO office to avail a service. Application is received by the Talathi, scrutinized and verification report is prepared. It has reduced time delay considerably as compared to earlier procedure. Also, SMS alerts have improved service delivery as application status is intimated to the citizens.

NIC: Right now 7 services are being offered to the citizens. Are there any plans to include more services in the future?

Dr. Sachin Shinde: We will study the work load on Talathis due to these services and subsequently other services such as arms licence renewal, sound permission, mutation, land tax collection can be introduced.

NIC: Since the Talathi is the officer directly in touch with the citizen, can s/he be empowered to issue the requested certificate on the spot? If not what systematic

changes would be required? Dr. Sachin Shinde: Talathis are empowered to issue Form I & XIV directly on the spot and for other services they have to take approval of the concerned Mamlatdar/SDO to issue a certificate. For rest of the six services, Talathis are forwarding applications online along with documents for approval of the Mamlatdar/SDO and after approval; a certificate is issued to the citizen in village panchayat itself.

NIC: How is the project planned to be sustainable in the long run?

Dr. Sachin Shinde: Project is implemented with the help of NIC South Goa Dist Unit. NIC is taking care of training, technical support for software and database maintenance. Talathis are our own officials to provide services to the citizens, only regular monitoring will be required to sustain project in the long run.

NIC: How can the Cola success story be replicated in other villages?

Dr. Sachin Shinde: Cola & Rachol villages are covered under SAGY (Sansad Aadarash Gram Yogana) and initially these services started in April, 2015 successfully from these two villages. These services are replicated in three talukas Sanguem, Canacona & Dharbandora covering all the village panchayats. These talukas were chosen due to forest & hilly geographical nature. These services are being replicated in other four talukas of South Goa district through Talathi offices at Village Panchayats.

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NDC Shastri Park, Delhi: Power Usage Effectiveness (PUE) achievement

PUE monitors the energy impacts and results in power saving and operational cost. It decreases the electricity consumptions which results in the Data Centre's power saving. PUE also helps IT professionals in determining the energy efficiency and provides an easy way to measure how efficiently a Computer Data Centre uses energy, especially the energy consumed by computing equipments.



B. RAJPUT Sr. Technical Director rajput@nic.in

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Edited by MOHAN DAS VISWAM

n order to meet the ever increasing need of high availability and reliability of mission critical applications of the government, National Informatics Centre (NIC) has set up its world class National Data Centre (NDCSP) at Delhi I T Park (Shastri Park, Delhi). The NDC has been designed to provide full stream of hosting services ranging from physical to shared hosting, dedicated servers with managed hosting solutions to infrastructure services such as Collocation & Bandwidth, Disaster Recovery etc. Many of the key applications and web sites of the Central Government Departments as well as various States are hosted at this Data Centre.

Adopting the best practices and international standards, the basic infrastructure management of NDC has been taken care with efficient Asset Management, back-to-back AMC with all vendor agencies and support agreements with software vendors wherever possible. All the services are managed by a dedicated team of NIC with the use of best of the breed technologies.

The state of the art ICT Infrastructure of NDC includes High end Blade & Rack Servers, Enterprise level Storage Systems and Automated Tape Library Systems for data back up and Network & Information Security. It is powered with efficient physical infrastructure such as redundant UPS systems, Generator sets and enhanced physical security systems. The network connectivity is facilitated through multiple service providers with a high Internet bandwidth of 10 Gbps. Further, staging servers are provided for testing the applications before they are moved to production servers.

POWER USAGE EFFECTIVENESS (PUE)

Benchmarking a Data Centre's energy efficiency is the first key step towards reducing power consumption and minimizing energy costs. Benchmarking enables you to understand the current level of efficiency in a data centre and further helps in gauging the effectiveness of efforts to implement additional efficiency best practices.









Graph 3: Monthly power utilization effectiveness (PUE)



Power Usage Effectiveness (PUE) and its reciprocal Data Centre Infrastructure Efficiency (DCiE) are the widely accepted benchmarking standards proposed by the consortium called 'The Green Grid'. PUE is a scale to measure how efficiently a Computer Data Centre uses energy, especially the energy consumed by computing equipments (in contrast to cooling and other overhead). It is the ratio of total amount of energy used by a computer Centre facility to the energy delivered to computing machines. PUE and DCiE help IT professionals in determining the energy efficiency of their data centres as well as monitoring the energy impacts. Anything that isn't considered a computing device in a Data centre such as lighting, cooling, etc. falls in the category of facility energy consumption.

NDC-SP Basic Infrastructure - Phase-1 with 240 racks was started functioning on July 2011, while the ICT infrastructure with about 110 rack servers & 6 storage racks was started in September 2011.

Initial PUE monitored from Nov.2011 to Aug 2013 for Phase-1 is shown in graph below.

NDCSP PHASE-2 WITH ADDITIONAL 240 RACKS WAS STARTED IN SEPTEMBER 2013.

Following are the additional best practices implemented for improving PUE:

Data Centre Efficiency:

1. Enhancing UPS Power Redundancy: UPS Configuration has been converted for both Phase-1 and Phase-2 from 2(N+1) to (N+N) i.e. 100% redundancy.

2. Providing Blanking Panels in Server racks: This has reduced mixing of cold air with hot air.

3. Temperature of cold aisle increased from 20 degree to 22 degree.

4. Continuous monitoring & timely preventive maintenance of all basic infra equipment.

With the above implementations, there has been a substantial improvement in PUE at NDC, which resulted in power saving and operational cost. PUE for the duration of 6 months i.e., January to June 2015 is as shown in the graph 2 above:

As per the design of NDC, the desired PUE is 1.7 at 100% load. The basic infra operations team of NDC has made an effective improvement in this by bringing the PUE to 1.39 even at 60% of current load. This was achieved by gradually increasing the temperature inside the data centre and saving of chilled air by bridging gaps of hot and cold aisle containment, enhancing UPS Power redundancy, continuous monitoring and timely preventive maintenance of all basic infra equipments.

