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Informatics

Digital India
Power To Empower

Introducing a new column in this issue

Appscape

Get to know the popular eGovernance Mobile Apps developed and rolled out!

EDITORIAL

W ith this issue, our magazine steps into its 26th year of publication. We owe tremendously to all our authors, contributors and correspondents and are thankful to each of them for the continued support and encouragement. While the exciting journey continues, our key focus to disseminate quality information remains unchanged.

Digital India movement of the Government is poised to create transformation in the life of citizens. In the ICT arena today, we see numerous mobile Apps being developed and rolled out which are gaining popularity due to multiple reasons; ease of access to citizen information and services being the foremost. 'Appscape' is thus introduced in this issue which showcases some of the prominent and useful mobile Apps introduced for eGovernance.

In the 'Spotlight' section of this issue, we have two guest columns; Shri Sandeep Kumar, IAS, Director of TCP, Himachal Pradesh writes on the various strategies adopted by the department using ICT to improve efficiency as well as reducing footfalls in the offices. In the other article, the Director General of CISF, Shri OP Singh, IPS describes the ICT excellence that the Force has achieved recently. While 'From the States' covers Jammu & Kashmir and Jharkhand, Osmanabad of Maharashtra is the focus in 'District Informatics'. Soil Health Card, Kendriya Vidyalaya Shaala Darpan and Kanyashree4.0 are the three articles featured in 'eGov Products & Services'. Our regular sections such as 'Accolades', 'International eGov Update' and 'In The News' are here for you as usual.

We are committed to enhance the quality of *Informatics* and for that, your suggestions would be critical. Please do write to us and let us know how you feel the improvement can be made.

Reading has also the power to increase happiness. Wish you happiness always.

Editor

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JAMMU AND KASHMIR
Harnessing the Power of ICT to Usher e-Governance in the High Himalayas

Even in the face of multiple challenges, NIC-J&K has been providing excellent services to various Departments of the State Government by developing and deploying best practices, tools, techniques and processes in the field of ICT. NIC-J&K has become almost the sole destination for the Departments, when it comes to searching for and deploying ICT solutions, both at the State as well as the Districts level.

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Edited by
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Situated in the northern most part of India, Jammu & Kashmir State (J&K) has a current population of 128 lakhs and is the only State of India which has two Capitals; Jammu in winter and Srinagar in summer. The State is divided into three regions; Jammu, Kashmir and Ladakh and these regions are further divided into 22 Districts.

Subsequent to inception of NIC State Centre of J&K in 1988, NIC District Units were established in all the 14 Districts existed. In 2009, another 8 Districts were formed and NIC promptly established its presence in those too. In the beginning, NIC-J&K was the only ICT establishment in the State and hence played a very crucial role in promotion of ICT culture in the Government Departments. The NIC-J&K has its State Centre at Civil Secretariat Jammu and a Camp Office at Srinagar that functions from May to October. NIC also has its Centres in the J&K High Court wings at Jammu and Srinagar, IVFRT Project Office, Jammu and Srinagar and the Raj Bhawan, besides the 22 District Centres.

NICNET & NKN - EXTENSION AND INTEGRATION FOR DATA SHARING AND VC SERVICES

- High speed Internet connectivity provided to around 250 State/ Central Government Departments including all important offices of Civil Secretariats at Jammu & Srinagar, Raj Bhawans, all Deputy Commissioners, High Courts, Legislative Assembly, J&K Police, CBI, Income Tax and number of others
- Over 10000 LAN nodes in the State
- 20 Institutes of Higher Leaning in J&K have been provided with high speed Internet connectivity under NKN Project

- 2x10 Gbps connectivity to State (Redundant)
- All 22 NIC Districts are provided with 1 Gbps / 34 Mbps Leased Line with VSATs as back-up for 05 remote Districts
- VC facility for Offices of the Governor, the Chief Minister, Chief Electoral Office, all 22 Districts HQ, 2 Divisional Commissioner Offices, J&K Civil Secretariat, J&K High Court, Legislative Assembly, Directorate of Census Department and 6 various Directorates
- MCU based integration with studios of DIT & J&K Police within & outside State
- NICNET based connectivity to all SSPs, DIGs and various wings of J&K Police, which includes the VC facility
- Central Wi-Fi based access to more than 2000 mobile devices in Civil Secretariat
- Storage-High Speed Access to Jammu & Kashmir specific data on Internet to Citizens, Government offices, Employees, Businesses
- Email accounts of more than 6500 offices/ officers created

WEB SERVICES
Website Design, Development & Hosting including Domain registration, Security audit, Remote publishing for:
- Jammu & Kashmir State Government Portal
- Twenty two District websites
- Over 150 websites of State Government organizations
- GIGW and WCAG2.0 compliant websites
- Cloud hosting of all websites

MOBILE APPLICATIONS TO SUPPLEMENT WEB CONTENT
e-Assembly mobile App developed for viewing and submission of answers by the Govt. Departments for the questions by Hon'ble Members during Assembly sessions.

STATE LEVEL SOFTWARE PROJECTS

E-LIBRARIES

- **A Digital Agenda For Library Automation & Networking**
(http://jkpubliclibraries.nic.in)

Govt. of J&K has envisaged that 140 Public Libraries in J&K are to be covered under the project for automation and networking using the proprietary e-Granthalaya software of NIC. NIC/ NICSI executed the project in four largest libraries and another 22 are on the anvil in phase2 using e-Granthalaya4.0. The project involves Automation of in-house activities and User services through creation of Computing Infrastructure, Networking and Online Public Access Catalog (OPAC) & Digital Resources.

- Website of J&K Academy of Art, Culture & Languages was launched *(http://jkculture.nic.in)*

- Website of the Department of Archives, Archaeology and Museums was launched *(http:// jkarchives.nic.in)*

- Carried out digitization of 500 rare books at the Public Libraries

JKERMS: ELECTORAL ROLLS AND EPIC MANAGEMENT SYSTEM OF J&K *(http://ceojk.nic.in)*

NIC-J&K has developed (in-house) and deployed a large number of ICT based applications for State Elections Department.

- Hosting of ERMS Software/ Database Centrally at NIC J&K Data Centre in Jammu

- Transliteration from Urdu to English

Hon'ble Chief Minister, Mehbooba Mufti Sayeed inaugurating the ePDS portal

and Urdu to Hindi

- Downloadable Electoral Rolls (3 languages) on official website, Name based and EPIC Number based Search (3 languages), E-Filing of Claims and Objections

- Claims and Objections (View) - Mobile (SMS) Services through NIC SMS Gateway

- Video Conferencing

- Online District Election Management Plan (DEMP), Online Employees Randomized Deployment System (JKEDIS), Online EVM Randomization, Web & SMS based monitoring of MCC violations

- Web and SMS based monitoring of law and order problems

- SMS based Poll-day Events Monitoring, 'Q' Information System (Voter queue on poll day), MIS Reports, Post Result Tasks. It involves the most extensive usage of Urdu in any ICT application anywhere in India and is the only e-Governance application in J&K having both 'Push' and 'Pull' SMS facility. Rollout of the application has also been made through 1350+ CSC centres

TREASURYNET
(http://jakfinance.nic.in)

A work flow based electronic Bill/ Challan processing system designed as per Treasury business code which:

- Connects all the treasuries with the Central Server

- Processes the bill/ bills DDO's submitted in the treasuries on behalf of the State government

- Takes care of the receipts by the State government from various sources

Shri Omar Abdullah launching eOffice at Deputy Commissioner Office, Jammu

Hon'ble Speaker of Legislative Assembly, Shri Mubarak Gaul inaugurating the website of Legislative Council

BEAMS-BUDGET ESTIMATION, ALLOCATION & MONITORING SYSTEM *(http://164.100.150.230)*

An online web based system developed to manage estimation, prepare budget & documents, allocation and authorize expenditure. Available for distribution of budget from Finance to Administrative Departments. Two modules are Budget preparation and its presentation in State Assembly and allocation/ authorization of expenditure. Implemented and rolled out from the current FY 2017-18 in all the Departments across the State.

GRAS-GOVERNMENT RECEIPT ACCOUNTING SYSTEM *(http://jkdat.nic.in)*

A secure Government Receipt Accounting System, GRAS provides a facility to the Citizens, Business Community to pay Taxes / Non Tax receipts to the Goverment electronically.

CENTRALIZED PERSONNEL INFORMATION SYSTEM (CPIS) *(http://jkcpis.nic.in)*

A web based system to create the centralized database of all the govt. employees for convenient and effective monitoring of employee service book detail, rationalize the staffing pattern and re-deploy staff for efficient and effective service delivery. Application is integrated with PaySys for generation of pay bills. Database is having 2.44 lakhs J&K Govt employees and 1.65 lakhs pensioners data. Database is continuously updated by 5253 registered DDOs.

JKRMCE- J&K REVENUE MANAGEMENT THROUGH COMPUTERIZED ELECTRICITY BILLING

Software to computerize the electricity billing system and Revenue Collection in J&K. Generates various types of MIS reports and has been implemented at 118 Sub-divisions. 13 lakh consumers in the State get electricity bills monthly.

JKGAD PORTAL *(http://jkgad.nic.in)*

The G2C & G2G portal maintains information on all the Council of Ministers, Administrative Secretaries, State Civil Service Officers, Deputy Commissioners, Telephone Directory of State Officers, Award details, Prosecution details and different SRO of J&K. The portal maintains daily government orders/ circulars/ SRO issued by J&K government.

Role based access is given to officers for maintenance of data. APR, Annual property returns, Posting details and other service related issues are being updated through MIS available at JKGAD.

C2G & G2C E-GOVERNANCE SERVICES FOR JKSFC FOR DISTRIBUTION OF TIMBERS

Portal developed for J&K State Forest Corporation (JKSFC) to enable transparent distribution of timbers to bonafide consumers. Consumers can submit application, check the status regarding their timber requirement and can view the timber stock of SFC's depots.

E-PENSION- PENSION ACCOUNTING SYSTEM *(10.149.2.27/epension)*

A G2G & G2C, web based monthly pension processing system for Treasuries to calculate, modify and disburse pensions electronically through JKB. All the State pensioners draws their initial pension from the treasury till their case is settled. ePension is integrated with TreasuryNet and has been developed and integrated with CPIS applications. Pensioners can view their pension disbursement details.

J&K PUBLIC SERVICE COMMISSION (JKPSC) ONLINE PORTAL *(http://jkpsc.nic.in)*

Online portal for one time registration by the candidates and apply online for various posts. Modules are One time registration by the candidate, Integration of SMS & Email, Photo, Signature, Documents, Uploading of Posts advertize by the Department, Online application forms Competitive (KAS), Gazetted posts, Departmental examination, Kashmir Judicial Service, Integration of Payment Gateway, Generation of Admit Card, MIS reports for JKPSC. Around 60,000 applications received for KAS examination, of which 25,000 applications were for post of Lecturers.

AWAZ-E-AWAM- J&K GRIEVANCE PORTAL *(http://jkgrievance.nic.in)*

A web portal for monitoring public complaints to Government of J&K through grievances can be lodged directly to CM Grievance cell and Authority concerned. Complainant gets progress of his complaint through email/ SMS.

J&K SERVICE SELECTION BOARD (JKSSB) ONLINE PORTAL *(http://jksssb.nic.in)*

Online portal for One time registration by the candidates applying online for the posts by JKSSB. Modules include One time registration by the candidate, One time uploading of photo and signature, Integration of Email, One time uploading of documents, Uploading of posts by the Dept., Online application form, Integration of payment gateway, Allocation of exam centres, Generation of admit card, MIS reports. It has been implemented in JKSSB office since 2014-15. Over 10 lakh applications received online through the portal till date.

E-MUNICIPALITIES- HOUSING & URBAN DEVELOPMENT DEPARTMENT PROJECT *(http://jkhudd.gov.in)*

Implemented e-Municipalities Project in all the 84 Urban/ Local Bodies of J&K. The web based e-Governance applications developed & implemented in all the Urban Local Bodies are:

- Birth and Death Registration

Jammu & Kashmir Vahan Dashboard

JKPSC website

Website of J&K eSamikSha

- Processing and Issuance of Building Permissions
- Double Entry Accounting System
- Establishment System
- Public Grievances Monitoring & Redressal System.

The e-Governance applications have been implemented in all the 84 Urban Local Bodies are:

- Online Birth certificate printing facility
- Dashboard facility
- SMS facility integrated with Birth & Death
- Building Permission application

2 Municipal Corporations, 6 Municipal Councils, 76 Municipal Committees are covered. About 500 officials have been trained through multiple training programs directly and through VC. All Nursing Homes and Government Hospitals have been connected with the Birth & Death Software. All the NOC issuing Departments are connected with Building Permission System viz Revenue, PHE, PWD, PDD, Town Planning etc.

JKARMS (J&K ARMS LICENSES PROCESSING AND MONITORING SYSTEM)

Work flow based web application for Centralized Processing and Monitoring of Arms Licenses and Transactions has been developed for all the 22 District Magistrates. Training has been imparted to more than 180 Officials.

CCMS (COURT CASES MONITORING SYSTEM) *(http://jkccms.nic.in)*

Developed to manage court cases and to overcome challenges in handling within the government Departments. Implemented in H&UDD, JMC, SMC, JDA and SDA. System helps to generate different types of reports of court cases.

J&K BOARD OF PROFESSIONAL ENTRANCE EXAMINATION (BOPEE)

Web based application developed and enabled for online registration of applications for Entrance Examinations for admission to professional courses. An offline module was also developed for processing of applications for allotment of Roll number and Centre of examination. The system generates Admit cards, Attendance sheets, and various other reports for J&K BOPEE.

VIDEO CONFERENCING (VC) SERVICES

Extends VC services to all the Districts of J&K besides Raj Bhawan, CM Secretariat, DGP J&K Police, SKUAST, RAMSA, Directorate of Agriculture and CPMG Office. NIC-J&K has provided support for setting up of VC System for 35 Police Offices in J&K.

VMIS- VERIFICATION MANAGEMENT INFORMATION SYSTEM FOR CID, J&K

The system streamlines the verification process being carried out by authorities of Criminal Investigation Department (CID) J&K. Verifications of Service, Passport, LOC and POK can be tracked using this software. Allied wings of CID HQ, J&K responsible for verifications related to NGOS, Schools, and Trusts etc. are also taken care of. More than 30 CID and Police locations are using this software for the last 3 years. About 100 various reports are being generated through the software.

CCTV MONITORING SYSTEM AND BULK SMS SYSTEM FOR SHRI AMARNATHJI YATRA

Electoral Rolls and EPIC Management System of J&K *(http://ceojk.nic.in)*

IP based Video Content Analysis CCTV monitoring system was installed at Yatra Access Control Gates at Domel and Chandanwari. Installation of CCTV system provided Ground zero realities, Automatic Yatris Counting, effective management of Yatra and Yatris rush, Surveillance of Yatra Access Control Gates, effective decision making and real time analysis of various security related threats. Since inception of Shri Amarnathji Shrine Board, first time Bulk Short Message Service was introduced. This Bulk SMS service was used to disseminate information to all registered Yatris for Shri Amarnathji Yatra 2016. Bulk SMS System was used to provide weather, rush of Yatris, track position and various other information as deemed fit by Shri Amarnathji authorities.

ANTI INSURGENCY TRACKER

Software for storing and organizing the details of released militants, missing youths, history sheeters and OWGs was developed at NIC Poonch with the data entry module for released militants, missing youths and OWGs along with PDF file for storing in the Database and Search Criteria (Police station wise, Area of operation wise, village wise etc.).

E-SAMIKSHA
(https://www.esamiksha.gov.in/jk/)

A real time on-line system, configured for monitoring the follow-up action on the important announcements by Hon`ble CM, J&K. Reviewing the follow up action of the presentations made by different Ministries/ Departments to the Chief Minister made easy by using the software. More than 1000 instructions issued by the CM J&K are being updated by the concerned Ministry/ Department/ Agency as and when the status changes or at least every month.

GENPROFITS
(http://jkfunds.nic.in)

Computerized the Fund Offices in J&K. About 4.5 lakh subscribers towards the GPF subscription have been allotted a unique 9 digit code each, thus reducing lot of duplicity and confusion. Start small scale fast strategy was adopted and Civil Secretariat was chosen as a pilot site to test out all the cases and robustness of the software. The software has built-in error checking mechanism that prevents the duplicate data entry of the subscriber. Comparative statements of the compilation figures with the posting figures are available.

E-ASSEMBLY

Launched websites for Q&A Manage-

ment System during the Assembly sessions in both Legislative Assembly and Legislative Council of J&K. *(http://jklegislativeassembly.nic.in)* *(http://jklegislativecouncil.nic.in)* Over 5000 Q&A have already been entered through this software.

VIGILANCE ORGANISATION – SURVEILLANCE SOFTWARE
(http://jkvigilance.nic.in)

The Surveillance software has been developed to computerize the working of different sections of J&K State Vigilance Organization. The software keep record of all Complaints/ Enquiries/ FIRs/ Challans registered.

NATIONAL LEVEL SOFTWARE PROJECTS
(Development/ Implementation/ Support/ Consultancy)

E-PROCUREMENT (GEPNIC)
An online Tendering Solution
(https://jktenders.gov.in)

Implemented for the State Government and provided training to about 3700 officials of J&K Govt./ PSUs. Digital Signature Certificates are issued to over 3100 officials.

E-COURTS Mission Mode Project

Implemented in High Courts and District/ subordinate Courts. 126-Node LAN at High Court in Jammu and 130-Node LAN at Srinagar. 31 of the identified 41 services have been initiated at 20 District Courts.

E-OFFICE PROJECT
(http://dcjammu.eoffice.gov.in)

Implemented in Deputy Commissioner Office, Jammu in order to go paperless, increase accountability, efficiency and transparency in the service delivery.

SPARROW
(https://sparrow.eoffice.gov.in)

The online workflow based system for enabling IAS officers to file their APAR has been implemented for IAS and IPS officers in J&K.

