PROFILE & ACHIEVEMENTS

NIC Punjab State Centre

Vivek Verma
Deputy Director General &
State Informatics Officer
0172-2747357
Email: sio-punjab@nic.in
Visit us: http://pbsc.nic.in

TABLE OF CONTENTS

INTRODUCTION

Established in 1988, Punjab State Centre of National Informatics Centre (NIC-Punjab) has been instrumental in bringing ICT culture in Punjab government. With a focus on building IT interfaces to facilitate citizen-friendly and transparent government, NIC has made significant contributions in improving service delivery by a number of departments including:

- Revenue
- District administration
- Rural Development
- Finance
- Agriculture
- Industry
- Labour
- Health
- Education
- Elections
- Social Welfare
- Food & Civil Supplies
- Courts

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

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

MAJOR INITIATIVES IN PUNJAB

INTEGRATED HUMAN RESOURCE MANAGEMENT SYSTEM (IHRMS)

The decision makers often face challenges in manpower planning and HR management. iHRMS Application developed is providing a generalized Human Resource management solution for Government Departments to help them in taking right decisions at right time and for proper monitoring, manpower planning, recruitments, Postings, Promotion and Transfer based on employee skill sets. iHRMS is not only the solution to manpower planning but its integration with other applications extends its ambit to various other Government services related to government employees.

Modules Developed & Implemented
- Service Book
- eSalary for Employees
- eSalary for CM, Ministers, MLAs, Governor of Punjab, Leader of Opposition.
- GPF Management- Including Online Applying, Final GPF Payments on Retirements
- GIS Management
- Increment Module
- Income Tax Module
- Leave Management including Ex-India Leave System
- Leave Travel Concession
- Annual Property Return
- User Management
- Loan and Advances
- Annual Confidential Report
- iHRMS Mobile App (Android)
- mHaazri Mob App (Android & iOS)
- External Manpower
- Covid-19 Trainings & Duty System
- Pension Management
- Pension Management for Boards/Corporations
- ePPO Management
- IAS/PCS Officer Transfer & Placement Portal
- IFMS-HRMS Integration
- Replication & Data Sharing with Applications & Department
- iHRMS-Project Management Unit
- Tejas Dashboard
- Decision Support System
- Hybrid App for iHRMS
- Vani Chat Bot
- Medical Reimbursement System

Modules to be Developed
- Appointments & Resignations
- Transfer Module
- Promotion
- Departmental Inquiry
- Show cause Notices & Charge sheet
- Tours

- Employee Grievances
- NOCs on various service aspects

iHRMS offers following features/functionalities:

- Web Enabled, Unicode compliant for local language support
- Workflow & Role Based Operation
- Customizable & Scalable
- Extensive Validations & Security Audited
- State/Department Specific Content Management
- Open API for Data Sharing
- Developed SQL Server / ASP.net / Windows & Modular Approach with MVC Framework

Implementation Coverage:	
Administrative Departments	56
Departments/Organisations	228
Offices	42,733
DDOs	7,521
AMAs	6,272
Registered Employees/ Service Book registered	5,03,667
Current Employees	3,65,764
Service Book transactions	24,45,114
Special Cadre (School Education) Employee Registration	12,316
External Manpower	47,238
ACRs generated	9,16,615
NRC Generated	86,530
Salary Bills being generated from year:	2018
Property Return filled (For group A and Group B only)	1,65,922
ePPO uploaded by AG Punjab	1,20,672
Leave Management System	76,06,009
Pension papers generated/submitted on-line to AG Punjab	15,379/14,224
Data sharing	Sixteen other applications/ Departments of Govt. of Punjab
Integration with other applications	IFMS, AG Punjab, DigiLocker, Sandes, SMS/Email gateway, VMS, Eawas-UT, Eawas Punjab, ePrisons etc.
Medical bills generated for reimbursement	133
e-Sign	91,459
LTC Bills generated	33,890
Arrear Bills generated	3,09,728
GPF Advance bills generated	91,720
GPF Final Settlement bills generated	59,852
GIS Final Payment bills generated	56,813
Online Queries received	39,708

A mobile app for daily attendance by the employees of Punjab is ready and available in Google Play Store for Android version and for iOS version working seamlessly with iHRMS modules eSalary and Leave module.

iHRMS has become a de-facto application for employees and many other software projects namely Public Grievance, IFMS, VMS, CCTNS, eAWAS etc. are using the data of employees available in the iHRMS databases. Many departments are using web-services for authenticate the employees from iHRMS database only.

URL: https://hrms.punjab.gov.in

INTEGRATED FINANCIAL MANAGEMENT SYSTEM (IFMS)

Integrated Financial Management System (IFMS) is one of the prestigious projects of the Government of Punjab, undertaken by the Finance Department and the Treasury Department. The project has been designed in line with the Modernization of Treasury Systems, one of the Mission Mode Projects (MMPs) of the Government of India. IFMS platform envisages end-to-end integration of systems and IT services among various stake holders such as Finance Department, Treasury Department, Administrative and Line Departments, Accountant General, RBI (eKuber) and Banks. It is a complete suite of applications used by Govt. of Punjab in planning, budgeting, receipt, expenditure, payment processing and MIS Reporting for all the stakeholders. It has established an efficient fund flow system and payment-cum-accounting network. It is a complete financial management and decision support system. It has been implemented throughout state from 01/04/2020. It has following three modules:

eBudget
This module facilitates allocation, monitoring and analysis of budget from Department of Finance to administrative departments and further to DDOs.

Salient features and Functionalities:

- Online Budget Proposals from HODs of various departments.
- Receipt and Expenditure A/C to Accountant General posted digitally
- Budget Preparation by Department of Finance
- Online Distribution, Allocation, Revision, Re-appropriate on SOE Basis
- Online Budget Document Generation.
- Online Issuance of Budget for Deposit Works
- Checking of Budget w.r.t to Allocation
- Generation of Final Re-Appropriation for AG
- GIA module for release of Grant to Department on Online Submission of GIA Request
- Ways& Means Control in passing of bills
- Smart dashboard with Receipt and Expenditure Monitoring
- PSF's Dash Board for Monitoring key parameters
- Debt Management System
- Integration with PFMS for sharing of expenditure for GIA schemes

eTreasury
This module facilitates DDOs for creation of bills and Treasuries for passing of bills and payments thereafter. It also facilitates management of stamps, PLA and EMD accounts at various treasuries.

Salient features and Functionalities:
- Preparation of 38 types of bills including Salary, TA, Contingency, Medical Reimbursement, DA Arrear, LTC, Leave Encashment, Salary Arrears, General refunds, Court Refunds etc.

- Creation of Unique Payee Code for each Payee Type i.e. Employee, Other and Third Parties
- Details of GPF/PRAN and DDO NPS registration are captured in Employee and DDO's profile. 10% of Basic pay is deducted while processing of pay bills.
- OTP Based Authentication System for each bill
- Bill Tracking System for each DDOs
- Online Verification of Bills
- Checks on preparation of bills as per instructions passed of FD
- Online passing of Bills at Treasuries.
- Preparation of Accounts for Receipt and Expenditure
- Integrated with Banks like SBI, PNB, ICICI and IDBI for online verification of EPS data and generation of ECS/NEFT/RTGS files
- for making payments into the account of the payees.
- e-Stock system for Strong Room Operation Management
- Maintenance of Online PD/PLA/RD/CCD accounts
- Treasury officers can close the account at the end of the financial year.
- Checks on Quarterly expenditures of the departments.
- E-Mail and SMS alerts to DDOs for Token Entry, Bill Rejection and EPS generation.

eReceipt
Salient features and Functionalities:

- Online preparation of Challan.
- The depositor can deposit Govt. receipt PAN INDIA in any branch of SBI and PNB.
- Internet banking-based payments through payment aggregator of Punjab National Bank and SBI.
- Integrated with SBI, IDBI for Payment through RTGS/NEFT, integration with RBI is in process.
- Integrated with Major receipt transacting departments such as eSEWA portal, PSDT, Legal Metrology and Punjab SEVA portal.
- Cyber Treasury for reconciliation and preparation of State receipt account with the authorized banks at a central location
- Integrated with e-Kuber of RBI and GSTN for SGST Receipts.
- Some Important MIS reports available in IFMS are:
- Budget Allocation and Disbursement
- Bill Tracking Report
- SOE Wise Pending Bills
- SOE Wise Payments Made
- UTR Report
- Failed Transaction Report
- Fund Flow Statement
- Fund Flow Variation Statement
- Fund Flow Annual Report
- Fund Flow Prediction Entry
- Key Fiscal Indicators
- Project Monitoring Report
- Centrally Sponsored Schemes
- NABARD Scheme Monitoring
- GIA Receipt Report
- Grant In Aid Receipt Report

➕ Expenditure Report
➕ State Budget Against Expenditure

VMS module facilitates a check on POL Bills of State Govt. vehicles. Every Govt. official (Earmarked) or Vehicle (Pooled) has a POL Limit (on Fuel & Maintenance) assigned by Department of Finance, Govt. of Punjab. VMS is keeping track of each limit.

AMS facilitates Internal Audit Branch and Audit General (AG) Punjab in scheduling of audits of different offices in Punjab. Using AMS, audit party can send intimation to offices for upcoming audits, once audit starts, can send memos and prepare audit reports with different types of paras (Non-production, Recoverable, Procedural). Once audit report freezed by the authorities, the office or department can settle the paragraphs through AMS only.

Works Accounting System is a specialized financial management tool designed to handle the accounting needs of construction and infrastructure projects. It ensures accurate tracking, reporting and management of financial transactions related to various work projects.

Debt Management Office (DMO) is a solution designed to help State Govt. in managing debts effectively. It encompasses tools to view and manage debts.

URL: https://ifms.punjab.gov.in

LOCAL GOVERNMENT – INTEGRATED FINANCIAL MANAGEMENT SYSTEM (LG-IFMS)

Department of Local Government needs to reform Urban Local Bodies (ULBs) Accounting System by implementing Accrual Based Double Entry System. For implementation of above, NIC Punjab has developed LG-IFMS. It is a complete suite of applications used by Department of Local Government for financial planning, budgeting, receipt, expenditure, bill and payment processing in real time. This platform has been designed in line with current modernization of Budget, Billing and Receipt Systems. In addition, this platform envisages end-to-end integration of systems and IT services among various ULBs and State HQ.

1. LG-Budget
   a. Online receipt of Budget Proposals from all the ULBs.
   b. Workflow based passing of Budget from Authorities (State HQ/ADC(D))
   c. Generation of Budget documents from the system
   d. Online re-appropriation/Additional Grant of Budget
   e. Generation of final re-appropriation.