This is considered as a major achievement especially because of the efforts for decreasing the electricity consumption, which resulted in the Data Centre's power saving considerably.

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District Una: Ahead in e-Governance

Many of the National and State level IT Projects are running in the District Una and the District Centre has the latest ICT infrastructure and robust network for promotion and delivery of various G2C services. The District e-Governance Society monitors IT projects at various district offices and generates sufficient funds for sustaining such projects.



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VIVEK VERMA ocated in the southwest-

Edited by

ern region of the beautiful State of Himachal Pradesh, the district of Una geographically

spreads across an area of 1,540 sq. kms. Una was formed on the 1st of September 1972 with the district headquarter situated 240 Kms from the Himachal's capital Shimla. Una is 120 Kms away from Chandigarh and the district is connected with broad gauge railway line. The district is also known for its famous "Mata Chintpurni" Goddess temple.

Information Technology activities commenced in Una way back in 1989 with the establishment of National Informatics Centre. Since then, NIC has been continuously providing technical support to the District Administration and various other departments. NIC has also been the implementer of many National and State level IT Projects in the district. The Una District Centre has the latest ICT infrastructure and robust network for promotion & delivery of various G2C services.

• REVENUE DEPARTMENT:

Land Records Computerisation: The HimBhoomi project has been implemented in all the 7 tehsils / sub-tehsils of the district which benefitted the revenue staff in timely preparation of land records. The public has been facilitated by easy availability of RORs at Tehsil Sugam Centres or at the LMKs (LokMitra Kendras).

Himris: This software enables registration of land deeds and has been



⁶⁶ The NIC District Centre, Una is playing a major role in providing and promoting the ICT culture by delegating accurate, transparent and responsive information and services to the citizens, which has radically changed the process of e-Governance in the district, enhancing transparency and quality of citizen centric services.

> ABHISHEK JAIN, IAS Deputy Commissioner, Una Himachal Pradesh

made operational in all the 7 tehsils of the district. All types of deeds are entered / registered in the system with features to capture biometrics data. The input data is validated with online land records data before the deed gets registered.

LokPraman Patra: It is an online software, which is used for issuance of 14 types of certificates issued by all the Executive Magistrates. It has been implemented in all tehsils & sub divisions of the district.

• TRANSPORT DEPARTMENT:

Sarathi: This application is used for issuance, endorsement, renewal, du-

plicate issuance of all types of new and old Learner Licenses, Driving Licenses and Conductor Licenses. This software is being used at all the RLA's and RTO offices in the district.

Vahan: This application software is used for issuance and renewal of Motor Vehicle Registration Certificate, Transfer of Ownership, Change of Address, Duplicate RC, Hypothecation Termination & Addition and Token Tax etc. Besides, High Security Registration Plate (HSRP) module has also been integrated with this software.

Stall: is a software for Online Learner License Test implemented in all RLAs and RTO office.

• ELECTION DEPARTMENT:

DISE: This software was used for data entry of government employees and random deployment of polling staff, counting staff, results compilation & dissemination to ECI for Lok Sabha Elections 2014 & HP Vidhan Sabha Elections 2012.

ERMS: Electoral Roll Management system is used to maintain ward-wise roll of electors in all panchayats as well as in local urban bodies.

FINANCE & TREASURY COMPUT-ERIZATION:

e-Salary: This software has been implemented in all treasuries of the district to generate salary scrolls of the employees of various state departments.

e-Pension: This is a web based software used for generation & distribution of pension scrolls, arrears calculation etc. for the State Government pensioners.

e-Kosh: e-Kosh software is implemented in the district treasury & all the sub-treasuries of the district. Computerized tokens are assigned to bills or challans for the subsequent processing of payment or receipt.



IT initiatives of District Administration launched by Sh. Virbhadra Singh, Hon'ble Chief Minister of Himachal Pradesh in the presence of all his cabinet colleagues.



Participants of the Training session on IVFRT Applica



District Level sensitization workshop cum seminar on 'Digital India Week' conducted by NIC District Centre, Una on 4th July 2015

SOCIAL JUSTICE & EMPOWER-MENT:

e-Kalyan: This software has been implemented at the District Welfare office and is used for disbursement of welfare pensions through Bank Accounts. Una district of Himachal Pradesh has been chosen as pilot site for disbursement of Aadhaar enabled Social Security Pension through biometric system.

e-Pehchan: It is a web based software used for issuance of the Disability and Senior Citizen Identity Cards.

District Website: The official website of Una, http://hpuna.nic.in has been designed and developed by NIC District Centre. The website is a repository of important information related to the district and citizen centric information.

Besides these, the other State & National Level Projects implemented in the district are the following:

- eSamadhan
- Jeevan Pramaan Patra for state pensioners
- Biometric Attendance System
- Digital Locker and eAadhaar
- Schemes MIS
- e-Courts & Jail Vaarta
- AGMARKNET
- e-Rozgar
- Arms Licensing (eShastr): National Database on Arms Licenses (NDAL) has been implemented in the district and old data of Shastr software has been ported to this application for UIN generation.
- Immigration Visa and Foreigners Registration and Tracking (IV-FRT): CFRO, C-Form, S-Form, PRC modules have been implemented in this project.
- **Manav Sampada:** is an on-line application to manage the full details of employees and to generate service books electronically.
- NADRS: National Animal Disease Reporting System is an on-line application implemented at three locations of AH&B department in the district for the entry of data related to animal diseases and vaccinations regularly.