VAHAN- ONLINE PORTAL FOR REGISTRATION OF VEHICLES

Implemented VAHAN 4.0 a web based and workflow based online application in MVD/ Transport Deptt., J&K. VAHAN 4.0 is implemented in 18 RTO offices of J&K.

EPDS-PUBLIC DISTRIBUTION SYSTEM COMPUTERIZATION
(http://jkfcsca.gov.in)

Transparency portal, Grievance Redressal Portal and Online Allocation of Supply Chain Management System for Food, Civil Supplies and Consumer Affairs, J&K were developed and launched. Through NIC-CAS software, Master data was created for all the District and Tehsil level State food Offices, 155 Depots (State Godown) and 6340 Fair price shop details.

Online Learners License Test inauguration by Hon'ble Minister of State (Transport), Shri Sunil Kumar Sharma at RTO, Kathua

RATION CARD DIGITIZATION

28.41 lakh Ration cards with 1.26 Crore members were digitized and online allocation of food grains started in 2 Districts of J&K on pilot basis.

AGMARKNET
(http://agmarknet.nic.in)

J&K has sanctioned 34 Nodes at the Mandis as well at the Directorate of Horti-culture Planning and Marketing. Details about the pricing/ arrivals and transport information and market profile of all the markets are available online. The pricing data is being uploaded daily for the consumption of farmers as well as Government agencies.

MICRO, SMALL AND MEDIUM ENTERPRISES

Trainings were held for over 10 Directo-rates of Industries & Commerce and more than 80 people were trained for handling the EM-I & EM-II web application.

JEEVAN PRAMAAN CERTIFICATE
(https://jeevanpramaan.gov.in/)

NIC-J&K co-ordinated with State Finance Dept. for issuance of notification for acceptance of Jeevan Pramaan Digital Life Certificates at Bank. Camps were held for the enrolment of Defence Pensioners at DPDO Jammu, Akhnoor, Udhampur, Rajouri, and Srinagar and for Army 26 Inf. Division, Jammu in 2016

PUBLIC FINANCIAL MANAGEMENT SYSTEM (PFMS) *(https://pfms.nic.in/)*

Implementation in J&K and 21,226 agencies registered. NIC-J&K provides technical support for integration of treasuries with PFMS, upload master data on PFMS and mapping of most of CSS with State Schemes. Organized workshop in Dec 2016 and 3 training programs for Nodal officers during Jan-Feb 2017.

NATIONAL ANIMAL DISEASE REPORTING SYSTEM (NADRS)

- Implemented in all the 158 Locations in J&K (2 Directorate Level, 22 District Level and 134 Block Level Nodes
- Animal Disease Reporting through various Channels like IVRS, SMS, Email and web based system
- Centralized Animal Disease Database at National Level, GIS based Decision Support System and Analytical System made available using analytical model-ling tools

AEBAS (AADHAAR ENABLED BIO-METRIC ATTENDANCE SYSTEM) IMPLEMENTATION

- 25 NIC Offices
- 15 Central Government Offices
- 182 Organisations of State Govern-

Election Commission of India Special Award to NIC-J&K (2015)

District Kupwara, J&K won Gold at the Digital India Awards 2016

ment registered
- All the State Government Offices located at Civil Secretariat

E-PRISON- AUTOMATION OF JAILS

e-Prison used in 12 Districts and 2 Central Jails in J&K. Offices of DG Prison and Jails have been provided Wi Max connectivity using the NICNET from NIC District offices. Details of over 5000 registered convicts entered in software.

PRAGATI- SOFTWARE TO MONITOR IMPORTANT PROGRAMMES AND PROJECTS *(http://pragati.nic.in)*

Office of CS J&K uses NIC connectivity for Video Conferencing of PRAGATI for 6 months from Jammu and 6 months from Srinagar.

E-HOSPITAL@NIC

Implemented the software in 16 Health Institutions of J&K. On site e-Hospital implemented in 2 Districts, 4 Sub-District Hospitals and 10 Primary Health Centres. Around 28 lakh registrations and 1.5 lakh admissions have been made through this system since Jan. 2013. More than 5 crore billing made so far.

NSAP – NATIONAL SOCIAL ASSISTANCE PROGRAMME

1.4 lakh beneficiary records of J&K were digitized, seeding with AADHAAR is in progress and would be linked to DBT/PFMS in 2017.

RURAL DEVELOPMENT AND PANCHAYATI RAJ MIS *(http://iay.nic.in)*

Implemented & imparted training in J&K

- MIS on MGNREGA is also being used in J&K
- AWAASSoft - eGovernance solution for INDRA AWAS YOJNA for Rural Housing is implemented in J&K

NATIONAL TRACKING SYSTEM FOR MISSING & VULNERABLE CHILDREN *(http://trackthemissingchild.gov.in)*

Implemented the National Scheme for well-being of children in difficult circumstances and to eliminate abuse, neglect, exploitation, abandonment and separation of children.

ONLINE CGHS@NIC

Modules implemented at Wellness Centre, Jammu. Plastic Card printing request to vendor sent online. Other services available are Transfer Card, Change of HOF and Addition of a new dependent etc. NIC-J&K has extended NICNET connectivity to CGHS Jammu for its online solutions.

NATIONAL SCHOLARSHIP PORTAL NSP2.0

State Nodal officers, Chief Education Officers and Institute Heads were trained for NSP2.0 implemented in J&K. Uploading of Scholarship applications from 22 Districts of J&K through offline/ online mode was ensured. Provided all support during the verification process at each level. Agencies were registered on Public Financial Management System (PFMS) with DSC linking to enable Direct Benefit Transfer (DBT).

SARATHI

Sarathi 4.0, Online portal for Issuance of Learner License and Driving License is implemented in 15 RTOs/ ARTOs and the system is integrated with E-banking payment gateway of J&K Bank.

IVFRT

Immigration, Visa and Foreigner's Registration & Tracking (IVFRT) software has been implemented in all the 22 Districts.

ACCOLADES & AWARDS

- NIC-J&K was awarded for handholding central Mission Mode projects in J&K at Srinagar
- Election Commission of India Special Award to NIC-J&K for "Best Practices in Electoral Rolls and Election Management using ICT tools" on the National Voters' day 2015
- District Kupwara, J&K won Gold at the Digital India Awards 2016, for citizen friendly website and e-Governance initiatives
- PRAYAS, the SMS based online Public Grievances Monitoring System was conferred with the 'SKOCH Order of Merit' in the 37th SKOCH Summit
- Lanura village of Badgam became the first Cashless village in India in December, 2016. Awarded during the National DIO meet, 'VIVID' in January 2017

JHARKHAND State - Bringing Services Closer to Citizens at their Doorsteps through m-Governance

Pioneering ahead with the journey towards making JHARKHAND a digital savvy State, NIC Jharkhand State Centre and its twenty-four District Units have developed and implemented a gamut of e-Governance projects and mobile Apps which showcases the untiring efforts put in to help achieve development in the State through digital transformation

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For a holistic development, Jharkhand State has adopted e-governance and digital technology in a big way; be it in Health, Education, Finance, Commercial tax, Revenue, Transport, Labour, Judiciary and in providing ICT based services to its citizens such as Certificate of Birth/ Death/ Caste/ Income and Residence through **Jhar Sewa**, Food grains through **Public Distribution System,** Tenders bidding through **Jharkhand e-Tenders,** online Vehicle Registration & Driving License through **Vahan & Sarathi**, Employment information through **Employment Portal** are to name a few.

The online system for managing and monitoring the School education through **e-Vidya Vahini,** monitoring Finance & Treasury through **Kuber -** an Integrated financial system, management of government employees through **HRMS** (Manavsampada), the video conferencing facility from State Hq. to all the twenty four districts over NICNET, hosting large number of websites and portals at **Meghraj,** the NIC cloud and the newly established State Data Centre (SDC) have contributed towards realizing the vision of Digital India.

The State government recently launched a campaign, **"Momentum Jharkhand"**, inviting prospective industrialists, investors and traders encompassing various sectors of the economy and facilitating them through an online 'New Single Window System'- for hassle-free projects' approval by effectively reducing delays with the use of ICT.

NIC Jharkhand State Centre and its twenty-four District Units clearly stand out in the journey towards making Jharkhand a digital savvy State. The various e-governance projects & mobile Apps provide a glimpse of the efforts NIC

"
Jharkhand State has moved far ahead in using ICT and providing various services electronically at the doorstep of the People. ICT based services have helped in achieving the goal of uplifting the poor and the deprived for an all-round development through e-Governance. NIC Jharkhand, our trusted and dependent partner in all our efforts to provide ICT based services and project monitoring has played a vital role in steering e-Governance applications in the State.
"

RAJBALA VERMA, IAS
Chief Secretary
Jharkhand

has undertaken towards the goal of development through digital transformation.

E-VIDYA VAHINI

An education portal (http://jhr.nic.in/ education) for school management and

Hon'ble Chief Minister, Shri Raghubar Das launching the e-Vidya Vahini App

school.

Both CRP or BRP use mobile App to send the school attendance and inspection report after registering themselves on the App. using Aadhaar & Cluster code. Teachers register themselves with Aadhaar & School code.

e-vidya Vahini App provides-

CRP Registration: Cluster resource persons will register with their Cluster code and mobile number

Teacher Registration: Teachers will register with their School code and mobile number

monitoring system includes- Students/ Teachers Management and School Inspection. It has many analytical reports for the senior level officers for different types of activities like monitoring the progress of the school as well as students. The various modules are:

- Student Information System
- Marks Allotment System
- Teacher's/ Student's Attendance
- Various Inspection Form
- Report Module for Analysis of
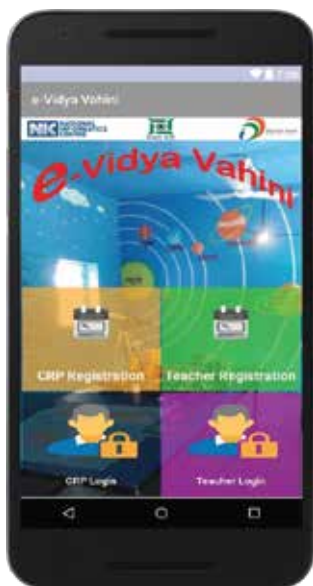
e-Vidya Vahini App

Performance of School and Student

- User Management
- Mobile App for Recording Attendance
- Image Capture using Mobile App
- Mobile App functions without Internet facility as it stores data on mobile itself
- Data gets uploaded when Internet is available

The activities of the project can be monitored using the mobile App developed for the purpose. Each time the Cluster Resource Person (CRP) or Block Resource Person (BRP) or Teacher mark an attendance or sends inspection report, it records the current latitude & longitude of the place and compares it against the Latitude & Longitude of the school saved previously using Geo fencing data within a radius of 200 metres.

Both CRP/ BRP and Head Master of school can send reports via mobile App, which can be compared with the report for a particular day. The different inspection module within it provides monitoring of school and students. Daily report received can be cross checked with the report from CRP.

The examination-wise student marks are entered in the portal which helps teachers to monitor students performance. While capturing student information, Aadhaar is also entered which helps in tracking the student if he/ she has left or joined another

> **" I wish to take this opportunity to express my sincere acknowledgement towards the remarkable contributions of NIC in our State. NIC has always been instrumental in making the journey of e-Governance in our State a big success. With the expertise on technology and Government domain, they have always risen to the occasion whenever State has demanded. "**

SATENDRA SINGH, IAS
Secretary
Department of IT & e-Governance
Jharkhand

Jhar Sewa Website

CRP Login: CRP will login using their mobile number and password given at the time of registration

TEACHER Login: Teacher will login using their mobile number and password given at the time of registration

JHAR SEVA

Jharseva known as **e-District,** is a Mission Mode Project (MMP) which has been highly successful in Jharkhand. Seven services were configured on this platform using **ServicePlus** Framework of NIC. The Certificate Issuance Services for Birth, Death, Caste, Income, Local Resident and Old Age Pension have been made available for applying either from CSCs (Pragya Kendras), Government Jan Suvidha Kend-ras or in Online mode through registration. Digitally signed certificates are made available for downloading. Citizens are not required to visit government office to get the Certificate.

The complete data of Local government bodies, Urban local bodies and Line depart-ments along with their hierarchy were fed into the Local Government Directory (LGD) under Panchayati Raj System. This master directory facilitates the workflow to proceed automatically in the predefined channel without any human intervention. Since inception more than Fifty lakhs certificates have been delivered.

This is an online system in a true sense where citizens not only apply online from his location but also receives the service online. The system works on first come first serve basis for service delivery at the door step ensuring transparency, efficiency and zero interaction between citizens and government.

Service Plus framework enables user to define, configure and add service as per requirement without any programming effort. Many new services including Marriage Registration Certificate are ready while registration of panchayat swayam sewaks has been launched recently. The Jhar Sewa portal provides links for more

A women making thumb impression on POS machine

than hundred external services being provided by the state. Integration with Digital Locker and citizen feedback system are other important value additions under JharSeva which uses Rapid Assessment System (RAS)

LAND RECORD MODERNIZATION

A giant leap towards Digital Jharkhand is making land records digitally enabled thus empowering the citizens of the state. The web enabled land records management system (http://jharbhoomi.nic.in) was developed to provide digital solutions for all land records related services.
It provides following services:

MIS Reports

More than 150 other State Government organizations
- View Record of Rights (ROR) data
- View Land Transaction Register
- Track Land transaction on defined parameters
- View Land Bank Details
- Dashboard to get the details of mutation
- Get details and status of online mutation

Online Mutation & Related Services
- Apply online for mutation
- Get copy of receipt and correction-slip generated online
- SMS alert to citizens during mutation process
- Automation of entire flow of mutation based on role of revenue officials (such as Circle Officer, Circle Inspector, Revenue Karamchari)
- Automatic updation of records of transaction register (Register-2)

Integration with Registry office for Online Mutation
- Suo-motto mutation – Online mutation gets started automatically once the registration process completes

Online Lagan (Rent)
- Citizens can now pay the land Rent online through Jharbhoomi Portal. The records are updated automatically once the rent is paid
- Citizens can generate the Land Rent Receipt online

Integrated Finance Management System

Bhu-Naksha

- Displays the digitized map of Villages
- Features to bifurcate plots after mutation
- Bhu-Naksha maps have links with textual ROR data

Data Entry for Circles

- It contains modules to capture/ edit ROR data of khatiyan & Register-II
- Various reports for Quality checking

PUBLIC DISTRIBUTION SYSTEM
(http://pds.jharkhand.gov.in)

Aadhaar Enabled Biometric Ration Distribution System, inaugurated by the Hon'ble Chief Minister is functional at all the 24 Districts in three mode i.e. Online, Offline & Partial. In online all the transactions are done directly on the server, in partial mode both online and offline transactions are done. Offline dealers does all their transaction in offline mode but upload data at the end. When biometric (Thumb) authentication fails three times, then transaction is done using OTP module. The detail activities are available on the portal dashboard - http://aahar.jharkhand.gov.in.

PADDY PROCUREMENT SYSTEM (E-UPARJAN)
http://jhr.nic.in/uparjan

was developed to automate the paddy procurement for monitoring each activity of the stakeholders. After registration, farmers receive SMS to report on MSP centre for selling paddy which is procured after quality check. They get a receipt of their produce and the amount is credited in their account within a week. The system facilitates:

- Farmers registration for selling paddy
- SMS to farmers for reporting at MSP centre
- Paddy procurement by MSP centre
- Payment to farmers against the paddy sold
- Advance CMR delivered by Millers to FCI
- Rice receipt by FCI
- Payment to Millers against RICE delivered to FCI
- Paddy lifted by Millers from tagged MSP centre within given time frame

KEROSENE OIL DBT

The purpose of direct benefits transfer is to ensure that amount goes to the individual bank account electronically thereby reducing delay in payment- ensuring accurate targeting of the beneficiary and curbing pilferage and duplication. The two types of payment modes are NPCI payment (using UID which is mapped with NPCI) and NEFT payment (fund goes directly to the bank account of beneficiary). Kerosene oil DBT has already started in four districts of Jharkhande.

PRADHAN MANTRI UJJWALA YOJNA (PMUY)

PMUY is an ambitious social welfare scheme with an objective to provide LPG connections to Below Poverty Level (BPL) households. The scheme is aimed to replace the unclean cooking fuels (mostly used in the rural areas) with the cleaner and more efficient LPG. The BPL women whose name are in the SECC-2011 data are given the benefits of Ujjwala Yojana.

Karmachari Sewa Plus App

H.E., Governor Smt. Droupadi Murmu launching the updated website of Rajbhavan (http://rajbhavanjharkhand.nic.in)

Hon'ble Union Minister of IT, Shri Ravi Shankar Prasad visiting the NIC stall at Jamshedpur

The yojana (http://jhr.nic.in/ujjwala), launched by the Hon'ble Chief Minister under the aegis of the three oil companies namely IOCL, HPCL and BPCL uploads the record of identified beneficiaries through web service to NIC server.

INTEGRATED FINANCE MANAGEMENT SYSTEM (KUBER)

Integrated Financial Management Information System (IFMIS) facilitates efficient fiscal management for the state. It encompasses mobilization and allocation of resources for the overall development of the State. The present version of IFMS 1.0 named as **KUBER** was started in year 2006 with web based core module of Treasury over SWAN (JharNet) which evolved into the present - IFMIS.

The Finance Department has undertaken various e-governance initiatives with the help of NIC for treasury automation, GPF Computerization, pensions, audit as well as empowerment of Govt. employees through its portal.

Above activities are integrated into IFMS which empowers the government in managing, monitoring and controlling its financial resources effectively and efficiently.

