KERALA
Soaring high with ICT Success Stories

NIC- Kerala has been instrumental in developing and implementing many significant and successful e-Gov projects for the Government of Kerala.
It continues its stride of excellence by winning several prestigious awards and accolades from various eminent institutions at national and state levels.

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NIC Kerala State Centre has been actively involved in ICT based e-Governance solutions for Government of Kerala over the last 28 years. NIC Kerala has developed and implemented many significant and successful e-Gov applications. eDistrict for Certificate and eServices to citizens, TREND for Election Results Management, PRICE (PRICE – Project Information and Cost Estimation), RELIS (Revenue Land Information System) for Record of Rights, Integrated Financial Management System, Open PEARL for web based property registration and eServices, E-Treasury for Government receipt management platform, Legislative Assembly Interpellation System (LAIS), REALCRAFT for registration and licensing of fishing vessels, SPARK for government HR management, CAPNIC, hsCAP and CAT-2016 for e-admissions and counseling, Coir Beneficiary Management System, e-DBT, GEMS for Gazetted Entitlement Management, eOffice, and IDEAS in Secretariat are some of the major e-Gov solutions and applications implemented in Government of Kerala. Integrated Financial Management System (IFMS), RRonline for Revenue Recovery System are the two emerging key e-Government ICT platforms being introduced. NIC Kerala also provides support for NKN services, Video Conferencing Services, Web and Email services and technical consultancy services to various Government Departments.

PRICE – PROJECT INFORMATION AND COST ESTIMATION
(http://price.kerala.gov.in)

Central Public Works Department (CPWD) of GoI releases revised version of Analysis of Rates and Schedule of Rates every year. CPWD has incorporated cost index for every States to get a normalized rate for preparing the estimates. PRICE is a workflow-based software developed by NIC-Kerala for the Public Works Department of Government of Kerala for preparation and approval of estimates along with its project proposal.

The dynamic generation of Data Analysis of Rates (DAR) as and when the DSoR changes along with the software's recalculation feature facilitates the department to prepare estimates with the latest DAR and convert the existing estimates to the latest DAR.

Implementation Status: PRICE was launched in January 2014. It has been made mandatory that all estimates shall be prepared, submitted and processed only through PRICE. Hence steps are afoot to induct PRICE in the Roads &Bridges wing of PWD and other engineering departments (Irrigation, Agriculture, Harbour Engineering, Ports, LSGD Rural & Urban). The department of Agriculture has implemented PRICE on 1stOctober2015.

The Ministry of Rural Development

PRICE team with Shri P.H Kurian, IT secretary, GoK and Ms. Pennamma, Chief Engineer (PWD) during the CSI-Valiant e-Governance Award function

(MRD) identified PRICE as the tool for cost estimates of works related to MGNREGA. The software has also been customized at MGNREGA Portal and has since been piloted in Kerala. MRD is planning for national rollout of this software.

Recent awards:

• CSI-Valiant e-Governance Special Jury Award at the event of CSI Golden Jubilee e-Governance Awards, Kerala (November, 2015)

• Award of appreciation at CSI Nihilent e-Governance Awards, 2014-2015

eDISTRICT KERALA
(https://edistrict.kerala.gov.in)

eDistrict Kerala is a Mission Mode Project (MMP) under NeGP, which aims to bring citizen services closer to home. Common Service Centres (CSC) and online portal are the points of contact for citizens to avail services provided by various departments. 40 services of different departments are implemented under the project which includes 24 Certificate servic-

es of the Revenue Department, Right to Information (RTI) services, Grievance submission and processing, Revenue court cases, Payment services like electricity bill, water bill, BSNL phone bills, University payments and e-Challan to police department.

Under this project, all Village Offices, Taluk Offices, RDO Office and Collectorates are connected on KSWAN / NICNET. More than 2400 Akshaya

centres are designated as CSCs for services delivery. Under this project, 1.83 Crore applications for various certificates and delivered online (as on January 2016). All these applications are processed through a workflow built in to the system and the digitally signed certificates are issued through CSCs/ online portal.

Individuals can apply for citizen services at any CSC or through online portal and need not have to visit the government offices for availing these services. Thus the convenience of the citizens has improved much as more CSCs are in place than the number of offices. Applications can be filed at any of the CSCs irrespective of locations of related government offices and thus saving money and time. Since entrepreneurs run the CSCs and they work beyond office hours, citizens can avail the services after government office hours also. The project has been rolled out in all the districts of Kerala as on March 2013.