In addition to above projects, SUG-AM Centers have been established at the District Collectorate office, 4 sub-divisions and 7 tehsils of the district with the active support of NIC. These have been established to provide hassle free services to the citizens under a single roof.

For further information: SANJEEV KUMAR District Informatics Officer, Una NIC District Unit, H.P.-174303 Phone : 01975-223175, hpuna@nic.in

International e-Gov Update

Government of Western Cape Agriculture launches Green Agri portal

o sustain the Western Cape's agricultural sector, the GreenAgri web-based portal was launched on 9 September 2015. This portal is an interactive portal for farmers, researchers and the private sector. The latest environment friendly farming practices are showcased on this portal. The portal provides support to the rising urban and small-scale farmers. Farmers can leave messages, interact and also address their concerns or questions on this portal. The GreenAgri portal is compatible on PC, Smartphone and tablets. This initiative is a partnership between the Western Cape Department of Agriculture and the GreenCape. Through this portal, farmers are receiving an easy to gain information facility to farm sustainably.

URL: http://westerncape.gov.za/



Dubai Launches 3 smart apps for real estate and construction sectors

hree smart apps as part of a collaborative effort between the 4 government entities have made the lives of property owners, contractors and consultants of the real estate developers much easier. With the recent launch of

these three apps named TM, Qafay and Tarish, travelling back and forth from one government entity to another to follow up on status of projects, obtain government approvals, No- Objection certificates for construction permits is



no longer the case for this segment of customers. These apps are available in both English and Arabic language. Dubai Electricity and Water Authority, Roads and Transport Authority, Dubai Municipality and Mohammad Bin Rashid Housing Establishment formed a 'Red Team' for the development and designing of the applications, which are believed to increase efficiency in government services and also raising the level of happiness of all customers.

TM aims to provide necessary information of property, real estate and housing project owners. Earlier, customers were supposed to visit DEWA, RTA and Dubai Municipality several times to get information but with the launch of this app, all the required information is now easily available to them.

Tarish app was created to combine all the laws and regulations pertaining to water and electricity services.

Qafay app, on the other hand is designed to provide extensive data on geographical places in Dubai, integrate the operations of all government entities that are responsible for the issuance of NOCs.

These apps are easily accessible from hand- held devices and have solved the troublesome process of travelling from one government entity to another.

URL: http://www.dubai.ae/en/Pages/default.aspx

Dubai Smart Government Department (DSG) launches version of mJobs app for Android users

SG has recently launched the Android version of its smart app, mJobs on Google Play Store. Now customers can easily access the iPhone and Android versions of this app from their respective stores. Both the sets of

customers can now easily access the current job postings from 20 Dubai government entities on their Smartphone's. Multiple services offered includes creating accounts, or login by Face book, updating profiles, sharing job openings, easy upload of CV, viewing notifications and also tracking status of application. The same Smartphone account can also be used to login to the DSG job portal.

MJobs is attracting more and more people for downloading this app and applying through it for DSG job vacancies. This app has been downloaded 21,000 times since it was launched. 48000 people registered in the app by creating new accounts while 27000 applications were submitted for the job vacancies.



This app is featured with several other services including how to interact with DSG and has also provided an easy to access way to the users of mJobs.

URL: http://www.dsg.gov.ae/en/pages/default.aspx

New Zealand Transport Agency launches new user-friendly website



oing business with the Transport Agency online has never been easier. Therefore, the Transport Agency of New Zealand has launched its new website after a large increase which includes extensive user-testing

to insure it is both user-friendly and responsive. This web-



site is mainly designed to make convenient for customers to do business with the Transport Agencies and also to find the necessary information they are looking for using any device. The website also includes new sections that will help people to make smart travel choices. This section allows travelers to view where the major road works or hold-ups are on the network so that they can plan their journey accordingly. New online payment channels are also helping a lot as they are easier to use and are greatly benefiting those licensing their vehicles. This is how people can save both time and money by accessing any of the Transport Agency's online services through www.nzta.govt.nz/online. Team responsible for managing the website spent much of time on user-testing, and with the help of this process, simplifies the look and feel of the website. This website provides customers with an easy solution of doing business and finding necessary information related to different Transport Agencies online.

URL: http://www.nzta.govt.nz/

New Zealand Government launched Online engagement guidance

he Online Engagement guidance a part of comprehensive web toolkit of the Department of Internal Affairs, New Zealand is now live and is ready for use. The work of making guidance useful is under progress and it requires feedback from its viewers for its improvement.

quites recuback from its viewers for its improvement.

The Department of Internal Affairs and chairman of e-Government at Victoria University of Wellington launched guidance at an event conducted on 3 September 2015.

The guidance is useful when a person is asked to consult or engage with people to inform policy or regulatory development or review, or service design. The guidance helps by delivering well planned online engagement, encouraging openness and also transparency. It also helps in building trusted relationships with the audience and in identifying the future impact of changes before they are implemented. The guidance comprised of a feature where viewers can provide their feedbacks on what they think about the guidance, how easy is it to follow and how they are using



it and how it can be changed to make it more useful? The guidance is than updated based on the feedback and what's working (or not working). Additional information or tools are than added after receiving the feedbacks as per the requirement of the audience.

URL: https://www.govt.nz

The Australian Government launches a new learning app for parents

he Government of Australia has launched a new innovative government app. This app is designed in a manner which encourages greater parental involvement with children's learning and is now topping the educational charts in iTunes and Google Play.

This learning app provides inspiring ways to parents and grandparents to get more involved in their children's learning. It provides simple, quick and informative way to parents to share tips, ideas and advice with respect to their children's education. In the initial first two weeks, more than 63,000 people downloaded the app. This free mobile app was released as a part of \$5 million commitment by the Australian government to drive up school results by engaging parents with a relevant and up-to-date curriculum.