2. LG-Billing
   a. Creation and tracking of all types of Bills
   b. Bill preparation via-a-vis Budget approved
   c. Creation of Unique Payee Code for Employees, Vendors and Others
   d. Workflow based online passing of Bills
   e. Online generation and tracking of ECS Orders
   f. Integration with Banks empanelled by Department of Finance for ePayment
   g. Accrual Based Double Accounting System
   h. Online generation of Balance Sheets as per Receipt and Expenditure

3. Integrations
   a. Integration with mSEVA for Property tax fee, Water and Sewerage Charges.
   b. Integration with ePMS for Work Bills
   c. Integration with eNaksha for Building Plan Approval fee.

4. MIS

a. Cash Book
b. Journal Book
c. Security Deposit
d. Labour Cess
e. GST
f. Income Tax (TDS)
g. Employee related Reports like NPS, GPF, LIC, IT, Loans etc.

5. Technical Features
    a. LG-IFMS were developed using principles of Micro-Service Level Architecture where one backend can be used for more than one frontend like Web App and Mobile App. The portal was developed using following technologies:
        i. Frontend: Angular 13 and above with Bootstrap and Bootswatch
        ii. Backend: .NET 6 and above
        iii. Database: SQL Server 202
    b. It is a cloud-based application which can be extended for any workload by increasing cloud resources.
    c. It has a modular core for scalability.

EOFFICE

eOffice has been designed in sync with needs of modern government. It is embedded with a Knowledge Management System which can enable employees to create their own documents online and submit the same for review and publication on the portal. With a single platform, the entire organization can collaborate, share documents in any format electronically. It includes eFile module which replaces paper files.

Punjab hon'ble Chief Minister Captain Amarinder Singh on Friday (01/11/2019) launched the eOffice facility, to facilitate seamless electronic movement of government files. Punjab is the one of the topmost states in the country to roll out such an across-the-board e-Office initiative covering more than 2 lakh employees. eOffice has been implemented across the state including Secretariats, Directorates, collectorates boards and corporations. It has been rolled out across 140 Directorates and its districts offices, 98 Boards and corporations, 22 Deputy Commissioner Offices, 120 SDM Offices, Education Institutions including 5 Universities, 12 Colleges, 27 Polytechnics, 119 ITIs comprising of around 60,000 plus users.

Government of Punjab has procured 1 lakh user licenses and adopted eOffice "As a Service". Also, eOffice has been implemented in CBIC for 5 states in State Data Centre Punjab and then replicated PAN India for 50,000 Users. Recently **eOfficeNG (New generation)** has been deployed in National Agri-Food Biotechnology Institute. All the deployed eight eOffice instances have been shifted to SSO (Parichay).

Recently Audit Module has been deployed and implemented for Audit in the Government department through eOffice. A you tube channel has been created which is running successfully with 20 thousand Watch Hours data and 1.6 lakh views with 3.2K subscribers

Applications developed in order to strengthening of eOffice

- One Stop portal at eofficeportal.punjab.gov.in
- Inventory Management System for Secretariat
- E-Visitors
- Verifying document Utility

- o eOffice dashboard
- o Inter instance movement of Files
- o Dynamic Calendar
- o Feedback form
- o EMD online system

Presently NIC Punjab is providing L2 support for eOffice since Sep 20.

It has following features/functionalities:

- Establishing a Paperless Environment: Facilitating a shift towards digital documentation, reducing reliance on physical paperwork in government offices.
- Enhanced Efficiency and Consistency: Streamlining processes to improve response times and the quality of government services.
- Transparency and Accountability: Implementing measures that promote openness in government operations, fostering trust among citizens.
- Open Architecture Framework: Offering flexibility for future scaling and integration with other systems to adapt to evolving needs.
- Single Authoritative Government Directory: Creating a central, reliable source for government contacts and information.
- Standardized Product Reuse: Promoting the use of a single, standardized platform across all government departments to enhance interoperability and reduce redundancy.
- Unified Data View: Enabling comprehensive insights through a consolidated view of information across different departments.
- Content and Document Management: Efficiently organizing, storing, and retrieving digital documents to support administrative functions.
- Workflow Automation: Automating routine processes to increase productivity and reduce manual errors.
- Collaboration and Messaging Services: Enhancing communication and collaboration among government officials and departments for improved service delivery.
- Single Standard-based Directory Service: Implementing a consistent directory service that adheres to industry standards, ensuring compatibility and ease of use.
- Security and Access Management: Enforcing robust security protocols to protect sensitive data and manage user access based on roles and responsibilities.
- Archival and eRecord Management: Establishing comprehensive strategies for the long-term storage and retrieval of electronic records to meet regulatory requirements and support historical data analysis.
- Mobile and Remote Access: Facilitating secure access to the eOffice platform from various devices, ensuring continuity of work for officials in the field.
- User Training and Support: Providing ongoing training and technical support to ensure all users are proficient in utilizing the eOffice system effectively.
- Integration with Other Government Services: Allowing seamless connectivity with other digital services and platforms for a holistic governance approach

CSI Nihlent, Digital eGov, Skotch, Digit, eLets awards has been bagged in lieu of the implementation of eOffice in Punjab.

URL: eofficeportal.punjab.gov.in

SERVICEPLUS

The eServices portal involves integrated and seamless delivery of citizen services by district administration through automation of workflow, back-end digitization, integration and process redesigning across participating sections/departments for providing services in a most efficient manner to the citizens. In an attempt to fulfill this vision, the Government of Punjab has implemented the ServicePlus platform of NIC to provide services to citizens. The details of various services developed are as follows: -

Launched
- Issuance of Dogra Certificate (Revenue Department)
- Bed and Breakfast/Homestay (Tourism Department)
- Farm Tourism Service (Tourism Department)
- Issuance of Income Certificate (Revenue Department)
- Tented Accommodation and Camping site (Tourism Department)
- Verification of Certificates (Punjab School Education Board)
- Recruitment of Dastaan-E-Shahadat
- (Punjab Heritage and Tourism Promotion Board / Department of Tourism and Cultural Affairs)
- Service for Electricity Duty Exemption for Department of Power.
- Online slot Booking for VIRASAT-E-KHALSA Museum of Sikhism, Anandpur Sahib and DASTAAN-E-SHAHADAT Theme Park, Chamkaur Sahib
- Service for e-Appointment with Honorable Chief Minister Punjab
- Four Services of Medical Education and Research
- Five Services for Defence Service Welfare
- NRI Milni 2022- of NRI Affairs Department
- Embossing of Documents
- Service for journalists obtaining their accreditation
- Service to streamline the process to enroll Khangi Taqseem (family partition).
- Receiving of Applications for recruitment against various posts (IISER) for Central government
- Receiving of Application (Extended) (IISER)
- Punjab Embossing Information System
- Verification and Correction of School Certificates
- Dogra Certificate
- Electricity Duty Exemption
- Permanent Registration of Homeopathic Doctors
- Provisional Registration of Homeopathic Doctors
- Homeopathic Council Renewal Registration
- Verification and NOC of Homeopathic Doctors
- Mutation of uncontested Private Land
- Recruitment of staff for Dastaan-E –Shahadat
- Slot Booking for Dastaan-E-Shahadat, Shri Chamkour Sahib
- Slot Booking for Virasat -E-Khalsa, Shri Anandpur Sahib
- Monthly Report under Punjab Travel Professional Regulation Act
- Gallantry Awards (In Service) (Defence)
- Gallantry Awards (Civilians) (Defence)
- Ex –Gratia (Defence)
- Lineal Descendent of Ex-Servicemen (Defence)
- Farmers training for setting up of Milk Plant
- Farm Tourism Scheme

- Tented Accommodation & Camping Site
- Punjab Development Commission Recruitment Form
- Punjab Ex-Servicemen Corporation
- 15141 users are Done
- Result declaration of NREGA for Fazilka District
- Ready to Launch
- General Caste Certificate of Department of Social Justice and Minorities (Ready to Launch)
- CM Relief Fund (Ready to Launch)
- Know Your Candidate (Ready to Launch)
- e-Sainani (Ready to Launch)
- Issuance of Secretariat ID Cards (Ready to Launch)
- Issuance of Car Pass (Ready to Launch)
- Complaint Reporting and Redressal System (Ready to Launch)
- E-appointment to visit Chief Minister of Punjab (Ready to Launch)
- Issuance of Yellow Card to Journalists (Ready to Launch)
- Issuance of Border Area Certificate (Ready to Launch)
- Issuance of Kandi Area Certificate (Ready to Launch)
- Issuance of Backward Area Certificate (Ready to Launch)

Technical tasks done for the implementation of ServicePlus in Punjab
- Payment Gateway Integration
- LGD updated with 16,500 villages mapped with tehsils and sub-tehsils
- 4,000+ Kiosk operators, work flow Players, Admins accounts created
- Training to all stake holders given two times.
- SMS Integration
- Email Integration
- External Data Integration
- Mvel coding
- JS coding
- Digital Signature Certificate Configuration
- QR Code enabled certificates
- DigiLocker integration with ServicePlus
- Auto Approval process

4000+ user accounts (Sewa Kendra operators 2800+, Work flow players 900+ and admin accounts at various level 300+) and imparted detailed trainings to all stakeholders i.e. Tehsildars/Naib Tehsildars, DeGCs, EDTCs, Sewa Kendra Operators and Work Flow Players including clerks.

16,500 villages of State of Punjab have been mapped with their corresponding 271 Tehsils and Sub-tehsils in Local Government Directory and ServicePlus. The Service is equipped with Digital Signature, SMS integration, Email integration and Payment Gateway.

URL: eservices.punjab.gov.in

DISTRICT INFORMATION SYSTEM FOR ELECTION (DISE)

DISE is randomization software for Election Department for formation of various parties / teams, EVM machines etc. as per ECI guidelines. DISE-MC and DISE-NP are randomization software

developed for State Election Commission for Municipal Corporation and Nagar Panchayat elections respectively.