Modules of IFMS Version 1.0
- Budget Monitoring System
- Integration with PFMS portal
- Integrated Fund Management System – (Department > Budget Controlling Office > DDO > Treasury)
- DDO Level Bill Management System
- Treasury Information System
- e-Payments
- Treasury Management Information System
- Employee Portal - for empowering Government employees
- GPF Accounting System
- Treasury Information System interfaced to AG Office (Voucher Level Computerization)
- SMS Services through common gateway of C-DAC
- Personal Claim Settlement Cell Module
- Karmchari Sewa Plus (Mobile App)

Details of coverage of the targetted Population
- Department of Planning cum Finance Jharkhand (Finance & Planning Division)
- Revenue Departments
- Other State Government Departments
- Employees & Pensioners
- Reserve Bank of India
- Agency Banks
- Citizens/ Businesses/ Vendors
- Accountant General

JHARKHAND ELECTRONIC GOVERNMENT RECEIPT ACCOUNTING SYSTEM (JE-GRAS)

A common receipt portal has been designed and integrated with different revenue portals of various departments enabling e-Payments to Government by citizens. The portal has been integrated with PayGov and SBIePAY gateways. The portal facilitates payments by using Internet Banking/ Credit Card/ Debit card and OTC.

Architecture

All Treasuries are connected to State Data Centre through SWAN/ WAN for accessing the Treasury Application Software and its modules. Individual Treasuries/ GPF Offices in various districts have 7 to 8 clients connected to a managed switch which is further connected to SNC through SWAN protected by Firewalls.

All modules of IFMS Ver1.0 connects to Oracle engineered system EXA DATA which hosts Oracle Database 12C on Oracle LINUX in clustered mode meeting the objective of high availability with zero data loss from Jharkhand State Data Centre.

Frontend delivery channels (including application software). All Treasury Applications are developed on Asp.Net4.0.

VAHAN & SARATHI

Launched in the whole State after Vahan2.0, **Vahan4.0** features:

- Dealer Point Registration
- e-Payments
- Vehicle Registration with related e-Services

Sarathi4.0 was implemented in the entire State. Facilitates the following online submission by citizens:

- Learners License
- Photo & Signature upload

- Driving License and related services
- Slot Booking for DL Test

In both Vahan4.0 and Sarathi4.0, various types of reports required by DTO/ MVI and Department officials are generated

HRMS (MANAVSAMPADA)

A G2E application from NIC HP was customised as per the requirement of Jharkhand State. The highlights of the project are:

- Employee oriented digitization
- Departments covered - 69 (including Districts and Divisions)
- Offices covered - 67124
- Employees registered- 2.18 lakhs (100%)
- Verified and locked entries- 1.63 lakhs
- Service book entries by Establishment - 35187
- E-Service book verification-27019
- Online Transaction Module (OTM) for generating Appointment orders, Relieving Orders, Joining, Increment, Intra Departmental Transfers is available
- Mobile App- e-Avakash for IAS Officers being used for CL and HQ Leave
- Web application for Online Leave- CL, HQ Leave and Compensatory Leave
- Employees details are linked to Treasury Data for authentication

EMPLOYMENT EXCHANGE

A common platform for job seekers, employers and exchanges. It facilitates registration of job seekers and employers, search for vacancies, selection of candidates, SMS alerts etc. Intimation about different 'rojgar mela' to eligible candidates Zaroorat Module is a search facility for local skilled resource (Plumber, Electrician etc) within a post office area.

E-PROCUREMENT

The application (jharkhandtenders.gov.in) has completely transformed the procurement process bringing transparency, speed and wider participation of bidders in govt. tenders. Its salient features are:

- Procurement of goods &services online
- Central software of NIC – GePNIC
- Covers full life cycle of procurement
- 32 Departments are on board
- e-Auction implemented in Water

Resources Department and Forest Development Corporation

E-PRISON

A web based application (http://eprisons .nic.in) developed for monitoring prisoners lodged in various jails of Jharkhand. Its features are:

- Implemented at all the 26 and One Open Jail
- Maintains the prisoners Case details, History, Educational status, Digital photo and Biometrics as well as Visitors details with digital photographs
- Helps jail authority in detecting impersonation
- Tracks movement of prisoners

Anganwari App

ANDROID APP DEVELOPED FOR OTHER E-GOVERNANCE PROJECTS

ANGANWARI APP

- **Registration:** Anganwari Worker registers with Anganwari code and mobile number
- **Login:** AnganwariWorker marks report after login

Black Spot App developed for Road Safety

- **Attendance:** Workers mark attendance for self and sevika with GEO Tagging
- **Monthly Report:** worker fills monthly report
- **Upload Data**: Data saved in mobile can be uploaded to online server

BLACK SPOT APP DEVELOPED FOR ROAD SAFETY

- **Current Black Spot:** Current black spot are taken with latitude and longitude
- **Rectification Black Spot:** Rectification details of black spots can be entered
- **Upload Data:** Data saved in mobile can be uploaded on the online server
- **Exit:** Exit from App

ACCOLADE

Ministry of Electronics and Information Technology has awarded the Districts Ranchi and Giridih, Jharkhand for the excellence in Digital India initiatives.

Himachal Pradesh TCP Online Services

Improving Efficiency, Reducing footfalls in the Offices

Town & Country Planning, Himachal Pradesh would perhaps be the first Department where all the public services are now online. The office has totally gone paperless and there is considerable reduction in footfalls. The procedural ambiguities have been completely eliminated. Department has transformed to an era of transparency, accountability and efficiency- Writes *Shri Sandeep Kumar, IAS,* **Director, TCP, HP**

Being a hill State, Himachal Pradesh is endowed with rich eco-system and cultural heritage. Although, there is a low level of urbanization in the State, yet recent years of urbanization has been exerting high pressure on scarce urban land resources. There are 59 small and medium towns in the State, with only Shimla as Class-I city. As per 2011 census, population of the State in these urban areas was 6, 88,704 persons, which is about 10.04% of the total population of the State. Due to various developmental priorities of the Government activities and opening of new areas, a large number of new growth centres are coming up very fast. The pressure on land in the State has increased manifold leading to haphazard and unplanned construction activities in the towns, growth centres and their surrounding areas. Town and Country Planning Department manages and regulates this increasing trend in urbanization and to check the un-authorized construction activities. The objectives of the Town and Country Planning Department are to encourage planned and systematic urban and rural growth in a comprehensive manner, stop haphazard constructions and make optimum use of precious urban land.

ICT APPLICATION

The increased work-load and limited manpower with the Department necessitated the use of latest ICT tools to provide online services to the large number of citizens, professional and department officers. The objective of the TCP Online Services has been to improve efficiency, reduce back-log of planning permission applications and to reduce the footfall in TCP offices.

Two years earlier, the Department took the decision to develop Online Planning Permissions Software for the purpose of automating most of its functions. While searching for an existing application which could be replicated in the Department, it was observed that no Town and Country Planning Department in the country had developed such an application. Therefore, the Department proceeded to get the software developed.

STRATEGY ADOPTED
- Involvement of all stakeholders
- Infra built-up (Hardware, Connectivity & LAN)
- Hands-on the system
- Conversion of some obsolete posts into IT savvy professionals
- Fresh recruitments, as per requirements

Software Features
- Interfaces for citizens, professionals (architects) and departmental officials for providing G2C, G2B and G2G services
- SMS and Email based alerts to Users
- Live graphical dashboard for monitoring of applications status, processing, officer and day-wise pendency, issuing alerts
- Work flow based application, limiting the usage of paper based file processing
- Online payment gateway integrated for fee payments
- Bilingual website: http://www.tcphp.in
- Facility to online track and follow the progress of application processing

SANDEEP KUMAR, IAS
Director
Town and Country Planning
Himachal Pradesh

Paradigm Change/ Benefits
- Favouritism and non-action eliminated
- 24X7 Ease of Doing Business
- No line- technological governance
- Red tape to red carpet
- Automated templates/ process-elimination of ambiguities
- Standardisation of procedures & practices
- Paperless working
- Reduction in footfall- A green growth initiatives
- Digital store created
- Conversion of non-functional posts to IT professionals

Hon'ble Chief Minister, Shri Virbhadra Singh reviewing the Software

Dashboard with the Summary Report

- Internal rationalisation & creation of new offices
- Decrease in RTI applications
- Replicable model

MOBILE APPLICATIONS

Considering the importance and reach of smart phone among citizens of the State,

the department developed the Him TCP mobile application for the citizens and professionals so that they could use smart phones to apply and check status of their applications. The Him TCP mobile App is available under all three major platforms; Android, Apple and Windows and can be downloaded from the Department website or concerned Playstores.

The NIC Himachal Pradesh Mobile App Development Competency Centre has also developed a new mobile App for citizens TCPHP so that they may check whether their land area fall in TCP Planning area or not. And if it falls in the Planning area, all related notifications of

HimTCP Mobile App

the Department are available at single click for the citizens to adhere with the guidelines as per Act during actual land use. The App has been developed under Android and iOS platforms.

TECHNOLOGY

HPTCP application has been designed with a scalable architecture on MVC model. The application architecture follows industry standard protocols like SOAP, HTTP and XML for integration with backend systems. This enables the application to easily integrate with the systems and exchange information with the same. It is highly configurable and there is no requirement to change the basic engine to add different levels of users.

IMPLEMENTATION STATUS

The application is being used in 17 Field Offices of this Department, 34 Authorities and various Urban Local Bodies throughout the State due to easy user guidelines and informative website. The application is being replicated in UD Department/ ULBs as well.

ACCOLADE

The Online Planning Permissions software of the Department has been awarded the 'State Innovation Award 2016', carrying a cash prize of Rs. 2 lakh as incentive for further improving the software application.

For further information, please contact:

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Director and Team of TCP Department with the State Innovation Award 2016

Central Industrial Security Force (CISF)

Harnessing ICT Advancements to Attain Newer Horizons

Known as tech-savvy, CISF is a force with modern gadgetry, keeping pace with the time and achieving success not only through its security services, but also through its quality ICT services. *Shri O.P. Singh, IPS*, Director General of CISF writes on achievements in ICT made by the Force

After its formation in the year 1969, CISF has evolved into a specialized and premier Central Armed Police Force of the Union of India. With a specially trained and highly motivated 1,48,000 personnel on its roll, CISF has now become synonymous with critical installation security of the nation, be it at space installations, nuclear power corporation facilities or all major Maharatna companies' plants. CISF had been entrusted with the most critical and challenging task of providing security to all major airports in India. Besides, the Union government has directed CISF to take Delhi Metro in its security blanket from its inception.

Known as the Tech-Savvy Force, CISF has been using modern gadgetry keeping pace with time and achieving success not only through its security services, but also through its quality ICT services. CISF has developed an array of applications for making life of its personnel smooth and hassle-free so that they can fully devote themselves to the service of the nation. Developed mostly in-house, the Applications cater the needs of its personnel on one hand like M-power and to public on other hand like Lost & Found web application for Airport & Metro Commuters.

CISF'S MAJOR ICT INITIATIVES

M-POWER

CISF provides security to over 380 installations of critical importance spread all over the country. To undertake the challenge of providing CISF personnel with one touch access to individual's pay, addressing grievance and monitoring its status, personnel information, details of kit items due/ issued to the individual, to more than 1.48 Lakh personnel, CISF introduced M-Power, a mobile app for this purpose.

Being first of its kind from the stable of any Central Armed Police Force, this Android based mobile App has been designed and developed in-house at CISF. More than 121,000 personnel access their data through this App, which provides one touch access to information of location and contact details of all CISF units spread across the country. To ensure that the same facility with equivalent look and feel is available on the internet to be browsed using a PC/ Laptop/ Tablet/ Phone, an Employee Corner has been created as a link on the CISF website. This App has also seen the concurrent surge in personnel in assessing Employee Corner.

Irrespective of the geographical location and access to desktop, CISF personnel can view their transfer particulars, personnel profile, pay slips, kit items issued or due, register and track the status of their grievance. It facilitates quick grievance redressal, Besides being safe, secure and certified, it is flexible and expandable. The Unit Commanders are provided with a Dashboard for real time access to the Unit related information on their mobile devices.

M-Power has facilitated quick dissemination and collation of information thus bringing about a smooth transition from e-governance to m-governance.

Follow-up Initiatives
In due course, the following facilities shall

O. P. SINGH, IPS
Director General
CISF

be extended through the mobile App:
- Accommodation Allotment
- Application tracking

Accolade
M-Power has won DG NCRB Running Trophy in the year 2016 for empowering Police with Information Technology.

CISF LOST AND FOUND WEB APPLICATION

This is a user friendly web application which helps the travellers through Airports or Metro Rail to find their lost/ misplaced belongings or inform about found items in the premises of Airports/ Metro Rail. The

M-Power Mobile App

concept has been successfully tested using a working prototype developed by the CISF.

Every year, articles worth several crores are restored to their rightful owners using this web application. Contact details of Airport staff to whom the items can be handed over are provided through this application.

The role of CISF is facilitation and the Airport staff bears the responsibility of returning the items deposited by CISF at their store. Travellers can browse through the 'Lost and Found' tab in the CISF website (http://www.cisf.gov.in) and can check the location and date-wise summary of all items.

The Application has a well designed graphical user interface which makes the it easy to use and the proper categorization of articles makes it quite search friendly.

Accolade

- Won FICCI Smart Policing Award 2016

OTHER ICT INITIATIVES IMPLEMENTED

E-KIT

A web application developed for online individual kit records, e-Kit maintain records of about 1,20,000 personnel in force. It facilitates issue of items and record generation automatically. Convenience of decision making is available for both administrator and the user. It is a platform for generation of annual demand and planning of procurement.

TECHNICAL INVENTORY MANAGEMENT SYSTEM (TIMS)

TIMS is a software to provide a comprehensive and convenient record of inventory available with various units/ formations of CISF. Some of the highlights of TIMS are:

- E-solution for inventory management. Mapping of all security gadgetry installed in CISF units across the country.
- Monitoring of procurement/ condemnation from time to time.
- Facilitates fast and judicious decision making.

- Facilitates projection of demand and future needs.

VEHICLE MANAGEMENT SYSTEM

Developed for better management of vehicle inventory, this web based system can be used in lieu of existing Register/ Ledger-based vehicle management which is cumbersome. Some of the facilitations are:

- Separate login provided for all the CISF formations.
- Central monitoring of details of vehicles held by various field units by Provisioning branch becomes easier.
- Performance and efficiency of various vehicles held by field units can be monitored electronically.
- Maintainance of daily log which helps in monitoring vehicle performance at later stage.

GEOGRAPHICAL INFORMATION SYSTEM (GIS)

Designed to view and analyse the spatial distribution of CISF units spread across India, GIS fetches information regarding the nearby units within the specified radius. Some of the highlights are:

- Extremely useful at the time of contingency as all the information regarding the unit including the contact numbers of officials in the nearby locality can be accessed on a single click
- Performance of the selected unit in various online packages in CISF can also be analysed
- The system features e-mail module which can be used to send mails to unit commander
- Normal, sensitive and hypersensitive units can be distinguished and grouped on a single click

LEAVE MANAGEMENT SYSTEM (E-LEAVE)

This system makes the leave management of the organisation simpler and faster. Granting or denying of leave is just a click away and it brings transparency to the organization's leave policy. System highlights are:

- Provides accurate information about
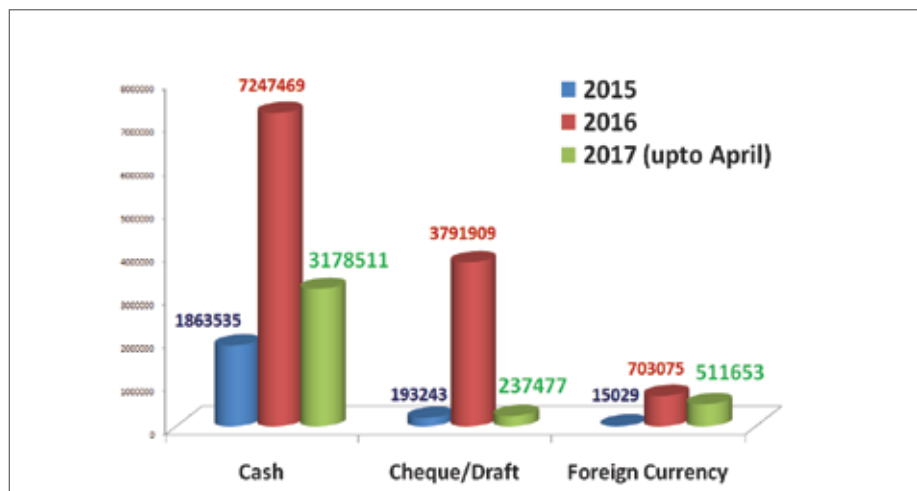
Data showing the Cash, Cheque/ Draft and Foreign Currency handed over to Station Controller during the year 2015, 2016 and 2017 till April

Leave Management System (eLEAVE)

eHousing, Housing Allotment System

Grievance Redressal System

eKIT, Individual Kits Records System

Vehicle Management System

eVetan Salary System

leave balance which is helpful for the force personnel to plan their leave accordingly

- Apply/ cancel/ sanction/ forward/ reject leave on a single click
- Eliminates paperwork completely in leave management process
- Leave can be modified by the individual during leave period
- About 4,60,000 online leaves applied by personnel so far

GRIEVANCE REDRESSAL SYSTEM

This online Application is an efficient system designed by CISF to address the grievance of force personnel and is a transparent platform for them to lodge grievance through proper channel.

Grievance Redressal Application works at the following five levels:

- Individual (every force member)
- Unit (each Unit Head)
- Zone (each Zone Head)
- Sector (each Sector Head)
- FHQRs (each branch of the FHQ)

E-HOUSING

eHousing is an online system for automation of government quarter/ house allotment which facilitates transparent and ease in allotment for different CISF units.

eHousing has been launched on pilot basis for 05 Delhi based Units after its working prototype tested successfully. Quarter allotment is carried out for CISF Unit IPGCL Delhi.

Some of the highlights of eHousing are:

- All quarters/ houses entry are maintained systematically in a centralized database.
- Quarter allotment meeting time is

saved, as house allotment is done by the system on a single click.

- Special cases like allotment on medical ground or on approval of competent authority is considered.

E-VETAN

Launched in February 2014, eVetan is one of the most successfully deployed packages that is used by all units of CISF. Some of the highlights are:

- Generates Salary bills
- Generates Monthly Pay Slip
- GPF schedule, advance schedules, income tax schedules.
- Income Tax Calculation facility
- Form 16 can be generated
- E-Samarth file can be uploaded
- Last Pay certificate & LPC Salary Various bill/ schedules
- Various other reports which are used by the units for claiming salary bill
- Promotion/ suspension salary can be generated
- Bank File is generated and is directly sent to PAO
- Generates files for Bhavishya portal Advances/ Over payments of previous financial years are shown in GAR-13 (Bill outer) as per Government of India prescribed Performa.