The free learning app provides students with quality education with the access to the best teachers, an up-to-date and



relevant curriculum and permit parents, teachers, principals to make the most of their child's early learning and school years.

URL: http://www.australia.gov.au/

Ministry of Civil Aviation, Gol



The Ministry of Civil Aviation is responsible for formulation of national policies and programmes for the development and regulation of the Civil Aviation sector in the country. It is responsible for the administration of the Aircraft Act, 1934, Aircraft Rules, 1937 and various other legislations pertaining to the aviation sector in the country.

This newly launched revamped website provides user-friendly interface that is crafted to provide easy and quick navigation. The website header contains common functionalities such as 'Skip to main content', 'Accessibility controls' for visually challenged users, Sitemap and 'In-built site search facility (GoI search)' for quick and easy search by the users. The design is clutter-free and colour scheme of blue and white creates a pleasant experience for the visitors.

The site is bilingual (English and Hindi) with a facility of machine translation to almost all major international languages. The navigation bar provides information about the Ministry, documents, publications, RTI, Parliament Q&A, employee's corner and calendar.

A dynamic sitemap of the website covers links up to the last level. In terms of interactivity, the site offers categorized feedback form. Users can use online feedback form to address issues related to server, content and design.

The left hand side of the homepage provides information pertaining to international aviation organizations, operators, attached organizations, travelers section. On the right hand side, users can check 'In Focus' for latest guidelines, clarifications, notices. Photo gallery section has also been incorporated in the homepage of the site.

The footer contains information on public grievance, citizen's/Client's charter, vigilance, private airlines, etc. The entire content of the website is comprehensive and rich. The content is categorized keeping in mind citizens' interest and accessibility. Each section of the site provides content related to specific topics so that users do not get confused finding the relevant content.

Responsive web design provides an optimal viewing and interaction experience. It helps in easy reading and navigation of the site. Hence, it can be accessed over a wide range of handheld devices such as tablets and mobile phones.

The website is also compliant with GIGW guidelines and has clearly stated the website policies, help, disclaimer, visitor analytics etc. It also offers links to others relevant websites such as myGov, India Portal, Data Portal and Make in India.

The Ministry of Drinking Water and Sanitation is the nodal department for the overall policy, planning, funding and coordination of programmers of drinking water and sanitation in the country. It ensures all rural households have access to safe and sustainable drinking water and improved sanitation facilities by providing support to state in their endeavor to provide these basic facilities and services.

This recently launched revamped website provides com-

Ministry of Drinking Water and Sanitation

prehensive information on drinking water and sanitation in India and all other related issues. The vibrant site is a rich repository of latest information and innovative programmers/schemes being run by the Ministry. It caters to the information needs of various stakeholders including citizens, NGOs and government departments at the State and District level. The website is multilingual and can be accessed in almost all international languages besides English and Hindi.

The site provides easy navigation and quick access to information. A visitor can easily navigate from one section to the other without any difficulty. A clutter-free responsive design helps the user to find content as per their needs and requirements on desktops as well as all handheld devices. All sections of the website are well-categorized and displayed in a structured manner. The website is also compliant with GIGW guidelines.

A clutter-free design and visual hierarchy makes the site easily accessible to all the visitors including people with low visions as well as fully visually impaired. Users can increase and decrease the font size according to their needs provided in the site's header. The sitemap is also incorporated in the header to cover links up to the last level. The website also comes with in-built search facility (GoI search) for quick and easy accessibility.

In terms of interactivity, the site provides links to social media platforms such as Face book, Twitter and YouTube. Links are also provided on the Homepage for the visitors to upload and share the best practices/innovative technology and lodge a grievance as well. This is a content rich site which seems to be updated on a regular basis to keep the visitors informed on latest developments.

The photo gallery module and audio/video sections are incorporated to present multimedia information. This includes campaign banners to educate citizens about safe drinking water and sanitation practices. A visitor can also download the e-book of this Ministry.

Department of Pharmaceuticals, Gol

The Department of Pharmaceuticals was created on the 1st of July in the year 2008 in the Ministry of Chemicals & Fertilizers so as to provide greater focus for the growth of the high potential Pharmaceuticals industry.

The revamped website comes with a clean interface for quick navigation by the visitors. A user-friendly interface is well crafted to make it quickly accessible to the visitors. The Homepage contains slider banners for dissemination of



information pertaining to latest events, programmes, conferences and exhibitions. The site also provides comprehensive information on the Pharma Industry, Price formulation, Pharma Education and Research, Medical Devices etc.

The responsive design has been used for the site to make it available on all devices including mobile phones and tablets. A dynamic sitemap is given on the footer of the site along with Accessibility Dropdown, Search Bar and Hindi version of the website link. The site is multilingual and it can be accessed in almost all international languages along with English and Hindi.

The website is compliant with the GIGW guidelines and clearly states website policies. Accessibility technologies to facilitate visually impaired visitors and site search module have also been provided in the header of the site.

A clean and clutter-free design incorporates vibrant yet simple colour scheme on the homepage to distinguish one section from the other. This helps the users to easily spot the most relevant information. The website provides rich content on significant topics catering to the requirements of varied users. It seems to be update regularly to keep the visitors abreast with latest information.

The website also offers an interactive element by the use of online Feedback form so that the users can share their suggestions. A dynamic sitemap covers links up to the last level and also provides connectivity to social media sites such as Face book and Twitter.

The Ministry of Coal, Gol



The Ministry of Coal has the overall responsibility of determining policies and strategies in respect of exploration and development of coal and lignite reserves, sanctioning of important projects of high value and for deciding all related issues.