It has following features/functionalities:

- Formation of polling parties, counting parties
- EVM (Electronic Voting Machine) randomization for Lok Sabha / Assembly Elections
- Election orders for individual polling parties, micro-observer parties and EVM orders
- Constituency wise distribution of employees
- Department wise, sub department wise orders, attendance sheets
- Election Duty Certificate
- issue of ID Card
- Various types of checklist reports for various constituencies and marking of absentees, cancellation and absentees, cancellation reports.
- Transparent random deployment of polling personnel, micro-observers, counting parties on election duty
- Transparent random deployment of Electronic Voting Machine (EVM) at polling stations
- Elimination of manipulation in deployment of personnel on election duty
- Improved efficiencies and saved times of district administration for the deployment of manpower and EVMs.
- DEO, political parties and employees trusting the DISE for the deployment of manpower on election duty and allotment of EMV to polling stations

NEXTGEN DISE - POLLING PERSONNEL MANAGEMENT SYSTEM

DISE (District Information System for Elections) was developed by NIC Punjab in 2007. It has been implemented in Punjab, Himachal Pradesh, Karnataka, Delhi, Chandigarh UT, Mizoram and Manipur. ECI requested CEO Punjab to demonstrate DISE with the aim of scaling up for implementation at national level. A presentation on proposed NextGen DISE was made at ECI office by CEO Punjab and SIO Punjab. ECI conveyed in principle approval and mandated pilot implementation in Eighteenth General Elections to Lok Sabha. In this backdrop Sh. Vivek Verma, DDG and SIO Punjab spearheaded the initiative to develop NextGen DISE application. It has been developed in a short duration of six months and comprises of three modules and PPMS is one of them. It is a Web-based application for data digitization, data import from iHRMS/APIs/Excel/CSV and random deployment of Polling Staff, Micro-Observers and Counting Staff with distributed architecture for replication in states. It was implemented in Punjab, Himachal Pradesh and UT Chandigarh during General Elections-2024. NextGen DISE facilitates management of all aspects of elections, from collecting data of polling staff to scheduling rehearsals, randomizing polling staff and counting staff. It makes elections more efficient, transparent and secure.

Using NextGen DISE Polling Personnel Management module for General Elections-2024, randomizations of Polling Staff, Micro-Observers and Counting Staff implemented in 13PCs covering 23 districts, 117 ACs and 24522 polling booths of Punjab. Replicated same in Himachal Pradesh having 4 PCs, 68 ACs and 7618 polling booths and in Chandigarh UT having 1 PC and 599 polling booths.

Features

- Dashboards for management, monitoring and updating of employee data.

- Generation of checklists and verification of employee data submitted by offices/ sub departments.
- Management of exemptions based on certain criteria.
- Flexibility to change the level at which an employee can be deployed as per the requirements or change in criteria for selection.
- Provision to use staff in overlapping/ non-overlapping mode for Polling Personnel, Micro Observers and Counting Parties.
- Three Stage Randomization of Polling Personnel.
- Two Stage Randomization of Micro Observers.
- Three Stage Randomization of Counting Parties.
- Management of rehearsals for all stages.
- Marking of absentees and cancellations.
- Provision to push additional staff in the event of shortfall after first stage.
- Provision for processing reserve staff.
- Export data from one district to another to meet shortfalls.
- Provision to export parties formed at Second Stage for ACs having polling stations falling in two districts.
- Generation of duty orders, attendance sheet, id cards with photo for all stages, summaries of shortlisted, left-over and exempted staff.
- Generation of Form 12, 12A, 12B (EDC) for Polling Personnel and Micro Observers

URL: https://nextgendise.punjab.gov.in

POLL ACTIVITY MONITORING SYSTEM (PAMS)

Web application and Mobile App for real time monitoring of important events of Pre-Poll, Polling Day and after poll activities with functionality to create separate containers for various states. PAMS has been developed to accommodate simultaneous elections of Lok Sabha and Vidhan Sabha in a state.

Successfully Implemented for capturing the status of pre-poll and poll day activities of Polling Parties during the General Elections 2024, ensuring seamless and comprehensive monitoring. Same system was replicated and implemented in UT Ladakh for these elections.

Voter Queue Information System: Launched by CEO Punjab for the General Elections 2024, this system has helped voters cast their votes swiftly and comfortably by minimizing wait times. The QIS module was also deployed in Ranchi District, Jharkhand.

Features of Poll Activity Monitoring System (PAMS):

- Election Activity Monitoring System (EAMS) is a Web Portal & Mobile App based monitoring of all important events during the Election process. It will enable us to capture important poll day events through Sector Officers/Supervisors and ROs and to generate the dashboard for ROs, DEOs and CEO
- To ensure secure access and verification, a 6-digit one-time password (OTP) will be sent to their mobile numbers, which they will need to enter during the login process. (Mobile App)
- Tailor the management of events based on the type of election, enabling flexibility in adapting the platform to different electoral scenarios. (Portal and Mobile APP)
- Dynamic Event Time - managing events based on their occurrence times. In the Election Monitoring System, events are scheduled to become active at specific times.
- Add or remove events: Any event can be added and removed in the application.
- Facilitates ARO to update Event on behalf of Sector Officer

- Authorized users only can access the information and services.
- To monitor and track the movement of Sector officer's vehicle using latitude and longitude coordinates.
- Both watch LIVE will display all the completed and pending booths for selected events, visually represented on a map for easy reference and tracking.
- State specific dashboard, presenting visual representations such as charts and graphs to depict event progress provides an easily understandable snapshot of the ongoing activities.
- Role Based Dash Boards have been developed for CEO, PC, AC, District etc. Based on their roles (RO, ARO, SO, admin, CEO, ECI), grant different levels of access and permissions to users within the applications to monitor activities on dashboard.
- Access a range of features and options through our intuitive sidebar menu.
- Interruptions deals with law-and-Order Situation and EVM Faulty cases dynamically.
- SMS Alerts/Dashboard for OTPs and other scenarios like to update events etc.
- Security Based Registration and Access of Mobile App using Pass-code and OTP.
- Equip users with robust reporting tools to track and analyse data, facilitating informed decision-making and strategic planning.
- Real time-based voter turnout feature with dynamic colour coding
- Flexibility/Generic as per the States and Type of Election Requirements Like Lok Sabha and Vidhan Sabha

URL: https://pams.punjab.gov.in

LOCAL BODIES POLL ACTIVITY MONITORING SYSTEM (LBPAMS)

Local Bodies Poll Activity Monitoring System (LBPAMS) for Panchayat Elections in Punjab
The LBPAMS is a comprehensive and user-friendly platform designed to streamline various election processes.

It consists of the following key modules:

- Voter List Module: This module allows voters to verify their details on the electoral roll. Panchayat-wise voter lists have been uploaded on LBPAMS and can be easily accessed through the State Election Commission and District websites. This will help voters check their eligibility and ensure they are listed in the correct panchayat.
- Know Your Candidate/Unopposed Module: This module enables voters to view the list of contesting candidates for Sarpanch and Panch positions in their respective panchayats and wards. It ensures that voters are informed about the candidates vying for election, including any unopposed candidates, thereby promoting informed decision-making in the voting process.
- Pre-Poll and Poll Day Activity Module: Through this module, the system captures key activities carried out by polling parties before and on election day via a dedicated mobile app. The information is displayed in real-time on dynamic dashboards accessible at various administrative levels, including State, District, Block, and Returning Officer users. The dashboard provides a detailed analysis of poll-day activities, including time slot-wise voter turnout, helping officials monitor the progress of the election across the state.

The LBPAMS will be a vital tool in ensuring the smooth conduct of the elections, providing timely updates and enhancing transparency in the election process. Voters, candidates, and officials are encouraged to make full use of the system to stay informed and actively participate in the democratic process.

Local Bodies Poll Activity Monitoring System (LBPAMS) has been successfully used in Gram Panchayat Elections conducted on 15th August 2024. This system aims to provide greater

transparency, efficiency, and ease of access to election-related information for voters, candidates, and officials.

URL: lbpams.punjab.gov.in

INVESTOR PORTAL

Investor Portal or One Stop Clearance System (i.e. OSCS) is a common platform developed for the investor to obtain regulatory clearances as well as fiscal Incentives from various departments through Punjab Bureau of Investment Promotion. The web portal is based on responsive design i.e. it provides an optimal viewing experience – easy reading and navigation with a minimum resizing, panning and scrolling – across a wide range of devices (from computer monitor to mobile phones).

It has following features/functionalities:

- Single interface for Investor
- One-time registration
- Common Application Form
- One-time document submission
- On-line backend processing
- Role-based access
- E-payment facility
- Digital Signature for authentication
- Real time Project Tracking system
- Graphic dashboard for MIS reports
- SMS & Email integration for notification

URL: https://pbindustries.gov.in

LABOUR PORTAL

Department of Labour, GoP has been delegated the power to maintain the industrial peace and harmony, safeguarding and improving the working conditions of the workers in the industries running in the state by enforcing various laws in the State. For better compliance of these acts and rules, Department of Labour is having vigilant eye over the industry. To have better co-ordination between the department and industry, department has come out with web-based solution for ease of administration. Following services have been provisioned through online system:

- Factory Registration/Licensing/Renewal under the Factories Act 1948
- Building Plan Approval under Factory act 1948
- Registration/Renewal under the Shops & Commercial Establishments Act 1958
- Registration/Licensing under the Contract Labour Act 1970
- Randomized allocation of inspections to the inspectors
- Provision of uploading of Inspection Reports by Inspectors
- Downloading of Inspection Reports by Industry

It has following features/functionalities:

- Work anywhere anytime
- Role based

- Paperless filling
- Statutory fee payment through Online Payment Gateway
- Paperless Online Processing
- Time bound digital approvals
- Real time status
- SMS & Email alerts
- Pendency intimation to officers till case processed

URL: http://pblabour.gov.in

ELECTRONIC DEPOSIT MANAGEMENT SYSTEM(EDMS)

Facilitates Placement of funds by Government Departments and Government Entities like Board, Corporation, Autonomous Bodies, Societies, Local Bodies, other State Agencies in the empaneled banks through online bidding process

Objectives:

- To know about the availability of funds parked by the Government entity with banks
- To brings in transparency & uniformity in dealing with financial institutions by the departments
- To ensure security of Government Deposits in addition to maximizing returns
- To bring transparency in the process of funds placement with banks by introducing online system

Features and Functionalities

- eDMS is a Web based portal for the efficient management and monitoring of funds available with Government Departments and Government Entities
- Facilitates departments nodal officer to create bids, force the user to update the balance first if Bid amount is more than available balance and invite quotes to deposit their funds in Fixed/Flexi deposit
- Provision for Bank Nodal Officer to submit the online quote against the invited bid at the eDMS portal,
- Provision to compile the bid by the concerned Nodal Officer of the Department after bid closing deadline is over
- Provision for withdrawal of bid by the departmental nodal officer with the approval of Competent Authority
- Two factors authentication (Password & TOTP)
- SMS and eMail Integration
- Provision for Finance Department (Budget Branch) user to accord approval to the request submitted by Department Nodal Officer regarding opening of Savings/Current account, can ask for clarification and reject the request.
- Dashboard and Various kinds of MIS reports available for Senior Management like Administrative Department wise Deposit Status, BID status, Finance Department (Budget Branch) request approval status

INTEGRATED SOLUTION FOR RECRUITMENTS FOR PUNJAB PUBLIC SERVICE COMMISSION (PPSC-ISR)

PPSCISR is a configurable application that allows Creation of various types of Advertisements, Publishing /Closing of Advertisements as per defined schedule, on-line registration by the candidates, offline registration facility under admin panel, online generation of admit cards & roll numbers Centre Wise, Centre Wise availability of list of eligible candidates, allotment of test venue. It also allows PPSC to monitor, manage, modify, approve and reject the data as per requirement, through admin control panel at any stage. The PPSCISR portal is based on specifically designed/developed CMS (Content Management System), which enables the

commission to perform various activities based on the roles. The role-based CMS requires no dependence of the user department for website administration or for updating details anytime. All the activities have provisions for Approval/Rejection at every stage. It also allows generation of various types of MIS reports and dashboard for senior management. Integration of email as well as SMS has been incorporated in PPSCISR for information dissemination such as Intimation on successful registration, receipt of payment and generation of admit card/exam centre/venue to candidates.