SUMMARY

Extending Hon'ble Prime Minister's initiative of Digital India in CISF, all activities of Force personnel, right from their recruitment to their retirement are available online. Force personnel are given online tools to continuously enhance their skills.

Establishing a working environment for all CISF personnel with seamless access to the ICT resources at every Unit enhances their knowledge base and make their life smooth and hassle-free so that they would be able to fully devote themselves to the service of the nation.

OSMANABAD District
Pioneering in implementing e-Governance projects, products and initiatives

Some of the prominent ICT activities in line with the Digital India Initiative in Osmanabad are development and implementation of Cashless Osmanabad Mobile App, Online e-Blood Bank project, Aadhaar at Birth concept, designing NETSTAT NICNET monitoring tools and WEBSTAT contents uploading management.

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Osmanabad, named after the Nizam of Hyderabad State, Nizam Osman Ali is a district well known for its ancient monuments, religious temples and archaeological places. Tuljabhavani Temple, Tuljapur, which is the second among the 'Shaktipeeths' is situated in Osmanabad.

NIC Osmanabad District centre was established in 1989 and since then has been extending ICT based services to the district Administration and various Central, State and District offices of the government. Presently, in order to create the Digital District Pattern, NIC primarily involves in the activities of promoting the GOI's Digital India Concept, G2C/G2E services through district web portal, ICT culture and implementing innovative ICT concepts in the district. "The eGovernance Journey towards Digital District pattern" is being implemented by designing Cashless Osmanabad Mobile App, online e-Blood Bank project, Aadhaar at Birth concept implementation, NETSTAT NICNET monitoring tools designing and WEBSTAT contents uploading management activity process reengineering activities, which are implemented for the first time in Maharashtra.

KEY INITIATIVES

CASHLESS OSMANABAD MOBILE APP

The App has been developed for disseminating detailed information on Mobile Wallet, Unified Payment Interface (UPI), mobile banking, payments using Unstructured Supplementary Service Data (USSD) and Aadhaar Enabled Payment System (AEPS). It also provides information about micro ATMs, mobile banking and bank prepaid cards among other new

> " District Informatics Unit has always played a vital and proactive role in promoting various e-governance projects such as online e-blood bank project implementation at General Hospital Osmanabad, which is the first General Hospital in India, providing dynamic technical support and coordinating the innovative concept of ' Aadhaar at Birth' the first in Maharashtra, implementation of innovative idea of publication of the Digital book through the District portal, local level initiatives of network management activities, implementing the best ICT culture in the district, successful micro level planning for sustaining various ICT procedures in the district and development of the user-friendly android mobile application: 'Cashless Osmanabad' launched first in Maharashtra "
>
> **DR. PRASHANT NARNAWARE, IAS**
> **Collector & District Magistrate**
> **Osmanabad**

Homepage of District website (www.osmanabad.nic.in)

Launch of Cashless Osmanabad Mobile APP by District Collector

tools and avenues that are being promoted by the government to achieve cashless economy. NIC Osmanabad is the first district in Maharashtra to disseminate useful content for citizens using Android mobile App.

The App highlights are:
- Single Window Service Delivery Channels for G2C
- Ensures accessibility, convenience, and timely services delivery
- 17 e-services offered
- App is registered in NIC's e-Governance Apps Store

E-BLOOD BANK

NIC e-Blood Bank System is a comprehensive, web based application which covers all the management activities of a standard blood bank. This was developed and implemented at Civil Hospital Osmanabad. This is the first hospital in Maharashtra and 3rd in the Country where e-blood bank project has gone live in 2016.

AADHAAR AT BIRTH

District Administration has initiated the Aadhaar at Birth concept implementation in the District. NIC District Centre has provided technical support and coordinated the smooth functioning of the project. Aadhaar at Birth is a project to monitor the progress of a child including immunization, morbidity, track malnutrition status and check infant mortality rates. This innovative concept has also been implemented at block level Primary Health Centres.

DIGITAL E-BOOK ON DISTRICT WEBSITE

For promoting the Digital India program activities in the district, NIC District Centre has implemented the innovative concept of designing & publishing the Digital e-Book on district website. Digital eBook gives in-depth information of Digital India Program, various Digital India initiatives (Digital Locker, Jeevan Pramaan, dial.gov.in etc.) & public centric services provided in the District for the citizens and all concerns.

WEBSITE CONTENTS MANAGEMENT SYSTEM (WEBSTAT)

WebStat, designed by the NIC District Centre for monitoring the district website content upload activity by the website content manager/ administrator. Due to this application website upload process by various departments has been streamlined. This is web based application developed using the PHP, Ajax, Fusion Chart & MySQL. As a part of the process reengineering activity, NIC has also successfully implemented and streamlined the manual process involved in the contents uploading and its management from various other government departments with the usage of WEBSTAT software. This activity has been streamlined and sustained since last 5 years and same is being also implemented in other few districts of the Maharashtra.

NICNET NETWORK MONITORING SYSTEM (NETSTAT)

NIC Osmanabad has adopted systematic process for keeping the record of user connected to NICNET network and monitoring the user IP change activity. To keep the record of every user using the NICNET network, NIC District Centre has designed the Network IP Allocation Form. Same record has been maintained in Digital Format using the NetStat software. Application gives facilitation for monitoring the IP Change, Inactive IPs, Illegal IPs Connected, Department Network Down report etc. In the collector office premises around 155 users from the various government offices are availing the NICNET usage and due to usage of the NETSTAT software for monitoring the said activity minimized the illegal IP assignment and IP change activities of the users by almost 98%. This activity has been streamlined and sustained since last 2 years and same is being also implemented in other few districts of the Maharashtra.

BEST PRACTICES FOR PROMOTING USE OF ICT FOR E-GOVERNANCE

E-TENDER & E-AUCTION

eTender and eAuction were successfully implemented in the District. Osmanabad is the 1st District in Marathwada region to use Sand Auction using the NIC e-Auction portal.

VIA AKASHWANI CHANNEL

In order to promote the ICT usage and popularize e-governance projects in the District, time to time wide publicity was carried out by broadcasting interviews in the Akashwani Osmanabad.

ELECTION WEB CORNER

Designed Election Web Corner in district website for Loksabha, Assembly and Local Elections to provide the election related information to public.

EARTHQUAKE & PROJECT AFFECTED PERSONS DATABASE

Published the Earthquake and Project Affected Persons Database on District website. This has been inaugurated by Hon'ble Chief Minister, Maharashtra.

G2E SERVICES THOUGH DISTRICT PORTAL

As part of various eGovernance projects implementation, web pages were designed by NIC for project-wise information to avail facilitation of various ICT related required information to the government employees.

LOCAL SOFTWARE DEVELOPMENT

As part of Computerization of Officer Data and process, different applications such as eTaral (Alcoholic Persons Database), eMPR (Monthly Report Monitoring System), eLokshahi (Collectorate Lokshahi Cases Monitoring System) and Farmer Suicide Database Analysis System were developed.

KIOSK APPLICATION

KIOSK user interface is designed by NIC District Centre to provide different information and eServices to citizens for local KIOSK system installed at Collector

Cashless Osmanabad Android Mobile App Screen Shots

Office Osmanabad. The SMS gateway facility is also made available for the various stakeholders of the Record of Rights (RoR) hearing cases in the KIOSK system.

E-TAPAL

Successfully implemented the eTapal application for monitoring of daily tapal and its disposal at Collection office Osmanabad.

ELECTION DASHBOARD

Designed Dashboard using the Google

Docs feature, for monitoring the various Elections (Loksabha, Assembly & Local Election) process which provides the facilities of smooth monitoring and proper decision making to the District Administration.

USAGE OF VIRTUAL MACHINES

To overcome the constraints of the lack of sufficient hardware in TILR office in the computerization activity of the Property Card data, NIC has promoted and used the Virtual Machine technology to replace the old Server Hardware, saving cost of hardware.

E-MUTATION

All taluka land record computerization successfully completed and hosted online. 'Edit' module has been implemented for verification & confirmation of 7/12. About 94% work is completed and at present, Osmanabad district is in the top 3 position in Maharashtra.

USAGE OF UNICODE

As part of eGovernance guidelines of the Government, Unicode usage has been successfully implemented in all government offices of the District.

Digital e-Book Published on the District Web Site, www.osmanabad.nic.in

Upload & Removal Statistics

Upload = 404
Removal = 300
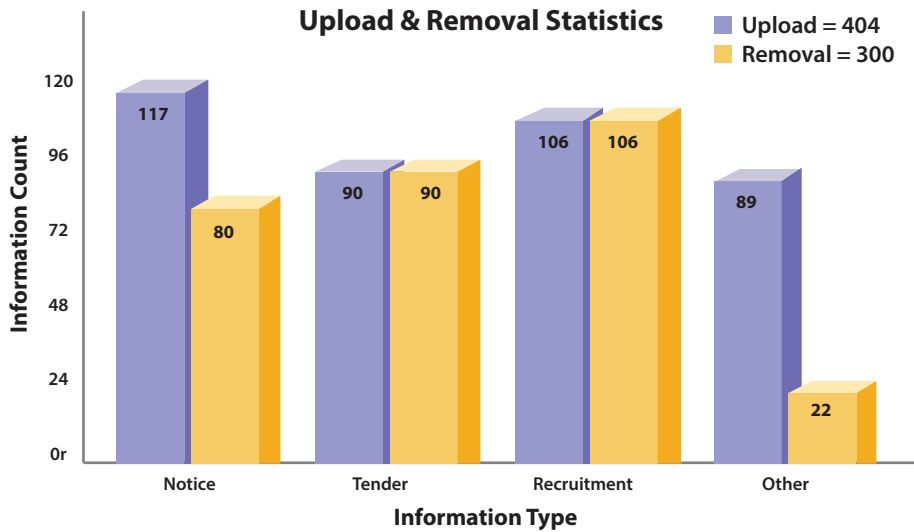
WebStat Application- Content Upload and Removal Statistics

NATIONAL AND STATE E-GOVERNANCE PROJECTS

JEEVAN PRAMAAN: is a biometric enabled digital service for pensioners. This has been implemented at various levels of the Treasury.

TRACKCHILD: Goal of TrackChild project is to facilitate the matching of 'missing' children being reported at Police stations with those found' children who are residing in the Child Care Institutions.

IVFRT: Immigration Visa, Foreigners'

Registration and Tracking System has been implemented at SP Office Osmanabad.

NDAL: National Database of Arms License has been implemented for generation of Unique Identification Number for the Arms License.

CONFONET: The Case Monitoring System provides a single-window solution for automation of all the activities undertaken at the Consumer Forums has been smoothly running in District.

NSAP: Computerization of beneficiaries under the National Social Assistance Programme is implemented and Aadhaar seeding for DBT work is going on.

E-MOJANI: The e-Mojani is a complete workflow application designed to meet the functional requirements for conducting the land measurement cases.

EPDS: ePDS software has been implemented by District Supply office with help of NIC. User ePDS supply Chain Management module is also successfully implemented.

E-SARATHI: NIC District Centre is providing complete technical support right from the site preparation to implementation of software VAHAN & SARATHI at every RTO office.

SUMMARY

As a part of the Digital Journey towards the implementation of idea of Digital District Pattern, NIC District Centre is playing a vital role under the guidance of State Informatics Officer, for preparing micro level and sustainable plans and process reengineering, due to which it is becoming so valuable for district administration to execute the various e-governance and ICT activities as per the guidelines of the Digital India Programme of the Government of India.
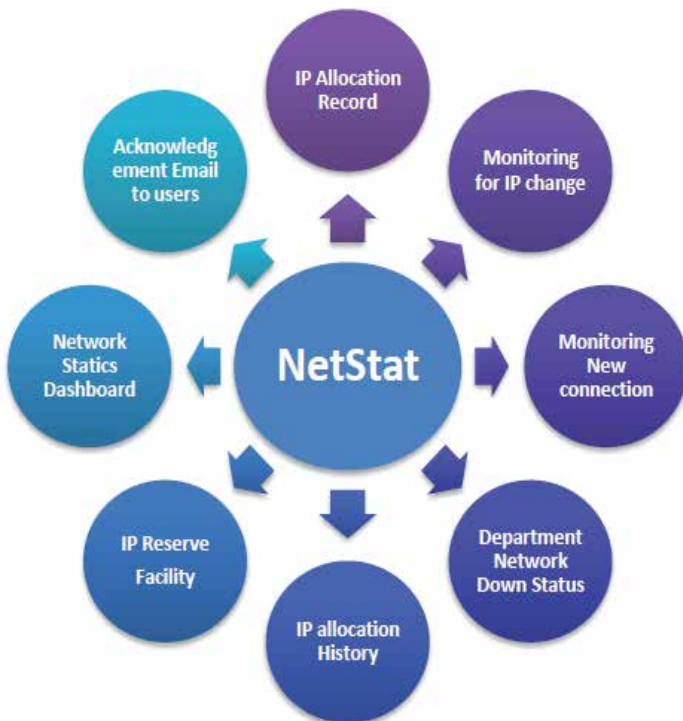
NetStat Application Features

SOIL HEALTH CARD
Empowering Farmers to Improve Soil Health for Enhancing Agriculture Productivity

'Soil Health Card' provide soil nutrient status of a farmer's holding and advise him on the dosage of fertilizers and need for soil amendments for a healthy soil in the long run. The Government plans to issue Soil Health Cards to 14 crore farmers in a cycle of 2 years

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Agriculture produce depends on soil as one of the most important factors and plant growth largely depends on the composition of soil. The study of soil profile gives the picture of its fertility and productivity. To increase the soil fertility and productivity, it is important to know the nutrient status and make necessary amendments by appropriate dosage of fertilizers and micronutrients.
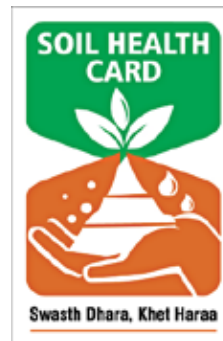
SOIL HEALTH CARD SCHEME

Soil Health Card Scheme is a flagship program of Government of India promoted by the Department of Agriculture, Co-operation & Farmers Welfare under the Ministry of Agriculture & Farmers Welfare. Under the scheme, the government issues Soil Health Cards (SHC) to farmers. A SHC provide soil nutrient status of his holding to each farmer and advise him/ her on the dosage of fertilizers and also the needed soil amendments that should be applied to maintain soil health in the long run. SHC contains the status of soil with respect to 12 parameters:

- N, P, K (Macro-nutrients)
- S (Secondary-nutrients)
- Zn, Fe, Cu, Mn, Br (Micro-nutrients)
- pH, EC, OC (Physical parameters)

Soil Health Cards help farmers to improve productivity by maintaining soil health. SHCs will also promote the judicious use of the fertilizers, thus reducing the cost of production for the farmer. The Govern-


Hon'ble Prime Minister inaugurating the Soil Health Card in Rajasthan

ment plans to issue Soil Health Cards to 14 crore farmers in a cycle of 2 years.

SOIL HEALTH CARD PORTAL

The Soil Health Card Portal (http://soilhealth.dac.gov.in) project was launched by Hon'ble Minister of Agriculture & Farmers Welfare on 15th July, 2015. The Soil Health Card Application is a work flow based system designed and developed by National Informatics Centre which facilitate generation of Soil Health Cards for the benefit of farmers in a uniform and standardised format across the country.
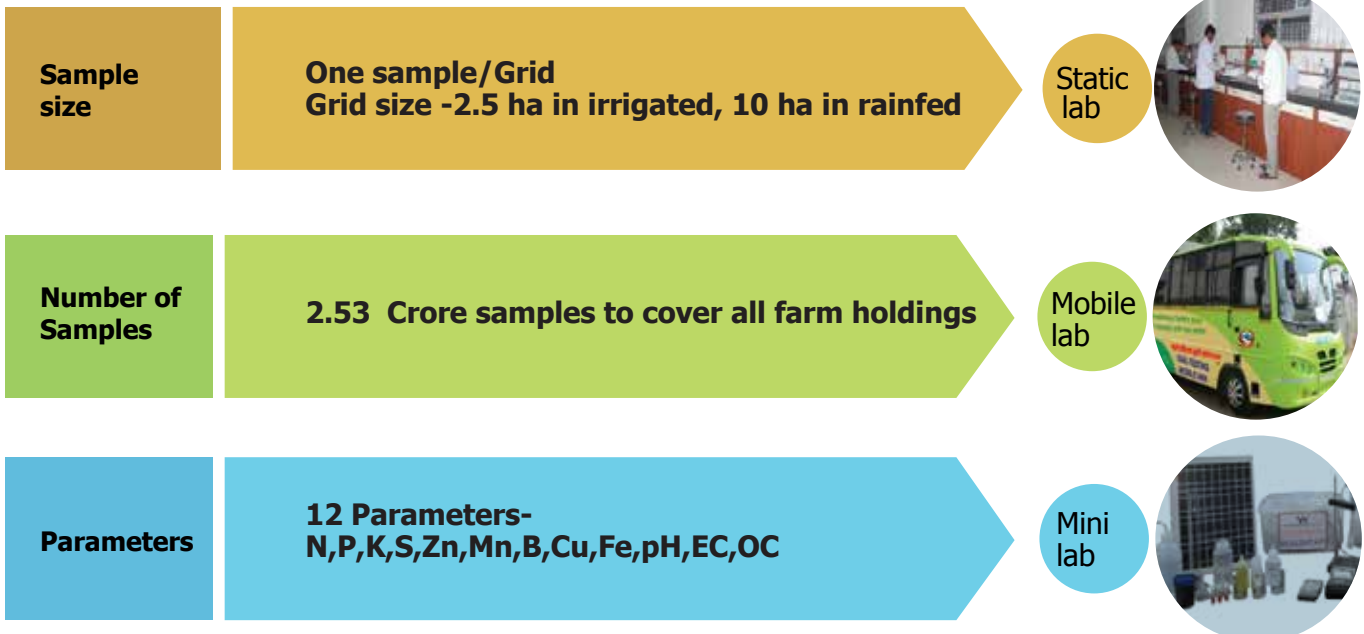
Soil samples are collected from fields of farmers on grid basis; 10 ha grid in rainfed areas and 2.5 ha grid in irrigated areas. The samples detail along with their location details are registered in the Application portal by the concerned officials and a unique ID is generated for each soil sample. The sample details can also be sent using mobile application developed. Mobile application captures the longitude and latitude of the place automatically where samples are collected thus ensuring authenticity of the sample collection and correctness of the information. Mobile application does not require net connectivity during sample details entry from the fields. Data is stored and pushed on server whenever net
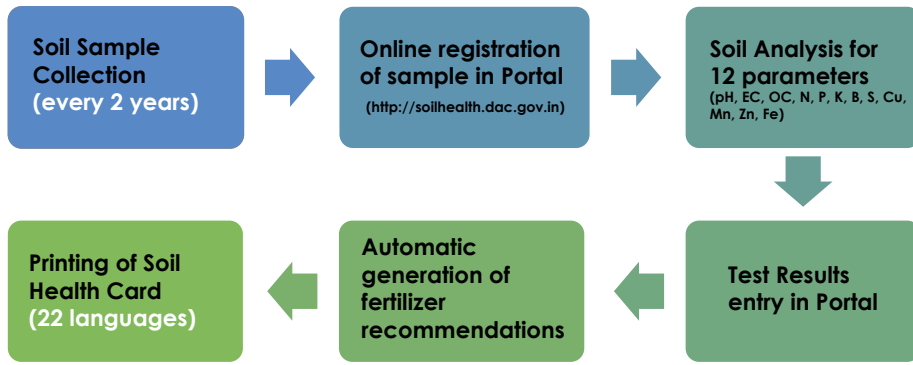