The content of the website is presented in an organized way. Vibrant colours have been used in the homepage. The homepage looks lively and provides a refreshing experience to the visitors seeking information pertaining to the coal sector in India.

The site is a rich repository of latest information related to the coal mining, coal auction, foreign collaborations etc. Slider banners have been incorporated in the Homepage to disseminate information related to the India's coal sector and other relevant events and websites. It caters to the information requirements of various stakeholders. The website is bilingual and can be accessed in English and Hindi.

The site is user-friendly and provides an easy navigation and quick access to important information. A clutter-free responsive design helps the end user to access the site on all handheld devices. Links are also provided in the header section to guide the visitors to the Twitter and Facebook pages of the ministry.

The site provides comprehensive information on the coal sector in India. The visitors can access policies, publications, reports, efficiency parameters, public grievance cell, facilitation centre, etc. through quick links on the Homepage. Current notices, press releases, photo gallery and search option for reports have also been provided to the information seekers on the website.

The Ministry of Power, Gol



The Ministry of Power is responsible for the development of electrical energy in the country. The Ministry is concerned with perspective planning, policy formulation, processing of projects for investment decision, monitoring of the implementation of power projects, training and manpower development and the administration and enactment of legislation in regard to thermal, hydro power generation, transmission and distribution.

Content of the Homepage is presented in an organized way in a clutter free interface. Use of bright colors provides a refreshing experience to the visitors seeking information pertaining to the power sector in India. The site is a repository of latest information with the current notices pertaining to power sector taking the major focus on the homepage. Slider banners display the achievements of the ministry in the past year. The content in website is bilingual and can be accessed in English and Hindi.

The site provides an easy and quick navigation. Global navigation bar that is repeated across the site present links to the major activity areas of the ministry like power generation, transmission, distribution, R&D etc and is categorized up to two levels. Quick links present on the homepage provide access to other important information pertaining to the Ministry. Website has a responsive layout that is easily accessible on handheld devices. Links are also provided in the header section to guide the visitors to the Twitter and Face book pages of the ministry.

The website has a detailed sitemap and a help section for

the users. It also provides an email ID where users can give suggestions for improving the Ministry of Power website.

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In the News

Launching of ASSA (Automation of Small **Savings Activities) Portal** at Odisha



on'ble Minister, of Finance & Public Enterprises of Govt. of Odisha, Sh. Pradip Kumar Amat inaugurated the launching of Small Savings Portal on 14th August 2015 in the presence of

Sh. Debi Prasad Mishra, Hon'ble Minister of Department of Industries, Govt. of Odisha, Sh. R. Balakrishnan, IAS, Addl. Chief Secretary, Finance Department, Govt. of Odisha and State Informatics Officer, NIC-Odisha State Centre Sh. Susanta Kumar Panda along with officers from NIC, Odisha State Centre, Directorate of Small Savings, Finance Department, Govt. of Odisha and members of News Paper Agencies and Media.

The main objective of ASSA portal is to capture data on small saving deposits at field level offices across the state, which can be directly used as input for small savings incentive lucky draw.

The launching of Small Savings Portal has taken up the job of providing a more trans-

efficient parent, and accurate small saving lottery process along with basic citizen services.

While inaugurating, Hon'ble Minister appreciated the joint efforts made by Directorate of Small Savings, Finance Department, Govt. of Odisha and NIC by estab-



lishing an ICT based solution that will cater the need of the organization with the objective to automate the entire small savings activities workflow i.e. starting from preparation of field level data to final publication of lottery results.

Sh.R. Balakrishnan, IAS, Addl. Chief Secretary, Finance Department, Govt. of Odisha, in his address highly appreciated the efforts made by NIC, Odisha State Centre for supporting various computerization activities in Finance Department, Govt. of Odisha. He emphasized on validation details while capturing filed level data and issuing of lucky draw coupons.

In his guest of honor address Sh. Susanta

Kumar Panda, DDG & SIO, NIC, Odisha State Centre thanked the finance department for entrusting on NIC to develop the Automation of Small Savings Activities (ASSA) Portal, which will be very useful for field level staff of Directorate of Small Savings and general citizen to fetch lucky draw coupons on Small Savings.

The event was coordinated by team of finance comprising Sh. Dilip Kumar Jena (TD), Smt. Minati Sahu (TD) and Sh. Bebin Mishra, (STA-B) from NIC, Odisha State Centre, Bhubaneswar along with Sh. Biraj Kumar Das, Special Secretary cum Director, (Small Savings), Finance Department, Govt. of Odisha.

A. K. HOTA, ODISHA

E-Governance workshop & NIC Data Centre visit for **IAS Probationers at NIC, UP State Unit, Lucknow**



half day workshop on e-governance was organized at NIC, U.P. State Unit and Lucknow for the IAS & IFS

probationers in the state. 12 IAS & 3 IFS probationers posted at various positions in the districts attended the three hour workshop held at Yojna Bhawan, Lucknow. The session was divided into two parts. In the first session, Dr. Saurabh Gupta (STD & SIO,) NIC, Uttar Pradesh presented in detail the various e-governance projects in the state including e-district, e-scholarship, Land Records, Treasuries, Transport, Com-

mercial Tax, UP Public Service Commission, Social Pensions, Food & Civil Supplies etc. He also gave an overview of the IT infrastructure available at the NIC, State Centre and the Districts. The participants showed



Dr. Saurabh Gupta, STD & SIO addressing the participants

keen interest in various e-governance projects and future roadmaps. They also discussed various challenges faced at the district level with NIC project teams.

In the second session, a visit to the NIC Data Centre was organized for the participants. Here, the participants

were shown the NIC Server Farm, storage solutions, backup infrastructure and NICNET & NKN NoC. The participants were also shown real-time Network Monitoring through NMS. The workshop ended with the vote of thanks by workshop participants.