Recent award:

• Order of Merit Award in the 41st SKOCH summit 2015

Webpage of e-District Services, Kerala
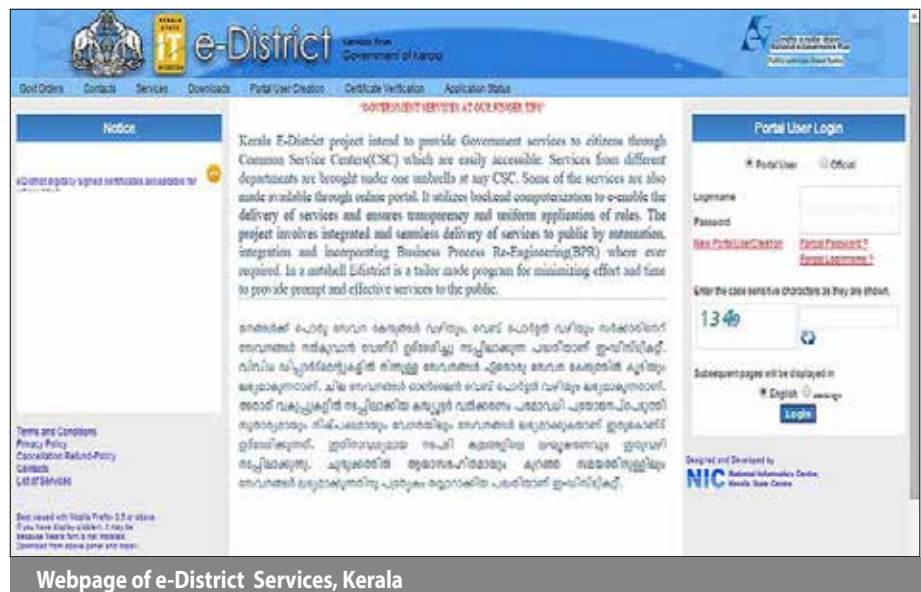
TREND - TREND OF COUNTING BY STATE ELECTION COMMISSION, KERALA

(http://trend.kerala.gov.in)

Kerala State Election Commission has entrusted NIC Kerala with the mammoth task of preparing Photo based electoral rolls, capturing of voter turn-out data, counting data and swing of

NIC has also developed and hosted web site http://trendentry.kerala.gov.infor collecting and verifying ward wise and polling station wise (tabular) details. The resultant data is then fed into the TREND system. The servers are configured in such a way that the data is instantly replicated to a separate set of servers, which disseminate results. Following are the TREND highlights:

4.75+ Crore unique views of actual data in a single day.

• The entire development, its deployment and production hosting is done on Open Source Technologies

• TREND was instrumental in declaring the election results in a record time.

TREND- Server details
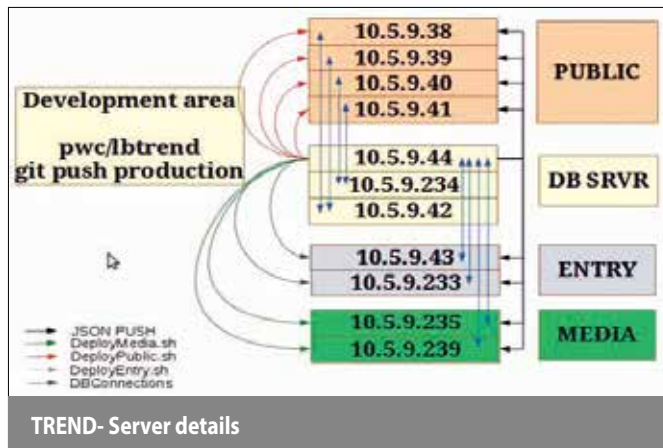
Trend 2015 – Local Body Election 2015 Statistics

counts. TREND is open source technology based software developed by NIC to compute trends in vote counting of elections in real time. This has been facilitated through 'http://trend.kerala.gov.in', a portal developed by NIC.

In Kerala, TREND was successful in capturing the voters' turnout details and dissemination of results activity of all elections. Data of 3.6 Crore family members with 105 indicators has been used for the elections. Following are the elections for which TREND was successfully deployed:

• Kerala Assembly

• Kerala's Parliament Constituencies

• Election of Local Bodies of Kerala (Corporation Ward/ Municipality Ward/ Panchayat Ward/ District Panchayat Ward/ Block Panchayat Ward)

• The system enabled the Election department to generate all required reports like A07, A08, Form 20 etc.

• The servers have registered around

REVENUE LAND INFORMATION SYSTEM (RELIS)

ReLIS is a unique online system developed by NIC-Kerala to facilitate

Hon'ble CM, Shri Oommen Chandy inaugurating the State wide implementation of ReLIS (Record of Rights) in Kerala

ease of transaction of land (locally termed as 'Pokkuvaravu'). In ReLIS, a person who intends to sell his land in full or part, has to collect record of right (RoR) from the concerned Village Office and submit an online application to the Sub-Registrar Office through the CSC's (AKSHAYA). The application will be then made available to the sub-registrar Office electronically and after executing the transaction deed, the sub-registrar approves the concerned application of Transfer of Registry. The 'Pokkuvaravu' application will be available online to the concerned Village Office or to the Office of the Tahsildar depending upon the nature of transaction. The received applications for Transfer of Registry at Village Office are listed and after the appeal time, village officer can affect the Transfer of Registry by just approving the application.