Soil Health Card Portal (http://soilhealth.dac.gov.in)
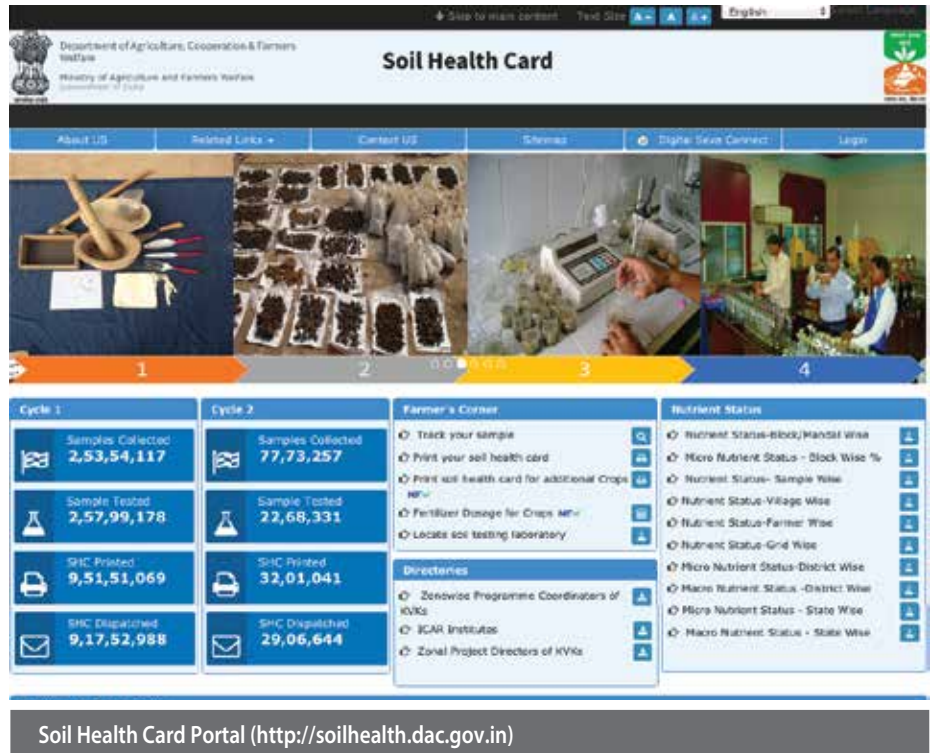
connectivity is established. The samples are tested in the labs and the test results are entered by the respective Soil Testing Lab officials. Based on the available nutrients in the soil, the crop-wise required quantity of nutrients are calculated using Soil Testing Crop Response developed by ICAR method or General Fertilizer Recommendations given by State Governments/ SAUs (State Agricultural Universities). Then according to required nutrients, corresponding crop-wise fertilizer quantities are calculated by the application automatically and

Sample size	One sample/Grid Grid size -2.5 ha in irrigated, 10 ha in rainfed	Static lab
Number of Samples	2.53 Crore samples to cover all farm holdings	Mobile lab
Parameters	12 Parameters- N,P,K,S,Zn,Mn,B,Cu,Fe,pH,EC,OC	Mini lab

Scheme Details

Process of issuing Soil Health Card

- GIS mapping
- Helpdesk support
- e-learning support
- Maintenance
- Participation in workshops & trainings

MAIN FEATURES OF THE APPLICATION

- Single, uniform, web-based software for generation of Soil Health Card in uniform format across the country
- Support for 22 local languages
- Sample tracking and alerts to farmers through SMS
- Automatic Fertilizer Recommendation calculations and micronutrient suggestions
- Fertilizer recommendations for Horticultural crops, based on age/ crop stage of the crop
- Organic carbon based fertilizers recommendations
- National database on soil health
- Dashboard
- Linkages to land record applications of states
- Integration with Common Service Centre (CSCs) portal for CSCs to enter data
- Interface for displaying Soil Health

printed in the Soil Health Card. The necessary soil amendments for eliminating micronutrient deficiencies are also suggested in the card. Soil Health card can be generated in 22 languages.

PROJECT SCOPE

- Sample registration
- Test results entry
- Fertilizers recommendations calculations
- Soil Health Card generation
- User registration, role assignment and distributed management of users
- Role based access to work areas
- Soil Test Based Crop Response (STCR) Formulae
- General Fertilizers Recommendations by States
- Soil Testing Laboratories profile
- Management Information System for monitoring
- Master Data management
- Localisation
- Alerts
- Migration of data from State portals
- Mobile Apps
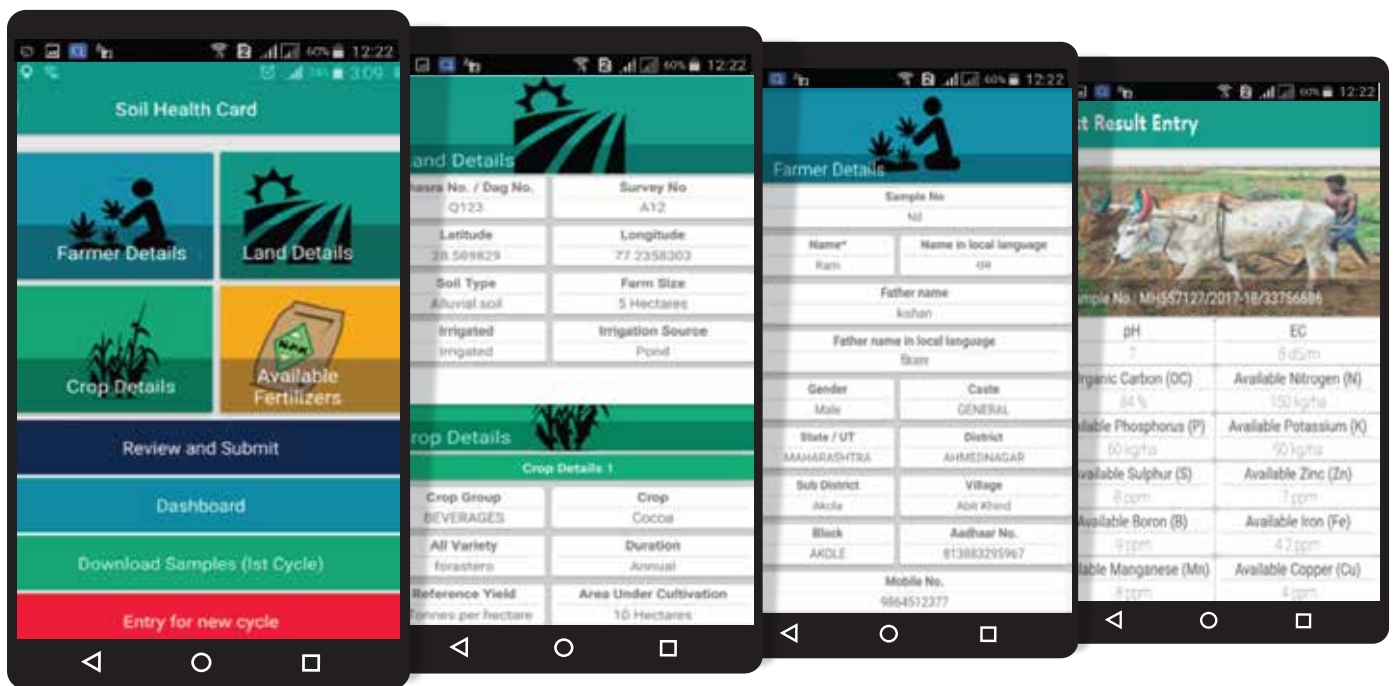
Soil Health Card Mobile App interface screens

Bavisetti Swamy
Krishna
Andhra Pradesh

Paddy
NPK
39.5:30/33/22:16:10.8

Production increase
375kg/acre

Income increase
5662/acre

Meenabai Patil
Jalgaon
Maharashtra

Cotton
N$_{PK}$
48:13:13/40:21:21

Production increase
160kg/acre

Income increase
8000/acre

Jagtar Singh
Kiurukshetra
Haryana

Potato
NPK
165:69:30/41:46:30

Production increase
1000kg/acre

Income increase
3000/acr$_e$

K Das
Purnia
Bihar

Paddy
NPK
40:86:20/38:24:16

Production increase
160kg/acre

Income increase
2780/acre

Success stories of farmers from Andhra Pradesh, Maharashtra, Haryana and Bihar

Card in Umang and Krishi Suvidha mobile Apps
• Linkage for minilabs for transferring test results data to national portal
• Linkage to mobile Fertilizers Management System (mFMS) on pilot basis in Krishna District of Andhra Pradesh

Linkage of SHC portal to other Services

• Various types of nutrient status reports
• Calculator for fertilizers dosages
• Success stories

STEPS TAKEN TO SPEED UP THE PORTAL ENTRIES IN SOIL HEALTH CARD PORTAL

• Infrastructure enhancement
• Simplified interfaces
• Extensive search facility in each interface
• Bulk generation of Soil Health Cards
• Automatic generation of fertilizers recommendations at a time for multiple farmers
• Add Farmer facility for grids already entered
• Soil Health Card for additional crops
• Mobile Apps for sample registration to field level workers
• Migration of data from State portals to National portals
• Regular e-learning sessions
• Participation in State-level training programs/ workshops and field visits
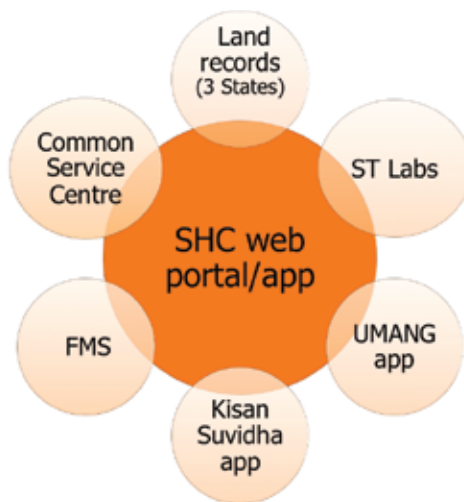• Help-desk support

IMPACT OF THE PROJECT

• Helps in deciding optimum use of fertilizers for reduced cost and increase in production. The related success stories received from States have been uploaded on the portal
• Auto generation of fertilizers recommendation to save the time and efforts of soil testing laboratories

STATUS OF IMPLEMENTATION

Soil Health Card is currently implemented throughout the country with active involvement of States/ Union Territories. As on date, 1.39 crores samples have been registered on the portal covering 4.40 crore farmers.

For further information, please contact:

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Kendriya Vidyalaya Shaala Darpan
The ICT Platform Realizing 'Digital India' Vision Nation-Wide in the realm of Education

Kendriya Vidyalaya Shaala Darpan platform has been implemented by NICSI on NIC Clouds for 1185 Kendriya Vidyalayas across the country. A mammoth task was accomplished online in one of the largest school systems in the world with an estimated 1.2 million students and 50,000 teachers.

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KV Shaala Darpan (http://darpan.kvs.gov.in) is an e-Governance platform which aims to improve the quality of learning, efficiency of school administration, governance of schools & service delivery to key stakeholders namely, students, parents, teachers, community and schools. KV Shaala Darpan is a key initiative undertaken by the Ministry of Human Resource Development, Government of India, across all Kendriya Vidyalayas in the country to realize Hon'ble Prime Minister's 'Digital India' vision.

KV Shaala Darpan has been implemented by NICSI on NIC Clouds for 1185 Kendriya Vidyalayas across the country.

A mammoth task was accomplished online in one of the largest school systems in the world with an estimated 1.2 million students and 50,000 teachers.

In the online admission process, all data was made available live to each school, region and headquarter, enabling real time monitoring at a click. All the steps of admission process including registration, shortlisting and admission have been done on the platform.

The online admission form is made simple, with very minimal data entry requirement. It provides mostly drop down menu options for applicants. Parents who are not digitally savvy can visit a cyber café and arrange for the form fill-up and submission. Else, they can approach and submit their application at school directly. From applying to registering to short listing to admission, all the steps are part of the platform, complying with all criteria in a complex environment.

APPLICATION MODULES OF KV SHAALA DARPAN

In system, the activities and processes of a school are grouped logically in three Modules with its categories:
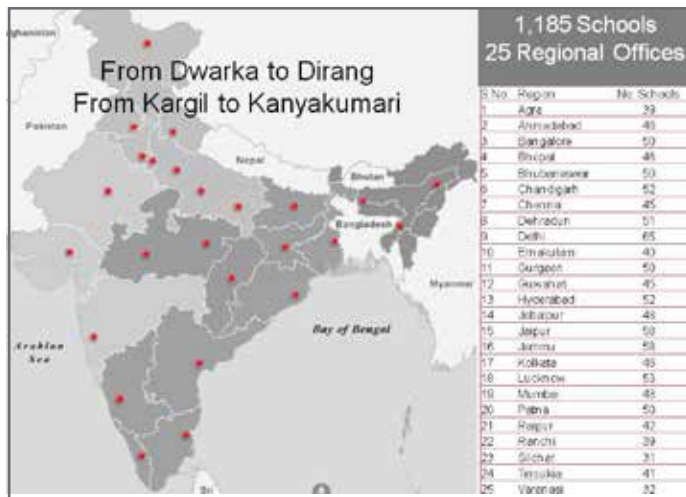
Student Management Module
- Student Management
- Results
- Attendance

Homepage of KV Shaala Darpan website (http://darpan.kvs.gov.in)

S.No.	Region	No. Schools
1	Agra	29
2	Ahmedabad	48
3	Bangalore	50
4	Bhopal	44
5	Bhubaneswar	50
6	Chandigarh	52
7	Chennai	45
8	Dehradun	51
9	Delhi	65
10	Ernakulam	40
11	Gurgaon	50
12	Guwahati	45
13	Hyderabad	52
14	Jabalpur	48
15	Jaipur	50
16	Jammu	58
17	Kolkata	48
18	Lucknow	53
19	Mumbai	48
20	Patna	50
21	Raipur	42
22	Ranchi	39
23	Silchar	31
24	Tinsukia	41
25	Varanasi	32

1,185 Schools
25 Regional Offices

Regional presence of Kendriya Vidyalayas
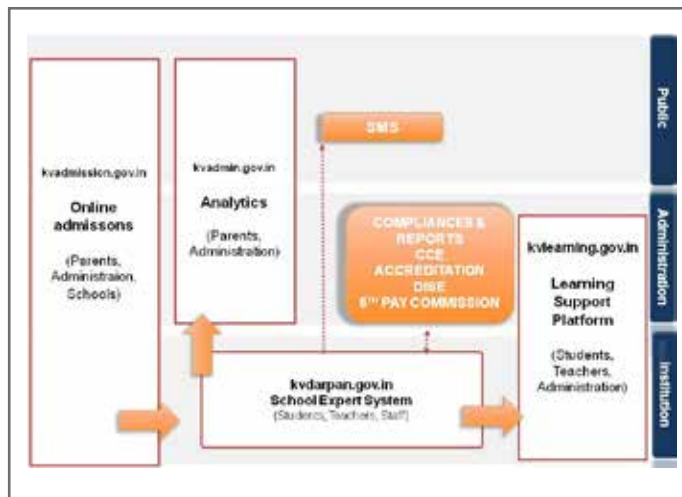
Workflow Diagram of KV Shaala Darpan

Administration Module
- Employee Management
- Inventory and Procurement
- Fees and Fine
- Payroll
- Financial Management and Book Keeping
- System Administration

Advanced Module
- E-Learning System
- SMS
- Online Payment
- Parent/ Guardian Information
- Online Admission
- Multiple School Integrated Dash board
- Examination
- Time Table
- Library
- Transport
- Hostel Management

School Automation System (MIS/ERP) is an integrated web based application which provides a single interface to Parents, Students, Teachers and School Administration.

KV Shaala Darpan will target to deliver the services that enable the stakeholders including students, teachers, and administrators both at KVS(HQ), New Delhi and Regional Hqrs (25) to achieve the objectives of School Education i.e. Access, Quality & Formulation policy and carrying out institutional & systemic reforms.