ANSHU ROHATGI, UTTAR PRADESH

Launch of Education **Department website and RMSA Portal by the Hon'ble** of Chief Minister, Himachal Pradesh



h. Virbhadra Singh, Hon'ble Chief Minister of Himachal Pradesh launched the integrated Department of Education website http://himachal.nic.

in/education and the Swayamsidham web portal http://rmsahimachal.nic.in on 27th August 2015 at Shimla.

Speaking on the occasion, the Hon'ble C.M congratulated the Department of Education for their initiatives and mentioned that the project envisages to improve the learning experience and to build the capacity of teachers. He said that it was a step which enables all the schools to continuously engage themselves in self improvement and accountability and that it will also help the students to online search for the answers to their questions. Besides, it would help as a guiding tool for reference, research, analysis, synthesis, independent learning and application thereof and online interface to teachers and students of 9th and 10th so as to train them in upgrading their skills.

Swayam Sidham project, the first of its kind in the country has been developed with a view to make the schools self-reliant, self-supportive, self-accountable

and techno-friendly and it will establish standards for teaching-learning, assessment, school leadership and management, he added. This will help to monitor on a continuous basis, the change in learning level of students and thus making the schools self-accountable.

Sh. P.C. Dhiman, Addl. Chief Secretary (Education) told that the portal aims to make the schools techno-friendly. The website contains various links to lesson plans, question-banks, learning indicators prepared by teachers themselves during training programme. The content is available for class 9th and 10th. It also



Hon'ble Chief Minister launching the Portals

shows the subject books and board papers.

He hoped that every school head holds monthly meeting with the teachers of his/ her school to discuss lesson plans of topics which are going to be taught in the coming month, focusing mainly on objectives, presentations, student's tasks, question banks etc.

Sh. D.C. Rana, Addl. Secretary (Education), Sh. Ghanshyam, State Project Director, RMSA and Dr. Anima Sharma, State Coordinator, who all are the driving forces behind the Swaymsidham project, were present on the occasion.

AJAY CHAHAL-HIMACHAL PRADESH

Inauguration of Rajbhavan Visitor Online Request Application by Hon. Governor

isitor Online Request Application (http://rajbhavan-maharashtra. gov.in) was inaugurated by Hon. Governor of Maharashtra on 21st Aug 2015. The software used in Rashtrapati Bhavan, New Delhi is customized and implemented by NIC Maharashtra with the help of NIC Rastrapati Bhavan team. It is integrated

with SMS gateway and Email service of NIC. Payment gateway is of State Bank of India. With the help of this application, citizen will be able to visit during 6 AM to 9 AM to view the sunrise from the

Sunrise Gallery of Rajbhavan (SIO), Maharashtra demonstrates the appli-



cation to Hon'ble Governor, Maharashtra.

MOIZ HUSSAIN, MAHARASHTRA

J&K-eSamikSha Capacity Building Training Report Srinagar (20-21 August, 2015)

SamikSha, an online Monitoring and Compliance Mechanism has been developed by NIC Cell Cabinet Secretariat to fast track the compliance of pending action points, proposal, targets, etc. of Various Ministry/ Department/ Organization/ Agencies of Govt. of India and Government of States and UTs. The Portal has been designed to enhance efficiency, bring transparency, reduce the need of protracted correspondence and improve the communication between Government to Government (G2G).

In view of the success of eSamikSha System, Govt. of J&K had desired to host J&K-eSamikSha similar to eS-

Workshop on Implementation of e-Gov Standards and Open Technologies at Agartala

A

two-day workshop on "Implementation of e-Governance Standards & Open Technologies" for the NIC

professionals from North Eastern States of India was conducted on 22nd and 23rd of September 2015 at Pragna Bhavan, Agartala, Tripura. 30 Officers participated in the workshop, which was jointly organized by NIC and STQC.

The objective of the workshop was to encourage the adoption and implementation of Open Standards and Technologies in the e-governance projects to enable Interoperability amongst various information amikSha with customization for the use of J&K State. J&K-eSamikSha monitors the compliance status for various categories like CM's Tour Note,



Capacity Building session for J&K-eSamikSha

Presentation to Chief Minister Project Monitoring, New Initiatives etc. Customized Information Dashboard also presents the statistical view, various correspondences at a glance.

In this context, a two day capacity building session on J&K-eSamikSha portal was conducted for the officials of various department of Govt. of J&K. Training sessions have been taken by Akash Kumar Gupta (Scientist-B) and Yogesh Kumar Agarwal (Scientific Officer) of Cabinet Secretariat, Rashtrapati Bhawan. During the training session all the modules of J&K-eSamikSha have been demonstrated in detail. It has also been explained that how J&K-eSamikSha will cater their inter-departmental needs.

Sh. Abhay Kumar (SIO, J&K State) coordinated the training sessions and assured the participants to promote all possible technical help from NIC for smooth implementation of the Project.

The session ended with the Q & A session and Vote of thanks.

DR. SHUBHAG CHAND-DELHI

systems in gov ernment.

Mrs. JRD Kailay (DDG, NIC) inaugurated the Workshop in the presence of NIC officers; Dr. P. Balasubramanian (DDG), Sh. C.K Dhar (STD & SIO), Sh. Sunil



C.K Dhar (STD Organizers and participants of the workshop venue

Kumar Bhushan (STD) and Sh. P. K Pankaj (TD).

The first day session focused on the MDDS Implementation approach and practices towards maintaining standards among government websites, Adoption of Interoperability framework and Global medical vocabularies in e-Hospital etc.

On the second day session, Dr. P. Ba-

lasubramanian has introduced various aspects pertaining to Open Web Technologies and OSS stack/ tools. Sh. S. Ramachandan (PSA, NIC) of OTG Chennai demonstrated the Performance and Tuning of OSS server. All participants embraced the workshop with great enthusiasm and request was put forward to conduct similar useful workshops during the year.