It has following features/functionalities:

- Parameterized and configurable application
- Advertisement Management (Creation / Publish / Schedule/ Approval / Rejection)
- Provision of creation of Multiple Posts under one advertisement
- Post-wise configuration of creation of Qualifications, Category, Fee, Age Relaxation
- Generic Online registration process for all types of Advertisement
- Configurable templates for all advertisement
- Facility to upload linked PDF document, Content, links for each advertisement
- Offline/ online/ Fee payment Exemption option
- Export/ import of payment details with bank
- Approval of payments, Creation and Approval of examination papers details
- Venue Management (Creation /allocation of exam Centre, Block / Room)
- Assignment, Approval and Generation of Admit card
- Provision to configure instructions for candidates on Admit Card based on post/ advertisement type, Downloading of Admit card for candidates
- Answer Key Objection Module (Objections from Candidates)
- Assigning and approval of Result
- Approve / Reject facility for created content, Role-based access, OTP for password reset
- Scheduling of Content and Links, Audit trail of all activities
- SMS / E-mail alerts for registration/approval of payments/Admit card
- Provision for Group SMS and Email, MIS Reports and Graphical   Dashboard

Achievements

- Awarded CSI Nihilent e-Governance Awards 2017 "Award of Recognition under Best eGovernance Project" by CSI
- Approved for IPR registration by the committee

URL: http://ppsc.gov.in

PWRDA WEB PORTAL

The Punjab Water Regulation and Development Authority (PWRDA) established in the year of 2020 with an aim to manage and regulate ground water usage in the state of Punjab to achieve sustainable management of groundwater balanced with the requirements of the livelihoods of people in the State.

As per the requirement received from PWRDA, NIC Punjab has designed, developed and deployed the Web Portal, Web Application and Mobile Apps for the department for obtaining permissions for groundwater extraction, operating Drilling Rigs and Water Tanker in the state of Punjab under the Punjab Ground Water Extraction and Conservation Directions 2023. No user shall extract groundwater or conduct any activity connected therewith without obtaining permission of the authority except for drinking and domestic usage, exclusive usage in

agriculture, use in a place of worship, drinking and domestic water supply scheme of Government, use by an establishment of the Military or of the Central Paramilitary Forces, an Urban Local Body, Panchayati Raj Institution, Cantonment Board, Improvement Trust or Area Development Authority and a unit extracting not more than 300 cubic meters of groundwater per month.

The portal has automated the process to provide NOC to the applicants of commercial units for extraction of ground water and its related permissions. Also, the department will then process the application as per their business rules and grant NOC to all the commercial units. With this system the application processing time has significantly been reduced and it has added more transparency in the department. The Web Portal provides organization information and its applications/services. This is complete work flow-based application which under goes scrutiny at three level before granting permission to the applicant. The workflow is fully customizable through Admin User. The application has been integrated with various APIs like PSPCL (Punjab State Power Corporation Ltd.), PPCB (Punjab Pollution Control Board) and Business First for the ease of applicants and as per the requirement of the application. Bharat Maps has been used for pictorial representation of units on the map.

The PWRDA Web Portal was launched on September 6, 2023 by Chairperson, PWRDA in the presence of NIC team. The Web Portal and Web Application have been designed and developed using Open-Source technologies and have been deployed in State Data Centre and is accessible at https://pwrda.punjab.gov.in. The major main module "Payment Module" was designed and developed for managing the unit wise monthly water meter reading, collecting ground water charges and levying late fee etc. on non-compliance of the PWRDA directions.

The Payment Module has been made LIVE in July 2024 and system has provision to settle all the offline records and then start monthly billing on the Portal. The Web Portal is complete Content Management System (CMS) and has been developed to provide the utility of dynamically managing the contents of portal.

Features & Functionalities:

- Online Fresh/Miscellaneous Permissions for Ground Water, Water Tanker, Drilling Rig
- Payment Module
- Complete customization of Work Flow
- Admin Module with various functionalities
- Integration of APIs (Business First Portal, PSPCL and PPCB)
- Application Fee Calculators for Ground Water, Water Tanker and Drilling Rig
- SMS/Sandes/Email/NICDSign/BharatMaps/Payment Gateway (IFMS & CCAvenue) Integration
- Dashboard for all Work Flow Players (RO/SO/AO/Accountant)
- MIS Reports
- Android and iOS Mobile APP
- PWRDA, the first Authority to adopt such solution to manage and regulate ground water usage in the state across India
- All the legacy data has been entered into Web Application

URL: http://pwrda.punjab.gov.in

PHULKARI WEB PORTAL AND EMARKETPLACE

The aim of the project is to develop a solution for marketing of Phulkari and other products crafted by women artisans registered under Self Help Groups (SHGs) supported by Department of Cooperation Punjab. It has been developed as a Progressive Web Application compliant with GIGW 3.0 guidelines. It has been made LIVE and officially launched on 20th Nov 2024.

The web-based solution has following features:

- System will facilitate Department of Cooperation/Markfed of Punjab state to display the Phulkari and its related artisan products on the portal along with its characteristics and price.
- Based on the requirement anyone can place the order online by selecting the products and paying the required price online through some payment gateway.
- The seller/buyer can track the order online.
- SMS/Email/Sandes gateways will be integrated to keep the stakeholders informed about the developments in product order/payment/delivery.
- This solution will bring transparency, accuracy and efficiency to the system and it can be used on anytime anywhere basis.
- The web portal will have admin panel for creation and management of users and roles
- The facility to upload videos, images and documents will also be incorporated in the portal
- Product categories and catalogues will be created and customized using Content Management System (CMS)

URL:https://phulkari.punjab.gov.in

AADHAR ENABLED BIOMETRIC ATTENDANCE SYSTEM

As part of the "Digital India" Programme of Government of India, implementation of Aadhar Enabled Biometric Attendance System (AEBAS) in the Central Government and State Government Offices (Agencies) located in Punjab State has been initiated. The system would enable an employee to register attendance by presenting his/her biometric (finger print/Iris) which will be authenticated online by doing one to one match with the bio-metric stored in the UIDAI data base against the employee's Aadhaar number. Biometric attendance system has been implemented in the offices of NIC Punjab, central government departments in Punjab and several Punjab Government departments.

In addition to this, Skill Development Institutes are being registered under a separate domain namely skill.attendance.gov.in.

It has following features/functionalities:

- Real time Finger Print /Iris Bio metric authentication with Aadhaar biometrics stored in UIDAI CIDR.
- Separate URL for each on boarded organization.
- Facility to update divisions, device locations and office time, holidays.
- Provision to opt for 5/6 day week, shift timing.
- Facility to update reporting officer of every registered employee.
- Facility to update leaves, tours which can be approved or rejected by reporting officer.
- Biometric device management by assigning device admin, generation of activation code for device activation.
- Attendance registers along with other reports at individual, reporting and Nodal officer level.
- Integration with SMS for sending OTP and other messages.

URL: http://nicpb.attendance.gov.in

VEHICLE REGISTRATION SYSTEM (VAHAN)

VAHAN Software is aimed at Computerization of Registration of Commercial and Private Vehicles, Fee & Fine Collection and Fitness Validity. VAHAN has also got provision for other transactions related to Registration Certificate like Renewal, Addition and Removal of Hypothecation, Transfer of Ownership, NOC, Alteration of Vehicle and Registration of other state vehicles. Smart Card based registration certificate has been launched successfully in all DTO offices. High Security Number plates have also been introduced.

It has following features/functionalities:

- Registration of both Non Transport and Transport Vehicles
- Smart Card based RC
- Registration Certificate through Dealers
- Assignment of Choice Numbers
- Addition and Removal of Hypothecation
- Issuance Duplicate Registration Certificate
- Payment of Taxes
- Issuance of No Objection Certificate (NOC) for vehicles being transferred out of state
- Preparation of vehicle Register
- Generation of Tax Reports, Account Statement

URL: https://parivahan.gov.in/parivahan/

DRIVING LICENSE ISSUANCE SYSTEM (SARATHI)

SARATHI software computerizes transactions related to Learner's License, Permanent License, Conductor's License and Driving School License. It allows all other transactions like Renewal, Issuance of Duplicate Licenses, Addition of New Vehicle Class, and Endorsement to Drive in Hills. The software is compliant with SCOSTA (Smart Card Operating System for Transport Applications) specification. Smart Card based Driving License is being issued in all DTO offices. Learners' License is being issued through Schools and Colleges also.

It has following features/functionalities:

- Issuance of Learner's License
- Smart Card based Driving License
- Issuance and Renewal of Permanent Driving License
- Addition of new classes to Permanent Driving License
- Issuance of Duplicate License
- Driving School license
- Conductor's License
- Endorsement for Driving in Hills
- Endorsement for carrying Hazardous Goods
- International Driving License
- Generation of LL Register and DL Register
- Generation of Account Statement

URL: https://parivahan.gov.in/parivahan/

ECHALLAN

e-Challan is a sophisticated software application comprising Android based mobile app and web interface, developed for the purpose of providing comprehensive solution for Transport Enforcement Officers and Traffic Policemen. This app-cum-application is integrated with Vahan and Sarathi applications and provides a number of user-friendly features while covering all major functionalities of Traffic Enforcement System.