ELECTRONIC BENEFIT TRANSFER (EBT)

Electronic Benefit Transfer (EBT) software developed by NIC facilitates beneficiary management, process flow and electronic transfer of amount to beneficiary's Bank/ Post Office Savings Account. Any Department can be plugged in to the system and configure their requirements. Beneficiary data is captured at single point or multiple points and even through Akshaya centres. Process flow can be designed in to the system for verification, Forward and Approval. Department can disburse the benefits at single point or at multiple points like District, Blocks etc.

The disbursement also can be set up while configuring the scheme and for this various modes of Disbursements available are NEFT, Post Office, PFMS, AEPS etc.

Webpage of Electronic Benefit Transfer (EBT)

The EBT portal is operational since three years now and is currently configured for around 143 Schemes of the Government of Kerala. The major users are the Agriculture department, Finance department, Rubber Board, Higher Education department, SC department and Institute of management in Government and Kerala Social Security Mission.

GAZETTED ENTITLEMENT MANAGEMENT SYSTEM (GEMS)

Office of the Accountants General (Accounts & Entitlements) authorizes gazetted entitlements (pay, leave salary and allowances admissible to a gazetted officer) of the officers of State Government. The entitlements are regulated on the basis of various Rules and Regulations made by the competent authority governing the conditions of service. Various events in the career of an officer such as Appointment, Promotion, (including grade and ratio promotion), Increment, Transfer, Suspension, Dismissal, Retirement, Leave, Deputation, etc. cause change in the pay and allowances of an officer and consequently the revision of pay and allowances is undertaken. This is authorized and its drawing is monitored. The office maintains database of all events and subsequent changes in the pay and allowances of each officer during his career.

GEMS is a web portal developed by NIC, Kerala to improve efficiency of Gazetted Entitlements. The Software

GEMS : Workflow

has three core modules for Pay, Leave and Pension. Pay module enables pay fixation and making entries in the system whereas, Leave module facilitates calculation of leave, leave salary, leave surrender pay, terminal surrender etc. Pension module facilitates reporting to pension wing, the essential details of officers who retire on superannuation.

Implementation Status:

- Successfully implemented at AG's Office, Trivandrum office in 2012

- Being taken up for implementation in Karnataka, Assam, Tamil Nadu, Manipur, Nagaland, Meghalaya, Bihar and Jharkhand

- CAG has recommended national rollout of eTreasury as it had been successfully operational at the AG's office since the last 3 years.

E-TREASURY
(https://etreasury.kerala.gov.in)

The Treasury Department, Government of Kerala, has decided to receive payments electronically in addition to the conventional modes of tax payment accepted by the government. eTreasury is a software successfully developed by NIC-Kerala for electronic payment of Kerala in which acceptance of on-line payment of Kerala State's taxes through the web portals of various banks has been facilitated. This does not have any implication on the existing procedures of the Department. To make ePayment of taxes, a taxpayer is required to have net-banking account with any of the banks listed at the site 'http://etreasury.kerala.gov.in'.

Recent award:

- 2015 CSI Valiant Runner-Up Award for best project
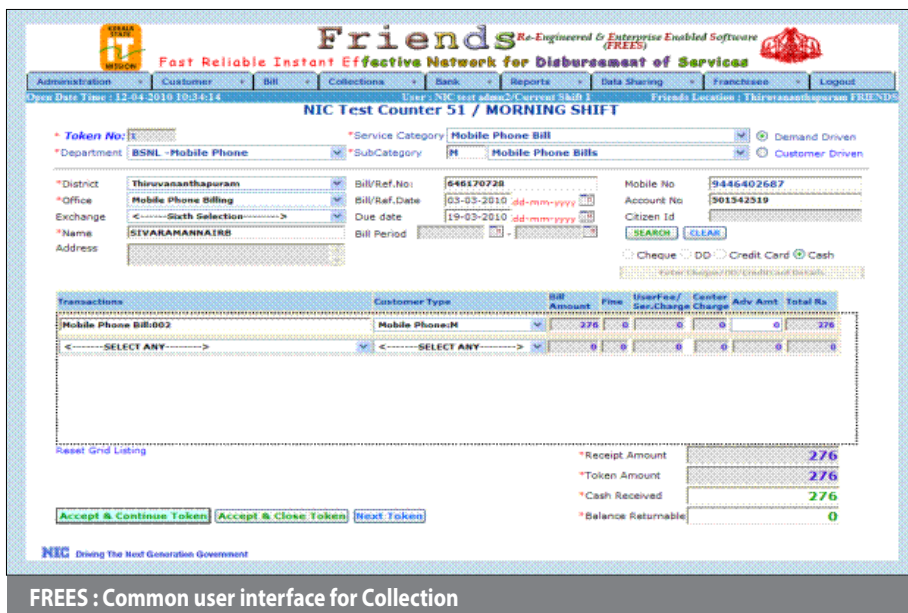
E-OFFICE