CHAITALI BHATTACHARJEE-TRIPURA

AEBAS Training Camp Held at the Directorate of Fisheries, Bilaspur, Himachal Pradesh

ne-day training on Aadhaar Enabled Biometric Attendance System was organized NIC Himachal by Pradesh in the Directorate of Fisheries at Bilaspur on 11th September 2015. The objective of the training was smooth roll-out of the AEBAS in all District and Division level offices of the Fisheries Department. About 25 officers, including all Deputy Directors, Assistant Directors and other officials posted at Division/ District level participated in the training.

Sh. Shailender Kaushal, State AEBAS coordinator and Sh. Rakesh Kumar (DIO), Bilaspur imparted the training and their registration for implementing the AEBAS. A Finger Print recognition device was installed at the training hall for the registration of officers attending the training as well as for conducting the demonstration on the procedures of installing FP devices.

NIC Team provides detailed information and addressed various queries raised by participated of-

ficers. The Team was guided by SIO, NIC, HP. It was decided that all Divisional officers will place supply orders to HPSEDC for the purchase of FP devices and the same shall be installed at various offices. The compliance was required to be reported by all officers to the Directorate within a period of one month.

Sh. Gurcharan Singh, Director-cum-Warden of Fisheries, Him-



Director-cum-Warden (Fisheries) addressing the participant officers

achal Pradesh extended deep gratitude to the team of NIC for coming all the way from Shimla to impart the valuable training to officers of the Department, which was the need of the hour and proved beneficial to the Department.

> AJAY SINGH CHAHAL, HIMACHAL PRADESH

Nagaland - TrackChild 2.0 Portal training conducted for CCIs



two-day State Level Training for Child Care institutions Nagaland on usage of Trackchild portal was

held on 29th and 30th of September 2015 at Zonal Council Hall Kohima. This Training was organized by the State Child Protection Society, Nagaland and its was attended by participants from 58 Child Care Institutions (CCIs).

On the first day of the training programme the Society Director of State Child Protection Society & Joint Secretary of Social Welfare Department, Sh. Z. Nyusietho Nyuthe provided the welcome address. During his address note he briefly highlighted the various types of homes available under the Child Care Institutions, their roles and also their differences. He strongly stated that all the CCIs need to maintain certain standard as prescribed under the JJ Act and also to conduct inspection of all the CCIs.

On the second

day, Sh. Satahi Sujho, Programme Manager Training addressed his welcome and focused that Trackchild was introduced by the Ministry of Women and Child Development for tracking missing and found children. He stated that Nagaland is the forerunner in implementing integrated child Protection scheme in India. However, we are lacking behind in maintenance of database. Therefore, the objective of the training was to equip all the Child



Care Institutions with information to handle the Trackchild Portal.

Smt. Swedeseno Natso, Systems Analyst and Project Coordinator of Trackchild project NIC, Nagaland State Centre was the resource officer of this two days training programme. Participants were introduced through the various interface of Trackchild and uploading of the usages on Trackchild portal 2.0 in was discussed.

NOVOTSONO, NAGALAND

Nagaland: Jeevan Pramaan Camp for exservicemen held at Wokha on 2nd & 3rd July 2015

eevan Pramaan Camp was held on the 2nd & 3rd July, 2015 at NIC, Wokha District Centre for the ex-servicemen of Wokha District at DC Office Complex, Wokha, Nagaland. This camp was arranged with the Digital India Week celebrations at Wokha District, wherein a total of 144 pensioners were issued the Digital Life Certificates.

The event was organized by Rajya Sainik Board, Nagaland, Kohima led

by its Director, Brig. K. K. Roy Choudhary, SM, VSM (Retd.). Throughout the camp days, Sh. George Kath Rengma (DIO NIC), Wokha District Centre and his team provided an actechnical tive support. NIC Co-ordinator



Sn. G. Rengma (DIO Wokna), Sn. Yan (RSB, Kma), Pensioner with DLC, Sn. Robin Lotha (DC, Wokha), Sh. Lanu Ajer (PSA, NIC), Sh. C.K Borah (RSB, Kma), Ms. Novotsono (SO/SB)

of Jeevan Pramaan in Nagaland, Sh. Lanusungkum Aier (PSA) and his team members, Ms. Novotsono Natso (SO), were present at Wokha on the first day of the camp and provided

necessary technical support for setting up the systems for the successful conduct of the camp.

NOVOTSONO, NAGALAND

Inauguration of On-line Shasanadesh Service in Uttar Pradesh



h. Akhilesh Yadav, Hon'ble Chief Minister of Uttar Pradesh launched the 'Online -

Shasanadesh' portal on 4th July 2015. Addressing the representatives of the media, senior officials of the state government and the citizens participating in the event, the Chief Minister emphasized that the government is committed in solving and bringing transparency in the government system. He further stated that the government is taking all necessary steps to streamline the process and ensure ease of governance in the state. The Chief Minister congratulated the team involved in the project and added that the system is a major step towards transparent government and will benefit various sectors of the society.

The Shasanadesh Portal (http://shasanadesh.up.nic.in) is a key initiative of Government of Uttar Pradesh towards e-governance. It has made all the Government Orders (Shasan-

adesh) available online that can be accessed on anywhere-anytime basis. The Secretariat of Administration Department has made mandatory that the Government Orders issued after September 16, 2013 will be considered valid only after they are made available online. This has ensured transparency in the system and has prevented false practices. This practice has also created a citizen friendly environment in the state.