The application offers customized interfaces for the following stakeholders:

- Enforcement officers
- Citizens (private or commercial car owners/drivers)
- State transport office
- Regional transport office
- NIC admin
- Ministry of Road and Transport

The application introduces a novel concept of using mobile based app for issuing e-Challan. The mobile based access to the system is available only to enforcement officers through android smart phones. While the web-based access is available to all the rest of the stakeholders, mobile based access ensures the services are available anytime anywhere. This application is built in line with the requirements of Vahan 4 and Sarathi 4 and shall be accessing and updating data from/to national databases.

Connecting all the stakeholders through a common system will ensure data integrity, reliability and transparency. End to end automation of the process will minimize the corruption and bad practices to minimal while enabling efficiency at each level of users. 100% digitization and documentation of records will help in improving the visibility on offenders, types of offences frequently committed, payments received on time etc.

Android based smart phone / tablet

- The system provides for automatic location logging (place name, Lat-Long) through GPS.
- There is an in-built function to click and store photos of vehicle, documents, and number-plate.
- The app will fetch vehicle/driver details from Vahan - Sarathi database by entering DL and/RC
- System will automatically calculate the challan amount based on the type of offence selected by the enforcement officer against the defaulter and the challan history of the defaulter
- The system will offer synchronization of offline mode of challan issuance with online system
- The system enables onsite payment of challan through credit cards or cash
- Automatic alerts and notifications
- Challan receipt will be printed through a handy and portable thermal printer
- The receipt will have the QR code which the defaulter can scan through his/her mobile to navigate to challan website for online payment of challan amount later
- The Enforcement Officer will be able to search for any challan anytime anywhere
- The system allows for evidence to be collected through uploading the photo/video of the receipt and situation

- The system provides the work scheduling tool for Enforcement Officers which allows the admin to allocate work schedules through web while EOs can check theirs online on app
- Enforcement Officers can get details of sections under ACT through mobile app
- Enforcement Officer can give feedback to the NIC staff on the performance of the application through mobile app
- Currently the system is bilingual i.e. it supports English and Hindi

Web based
- The application will help in planning, based on the distribution pattern of challans across the city. It would provide the user with a heat map showing areas with higher challan numbers in red. Moreover, the availability of numerous graphs would depict the revenue earned based on state, zone, district etc.
- Various privileges of the application such as Analytics, Job allotment, My Assignment, Vehicle / document Disposal etc. would be managed by the role management feature of the application
- User management feature of the application will help in creating and managing users in department and with this module admin shall assign specific roles to other users.
- The application will let the department head allot job assignments for on road challan collection and the officer on the other side would receive the allotted duty sheet with address overlaid on actual location map.
- This application will allow user to pay pending challan amounts online
- The notification mail box feature in the application will allow the departments to manage and track various notifications and issues raised by users or citizens
- Search facility is there to help the department search through challan/offence history
- Robust MIS dashboard for management to monitor and track progresses on cases
- Management tool for fleet owners to add their multiple vehicles and track their offence history.

URL: https://echallan.parivahan.gov.in/

PRISONER MANAGEMENT SYSTEM (EPRISON)

NICHQ developed has been implemented in the state of Punjab. Mainly two modules of the ePrison software namely Prison management System (PMS) and Visitor Management System (VMS) has been implemented.

Initially it was implemented in one Central Jail Ludhiana in 2011 in C/S environment. Upon successful implementation in Ludhiana, the state government implemented web based solution in all 27 Central, District & Sub-Jails since last 3 years successfully with Total Prisoners (22692) as on today.

Online Registration of Visitors beside VC based meetings of prisoners and family is being undertaken on regular basis. Approximately 1500-2000 visitors are being managed using VMS application.

The eCustody module is also rolled out in all the Jails of Punjab for the generation of eCustody certificate.

Module for release of Prisoners on Ajadi Ka Mahotsav is rolled out and being implemented after demo and trainings.

URL: https://eprisons.nic.in

NATIONAL GENERIC DOCUMENT REGISTRATION SYSTEMS(NGDRS)

NGDRS is a common generic & configurable document registration web application for all states across the country. NGDRS is specifically designed to use for sub registrars, citizens & Apex users from registration department. The product works as complete user interface for Document Registration process. NGDRS has been developed using open-source technologies.

It has following features/functionalities:

- Citizen registration to request the access permission of the system.
- Facility for taking appointment and online document entry by citizen.
- Online valuation module with stamp duty calculation.
- SMS facility to send alerts to citizens & departmental users.
- Email enabled alerts to citizens & users.
- Integration with Payment gateway for online payment facility.
- Linkage with stamp inventory software to avoid duplicate usage of used stamp paper.
- Centralized Storage of scanned registered documents.
- View, download scanned documents to generate certified copy for authorized user.
- Unicode based Local Language support.
- Single sign-in credentials for all modules
- Daily, Monthly & yearly MIS reports with cash book & other account related reports
- Provision for Tatkal appointment

Highlights:

- Inaugurated by Hon'ble Chief Minister of Punjab on 17.11.2017 in presence of all cabinet, DG NIC & DDG through VC.
- Implemented at all 172 SRO offices in Punjab

URL: https://igrpunjab.gov.in

REVENUE COURT CASES MANAGEMENT SYSTEM - PUNJAB (RCMSPB)

Revenue Court Management System-Punjab (RCMSPb) facilitates management and monitoring of Court Cases pertaining to Revenue Courts.

RCMSPb is being implemented in all Revenue Courts in the state, which include courts of Financial Commissioner, Divisional Commissioner, Director Land Records, Deputy Commissioner, SDM, Tehsildar and Naib Tehsildar.

RCMSPb captures all the property related data under litigation along with locational details retrieved online from Land Records database.

RCMSPb is integrated with Land Records system of Punjab by which it enables the updation of Land records with information of institution of case as well as on any change of status like Case Institution, Stay, Vacate and Final Order through web-services.

It has following features/functionalities:

- Role-based and is extendable horizontally as well as vertically.
- Facilitates case Institution, capturing the Petitioner/Respondent details, Property details under dispute and previous case detail(if any)

- Allocation of hearing date(s) and provision to update the hearing details
- Facility to record of case proceeding(s)
- Generation of various kinds of Summons
- Uploading of various kinds of documents like Interim order, Final Orders, Summons, General Documents
- State-level parameterized dashboard for FCR and for senior officers at different levels
- Availability of Daily cause list and court orders on web site, for the benefit of public, department and advocates.
- Provision to capture legacy data for various case types like claim commissioner, lambardari cases.
- Provision to generate officer wise Goshwara Reports on monthly and yearly basis.
- MIS reports based on multiple parameters. Reports for each user, which show complete details of cases pertaining to that court.
- SMS integration; Communication sent to respondent(s), petitioner(s), and advocate(s) on events as Case Institution, Case Stage Change, Next Hearing date, Postponement of Hearing date.
- Provision for bulk SMS service; Intimation can be sent to multiple stakeholders in case of urgent issues such as postponement of case hearing etc.
- Integration with Land Record database for all locational and property related data.
- Provides online information to the public in their revenue related cases and facilitates downloading of court judgements.

Highlight

Successful implementation in 444 revenue courts in the state till date. Launched by Revenue Minister Punjab, Mr. Sukhbinder Singh Sarkaria on July 11, 2018

LAND DEMARCATION APPLICATION SYSTEM (LDAS)

Land Demarcation Application System provides services to the citizen to apply and obtain land demarcation certificate. Citizens can submit apply and pay the requisite fee online through bank integration. LDAS also has tight integration with Land Record application for fetching all property-related details and updation of property status as disputed. 8343 number of application request has been captured from citizen for Land Demarcation.

NON-ENCUMBRANCE CERTIFICATE ISSUANCE SYSTEM (NECIS)

Non-Encumbrance Certificate Issuance System (NECIS) has been developed and implemented to automate the process of obtaining NE certificate by citizens online. It is integrated with IFMS for online payments. NECIS is integrated with Land Record application for all the masters and property related details and for work-flow processing of the application.

URL: http://rcms.punjab.gov.in

COURT CASES MONITORING SYSTEM - PUNJAB (CCMSPB)

Court Cases Monitoring System (CCMSPb) facilitates departments / officers to manage and monitor court cases of any type pending in different courts. It can provide latest information about any pending case of any point of time. CCMS-Pb helps the departments/officers to track the cases, prepare cause-list well in advance, and maintain complete history of the case including follow-up action taken part from other activities. CCMS-Pb can generate a number of

MIS reports including query based reports based on given parametric values. CCMS-Pb is integrated with High Court eDiary system that enables automatic updation of status of cases pending in High Court.

CCMS-Pb is integrated with High Court using RESTful API which directly fetch the case information from High court system and Advocate General officials allocates the cases to the concerned departments of Punjab Government.

A Web service which automatically updates the status of the cases in CCMS-Pb from the High Court system.

It has following features/functionalities:

- Capturing of detailed data for entire Lifecycle of a Case
- Integration with High Court portal for automatic updation of court cases   data.
- Interface for Advocate General office for directly allocation of cases to the concerned department.
- Centralized database for all the departments
- Multi-level data entry for particular department
- Audit log of Changes in Case Information
- Dynamic dashboard for different levels
- Common Master(s) pool for all the departments
- Department specific user management and permissions
- Provision for zone-wise management
- Transferring of cases to down level users
- Tracking of legal notices and its replies for Compliance of Court orders/Interim orders/Stay order
- Complete view of Case history
- Facility to monitor the pending updation required for Pending cases
- Cause-list
- SMS and Email integration
- Multi-level Document Uploading facility
- MIS Reports

URL: http://ccmspb.punjab.gov.in

MERA GHAR MERE NAAM (MGMN)

MGMN is an ambitious scheme of Government of Punjab to accord property rights to lawful owners/occupants with in Lal dora. NIC Punjab has been entrusted as Technology Partner to develop a workflow based software application/portal as per Punjab Abadi deh (Record of Rights) Rules, 2021, to facilitate management and monitoring property ownership to the dwellers living in the houses within Lal Lakir in villages. It will enable them to use their property as a financial asset for taking loans and other financial benefits and will provide the right to make properties marketable and sellable. Using the Web Portal, the owner may search the property and download the property card as well. The software will be developed in phases, initially for creating record of rights, integrating with survey unit maps. Later a provision will be made for property mortgage, sale deeds and updating mutations. Integration with GIS Portal and DigiLocker has been envisaged in later stages. Survey of India (SoI) shall provide the final data of Village Maps, Unit Maps and Unit details after drone survey of notified villages to the Revenue Department for uploading in the Cloud Space and integrating with MGMN application.