e-Office is a Mission Mode Project under the National e-Governance Pro-

gramme (NeGP) of GoI. e-Office facilitates simplified, responsive, effective and transparent process of carrying out office procedures electronically in all government offices. The product has been standardised to make it reusable and customisable for replication across governments and local bodies. The e-Office is envisaged to usher in a single collaborative workspace for government.

NIC-Kerala facilitated implementation of e-Office at various Government offices such as the Secretariat, Collectorates and some of the Directorates. Implementation involves a systematic government process re-engineering, migration and a step-by-step conversion of files from physical to electronic files.

- CSI Nihilent e-Governance Award of Appreciation for e-Office project 2015

- SKOCH Summit Order of Merit Award 2015

Webpage of e-Treasury, Kerala

FREES : Common user interface for Collection

FRIENDS RE-ENGINEERED AND ENTERPRISE ENABLED SOFTWARE (FREES)

FREES is an enterprise enabled, anywhere-any payment system developed by National Informatics Centre, Kerala State Unit. This web-enabled system has replaced the old software in individual FRIENDS centres and helps the citizens to pay all the taxes and other dues at any FRIENDS centres. The counters are equipped to handle the bills/dues of Revenue, Motor vehicles, Civil supplies, Local bodies, Universities, KSEB, Kerala Water Authority and BSNL (land line, wireless and mobile). Using the FREES portal, the concerned departments can upload demand details (bill data) immediately after preparation of bills. Authorized users of the participating departments can download the collection details. Alternately, the participating departments can expose web-services in their servers to deliver demand details, which can be consumed by the collection centres as and when required. Facility is also available in the portal to update the collection details in the departmental server

as and when the collection is made.

The system is flexible enough to add new departments and services to the system without modifying the software. Collections can be made in three modes: (1) demand driven mode, (bill data is pre-loaded into the system) (2) customer driven mode (Collections are taken as per the bill presented by the customer) and (3) web service driven mode (bill data is fetched online from the respective departmental server). At present, Kerala Water Authority, Kerala State Electricity Board, Motor vehicle department (Tax collection), Cultural Welfare department, Calicut University and Municipal Corporation (property tax) follow web service driven transactions. BSNL (land phone bills, Wireless and Mobile bills) follow demand driven whereas all other departments follow customer driven mode.

The FREES application and database are hosted at State Data Centre (SDC). Users connect with the central server through web browser and all reports generated (pdf) can be downloaded to local client.

FREES has been integrated with eDistrict application

Collection of Certificate Fee, payments for Akshaya & Portal, Reconciliation of Akshaya Advance and Portal Collection, Payment Gateway Settlement file creation and Payment Gateway Refund file creation are handled by FREES application.

Status

- FREES Rollout have been completed in all FRIENDS.
- Around 6188018 transactions have been made successfully and collected around Rs. 543 Crores over a period of five years through FREES.

REALCRAFT - REGISTRATION AND LICENSING OF FISHING CRAFTS

ReALCRAFT (http://www.fishcraft.nic.in) is a demand driven project envisaged to enhance coastal security with a system of identifying each fishing vessel by unique registration number. The ReALCRAFT Application is operational in 164 locations

ReALCRAFT Project Locations

having 5000 trained officials working in 9 states and 4 union-territories. The application has a database containing of details of about 3 lakh fishing vessels into one national database. It has helped coastal security agencies in uniquely identifying and monitoring the fishing vessels in the sea, keeping at bay any illegal, unregistered and unreported activities. Real Craft improves coastal security, fishermen security, and ensures benefits such as kerosene and petrol subsidy along with insurance to fishermen.

Beneficiaries of the project include fishing vessel owners, security agencies such as coast guard, navy, coastal police, fisheries department and related agencies of 9 coastal States & 4 UTs, Mercantile Marine Department, MPEDA, DGLL, Insurance agencies, State and Union Ministries.

The registration certificate has a barcode mechanism, which helps the security agencies to trace the history of fishing vessels. It provides an online facility where vessel owners can stay updated on the status of submitted applications. Recording of details of crewmembers venturing into sea for fishing will be integrated with this system soon. This facilitates to further strengthen the arms of costal security agencies.