OBJECTIVES

'Shaala Darpan' refers to mirror view of a school. It is a Mission Mode Project (MMP), with the following objectives:

- Enable improvement in quality of learning
- Improve efficiency of school administration and governance of schools
- Improve service delivery of school education department to the key stakeholders including students, parents, community, teachers, and schools
- Access to near real-time and better quality data for decision support

OUTCOMES
- Improved Efficiency in School Administration
- Visibility of Student, Teacher and School Performance for:
  - Parents
  - Community
  - Administrators
- Inputs for Teacher Training through linkages with student performance

KV Shaala Darpan

CBSE/ DISE Report views

Visualization of Students Data in the Analytical Dashboard

School Expert System screen

• Ease of access to near real time and better quality data leading to better monitoring, effective scheme implementation and decision support systems
• Improved interfaces with:
  - Administrators
  - Boards
  - Allied Departments– e.g. Health/ Revenue/ Labour & Employment/ Technical education
• Improved efficiency in life cycle management of Teachers services by School education department
• Improved governance and transparency in delivery of regulatory services to citizens, businesses by School education department
• Enabling Improvement of Quality and Standards of School Education through ICT enabled content, teaching learning material for students and teachers, assessment tools, question banks etc.

STAKEHOLDER BENEFITS

Benefits to Parents
• Real-time View of Student Activities through Parent Portal
• Comprehensive and evidence based view of student performance through Analytical reports
• Efficient support services – Timely Alerts through SMS engine

Benefits to Students
• Access to personal information online
• Online learning resources to promote self-paced learning through LSP

• Focus on specific development needs through comparative analytics
• Comprehensive personal profile covering health records, reading habits, performance etc.
• Facilitate collaborative learning through LSP
• Feedback mechanism through grievance logging

Benefits to Teachers
• Online access to personal information
• Service records, Leaves, Attendance, Time-table, Pay slips etc.
• SMS alerts
• Clear roles & responsibilities & workload allocation
• Centralized knowledge repository through LSP
• Online resources for self-learning & development
• Standardized workflows & Business rules
• Reports and Report Card generation

Benefits to School
• Single integrated system for all functions
• Centralized database
• Data digitization
• Defined process and workflow
• Compliant to Statutory/ Board requirements
• Real-time view of Data through Analytics
• Role based access to all Stakeholders
• Reduction of administrative effort
• Single source of truth

Benefits to Administration (RO/HQ/MHRD)
• Standardized processes & policies
• Integrated view of Sangathan
• Centralized monitoring (e.g. fund utilization)
• High availability of quality learning content
• Uniform pedagogy across schools
• Transparency

SUMMARY

At the end of one and half years of digitization process, Kendriya Vidyalaya Sangathan (KVS) has taken the student admission process of over 1185 schools on 'KV Shaala Darpan', an online and cloud based platform. Over 8 lakh people have registered on this 'Sturdy Platform' during 8th February to 10th March 2017. Over 1 lakh students got admitted to 1185 schools for the academic year 2017-18.

The system has enabled parents to log on and get their children admitted to schools without the bother of taking time off from work and making multiple trips to schools.

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KANYASHREE ONLINE 4.0
An end-to-end ICT driven Conditional Cash Transfer Scheme for Adolescent Girls of West Bengal

The portal is integrated with Core Banking System of 90 major Banks to ensure sanctioning of Cash Transfers to the right bank account and direct benefit transfer through Integrated Financial Management System. It also has a strong Duplicate Application Checking mechanism as well as a Face Detection system to ensure zero leakage.

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PRASHANT BELAWARIAR

Kanyashree is a unique ICT driven Conditional Cash Transfer programme which aims at improving lives of millions of adolescent girls having poor socio-economic background with educational, financial, social and digital empowerment. Kanyashree Online 4.0 (wbkanyashree. gov.in) is the e-governance mechanism of the programme which provides a Single-window and end-to-end ICT enablement.

The entire process, from enrollment to direct bank transfer is online. Real time reporting with data disaggregated by age, location, minority groups, disability and educational attainment are available, as are service delivery performance indicators. The services are available through multiple devices like portal, mobile app, smart phone version as well as through SMS services. The Kanyashree Portal is integrated with Core Banking System of 90 major Banks to ensure sanctioning of Cash Transfers to right bank account & direct benefit transfer through Integrated Financial Management System. It also has a strong duplicate application checking mechanism as well as a "Face Detection" system to ensure "Zero Leakage". The "Kanyashree Portal & Mobile App" is also a tool to promote Digital Literacy amongst the Kanyashree Girls. It is also available in Local Language. The programme is being run from 15,826 institutions across the State.

Around 40.40 lakh Girls are so far enrolled in the programme. 87.68 lakh unit cash transfers have already been sanctioned within a period of 4 years and more than 4,000 crores disbursed to bank account of beneficiaries through Direct Benefit Transfer.

FUNCTIONALITIES

- Online enrolment through educational and vocational Institutions
- Duplicate application checking mechanism using various combinations such as same name, same father's or mother's name, same address, same date of birth, same educational institution, same form serial number, same Bank account etc.
- Online Verification and Scrutiny at Block/ Sub-division level
- Checking of validity of Bank accounts

through Bank's CBS Server integration
- Sanctioning at District level and online transfer of Funds in beneficiary's Bank Account through IFMS
- Status tracking and grievance lodging facility for beneficiaries through Portal, Mobile App & SMS Service
- Extensive MIS
- Secured OTP based login
- SMS alert

DIGITAL AND FINANCIAL INCLUSION
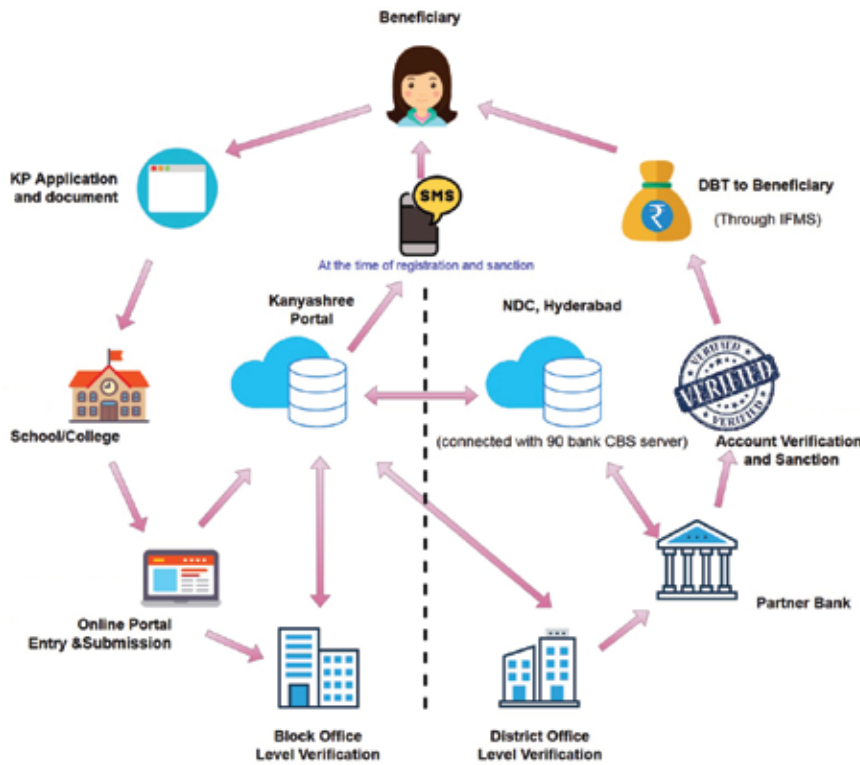
The scheme ensures:

- Bank A/C in the name of beneficiary
- Familiarisation with banking system & growing of Banking habits from young age
- Virtual workplace for every Girl in KP Online to get eServices & sharing of experiences
- Digital Literacy

APPLICATION FEATURES

- Integrated with 90 Bank's CBS server to ensure sanction to only beneficiaries A/C using Public Financial Management System platform
- Direct Benefit Transfer using IFMS platform
- Image Processing: Face Detection, Optical Character Recognition (OCR), QR Code
- SMS Services (Push & Pull Technologies) and Email services

ACCESSIBILITY

- The Kanyashree Online 4.0 (www.wbkanyashree.gov.in), can be accessed through any browser and any device.
- The services can be availed using Web Portal, Mobile App, Smart Phone version and SMS Services
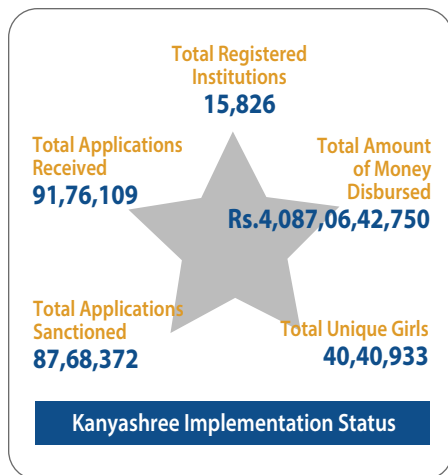- Mobile Application is available for Android 5.0 or above

Hon'ble Chief Minister, Smt. Mamta Banerjee with the the United Nation's Public Services Award 2017 conferred to Kanyashree project

Kanyashree 4.0 Schematic Diagram

AWARDS & ACCOLADES

- Winner of United Nation's Public Services Award 2017 in the category, *Reaching the Poorest & Most Vulnerable through Inclusive Services & Participation*
- Champion Project in UN-WSIS 2015-16
- Finalist in UN GEM-Tech Award 2016
- National E-governance Award (2014-15) under the category, *Citizen Centric Services*
- Manthan Award for Digital Inclusion for Development (South Asia and Asia Pacific) 2014 under the category, *e-Women and Empowerment*
- Award of Appreciation at the CSI Nihilent e-Governance Awards 2014-15
- Winner of Skoch SMART Governance Award, 2015

Total Registered Institutions
15,826

Total Applications Received
91,76,109

Total Amount of Money Disbursed
Rs.4,087,06,42,750

Total Applications Sanctioned
87,68,372

Total Unique Girls
40,40,933

Kanyashree Implementation Status

- Integration with School Education Portal through API
- Responsive Web Design (RWD)
- Bi-Lingual
- 128 bit encryption for all network traffics
- In-built Access Control System
- Hosted in NIC iNOC Data Centre

PLATFORM

- Front-end: PHP 5.4.16
- RDBMS: PostgreSQL 9.6
- OS: RHEL 7.2
- Application: Apache 2.4.6 Web Server

FOG Computing
A New Paradigm to Cloud Computing

Fog computing was introduced to meet objectives like improving efficiency and trim the amount of data to be transmitted for processing, analysis and storage, place the data close to the end user and finally provide security and compliance to the data transmission over cloud. Cloud is located up in the sky, somewhere distant and remote, fog is close to the ground where operations are executed.

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Cloud Computing has been one of the hottest buzzwords over the last few years and using it one can access all information over the internet without having any detailed knowledge of the infrastructure used to enable it. Cloud Computing has transformed the organisations by providing much flexibility, ensured security of operations and data, giving capacity to compete with larger organisation, no maintenance/update fees for hardware and servers and providing facility to access it from anywhere in the world with any device(computer or mobile) any time.

Riding on the success of Cloud Computing, IoT (Internet of Things) owes its explosive growth to the connection of physical things and operation technologies (OT) to analytics and machine learning applications, which can help collect insights from device-generated data and enable devices to make "smart" decisions without human intervention. Currently, such resources are mostly being provided by cloud service providers, where the computation and storage capacity exists.

However, despite its power, the cloud model is not applicable to environments where operations are time-critical or internet connectivity is poor. This is especially true in scenarios such as telemedicine and patient care, where milliseconds can have fatal consequences. The same can be said about vehicle to vehicle communications in next generation cars, where the prevention of collisions and accidents can't afford the latency caused by the roundtrip to the cloud server. The cloud paradigm is like having your brain command your limbs from miles away — it won't help you where you need quick reflexes.

Moreover, having every device connected to the cloud and sending raw data over the internet can have privacy, security and legal implications, especially when dealing with sensitive data that is subject to separate regulations in different countries.

Storage and computing power increases according to Moore's law that is they double about every 18 months but as per rough estimates bandwidth increases only 40% per year, there will be more data wanting being sent to the cloud then there will be bandwidth. This issue has given rise to evolution of Fog Computing.

FOG COMPUTING

Fog computing, also known as fogging, is a disseminated computing infrastructure in which application and its services are handled either at the network edge or in a remote data centre- cloud. Fog computing was introduced to meet objectives like improving efficiency and trim the amount of data to be transmitted for processing, analysis and storage, place the data close to the end user and finally provide security and compliance to the data transmission over cloud. Cloud is located up in the sky, somewhere distant and remote, fog is close to the ground where operations are executed.

In fog computing, much of the processing takes place in a local device. This type of computing creates a virtual platform that provides networking, compute and storage services and functions in the middle of cloud data centres and end devices. Since most of the information will be processed by the local end user, only tailored amount of summarized information can be transmitted up to the cloud and also down from the cloud to the local operation. This reduced the burden of cloud bandwidth as 80% of data is needed within the local context. This further makes fog computing a practical solution to latency, delivering high
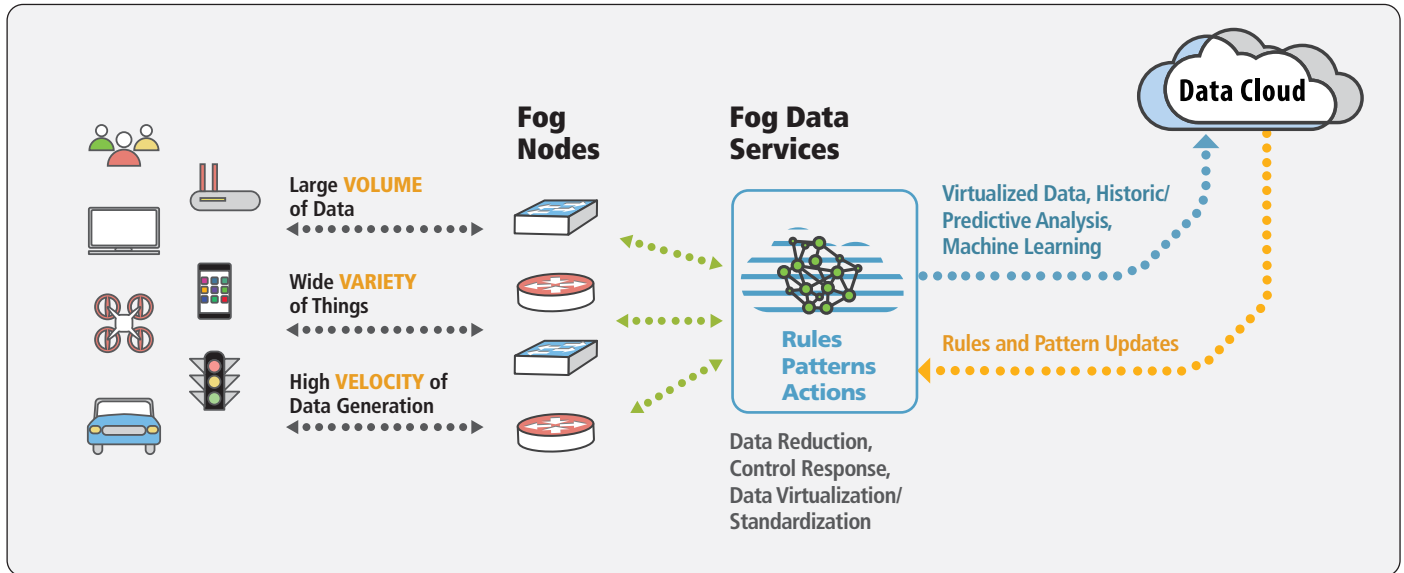
Fog Computing- flow diagram

quality multimedia application process data with low delay and packet loss.

Fog computing has its own supporting body, the OpenFog Consortium, founded in November 2015, whose mission is to drive industry and academic leadership in fog computing architecture. The consortium offers reference architectures, guides, samples and SDKs that help developers and IT teams understand the true value of fog computing. Mainstream hardware manufacturers such as Cisco, Dell and Intel are teaming up with IoT analytics and machine learning vendors to deliver IoT gateways and routers that can support fog computing.

USE CASES OF FOG COMPUTING

The concept of Fog computing has found its live use in terms of its applicability in every domain where the data processing is required to be done in real time to take quick machine based solution. A US based renewable energy company Envision has been able to obtain a 15 percent productivity improvement from the vast network of wind turbines it operates. The company is processing as much as 20 terabytes of data at a time, generated by 3 million sensors installed on the 20,000 turbines it manages. Moving computation to the edge has enabled Envision to cut down data analysis time from 10 minutes to mere seconds, providing them with actionable insights and significant business benefits. Another

IoT company Plat One is using Fog Computing to improve data processing for the more than 1 million sensors it manages. The company uses the ParStream platform to publish real-time sensor measurements for hundreds of thousands of devices, including smart lighting and parking, port and transportation management and a network of 50,000 coffee machines.

Fog computing also has several use cases in smart cities where in it is possible to enable traffic lights to integrate with connected vehicles, hopefully creating a future in which people won't be waiting in their cars at empty intersections for no reason.

WILL FOG COMPUTING REPLACE CLOUD?

Fog computing improves efficiency and reduces the amount of data that needs to be sent to the cloud for processing. But it's here to complement the cloud, not replace it.

The cloud will continue to have a pertinent role in the IoT cycle. In fact, with fog computing shouldering the burden of short-term analytics at the edge, cloud resources will be freed to take on the heavier tasks, especially where the analysis of historical data and large datasets is concerned. Insights obtained by the cloud can help update and tweak policies and functionality at the fog layer.

And there are still many cases where the centralized, highly efficient computing infrastructure of the cloud will outperform decentralized systems in performance, scalability and costs. This includes environments where data needs to be analysed from largely dispersed sources. It is the combination of fog and cloud computing that will accelerate the adoption of IoT, especially for the enterprise.

FUTURE OF FOG COMPUTING

The current trend shows that fog computing will continue to grow in usage and importance as the Internet of Things expands and conquers new grounds. With inexpensive, low-power processing and storage becoming more available, one can expect computation to move even closer to the edge and become ingrained in the same devices that are generating the data, creating even greater possibilities for inter-device intelligence and interactions.