The detail of the survey units shall be updated by the respective Kanungos. After verification of the records by the respective Tehsildars, RoR of the units will be created. Concerned SDMs may generate the property cards. Each credential shall also have OTP authentication as additional check.

It has following features/functionalities:

- Centralized MGMN portal
- Role Based User Management
- Uploading Village and Unit Maps
- Updating attribute data of survey units by concerned Kanungos
- Verifying attribute data of survey units and unit maps by concerned Tehsildars
- Creation of Record of Rights
- Generating Property Cards by SDMs
- Citizen Interface for downloading Property Cards using OTP
- OTP-bases Authentication for updating, verifying and generating records

URL: https://abadirecords.punjab.gov.in

DIGITAL MC HOUSE (E-NIGAM)

The project aims at automating the process involved in working of House of the Municipal Corporations (13) and Municipal Councils (101) of Punjab including House Committee (F&CC) and managing Ward Areas by the Councillors.

MC House application is a single multi-tenancy cloud-based Generic Application for delivering public websites and authorised web portals using single sign-in for all Municipal Corporations and Municipal Councils of Punjab.

It is a role-enabled work-flow based web application for automation, standardization and uniformity of the working methodology of MC House. It will remove redundant processes which otherwise delay flow of information among various stakeholders. This will induce the transparency and accountability in operations. It will significantly minimise paper usage with online communication and consequently save huge money of the government and reduce the need to cut down trees.

The Project is first of its kind in India which aims to assist the Members of the Municipal Corporation and Municipal Councils for taking benefit of Digital - MC House application by using the latest ICT tools such as Mobile Smart Phone, Tablet/iPad and Laptop/Desktop, for preparing themselves for participation in the legislative debates more effectively. This also aims at providing tools in the hands of Members for management of various activities in their respective ward Areas.

MC House application will automate the following major processes: -

House & F&CC:

- Submission of Proposals by Departments for Agenda Items
- Forwarding of Proposals by Commissioner to Mayor
- Accepting, Rejecting or Holding Proposals by Mayor
- Fixing Meeting by Mayor
- Issuance of Meeting Notification by the House Secretary
- Preparing meeting date-wise Agenda Items by the House Secretary

- Circulating meeting date-wise Agenda Items by the House Secretary (Web Dashboard, Mobile App, email and SMS) to all concerned
- Using an auto-generated e-Book inside the House for displaying Agenda Items of the meeting along with documents, which may open on smart mobile phones, tablets, iPads, computers, laptops or TVs
- e-Voting/e-Acceptance by the Members
- Submitting Resolutions passed by the House to the Director, Local Government after Commissioner's comments
- Circulating meeting date-wise proceedings by the House Secretary (Web Dashboard, Mobile App, email and SMS) to all concerned
- Approval of Resolutions by the Director, Local Government or higher authorities as per the competency
- Raising observations on Resolutions by the Director, Local Government
- Clearing observations by the MC Departments/Branches or any other
- Updating Action Taken (Implementation Status) on approved resolutions by the MC Departments/Branches

e-Ward Area Management:
- Sending genuine complaints/information/Demands of wards by the respective Councillors to the MC Departments/Branches and knowing action taken on their requests.
- Ward-wise Monitoring of Development projects/works

URL: https://e-nigam.punjab.gov.in

COMPREHENSIVE WEB CONTENT MANAGEMENT AND WORKFLOW SYSTEM

This platform offers an intuitive, feature-rich, and secure environment for managing websites and workflows. It includes tools for content editing, form management, and role-based publishing. The solution's innovative architecture supports dynamic form creation with validation and workflow-based form movements, while its built-in analytics dashboard offers insights from available datasets. Ideal for enterprises looking to streamline content and process management while enhancing their digital presence.

The need for an all-encompassing platform that addresses both web content management and workflow processes is growing rapidly. Organizations require a solution that not only simplifies content publishing but also facilitates process automation with workflows and dynamic forms. The CMS described here caters to these needs by offering a robust solution that includes content management, workflow automation, dynamic forms, and data analytics, all while maintaining a user-friendly interface and strong security.

Features

- Intuitive Dashboard: Users can easily navigate the interface, managing content and workflows without technical expertise.
- Responsive Themes: Ensures that websites and forms display beautifully across devices, providing a seamless user experience.
- Content Editing and Publishing Tools: Rich text editor supports multimedia content, scheduling, and publishing workflows.

- Dynamic Form Creation with Validation: Users can create customized forms with built-in validation rules. These forms can be adapted dynamically to meet various data collection needs, ensuring accuracy and compliance.
- Workflow-Based Form Movement: The system supports form workflows, enabling multi-step approval processes, notifications, and task assignments. Forms can move between users based on their roles in the process, ensuring smooth and structured form processing.
- Multi-language Support: Enables content creation and workflows in multiple languages, helping businesses reach a global audience.
- Role-Based Publishing Controls: Administrators can set roles and permissions to ensure secure and structured content and process management.
- Analytics Dashboard from Dataset: Provides a customizable analytics dashboard that processes data from forms or website interactions. This allows users to gain insights, monitor performance, and visualize data using various graphs and charts.
- Built-in SEO Tools: SEO features are integrated for easy optimization of content, including meta-tagging, SEO-friendly URLs, and keyword analysis.
- Social Media Integration: Simplifies sharing content across multiple social media platforms to enhance reach and engagement.
- Pre-designed Templates: Ready-to-use templates facilitate fast website and form creation without coding expertise.
- Security Audits: Regular audits ensure the platform is secure against vulnerabilities like cross-site scripting (XSS) and SQL injection.

BENEFITS/IMPACT

- Faster Development and Deployment: Pre-built templates, dynamic form creation, and workflow automation reduce the time needed for both development and deployment.
- Ease of Use: Even non-technical users can manage web content, create dynamic forms, and run workflows, minimizing reliance on IT teams.
- Streamlined Workflows: Automated form workflows reduce manual task management, improving efficiency and ensuring that forms are routed correctly for approvals.
- Customization: With the ability to create custom forms and workflows, businesses can tailor the platform to fit their exact requirements.
- Enhanced Analytics: The built-in analytics dashboard allows for real-time tracking of form submissions, web traffic, and other data points, providing actionable insights to decision-makers.
- Improved SEO and Social Reach: Built-in SEO and social media tools boost the visibility of content across search engines and social platforms.
- Security and Stability: Security features, including regular audits, keep the system secure from vulnerabilities, while role-based access ensures content and workflows remain properly controlled.

PUNJAB CANAL REGULATION INFORMATION SYSTEM

The Department of Water Resources required a system of regulation for the canals of Punjab state. Punjab Canal Regulation Information System (PCRIS) has been designed and developed by NIC Punjab. It manages Canal System of Punjab state, which include the mapping of the Distributaries, Minors/Sub-minors and Circles for the entire state.

It has following features:

- It will provide a real-time monitoring of water flow, canal levels, and usage patterns.
- It enables authorities to monitor the performance of canal networks, detect leaks and take corrective actions promptly.
- It covers approximately 1200 water entities like: Dams/Headworks/Distributaries/Minors etc.
- Integration of Bharat Maps to display water entities with search filter.
- A complete CMS developed to manage portal and Admin Module provided to manage water entities and dashboards for work flow players.
- Provision given for daily submission of reading for water entities.

URL: https://pcris.punjab.gov.in

S3WAAS

S3WaaS: **Secure, Scalable and Sugamya Website as a Service** is a website generating and deployment product hosted on the National Cloud of NIC. It leverages technology to generate secure websites using GIGW compliant templates which are highly customizable and can seamlessly be deployed on a scalable software defined infrastructure.

All the 23 district websites of Punjab have been migrated to S3waaS and common point to access all the district websites is https://punjab.s3waas.gov.in. Website of NIC Punjab State Center (https://pbsc.nic.in) is also on boarded to S3WaaS.

GOVERNMENT EPROCUREMENT SYSTEM (GEPNIC)

GePNIC caters to the Process of Online Tender publishing, bid submission, bid Opening and Award of Contract to help bring in transparency in the Tendering process. The services offered by GePNIC are primarily for the benefit of bidder community enabling them to appear at par with all other bidders of not only of the State but the entire country as per the eligibility of bidders for bidding for a particular tender. The system is being implemented by Punjab Government Organization(s)/Department(s).

It has following functions/functionalities:

Registration of Bidders and Govt. officials in different roles
Tender Creation and Publishing
Publishing of Corrigendum and Pre-bid meeting decisions
Online Bid submission/resubmission/withdrawal as per the needs (configurable)
Encryption of bids submitted by the bidders
Online Payments
Online tender opening
Live bid opening for the bidders
Technical & financial evaluation updations
Award of the contract
Mail communication to stakeholders
Tender status on different stages of the tender
Digital signing of all documents
Report/MIS module

URL: eproc.punjab.gov.in

CM DASHBOARD

CM Dashboard has been customised for Punjab State & 231 schemes/projects of various departments including Central & State are made available on the Dashboard. The Dashboard has been inaugurated by Chief Minister, Punjab on 27.12.2017 in the Cabinet meeting. Initially the CM desired that dashboard should be accessible only through login. These logins are created for CM & all Ministers & Departmental Secretaries. Chief Principal Secretary desired that all Ministers & Departmental secretaries should use the dashboard for effective monitoring of various Government Schemes / Works.

URL: https://pb.cmdashboard.nic.in

COMPUTERIZATION AND COMPUTER NETWORKING OF CONSUMER FORUMS (CONFONET)

CONFONET provides a single-window solution for automation of all the activities undertaken at the Consumer Forums at the National, State and District Levels. Daily Cause Lists and Judgments from all the locations are being regularly uploaded on CONFONET Portal.

It has following features/functionalities:

Registration of Case / Complaints (capturing complete details of case application including litigants and advocates).
Recording of court proceedings
Generation of Cause List.
Recording of judgments,
Uploading of Judgment
Generation of Case History
Automatic generation of email to various stake holders.
Generation of SMS at various stages.
MIS Reports
Dashboard for higher authority
Role-based logins

URL: https://panchayatonline.gov.in

MUKH MANTRI PUNJAB CANCER RAHAT KOSH (MMPCRK)

Mukh Mantri Punjab Cancer Rahat Kosh Monitoring System (MMPCRK) has been developed to monitor the financial aid provided by Government of Punjab to a resident of Punjab suffering from cancer.