Implementation details
- The ReALCRAFT Software successfully designed and piloted in Kerala. Gap Analysis was done to rollout software to all the 13 coastal States/UTs. Software has been successfully customized for national rolling out in 9 Coastal State and 4 UTs
- Carried out site inspections and provided technical guidance for site preparation to all 166 ReAL-

CRAFT Centres in the country
- ICT infrastructure procured, deployed and commissioned at all ReALCRAFT centres in the country successfully. 166 ReALCRAFT centres are networked through MTNL/BSNL's Broadband
- Series of training and sensitization programmes organized for the fisheries department officials (around 4000 officials)
- ReALCRAFT Software has been successfully security audited as mandated by the Ministry of Home Affairs
- Ensures scalability, reliability and availability, security audited software has been deployed on secure dedicated servers at the NIC Internet Data Centre, Hyderabad (http://www.fishcraft.nic.in)
- Operational from 166 locations along the coastal line
- Around 3 lakhs vessels have been registered
- Around 800 users are accessing the system
- Stakeholders - Navy, Coast Guards, Marine Police, Fisheries Authorities, Ministry of Home Affairs, DRDO Labs associated with Coastal Security, DGLL etc.
- Legal issues - Marine Shipping Act 1988 modified
- Security agencies like Coast Guards, DGLL uses unique Registration Number in their National Automatic Identification System (NAIS) for Fishing Vessels.

Recent Awards:
- CSI Nihilent Award for Excellence 2015
- Order of merit award in the 41st SKOCH summit 2015

LEGISLATIVE ASSEMBLY INTERPELLATION SYSTEM (LAIS)

LAIS (Legislative Assembly Interpellation System) is a web enabled database solution for the Question-Answer system used by Ministers, MLAs, Officials of Minister Office, KLA, Government departments, Hon'ble Speaker and Niyamasabha Secretary. The LAIS application serves the requirements such as submission of Question Notices, Balloting of names of MLAs, editing of question notices, setting of questions, distribution of questions to departments, replying to questions by the departments concerned, centralised status monitoring, querying and report generation.

LAIS was put to use for the 12th and 13th session of 13 KLA on trial basis and found to be very useful and meeting all the requirements of KLA. Hon'ble Chief Minister, Shri Oommen Chandy in the presence of Hon'ble Speaker Shri N. Sakthan, Hon Ministers, MLAs and senior officials of the Government formally inaugurated LAIS on 20th July 2015. After that it was put to use in the 14th and 15th sessions of 13 KLA. LAIS implementation has enabled KLA to avoid late sitting of officials and improved the work-quality besides the huge saving on paper stationary.

SPARK (SERVICE AND PAYROLL ADMINISTRATIVE REPOSITORY FOR KERALA)

SPARK is an integrated HR and payroll package for employees of Government of Kerala, AIS officers, AICTE / UGC and Judicial staff and part time employees. Presently, the service details of 5 lakhs employees of 30000 offices are being managed and their salary bills are processed through

SPARK - Workflow
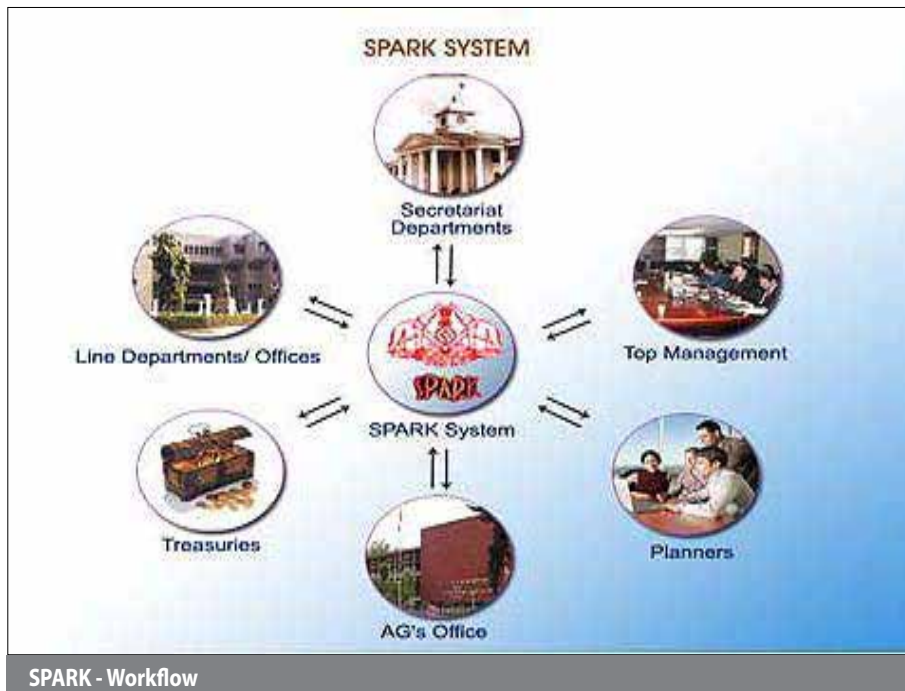
this software. Permanent Employee Number for all employees is allotted through the system. Facilities in the software includes, salary and arrear bill processing of employees, Leave surrender processing, processing of overtime allowance, bonus, festival advance, performance allowance, honorarium, claims other than salary, online leave management system etc. The system maintains data dictionary of various rates/ slabs with respect to all earnings, which helps computation of various earnings.