Sh. Akhilesh Yadav, Hon'ble Chief Minister of UP inaugurating the portal

Speaking on the occasion, Sh. Alok Ranjan (Chief Secretary), GoUP said that the facility provided by the portal is a significant step towards e-Governance and will result in creating transparency in the government functioning. Sh. Prabhat Mittal (Secretary), Sachivalaya Administration, gave a brief presentation on the Shasanadesh System and its citizen friendly e-Mail subscription services.

ANSHU ROHATGI, UTTAR PRADESH



Order of Merit Award winning projects and initiatives by NIC (Random and partial list)

- Jeevandan, A Cadaver Transplantation Programme National Informatics Centre, Andhra Pradesh
- WaterSoft Integrated MIS National Informatics Centre, Andhra Pradesh
- e-Labs National Informatics Centre, Andhra Pradesh
- CM Window Haryana Public Grievances Redressal and Monitoring System - National Informatics Centre, Haryana
- Syayam Sidham Project, Education Department National Informatics Centre, Himachal Pradesh
- Online Integrated Hotels Reservation System, HP Tourism Development Corporation - National Informatics Centre, Himachal Pradesh
- Electoral Rolls Management System of State Election Commission - National Informatics Centre, Himachal Pradesh
- Works MIS software of HP Irrigation & Public Health Department - National Informatics Centre, Himachal Pradesh
- Hot Dak Tracking System (HDTS) NIC Hamirpur, Himachal Pradesh
- JailVaarta Video Conferencing of Prisoners With Relatives -National Informatics Centre, Himachal Pradesh
- Schemes Monitoring System NIC Mandi, Himachal Pradesh
- Manav Sampada eHRMS Human Resource Management System - National Informatics Centre, Himachal Pradesh
- Government eProcurement System of NIC (GePNIC) National Informatics Centre, Jammu & Kashmir
- Registration and Licensing of Fishing Craft National Informatics Centre, Kerala
- iSarita (e-Governance Ease of doing business) Department of Registration & Stamps, Govt. of Maharashtra National Informatics Centre, Pune, Maharashtra
- e-DISNIC electronic District Information System, Collector Office Kolhapur - National Informatics Centre, Pune, Maharashtra
- eRegistration (Finance & Reforms De-Centralization) Department of Registration & Stamps, Govt. of Maharashtra - National Informatics Centre, Pune, Maharashtra
- Online Transaction Search and Document Download System



"Concrete and Effective e-Governance Framework wins "ELETS" SMART CITY AWARDS 2015

Award: SMART CITY AWARD Categ: Smart Governance Initiative

"Concrete and Effective e-Governance Framework by NIC Akola, Maharashtra". The concept for effective eGov is based on Free and Open source software, Virtualization, Server Consolidation, Cloud computing and Leveraging shared Government Infrastructures

Read more at http://www.informatics.nic.in/news/newsdetail/ newsID/759

(eSearch), Department of Registration & Stamps, Govt of Maharashtra - National Informatics Centre, Pune, Maharashtra

- KIRAN Tracking System National Informatics Centre, Meghalaya
 ICAR Experts SMS Services to Farmers National Informatics
- Centre, Meghalaya
 e- Registration of Dealers & e-Amendment, Taxation Department National Informatics Centre, Meghalaya
- BHULEKH (Land Records Web Portal) National Informatics Centre, Odisha
- e-Pothi, Online Cataloguing of Manuscripts of Odisha State Museum - National Informatics Centre, Odisha
- 'e-Nijukti' by Odisha State Employment Mission National Informatics Centre, Odisha
- e-Shramik : Online register of Odisha Building and other Construction Workers - National Informatics Centre, Odisha
- **PATHSHALA, Tool for skill development** National Informatics Centre, Odisha
- Material Management System for Public Health Engineering Department, Government of Rajasthan - National Informatics Centre, Rajasthan
- Online Social Security Pension System (RajSSP) National Informatics Centre, Rajasthan
- Computerization of Registration Stamps (IGRS) National Informatics Centre, Rajasthan
- ASHA Soft, National Health Mission. Government of Rajasthan
 National Informatics Centre, Rajasthan
- Electronic Government Receipt Accounting System (e-GRAS) National Informatics Centre, Rajasthan
- RTE online Portal Directorate of Elementary Education Rajasthan - National Informatics Centre, Rajasthan
- TSKS (Household Survey) Linkage with e-PDS National Informatics Centre, Telangana
- Uttarakhand Core Registration System (CRS) National Informatics Centre, Uttarakhand
- Web Portal Management Framework National Informatics Centre, Uttarakhand
- Uttarakhand Excise Management System National Informatics Centre, Uttarakhand
- Uttarakhand Rajbhavan Secretariat Computerization Project -National Informatics Centre, Uttarakhand
- SAMADHAN-An auto-escalation enabled Public Grievance Redressal Portal - National Informatics Centre, Uttarakhand
- Core Treasury System (CTS) Mr. L N Pant, Director Treasury -National Informatics Centre Uttarakhand

See next page for glimpses of Awards conferring ceremony >



Waqf Management System of India receives the 2015 Leaders Award

Award: The 2015 Leaders Award Categ: Most admired Brand for technology in India

Waqf Management System of India (WAMSI) is an on-line workflow based Waqf Properties' Management System developed to manage and maintain up-to-date status of the Waqf Properties

Uttarakhand

Read more at http://www.informatics.nic.in/news/newsdetail/ newsID/753



NIC dominated the Skoch Smart Governance 2015 Awards by bagging about two dozens of smart technology awards and has proved again that it is the best in providing technology solutions for good eGovernance in the country. Displayed here are some of the snaps of the Award conferring ceremony of the event. Congratulations to each one of you for bringing in laurels. INFORMAT-ICS appreciates your tireless and sincere efforts in the mission of keeping India digitally empowered.