MMPCRK is a workflow-based ICT solution for the complete process involving application/estimate submission by Hospital, approval by Civil Surgeon Office, District Committees & DHS and finally release of funds to the Hospitals on submission of Utilization certificate. All the diverse kind of stakeholders operate the system in seamless fashion to facilitate the entire process of filing of cases, disbursement of grant, management and monitoring of funds in MMPCRK.

The financial aid is directly transferred to empaneled hospital for the cashless treatment of a patient up to Rs. 1.5 Lacs on the submission of utilization certificate by the hospitals.

It has following features/functionalities:

- Online mechanism to capture the application details of patient along with supporting documents and Photograph of patient.
- Provision for capturing multiple estimates for single patient
- Provision for transferring the case to another Hospital
- Enhances transparency and accountability.
- Prevents the duplicate claims by the Patients
- Provision to generate MIS Reports to monitor the funds provided to particular patient and to monitor the funds sanctioned by Mukh Mantri Rehat Kosh Society during particular periods.
- Monitoring of status of application, funds sanctioned and utilized etc. through dynamic dashboard
- Provision for Hospital module to capture the treatment details provided to particular patient for claiming the cost of treatment against approval.
- Online status of application, amount sanctioned, and amount utilized for the patient.
- Online mechanism to check the current status of application.
- Developed in Open Source Technologies
- Integration of SMS (CDAC) and eMail (NIC)

Highlights:

- Successfully implemented in 19 empaneled hospitals
- Development done using Open-Source technologies

URL: http://mmpcrk.gov.in

ONLINE WORKFLOW BASED END-TO-END SOLUTION FOR COMPREHENSIVE TRANSFORMATION OF STATE EXCISE ECOSYSTEMS IN PUNJAB (EABKARI)

eAbkari is a strategic administrative reform initiative of Punjab State Excise and Taxation Department leveraging state-of-the-art modern technology. The Excise & Taxation Department is one of the major tax revenues earning sources of Punjab state government. It deals with the administration of the laws and rules relating to: manufacture, supply, storage and distribution of country liquor, foreign liquor, and beer, other intoxicants and narcotics; collection of duty and fees; prevention of illegal trade, trafficking and production of illicit liquor.

It is developed by NIC as web enabled application with centralized architecture to make it accessible 24x7 by its stakeholders from any location. The testing & implementation processes are carried out by the Excise Officials & Stakeholders.

It has following features/functionalities:

User with password and Mobile OTP based login.
Label Registration
Pass/Permit Generation
Transport of Bulk Spirit
Import/Export of Bulk Spirit
E-payment Facilities

QR code generation and GTIN number
Based on Excise Workflow
SMS gateway integration
Maintain records of Manufacture, supply, storage and distribution of country liquor, foreign liquor, beer, other intoxicants and narcotics.
Proper Route Map for Transportation and Detail of Vehicle

URL: excise.punjab.gov.in

EAWAS – ACCOMMODATION ALLOTMENT & MANAGEMENT SYSTEM

Awas application Caters to the allocation of Government Accommodation to Punjab Government employees as per entitlement and seniority, who desire Government Accommodation for residence from pool of Government houses, located in Chandigarh. Integrated with iHRMS for populating the employee details while registration, also Integrated with SMS gateway for delivery of OTP and alerts, TejasVI Data Analytical Tool for the development of Dashboard, Sandes Messenger for delivery of OTP and Sandes Chatbot, Parichay SSO platform for single sign on. The objective of this portal is to bring transparency in allotment of government accommodation to government employees, to know the availability and maintenance status of allotted and vacant accommodations and to bring transparency in license fee collection and accommodation allotment process.

e-Awas Application and Sandes Chatbot has been successfully launched by Sh. Vijay Kumar Janjua, IAS, Chief Secretary, Government of Punjab on 12th December 2022.

It has following features/functionalities:

- Role based access, Two Factors Authentication
- Self-Registration by Applicant
- Integrated with iHRMS for online Data Validation & Profile Creation
- Online Submission of Three Accommodation Choices
- Auto Generation of Seniority List and Accommodation Allotment
- Integrated with NIC SMS Gateway
- Grievances Management
- Dashboard by TejasVI Data Analytical Tools
- Sandes Chatbot

URL: https://eawas.punjab.gov.in

NEVA (NATIONAL EVIDHAN APPLICATION)

National e-Vidhan Application (NeVA) implemented in Punjab Vidhan Sabha which automated the processes which are relevant for paperless functioning of House and digital exchange of information.

The following modules were implemented:

- Digital Legislatures / Business Facilitation
- Daily Business Papers (List of Business, Bulletins, Synopsis etc.)
- Preparation of Verbatim by Reporters
- Submission and processing of Questions and Notices of all types.

- Laying of all the papers and reports in electronic form.
- Computerization of Question Branch, Table Office, Legislative, Editorial and Synopsis Branch.
- Bills Management System

URL: https://punjabassembly.nic.in

SCHOLARSHIP PORTAL OF PUNJAB

The eScholarship Portal of Punjab, developed for Department of Social Justice and Empowerment, is an integrated e-governance solution aimed at providing timely scholarships to Scheduled Caste (SC) and Other Backward Class (OBC) students. Launched with the objective of ensuring efficient and transparent disbursement of Post Matric Scholarships, the portal automates and streamlines the entire process—from the receipt of applications to sanction and disbursal of funds. The portal also integrates with Aadhaar and banking systems to ensure direct and secure transfer of scholarships to beneficiaries' accounts via Direct Benefit Transfer (DBT).

Key Features

- PFMS Integration: Ensures smooth transfer of state and central government funds directly into the beneficiaries' bank accounts.
- Aadhaar Authentication: Validation of student identity through Aadhaar to prevent duplication and fraud.
- DBT (Direct Benefit Transfer): Scholarships are directly disbursed to students' and institutes' bank accounts, ensuring transparency.
- SMS Services: Real-time notifications to students and institutes on the status of scholarship applications.
- Integration with National Scholarships Portal: Ensures coordinated disbursal of central and state scholarship funds.
- Security Audits: Final-level security and Aadhaar audits have been completed to ensure data integrity and system security.

URL: http://www.scholarships.punjab.gov.in

CAMPA (COMPENSATORY AFFORESTATION, FUND MANAGEMENT AND PLANNING AUTHORITY)

It is meant to promote afforestation and regeneration activities as a way of compensating for forest land diverted to non-forest uses. National CAMPA Advisory Council has been established as per orders of The Hon'ble Supreme. (2008)

Various Modules:

- **Public Portal Access**- Members of the general public can access the portal to locate nearby nurseries.
- **Plant Selection and Purchase**- Users can select plants they wish to purchase from any nursery listed on the portal. Payments for selected plants can be made online.
- **Order Fulfilment and Stock Management**- Users can collect their purchased plants from the designated nursery. The nursery in-charge is responsible for delivering the plants and updating the stock levels. Divisional Forest Officers (DFOs) are empowered to perform the operations of a nursery in-charge.
- **Plantation Module:** Site Identification and Submission- Field staff, referred to as beats, are tasked with identifying potential sites for plantation. These beats submit detailed information and KML (Keyhole Markup Language) files of the sites to the DFO through a hierarchical process involving Block and Range levels.

- **Approval Process**-The DFO reviews the site submissions. Once approved by the DFO, the site is designated for plantation activities.

Technology Used: Python, Django, mySql, Redis, Celery
Statistics: Number of Nurseries: 454, Number of Divisions/Ranges: 16/70 , Number(Type) of Plants: 179

COOPERATIVE CORE BANKING SYSTEM (CCBS)

NIC"s Co-operative Core Banking Solution (CCBS) has been designed and developed keeping in mind the needs and unique requirements of co-operative institutions in India. CCBS software caters to all banking (Advances & Deposits) related requirements in terms of maintenance, transactions and reporting.90 Primary Agriculture Cooperative Banks (PADBs) branches in Punjab are using this software customized as per their requirement. Presently the activities related to development of interface for State Agriculture Development Bank HQ office are in progress. The bank has further extended the contract for software support and implementation with NICSI for further period of three years till Oct 2023.

URL: pb.cmdashboard.nic.in

CENTRAL INSPECTION SYSTEM (CIS)

The need for a central inspection system is to address the common complaints about ambiguity, duplication and overlapping mandates between inspection authorities, and a general lack of cooperation and coordination. Currently, industrial establishments are receiving multiple visits from different bodies often checking on the same things, and, on some occasions, contradicting each other.

As part of "Ease of Doing Business" system, improving the inspection system has become a critical parameter in ensuring clarity on inspections, frequency of inspections, and reducing duplications. This Inspection System aims to achieve the objective of simplifying business regulations and bring in transparency and accountability in inspections

It has following features/functionalities

Online application submission
- Pre-intimation for pending boiler inspection
- One-time document along with application form
- Fee Payment through Online Payment Gateway
- Paperless filling and Online processing
- Time bound Digital Approvals, Stages and timeline defined
- Graphical MIS Reports for Management
- Timely Clearances, hence cutting delays
- Real time status tracking through SMS & Email
- Boiler Installation/Erection Permission
- Boiler Registration
- Boiler Inspection
- Allocation of Inspection to the Inspectors through online portal
- Provision of uploading Inspection Report by Inspectors
- Provision for uploading of License by Director Boiler Punjab
- Downloading of Digital License by Industry

URL: http://www.pbinspections.gov.in/

EPANCHAYAT

ePanchayat is an e-Governance system in Panchayati Raj Institutions to make them efficient, transparent and accountable in carrying out their assigned responsibilities. It has following modules:

- PRIASOFT
- PLANPLUS
- Local Government Directory
- National Panchayat Portal
- Area Profiler
- Training
- National Asset Directory
- SAGY
- mAsset

PriaSoft

- Provides opening balance entry, cheque book entry, receipt, Payment, Contra and Journal Vouchers
- Generation of Utilizing Certificate online.
- Maintenance of Day Book, Month Book, Ledge Book, Cheque Receipt/Issue Register

Plan Plus

- Provision for capturing Public Works, Beneficiary Oriented Programme & Costless Activities.
- Generation of single GPDP (Gram Panchayat Development Plan) document.
- Facility to add fund allocation for each activity.
- Management of Fourteenth Finance Commission and related reports.

National Panchayat Portal (NPP)

- Used to generate and maintain dynamic websites for panchayats in the country
- Each panchayat can configure their website to be accessed using a URL of their choice and contribute content.