After processing for salary payment and other benefits, the bills are e-submitted to treasury using web service and the salary of individuals gets credited to their bank account. Entitlement of Government aided school employees are authenticated using digital signatures by officers of education department. Interface is given to individual employees to view their salary, loan, leave, GPF, accounts and personnel details. Transfer and postings, LPC generation, increment sanc-

tioning, income tax calculation, form 16 generation etc. makes SPARK a unique application for establishments of Government of Kerala.

Recent Award:
- 41st SKOCH summit 2015- Order of Merit Award

INFORMATION & DATA EXCHANGE ADVANCED SYSTEM (IDEAS)
(http://sics.kerala.gov.in/ideas)

'IDEAS' is a web-based application developed by NIC-Kerala for tracking files and petitions in the Chief Minister's office, Offices of the various Ministries, Govt. Secretariat and other Departments. It has been developed under LAMP platform and hosted at State Data Centre.

Features:
- Automatic Petition / Tapal Number generation, Automatic GO Number Generation, 24 X 7 System availability, Data Security, Reminder Services, Performance

Monitoring reports, Employee Contact details, Personal Register, PR Calendar Statistical reports, Meeting Management and Seat based Roll mapping.
- Login details are unaffected by transfers.
- Reports generated can be pushed to other officers.
- Issuance of Pass to Visitors (VFC) Operational in 40 Departments in Govt. Secretariat, 21 Minister offices, all the three Visitors Facilitation Centres in Govt. Secretariat, Port Directorate & Vizhinjam Harbour Office, Motor Vehicles Department (Head office), Forest Department Head office and 9 Subordinate Offices. 25 Offices in KSEB, Department of Public Instructions, 4 Chief Engineers Office in PWD Town Planning Department (Head Office) and Excise Department (Head office).

Recent Award:
- CSI ICFOSS Open Source Award 2015

NEGPA-SERVICE 9 – INFORMATION ON FISHERIES

Government of India has identified 12 services under national e-governance plan in which Service-9 is meant for "Information on fishery inputs management". This service aims to provide information on good practices of fish farming, efficient use of feed materials, dealer networks, quality control, fishermen safety, fish diseases, schemes for fishermen and fish production statistics, automation of fish seed grower registration, vessel registration, expert advice and mechanism for grievance management.
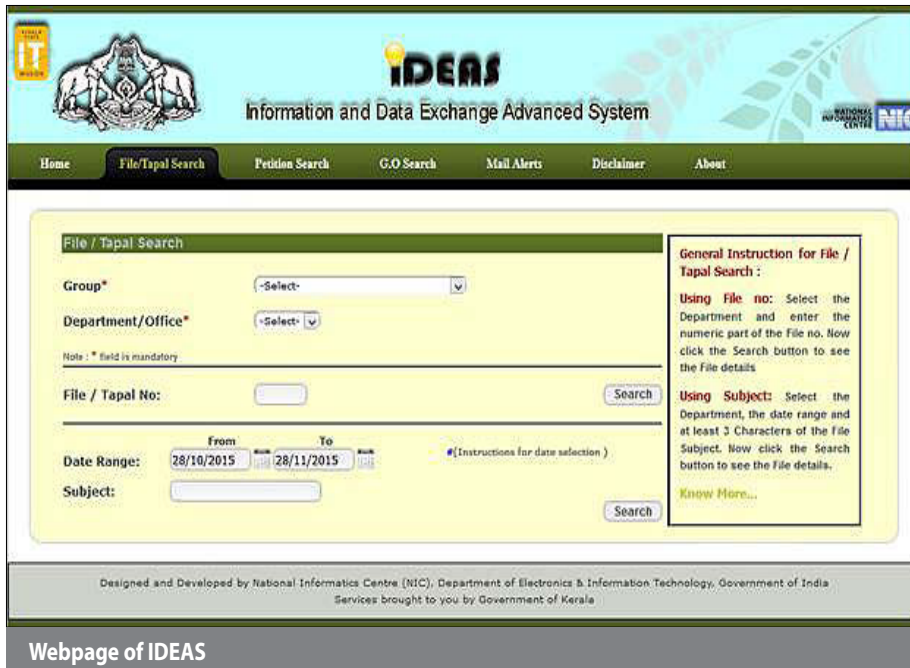
Webpage of IDEAS