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Appscape

Mobile Apps today have become the inevitable component of any online application. Apps increase the popularity of an application by providing anytime-anywhere access. In the era of Digital India, mobile Apps are considered as a basic necessity, and no longer a luxury.

Many online applications developed by NIC have native Mobile Apps. Collaboration between the development Groups at Centre and State & District Units would help in achieving excellence in developing Mobile Apps for e-Governance. A Confederation of Centres for Mobile App Development with a Nodal Centre at NIC-HQ and Competency Centres at Shimla, Patna, Chennai and Kannur (Kerala) was setup to promote development of Apps and to provide Training and Support for rapid development of Apps.

The Nodal Centre facilitates uploading of mobile Apps developed by NIC units free of cost in Google Play Store and Apple App Store.

For Apps uploading queries, contact:
eMail: mobileapps-nic@nic.in
Phone: 011- 2430 5494 (Deepak)

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

Appscape compiled by

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Sr. Technical Director, NIC HQ
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Pharma Sahi Daam App

Pharma Sahi Daam (correct price) is an online search mobile app for checking prices of scheduled medicines which are under price regulation as well as non-scheduled medicines instantly at the time of purchase of medicines. The app will indicate the maximum retail price (MRP) of the medicines inclusive of all taxes. Thus the consumers can verify whether medicines are being sold within the approved price range and also detect any case of overpricing by pharmaceutical companies and chemists. In case of overpricing the consumer can lodge a complaint through Pharma Jan Samadhan website (http://nppaindia.nic.in/redressal.html).

The App is designed and developed by National Informatics Centre for National Pharmaceutical Pricing Authority (NPPA), a government regulatory agency under Ministry of Chemicals & Fertilisers. The app is made available in iOS as well as Android platforms and is compliant to the recently introduced Goods and Services Tax (GST) norms.

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https://play.google.com/store/apps/details?id=com.nic.app.search medicineprice
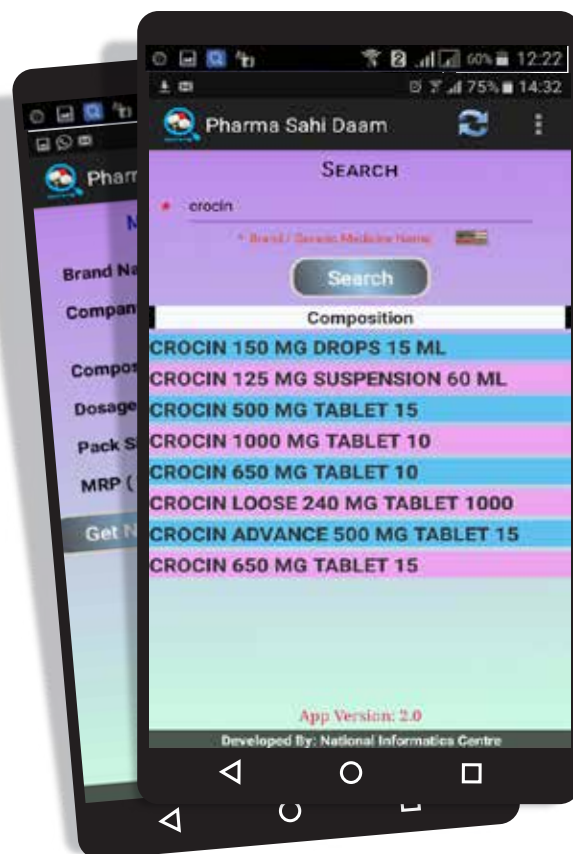
MyMSME App

Micro, Small and Medium Enterprises (MSME) sector has emerged as a highly vibrant and dynamic sector of the Indian economy over the last few decades. MSMEs not only play a crucial role in providing numerous employment opportunities at lower capital cost compared to large industries, but also help in industrialization of rural and backward areas. This reduces regional imbalances and assures more equitable distribution of national income and wealth.

MyMSME is a mobile application for all Micro, Small & Medium Enterprises (MSME) in India and other stakeholders. This app acts as a source of all information related to MSMEs such as Policies, Registration, Services and Schemes. Users can register MSMEs, apply for benefit schemes and lodge grievances. MSME Schemes guidelines, project profiles and web links to offices & organizations under Ministry of MSME are also available in the App.

*Contact for queries: **Shubhendu Kumar (shub@nic.in)***

WAMSI Public Interface

An Android based Mobile App is designed and developed under National WAMSI Project for the use of general public, for searching the Waqf properties and finding their current status The App also has a Geographic Information System (GIS).

Through this App, public can vouch for Waqf properties in their area and report any misuse or encroachment or under reporting of income by their managers alongwith geo-tagged photograph, as Waqf properties are deemed to be public properties for the welfare of needy and marginalized section of the society. Public can also track the status of their complaints. Complaints follow-up are done by Central Government by issuing reminders if pending for unexplained delay.

Moreover, the App provides a Dashboard indicating the present data-sets about the Waqf Properties in the country, available in WAMSI On-line System. On further drill-down, it will give State/ UT Waqf Boards-wise break-ups.

*Contact for queries: **Naeem Ahmed (naeem@nic.in)***

https://play.google.com/store/apps/details?id=msme.mymsme

http://wakf.gov.in/download/wamsi_public.apk

eSalary App

eSalary mobile App provides easy access to monthly salary details of Himachal Pradesh Government Employees on mobile devices. The monthly salary details include complete break-up of allowances as well as deductions. The App also provides the provident fund balance of the employees. Monthly salary details of the last five financial years can be accessed using the app.

The latest version of the App also includes details of other payments made to the employee. So employee can view the detail of salary, traveling allowance, medical reimbursement etc. at one place that too in employee's palm. Complete details of other payments including treasury, DDO and bill number etc. are available against each payment.

The eSalary App is made available in Android, iOS and Windows platform.

Contact for queries: Ajay Singh Chahal (sio-hp@nic.in)
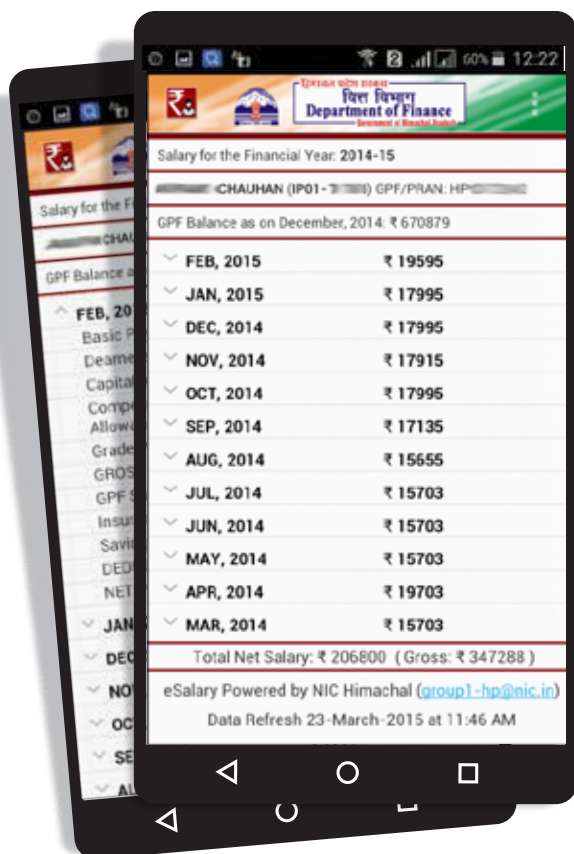
Mid Day Meal (MDM) App

Mid-Day Meal (MDM) App facilitates effective monitoring of daily and monthly mid-day meal data sent by the schools. The App provides additional data communicating mechanism for the MDM in-charge/ teacher who has to send the daily/ monthly data using SMS. Once installed on android device, it does not need Internet to send MDM figures as user has option to send the figure through SMS from the App. This simplifies the job of MDM in-charge. The higher authorities at Block, District and State level have a very simple and effective mechanism for efficient monitoring of daily as well as monthly data transmission by all the MDM in-charge under their jurisdiction.

The authorities can send SMS alerts to all defaulters using single button available in the App. The App is multilingual, where each State can add local language content using the interface provided as part of the MDM web based application ARMS being used by over 13 States presently.

Contact for queries: Ajay Singh Chahal (sio-hp@nic.in)

https://play.google.com/store/apps/details?id=nic.hp.esalary

https://play.google.com/store/apps/details?id=nic.hp.mdm

ARUN App

The ARUN (Atal Rooftop solar User Navigator) App is developed for Ministry of New and Renewable Energy for the promotion of solar rooftop systems. Features of App includes:

• Provides assistance for installations of solar rooftop systems and includes basic information on solar rooftop systems
• Guidelines for installation of solar rooftop systems
• A calculator for finding the cost of installations, method of installation of solar rooftop systems
• The schemes and policies related to solar rooftop system of different States
• List of State nodal agencies and approved private agencies in a State
• FAQs, App feedback facility and enquiries on Solar rooftop.

Through the installation method one can submit their interest request for installation of solar rooftop and the same will go to the concerned agencies of their State. The App is available in Android and iOS platforms and in English and Hindi .

Contact for queries: Saji K Abraham (saji.ka@nic.in)
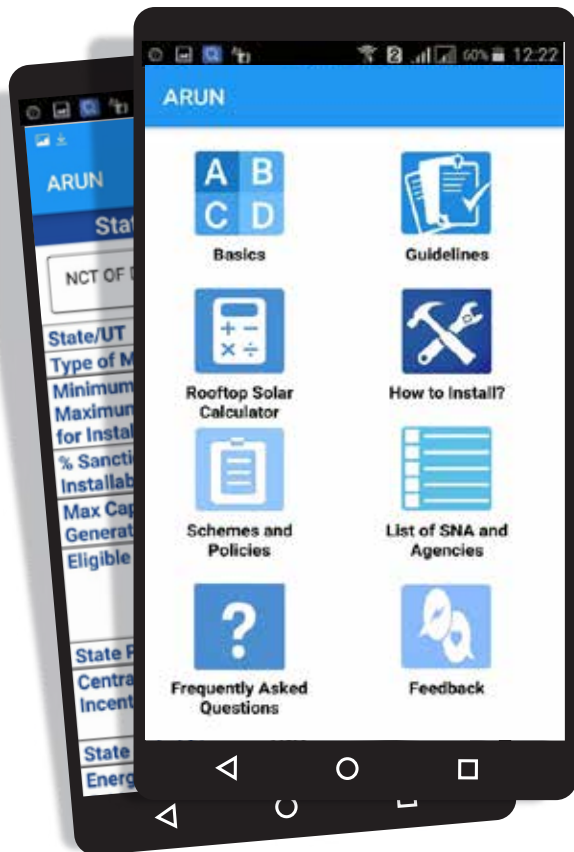
Kerala MVD-IM App

MVD-IM (Motor Vehicles Department - Information Management) is an Android App designed and developed by National Informatics Centre, Kerala for the Motor Vehicles Department, Government of Kerala. The App provides information on

• Vehicles registered in Kerala
• Driving licence issued in Kerala
• Status of applications submitted at various offices of Motor Vehicles.

Using this App, a citizen can get the complete details of his/her vehicle, driving license and status of application submitted to RTO with valid authentication.

This is one of the popular mobile governance initiatives of NIC Kerala. The App has so far over 3 Lakhs downloads from the Google Play Store.

Contact for queries: Asir Edwin (asiredwin.m@nic.in)

https://play.google.com/store/apps/details?id=nicmnre.nicarun

https://play.google.com/store/apps/details?id=in.gov.keralamvd.valis

NIC bags GEMS Of Digital India Awards, 2017

'Gems of Digital India' Award recognizes the innovative, impactful and sustainable E-Governance initiatives. 41 Gems were discovered from the best and were awarded at a function held on 7th June 2017 at New Delhi.

Thomas Gass, UN Asst. Secretary General for Policy Coordination and Inter-Agency Affairs, confers the honour to Hon'ble Chief Minister of West Bengal, Smt Mamta Banerjee

Award: United Nation's Public Services Award, 2017
Categ.: Reaching the poorest & Most Vulnerable through Inclusive Services & Participation categories
State: West Bengal

Kanyashree Prakalpa, a flagship programme of Government of West Bengal, was ranked first among the eight schemes chosen for the UN Award from 552 nominations from 62 countries. The award was conferred on 23rd June, 2017 in UNPSA Award ceremony at The Hague, Netherlands.

Kanyashree Online 4.0 (wbkanyashree.gov.in), designed & developed by NIC-West Bengal State Centre, is an e-governance mechanism of the programme, which provides a single-window & end-to-end ICT enablement. The entire process, from enrollment to direct bank transfer is online. Real time reporting with data disaggregated by age, location, minority groups, disability and educational attainment are available, as are service delivery performance indicators. The services are available through multiple channels like, portal, mobile app, smart phone version as well as through SMS services. The bi-lingual Kanyashree Portal & Mobile App, a tool to promote Digital Literacy amongst the Kanyashree Girls also provides virtual workspace for all Kanyashree Girls.. The programme is being run from 15,826 institutions across the State. Around 40.40 lakh adolescent girls are already enrolled in the programme. 87.52 lakh unit cash transfers have already been sanctioned within a period of 4 years and Rs.4,000 Crores have been disbursed through DBT.

The jubilant technology teams of National Informatics Centre displaying Award citations during the Gems of Digital India Awards 2017 ceremony.

C-Change Award 2017 was conferred to ReALCraft project (Technology Champion-Best eGov. Project) on 16 June, 2017 at Mumbai. Shri T. Mohana Dhas, SIO Kerala, Smt. Kasthuri, TD & HoG and Shri Unnikrishnan EK, TD, holding the Award

ReALCraft (Registration And Licensing of Fishing Craft is a web enabled and work flow based online application system using open source technology for vessel registration under MS Act and License Certificate under MFR Act to the fishing vessels operating along the Indian coast. The system track the status of any registered vessel at any point of time from anywhere, through internet or via SMS.

The software *(http://fishcraft.nic.in)* has been implemented in all 11 coastal States and 4 UT's. Around 2.75 lakhs fishing vessels have been registered.

'Microsoft – Data Heroes' Award for eTaal Portal was received by Shri IPS Sethi, Sr.TD, NIC and Shri OP Gupta, Scientist-C NIC on 3rd May 2017 at New Delhi

'Microsoft Data Heroes' Award for the tremendous efforts and leadership displayed by organizations in unlocking insights from data and to inspire the industry with leading best practices and stories was given away during Microsoft Data Amp event at Taj Mahal Hotel, Delhi on 3rd May 2017.

The Award was conferred to eTaal portal of NIC, which provides e-Transactions count of e-Services delivered to the citizens across the country. eTaal has a nationwide acceptability as data is being captured for approx. 3377 e-Services from 21 Central Ministries, 36 States/UTs and 21 Mission Mode Projects (MMPs).

Canada and U.S. Average Mobile Connection Speed far Behind European and Asian Counterparts

Though the world continues to become more connected and see better connections in 2017, Akamai's State of the Internet Report mentions that both Canada and the U.S. are still lagging behind in mobile connection speeds through the first quarter of 2017.

The volume of mobile data traffic grew by roughly 12 per cent over the previous quarter. Average mobile connection speeds ranged from a high of 26.0 Mbps in the United Kingdom down to a low of 2.8 Mbps in Venezuela. The United States and Canada reported 10.7 Mbps and 10.3 Mbps average mobile connection speeds respectively, remarkably lower than their European and Asian counterparts.

The global average peak connection speed has increased by 28 per cent year over year in the first quarter of 2017 to 44.6 Mbps. Likewise, the global broadband adoption rates of 4, 10, 15, and 25

Mbps increased by 13 per cent, 29 per cent, 33 per cent, and 42 per cent year over year respectively.

South Korea continued have the highest average connection speed in the world with 28.6 Mbps. The top 10 list is mostly represented by Scandinavian and Asian countries, with the U.S. rounding out the top 10 with 18.7 Mbps to be the only country that doesn't fall into either geography. The global average connection speed increased by 2.3 per cent quarter over quarter to 7.2 Mbps.

When it comes to the highest average peak connect speed, Singapore retained its spot at the top with 184.5 Mbps. The global average peak connection speed is 44.6 Mbps. The United States and Canada both reported peak speeds of 86.5 Mbps and 78.7 Mbps respectively.

Source: www.itworldcanada.com

Singapore's Online Portal to Help Senior Citizens Pick Up IT Skills launched

A new online portal was launched on June 10, 2017 to help senior citizens in Singapore pick up IT skills in areas such as the use of mobile devices, chat apps, cloud-based storage and cyber security. The portal, called IM Silver, offers senior citizens access to online guides, electronic books, videos and seminars to help them learn and take advantage of mobile and digital technologies. The portal

IMD Silver portal enables senior citizens to pick up IT skills

by the Infocomm Media Development Authority (IMDA) aims to complement the classroom sessions offered at 31 Silver Infocomm Junctions islandwide.

Beyond online and classroom resources, IMDA will also be working with the People's Association Active Ageing Council (PA AAC) to encourage peer learning through a new Tech Silver Project.

Under the project, seniors who have come forward to serve as technology and digital mentors to their peers – known as Silver Infocomm Wellness Ambassadors (SIWAs) – will receive structured technical and soft skills training from IMDA and the PA AAC to help them better spread tech know-how as to peers in the community. To date, 29 SIWAs have stepped forward to volunteer through this project.

The portal was launched during the annual Silver IT Fest, which is an event organised by IMDA, Institutes of Higher Learning, industry and community partners, from June 10 to 11, 2017. The fest features a series of workshops and other activities for seniors and their families to explore technologies in lifestyle, communications, entertainment and transport, among others.

Source: www1.imda.gov.sg

National Video Consultation Platform to Allow Patients to 'See' Doctors from Home in Singapure

Patients can soon "see" their doctors online from the comfort of their own home, with the launch of a national video consultation platform for health-care services on12th of April, 2017

The cloud-based platform allows for multi-party video conferencing, file sharing and the display of medical reports or images during consultations. Each video consultation session also uses end-to-end encryption and is protected with security measures, such as two-factor authentication.