Objectives
- To improve operation efficiency of the Department
- To bring all the stake holders under one hub
- To create a single database with single application
- Business intelligence with data warehousing
- Issuance of certificates electronically
- To collect and disseminate the information at right time and to the right users
- To operationalize content based, work flow based, transaction based Application Software with Grievance Redressed Management System and GIS

PROJECT COMPONENTS

Networking of Dealers
- Networking all the Depts. & Govt./ Private agencies who are selling/ purchasing fish seeds

- Streamlining the Registration & License activities
- Making effective system for distributing inputs to the beneficiaries
- Disseminating the information on market price & availability of inputs

Information on QC& A
- Networking of all Quality Testing Labs
- Issuing uniform QC & A certificate by agencies (ADAK, MPEDA etc.)
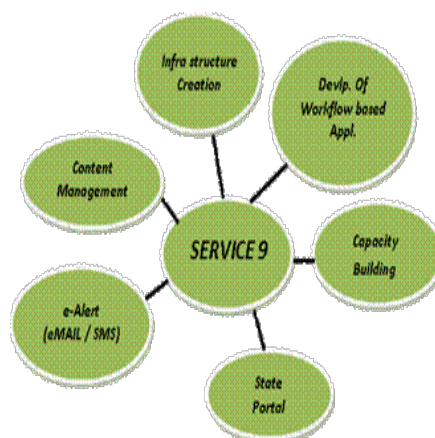
to fish seed growers based on the analytical results from the Quality Testing Labs
- Provide analytical test results and recommendation to the beneficiaries at the fingertip

Market Information system
- Networking all the registered and non registered fish landing centres
- Collection & dissemination of the catch price and arrival details
- To bring the farmers in a better bargaining position and to promote a culture of good agricultural marketing practices. http://agmarknet.nic.in
- Market intelligence system to predict the future price

Fishermen safety system
- A surveillance system for eensuring coastal security and safety to fishermen & fish farmers
- Monitoring of welfare schemes at beneficiary level
- Monitoring of vessel & crew movements
- Online insurance claims, weather forecast, e-alert, Meteorology & Tsunami warning
- Will be linked to early warning system – http://www.incois.gov.in/I, The Bay of Bengal Programme Inter-Governmental Organisation http://www.bobpigo.org/
- Fishing vessel registration and issuing license to the registered vessels for fishing operation, http ://fishcraft.nic.in
- EWS is a people-centered disaster early warning system that will provide day-to-day possible disaster information to fishermen through SMS - voice message in their language.

Fish Disease Information system

- Effective Disease reporting system to develop disease forecasting models

- Develop disease prevention strategies covering Pest infestation (pathogens, pest / parasites), treatment, reporting of disease, Aquatic Animal Disease and trans – boundary disease. This is one of the components of NADRS project

Fisheries statistics information

- About infrastructure, production of fish, fish seedlings, catch details, fishermen population, market details

Expert advisory system

- After onsite observation of the situation domain expert provide the advisory to fishermen as well as to government official on the website

- Expert advice on any specific issues related to service 9 which will be answered by appropriate domain experts , Levels for query resolution is defined. Proper escalation is automated

Grievance Management

- There is a provision for submit the login based grievance by registered fishermen to Concerned officer.

SMS pull/push

Good management practises for fish farmers

EDROP
(http://www.edrop.gov.in)

eDROP (electronically Deploying Randomly Officers for Polling) is a web based software product developed by NIC Kerala for the State Election Commission/ District Administration in order to deploy officers to polling duty. It felicitates online capturing of details of all institutions and officials in the districts direct from source. eDROP randomly mixes all data and assigns the officials for polling duty. It can handle all aspects related to posting of officials for election duty such as posting order, cancellation and regeneration of posting orders, Attendance, Acutance and effective different levels of randomization. The System provides a 3 level randomization and assigns the officials for polling duty against each polling station.

www.edrop.gov.in facilitates assigning various roles and responsibilities for users. The process of election starts with election notification by the state level user. State/District level users can create code directory such as Local body name & type, polling station details, Taluk, Village, number of officers needed in each polling station, remote, sensitive and forest polling station. The software has features for cancellation and regeneration of posting orders, blocking/unblocking employee based on SEC guidelines, entering remarks like Lactating mother, prolonged illness, Priest/NUN and differentially able employees. The system is intelligent to post male officers to sensitive, remote and forest stations.

Details of nearly 5 Lakhs employee have been collected through the website from source and posted 2 lakhs officers for election duty in the recently concluded general elections 2015 to local self-government.

eDrop is built on open source technologies and is hosted at the Kerala State Government Data Centre Application server. Data base server and replication servers are used for load balancing the Staff data directly collected from source that ensures correctness, accuracy and eliminates duplication. Posting orders after randomization are directly downloadable to local body across state and institutions. Integrated SMS gateway has been smartly integrated to provide instant mobile

Webpage of KUHS

services to posted officials/head of Institutions. State users can add/modify the randomization criteria as per SEC guidelines with ease.