Six public healthcare institutions will be the first to launch the system, accessible via smartphone or computer. Since November last year, video consultations have been available for selected services at KK Women's and Children's Hospital (KKH), the Institute of Mental Health, Singapore General Hospital and Tan Tock Seng Hospital.

From mid-2017, the platform will also be used at the National University Hospital and National University Cancer Institute.
At KKH, the service will be expanded to areas such as paediatric home care, lactation consultation, speech therapy and follow-ups for paediatric eczema pharmacy. For the other institutions, patients can communicate with their doctors on issues such as post-stroke needs, communicable diseases and cancer.

Doctor interacting with a patient using the consultation platform

Launched by the Integrated Health Information System (IHiS), the national technology agency for healthcare, the platform will allow doctors to monitor patients more regularly than traditional face-to-face appointments.

Source: www.channelnewsasia.com

Vietnam to Follow 'Digital India', Seeks Cooperation on E-governance

Vietnam wants to start its own 'Digital India' campaign in their country and has sought India's help in the areas of e-governance and cyber security. Both the countries have signed a Memorandum of Understanding (MoU) whereby Vietnam is planning to emulate many digital initiatives of the Indian govern-ment in their country. A Vietnamese delegation led by the country's Information and Communication minister Truong Minh Tuan met Union IT Minister Shri Ravi Shankar Prasad in Delhi. "Vietnam would like to tap into the experience of India in the delivery of digital services, law management and cyber security as this will help in the economic development of the country," Tuan told media, adding that the IT sector contributes to 25% of Vietnam's GDP. Tuan also invited Indian businesses to open their offices in Vietnam. Around six lakh people are already working on several digital initiatives in Vietnam.

Shri Ravi Shankar Prasad proposed building up of platforms such as common service centres and also offered a cooperation with National Institute of Electronics and Information Technology (NIELET) to provide basic courses on cyber security. He also suggested a collaboration between India's National Knowledge Network and Vietnam's VinaREN in areas of high-performance computing, e-learnings, telemedicine, weather forecast, cyber security, biodiversity and big data. Vietnam has a population of 90 million and nearly 70% of its people are on the internet. Nearly 90% of all its computers are connected to the web.

Source: http://egov.eletsonline.com

Vietnam to follow Digital India Initiative

South Korea's First "Online-Only" Bank Starts Business

South Korea's first Internet-only bank, K bank has officially launched its business, vowing to offer higher interest rates for depositors and lower interest rates for marginalized borrowers, as the company saves costs from having no brick-and-mortar branches.

K bank's services are available 24/7 on a smartphone app and on the Internet. It offers five kinds of deposit products, three loans and two check cards.

One of its representative products include the Code K Regular Deposit which offers 2 percent annual yield, the highest level among the first-tier banking industry.

The Slim K Mid-rate Loan, targeting those with credit ratings of 4 to 6, offers a 4.19 percent to 9 percent interest rate depending on borrowers' credit grade, which still makes it the lowest level among commercial lenders in the primary banking sector, with a maximum loan set at 30 million won.

The smaller net interest margin compared to that of existing banks can be covered by the costs saved from not having bank tellers and bank branches, said K bank CEO Shim Sung-hoon.

K bank is a consortium formed by 21 stakeholders. Telco giant KT

K Bank is the South Korea's first 'Internet only' Bank

has 8 percent, and the remaining 20 firms include Woori Bank, NH Investment & Securities, GS Retail, Hanwha Life Insurance and Alipay, the Chinese payment platform affiliated with e-commerce giant Alibaba.

Internet-only Kakao Bank, under Kakao Corp., the operator of the dominant chat app Kakao Talk, is expected to win a final regulatory approval soon and launch its services within the first half of the year, industry watchers
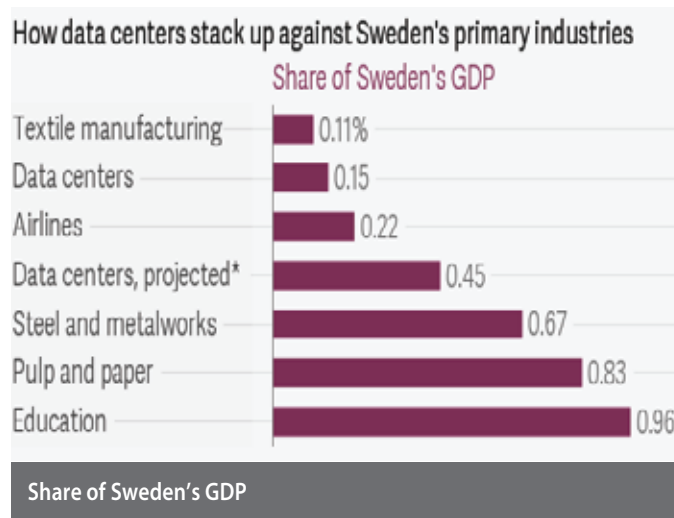
Source: http://pulsenews.co.kr

A New Tax Law Makes Sweden Attractive to the World's `Biggest Tech Companies'

Sweden's cool climate and forest-covered interior have allowed the country to build its economy on primary industries, like pulp and paper production and metalworks, for decades. Now, those same factors are helping it cater to a new kind of industry that could become just as vital to its economy in the years to come; the perfect real estate for data centres.

In January, a new law slashing the tax rate on electricity used by data centres by 97 percent went into effect, removing a major barrier to Sweden's burgeoning data-center economy. The energy consumed by data centers is now taxed as lightly as the electricity used by Sweden's steelworks, car plants and other heavy industries, putting it in line with regional competitors like Norway.

Data centres already contributed 6.2 billion krona ($687 million) and 3,600 jobs to the Swedish economy in 2015, according to a report by the Boston Consulting Group. The energy tax reforms mean data centres are expected to add 25 billion krona and 14,000 jobs by 2025, according to a report.

How data centers stack up against Sweden's primary industries

Share of Sweden's GDP

Industry	Share
Textile manufacturing	0.11%
Data centers	0.15
Airlines	0.22
Data centers, projected*	0.45
Steel and metalworks	0.67
Pulp and paper	0.83
Education	0.96

Share of Sweden's GDP

Source: https://finance.yahoo.com

Chief Minister of Himachal Pradesh Inaugurates Modern Sugam Centre at Dharamshala

Hon'ble Chief Minister of Himachal Pradesh, Shri Virbhadra Singh, inaugurated the recently built modern Integrated Sugam Centre at Dharamshala, headquarters of District Kangra, from Shimla through NIC-Video Conferencing on 12th June 2017.

Hon'ble Chief Minister Inaugurating the Modern Sugam Centre

Shri Sudhir Sharma, Hon'ble Minister for Urban Development, Shri C.P. Verma, Deputy Commissioner, Kangra and other officers of District Administration & NIC were present at the Sugam Centre in Dharamshala DC office complex. Shri T.G. Negi, Principal Secretary to Chief Minister, Shri Neeraj Kumar, SDM Dharamshala, Shri Ajay Singh Chahal, SIO-NIC Himachal Pradesh were present during the occasion.

The modern Sugam Centre has been set up with an objective to provide all citizen services under one roof. These services include copies of land records, issuance of certificates related to income, bonafide, caste, agriculturist, application for driving license, arms license, registration of vehicles etc. The Centre can accommodate about 250 citizens at a time and has central air-conditioning with good seating facilities.

The inauguration has been facilitated by setting up a temporary VC set up in the Sugam Centre, Dharamshala and connecting it with the CM VC set up at Shimla. The NIC provided technical support in the inaugural function with the SIO-NIC HP at Shimla with FMS resources comprising of Shri Thomas Masih, Shri Sushant Abbot and Shri Sandeep Sharma while Shri Bhupinder Pathak, DIO-Kangra and Shri Akshay Kumar took care of the VC set up in Dharamshala.

– AJAY SINGH CHAHAL, HIMACHAL PRADESH

Minister of Culture & Tourism, Odisha Inaugurates e-Library at Odisha State Archives

State Archives, Bhubaneswar, Odisha launched the e-library system of NIC on International Archives Day, the 9th of June 2017.

The e-Library system was inaugurated by Shri Ashok Chandra Panda, Hon'ble Minister for Culture and Tourism, Odisha. The Minister has informed that the books that are in the library of the archives have been catalogued for easy access to users. Previously, the users were physically searching books from a huge number of books and old records, but now it will be a thing of the past. Users have to just type in the keywords and they can get information about the books in which the related information is available.

Hon'ble Minister inaugurating e-Library at Odisha State Archives

Dignitaries present during the occasion were Shri R. Balakrishnan, IAS, Development Commissioner- cum- Additional Chief Secretary, Odisha, Shri Manoranjan Panigrahy, IRS, Commissioner-cum-Secretary, Culture Department and Srhi Amarendra Kumar Patnaik, Director of Culture .

Dr. Bhagyalipi Malla, Superintendent-in-charge of the Archives has informed that NIC Odisha State Centre has taken initiation to automate Odisha State Archive library using e-Granthalaya software and more than 30000 rare documents and books of British period would be made available to research scholars and public.

Shri Samarendra Dash, Scientist-D, NIC, demonstrated various features of the e-Library to the august gathering.

–A.K.HOTA, ODISHA

Single Window Solution for Ease of Doing Business launched by Governor of Punjab

His Excellency Shri V.P. Singh Badnore, Governor Punjab and Administrator, Union Territory of Chandigarh inaugurated the Single Window Solution for Ease of Doing Business (http://eodb.chd.gov.in) on 14th June 2017 at Chandigarh. Also present on the occasion were Shri Parimal Rai, IAS Adviser to Administrator, Sh M P Singh, IAS Principal Secretary to the Administrator, Sh Maninder Singh, IAS Chairman CHB, Sh Anurag Agarwal, IAS Home Secretary, Smt. Kavita Singh, IAS Secretary Industries, Dr. Tapasya Raghav, IAS Director Industries and other senior officials of the UT.

The Single Window Solution for Ease of Doing Business (EODB), developed by NIC Punjab has been adopted by Chandigarh Administration and customized by NIC Chandigarh UT Unit as per the requirements. This initiative has been taken by Industries Department, Chandigarh Administration so as to enable the investors to get online permissions and approvals in a time bound schedule from concerned departments like Estate Office, Labour Department, Excise & Taxation Department, Chandigarh Municipal Corporation and Engineering Department. Investors would be able to get permissions from the various departments of Chandigarh Administration for setting up of new business or for the renewal required under various acts of the existing business. This solution shall cut down

A snapshot from the launch event of Single Window Solution for Ease of Doing Business at Chandigarh

unnecessary delays in setting up of new business and also to carry out the existing business without many hassles. The system sends alerts through SMS and eMail and is integrated with Payment Gateway for making online payments for fees required to get various permissions/approvals. Advisor to the Administrator appreciated Industries Department for understanding the problems faced by the investors and getting a robust solution developed and he also praised the NIC Chandigarh UT Unit for the efforts put in delivering the solution in a very short time. The Secretary, Industries informed that the Online Single Window System is unique as it would also enable get renewals of permissions related to industry from concerned departments within a fixed time period which shall make the System for Ease of Doing Business popular and need based amongst the Industry & Business.

–VIVEK VERMA , CHANDIGARH

Performance Appraisal System of Maharashtra, 'MAHAPAR' Successfully Implemented

Online submission of Performance Appraisal Reports (PAR) for officers of 13 cadres of State Government has been successfully implemented by NIC Maharashtra in coordination with NIC Delhi. This project has been implemented on the lines of Smart Performance Appraisal Report Recording Online Window (SPARROW) system which has been rolled out for the All India Service officers of Maharashtra.

Maharashtra is one of the few States which have implemented this system. The instance http://mahapar.maharashtra.gov.in is operational with the technical support of the National Data Centre, New Delhi. More than 5000 Officers are expected to use this system during 2017- 2018.

SIO - Maharashtra explaining the features of MAHAPAR to the Nodal Officers of State Government at Mantralaya, Mumbai

Presentation of 'MAHAPAR' to the Hon'ble Minister of State of Electronics and Information Technology, Govt. of India during his visit to Mumbai on 31st May, 2017 was given by the SIO-Maharashtra. The Minister has lauded the efforts of NIC and General Administration Department of Government of Maharashtra.

- MOIZ HUSSAIN , MAHARASHTRA

Swarn Jyanti Sanjhi Cycle Project launched by Hon'ble Minister, Shri Karan Dev Kamboj at Kurukshetra, Haryana

To decrease the pollution and save the environment, the District administration, Kurukshetra with the support of NIC, Kurukshetra has initiated the program to provide cycle service to the citizens in the District. The project was launched by Hon'ble Minister for Food & Civil Supply, Haryana, Shri Karan Dev Kamboj at Kurukshetra on 12th June 2017.

In this program, the applicant has to submit the duly filled registration form along with the ID proof and a prescribed fee. Basis this, RF ID card is issued to the applicant. Using this card, the cardholder can swipe the card on the machine at any of the cycle stand across the city and receive a cycle for his use. Initially this facility will be started from 7 Cycle Stands and will be further extended to 20 Cycle Stands.

NIC has played a central role in conceptualization and finalization of terms and conditions for District Administration, finali-

Launching of SJSC Project by Hon'ble Minister, Shri Karan Dev Kamboj

zation of Cycle Stands in the City , Identification / setup of Registration Counter for issuing of card, tie up with vendor for issuing of RF Card and designing of webpage.

—DEEPAK SAWANT, HARYANA

'Janmanrega' Mobile App Launched by Union Minister for Rural Development & Panchayati Raj in New Delhi

Shri Narendra Singh Tomar, Union Minister for Rural Development and Panchayati Raj, launched Citizen Centric Mobile App 'Janmanrega' on 19 June 2017 at Vigyan Bhawan, New Delhi. Shri Ram Kripal Yadav, Minister of State for Rural Development, Shri Amarjeet Sinha, Secretary (Rural Development) GoI and other distinguished guests were also present on the occasion.

The App, developed for android platform provides important information about MGNREGA and Geo-MGNREGA to the citizens.

Though the beta version of the App provides support for English and Hindi language, its design supports multiple languages. During installation, a default language and State are to be chosen. The user is registered through the mobile OTP based verification after which a 4 digit pin is set to access the App. The App has a feature to view assets created under MGN-REGA spread all over the nation by selecting the State, District, Block and Panchayat. User can also view the assets in nearby places of a radius 20 metre to 5 kms from user current position. These assets are tagged on the map. The map and tagged assets are provided by NRSC, Hyderabad who have tagged the MGN-REGA assets under Geo-MGNREGA.

Next version of the App is envisaged to have facility for users

Launch of App by Hon'ble Minister, Shri Narendra Singh Tomar

to send feedback on the MGNREGA asset, from where the user is present. The user will also be provided with query tools to view various other details associated with MGNREGA MIS.

A joint effort of National Informatics Centre, National Remote Sensing Centre and MGNREGA team at Ministry of Rural Development, this App has been developed by the Centre of Competence for Mobile App Development, NIC Himachal Pradesh.

—SANDEEP SOOD, HIMACHAL PRADESH

Interactive Meeting on Barcoding and DAVA System held in New Delhi

A workshop was organised at New Delhi on 27th March'2017 for the India Pharma Industry representatives for awareness on preparing and maintaining Data in parent child relationship at Primary, Secondary & Tertiary levels, printing of barcodes as per GS1-India standards on packing of these three levels, and uploading the Data on the DAVA Portal etc.

Shri Udaya Bhaskar, DG-Pharmexcil, Dr. Ambreesh Kumar, DD-NIC, Shri S. Swaminathan, GS1-India, Dr. VK Sharma, Sr.TD- NIC and Ms. Anice Joseph Chandra, Director, Dept. of Commerce presided over the meeting.

The 'DAVA' (Drugs Authentication and Verification Application) is a web-based Application designed and developed by NIC, Commerce Informatics Division for creating a database for all the Drugs, manufactured in India.

Dept. of Commerce, Directorate General of Foreign Trade

Dr. Ambreesh Kumar, DDG-NIC addressing the gathering on 'DAVA' System

(DGFT), Indian Customs, Min. of Health & Family Welfare, Drug Controller General of India, Pharmaceutical Export Promotion Council (Pharmexcil) and GS1-India are the stakeholders of the project apart from Manufacturers, Exporters, Wholesalers, Distributors, Retailers, Consumers and Importing countries.

During the meeting, feedback and suggestions from the pharma industry were gathered for further improvement in system.

– Dr. V.K. SHARMA, NEW DELHI

Chief Minister, HP launches the Website of Building Workers' Welfare Board

S hri Virbhadra Singh, Hon'ble Chief Minister of Himachal Pradesh, inaugurated the Himachal Pradesh Building and Other Construction Workers Welfare Board website at Shimla on 6th June 2017. Chairman of the Board, Shri Bawa Hardeep Singh, Ms. Jyoti Rana, Secretary of the Board, Shri Ajay Singh Chahal, State Informatics Officer, Shri Sanjay Sharma, Technical Director, NIC and other officers of the Board were present during the launch ceremony. The website has been designed and developed by NIC Himachal Pradesh

Hon'ble Chief Minister expressed the hope that the website will be helpful to the contractors who engage these workers and the workers themselves as lot of benefits can be availed by these building and other construction workers. The Chairman and Secretary of the Board informed that there has been a marked increase in the welfare benefits disbursed by the Board during the last few years and that the website will help to educate people about the activities being carried out by the Board.

The website provides information related to the Act, Notifica-

Hon'ble Chief Minister, Shri Virbhadra Singh during the launch of the website of Building Workers' Welfare Board at Shimla

tions, downloadable Forms, welfare schemes, amounts, contact officers, their addresses at field level, important notices, information on how to register, make contributions and avail various benefits, categorised under different criteria. All content is available in Hindi also for ease of understanding by the building and other construction workers.

Shri Shailender Kaushal, Scientist-D, Shri Sushant Abbot, SFNO and Shri Rajkumar, Sr. VC Coordinator provided the audio-visual and other technical support for the inaugural ceremony.

– AJAY SINGH CHAHAL, HIMACHAL PRADESH