UNIVERSITY*SUITE

'University*Suite' is an integrated combination of applications for automating the entire work of Kerala University of health Sciences. University*Suite follows workflow based architecture covering all the functional areas of the Kerala University of Health Sciences (KUHS). The suite is highly customizable and has features for vertical and horizontal scalability.

Students, faculty members and other stakeholders can apply for services through Internet or 250+ affiliated colleges' help desk or through nearest Community Citizen Centres "AKSHAYA". The workflow system has

been covered for all the 251+ affiliated colleges, 60000+ students, 15000+ faculties and 200+ university employees and geographically it covers the entire State of Kerala. Since being Internet based, beneficiaries can apply from any part in the world. After its success in the Kerala University of Health Sciences, University*Suite has been replicated to Kerala Agricultural University for 10+ government colleges, 9000+ students, 400 faculties and 330 employees.

University*Suite is smartly integrated with barcodes, SMS gateway and RFID cards and online point of sale devises.

The web site of University*Suite is hosted at University data centre with one application, one data base and another one replication data base and application server.

COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY - COMMON ADMISSION TEST (CAT) 2015 AND REAL-TIME COUNSELING & ADMISSIONS

Cochin University of Science & Technology (CUSAT) conducts Common Admission Test (CAT) for admissions to various Undergraduate and Postgraduate courses offered by the University every year. NIC, Software Development and Training Centre (SDTC), Kochi has developed an online portal (http://cusat.nic.in) for the University. Candidates through designated banks make the application fee payment and the payment approval is done by CUSAT online. Roll numbers & Admit cards generation and Venue allocation are made through a software.

Students at CUSAT Counseling Admissions 2015

Home page is available for each candidate with unique login ID, which provides all information pertaining to the online application, status of application, admit card, CAT result, option registration, allotment details etc.

The important features of the **Online Module are Online Application Submission, Payment Approval, Admit Card Generation** and **Result Publication**. After results publishing, candidates can choose their respective course options through the online portal. Once the option registration process is complete, Real Time Counseling to the various courses commences. This involves candidate registration, allotment from registered candidates, certificate verification, challan generation for fee payment, payment approval and admission letter generation.

There are four major software modules for the entire process:

Online Registration Module:
For candidate registration, user management, online application registration and option registration.

Online Administrative Module:
For CUSAT to verify the submitted applications, approve or reject the applications and generation of various statistical reports.

Offline Administrative Module:
Used to generate roll numbers, venue management, venue allocation for candidates, admit card generation and all reports required for conducting the CAT at various centres spread across the Country.

Counseling Module:
Counseling module is used for Real Time Counseling at CUSAT. Candidates report at the counseling venue

and register themselves through using this module. Afterwards, designated course allotment is made to the registered candidates. Once allotted, the certificate verification, challan generation of payment, payment approval, admission letter generation and all reports required are generated through this module. The module also generates waiting list for each course based on the number of candidates admitted on each date. The counseling module is designed to take care of single rank multiple courses.

HSCAP – HIGHER SECONDARY CENTRALIZED ALLOTMENT PROCESS

'hsCAP' is unique software for centralized seat allotment process of Plus One higher secondary courses. hsCAP system was introduced in Kerala for the first time in India in the year 2007 in order to simplify the admission process and to evade malpractices.

The Process:
Candidates wanting to get admission for +1 course in any of the Government or Government Aided School can apply online through this system. Applicants are required to submit only one online application for any course in any of the schools in a district choosing from the appropriate school-course combination options. As part of the allotment processing, the system will generate School wise - Course wise ranks for all the applied candidates. In other words, one candidate will have different rank in different schools and in different courses.

Each rank is generated based on the Weighted Grade Point Average (a calculation procedure giving weightage

as per the opted course), bonus points, tie breaking values, option number etc. Bonus points are for students studied in same school, same local body, same taluk etc. Allotment is an iterative process in the order of rank in each course. Once the candidate got an allotment then his lower options will be removed. The higher options will be considered in the subsequent allotments.

The system has been implemented to benefit about 4 lakhs students from the 14 districts of Kerala.

E-COIR (COIR SECTOR MSME BENEFIT MANAGEMENT SYSTEM)

The e-Coir project aims at total computerization of the Coir Board based on a total ICT solution with Internet and Intranet portals. These include dynamic web site, portals for marketing, trading and virtual showrooms with associated software components promoting coir products and services. In the Coir board portal, registered traders and manufacturers can customize their virtual showrooms. This enable customers to visit a single portal for marketing and trading. Through the system, link to portals of respective traders or manufacturers from Coir Board Portal (e-Coir) can be made. It is expected that these ICT based portals would usher in a new era of showcasing the Coir Products from India as well as bring in additional channels for marketing and trading.

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