Local Government Directory (LGD)

- Each local government body is assigned with a unique code.
- Provision for maintenance of local government bodies and its mapping with constituting land region entities. For ex. gram panchayat mapping with villages.
- Uploading of Govt. order for each modification in the directory.
- Maintenance of historical data and archival of old values/data.
- Provision to maintain state specific local government setup.
- Compliance with Census 2011 codes.
- Provision for shifting of locations from one parent location to another.
- Variety of reports at various levels of local government.

Social Audit

+ Scheduling and management of meetings at Panchayat level.
+ Single installation at national Level which is available for 24*7 with a local language support.

National Asset Directory (NAD)

+ Captures the details of an asset as it moves through its life-cycle.
+ Upgradation, maintenance, earning, transfer, disposal and status update of assets.
+ Generation of various reports for NAD users and Citizens.

URL: http://epanchayat.gov.in

NATIONAL KNOWLEDGE NETWORK (NKN)

NKN is state-of-the-art multi-gigabit pan-India network which enables scientists, researchers and students to work closely. The target users for the NKN are all institutions engaged in the generation and dissemination of knowledge in areas such as research laboratories, universities and other institutions of higher learning. NKN connects IITs / Universities / Organizations / Laboratories under various categories throughout the country.
It has following features/functionalities:

+ State-of-the-art multi-gigabit pan-India network
+ Comprises of an ultra-high-speed CORE (multiples of 10 Gbps), complimented with a distribution layer at appropriate speeds.
+ Participating institutions at the Edge connect to the National Knowledge Network seamlessly at speeds of 1 Gbps or higher.
+ The network is designed to support Overlay Networks, Dedicated Networks, and Virtual Networks.
+ Highest level of availability, Scalability, Robust & reliable connectivity.
+ Provides services like Internet, Intranet, Voice over IP, Virtual Private Network Switching, etc.
+ Provides services like Internet, Intranet, Voice over IP, Virtual Private Network Switching, etc.
+ Aims to extend applications like Virtual Classroom, Collaborative Research, Grid Computing, Virtual Library etc.
+ Advanced applications in areas such as Health, Education, Science & Technology, Grid Computing, Bio informatics, Agriculture, and Governance will be an integral part of NKN.
+ NMICT project shifted to NKN.

SPARROW

Sparrow is an online system based on the comprehensive performance appraisal dossier that is maintained for each member of the Service by the State Government/Central Government. The aim of this system is to facilitate the electronic filling of PAR by officers in a way that is not only user friendly but also allows to fill from anywhere anytime as per their convenience. Similar convenience will be available to the officers at different levels in the workflow hierarchy of filling and submission process. The system is also expected to reduce delays in submission of completely filled APARs. The PRISM module has been integrated with SPARROW.

It has following features/functionalities:

- Transparency & Accountability
- Online Generation of eAPAR
- Delegation
- Workflow Creation
- Search and retrieval
- Dashboard
- Reports
- Declaration of Assets and Liabilities through PRISM

The Sparrow has been implemented in Punjab for IAS, IFS, IRS and IPS Officers.

URL: https://sparrow-ips.eoffice.gov.in, https://sparrow.eoffice.gov.in, https://sparrow-ifs.eoffice.gov.in

NATIONAL ANIMAL DISEASE REPORTING SYSTEM (NADRS)

NADRS involves a computerized network, integrating both MIS and GIS, which links each block, district and the State / UT headquarters in the country to the Central Disease Reporting & Monitoring Unit (CDRMU) in the DADF (Department of Animal Husbandry, Dairing and Fishering) at New Delhi with the objective to monitor 143 animal diseases through 7000 locations at sub-district level in the country. In Punjab 141 blocks, 22 districts are under the ambit of this project.

It has following features/functionalities:
- Centralized Animal Disease Database at National Level
- Automation of Animal Disease Reporting through various Channels like IVRS, SMS, email and web-based system
- Integration of Livestock Census Data and Mobile based   SMS Data with MIS
- Single Channel for Information Dissemination
- Online Monitoring of Schemes
- GIS based Decision Support System
- Analytical System using Business Intelligence Tools
- Capacity Building
- Disease Reporting: Enables the real time online & timely reporting of the animal disease situation.
- Scheme Monitoring: This application provides a single monitoring system for various central / state / district specific schemes.
- Block Level MIS: Block level MIS helps the block officer to carry out and manage activities which are done at block level i.e. AI, Slaughter House Management, Insurance details, stock and camp management etc.
- NADRS Portal: NADRS portal is single window to collaborate and share information, news, research papers, views, events, schemes and programs, videos and suggested ways for prevention and control of diseases.
- ADDFWLA: This application monitors and captures information related to Samples collected from the Diseased Animals, Samples Tested, Test Results Obtained by Animal Disease Diagnostic Laboratories (ADDLs) and then integrate the test details of samples with Animal Disease Reporting System (ADRS).

URL: https://www.nadrsapps.gov.in/

NEXT GEN EHOSPITAL

A Hospital Management System is a workflow-based ICT solution for internal functioning of Hospitals specifically meant for the hospitals in Government Sector. This is generic software, which covers major functional areas like patient care, laboratory services, human resource and medical records management of a hospital. It is a patient-centric system. This portal is a single window for availing all patient related services online for Government hospitals. E-Hospital and ORS applications are available free-of-cost on as-is basis from cloud.

Following modules are available on Cloud based eHospital.

ORS (Online Registration Module)
OPD
IPD (Admission, Discharge and Transfer)
Billing
eBlood Bank
ePharmacy
Labs
Implementation
GMC Amritsar
GMC Patiala
GGSMC Faridkot

URL: https://nextgen.ehospital.gov.in/

DRUG DE-ADDICTION REGISTRY PORTAL

Department of Health and Family Welfare (Govt. of Punjab) has setup Outpatient Opioid Assisted Treatment (OOAT) Centres for patient who has dependency on drugs and other opioid substances. Outpatient Opioid Assisted Treatment Centres provides an efficacious, safe and cost-effective treatment to opioid dependent persons. For the management of these centre as well as medicine NIC Punjab have developed DDRP application which will help in monitoring the treatment provided to patients registered at various OOAT centres, availability of medicine in various centres.

The scope of project shall involve development of software solution with following features and functionalities:

- Capturing of complete workflow involved in the application, which covers registration of patient and regular follow-up visit performed by patient at OOAT Centre.
- Integration with Aadhaar database to check the duplicacy of record.
- Provision to capture complete stock details of medicine and quota issued to various warehouse and medicine issued to various de-addiction centre.
- Provision to generate various type of reports for monitoring of patients and availability of medicine stock at various OOAT centres.
- Provision to generate dispensary register and stock register as per the format maintained by OOAT centres.
- Availability of Dashboard at various levels.
- Generation of SMS and eMail alerts at various stages to patient and concerned officer.
- Integration with SANDES for generation of SMS alerts.

ECOUNSELING FOR TECHNICAL COURSES

Web based online, off-campus counselling for admissions to all Engineering, Polytechnic, ITIs and Pharmacy courses in Punjab has been implemented.

It has following features/functionalities:

- Online Registration.
- Online Filling of Choices.
- Transparency in seat allocation.
- Providing enough time to students for submission, change, delete, re-ordering of multiple choices from anywhere any time.
- Centralized database and centralized monitoring.
- Paperless counseling.
- Secured and controlled data access at every level.

Highlights:

Web based online, off-campus counselling for admissions to 359 ITIs since 2014, which covers admission to Engineering and Non-Engineering trades affiliated to NCVT/SCVT.

URL: http://itipunjab.nic.in, **http://psbte.gov.in**

INDIA CODE PORTAL

It is the digital repository for all central and state acts. All the state Government departments have uploaded their state acts and subordinate rules, regulations, notifications etc... on portal. NIC Punjab created login credentials for all the department's nodal officers and provide technical support for portal.

URL://indiacode.nic.in

COMPUTERIZATION OF MEDICO LEGAL REPORTS AND POST MORTEM REPORT (MEDLEAPR)

MedLEaPR is the computerization of Medico Legal Report and Post Mortem Report. The need for computerization of Medico Legal (MLR) and Post Mortem (PMR) reports was felt as the courts, the prosecutions and the defence generally faces problems in understanding and reading the Post-mortem and Medico legal reports during the trials as the MLR & PMR are more often penned down in illegible handwriting. Under the direction and supervision of   Hon'ble Punjab and Haryana High Court, computerization of MLR and PMR (MedLEaPR) was   implemented in all the Govt. and Private health institutions   Punjab.

It has following features/functionalities

Generation of Medico Legal Reports (Injury)
Generation of Medico Legal Reports (Rape Victim)
Generation of Medico Legal Reports (Age Estimation)
Generation of Medico Legal Reports (Alcoholic)
Generation of Post Mortem Reports and Post Mortem (Foetus) Reports
Provision for Graphically marking of Injuries

Generation of Subsequent opinion for MLR/PMR
SMS/e-Mail integration
Integration with Forensic labs in Punjab

Highlights:

Implemented at all the Govt. and private Health institutes in Punjab.

URL: http://medleapr.punjab.gov.in

JEEVAN PRAMAAN(DLC)

A web-based portal for registration of Pensioners and generation of Digital Life Certificate for the Pensioners by real time authentication of pensioners biometric with Adhaar Biometrics. No need to visit the Bank for authentication. Pensioners can authenticate through biometrics device anywhere.

It has following features/functionalities:

Biometric enabled digital service for pensioners.
Uses Aadhaar platform for biometric authentication.
Digital Life Certificate is generated which is stored in Life Certificate Repository and can be accessed on-line by Pensioners and Pension Disbursing Agencies.
Pensioners and Pension Disbursing Agency can download the PDF copy of Certificate from the website.
The Life Certificates can also be electronically delivered to the Pension Disbursing Agency.
SUWIDHA Centres/CSCs/Unified Service Centres in the State have been identified as Jeevan Pramaan Centres.

URL: https://jeevanpramaan.gov.in

MAHATMA GANDHI STATE INSTITUTE OF PUBLIC ADMINISTRATION (MGSIPA)

A comprehensive portal is developed which facilitates content management through authorized logins with in-built work-flow and roles. This portal can be used by other states too with minor customization as per state requirement. The portal offers online booking of accommodation of various types (Conference Halls, Lecture Rooms, Hostel, and Training Labs) with back-end enforcement of business rules like approval / cancellation, blocking, assignment of accommodation, Training calendar Management, Knowledge Management, Applying Online for Trainings, Resource Person Registration & Management. Prepared as per GIGW guidelines and security audited, social site linkage and compliant for deaf & dumbs.

Integrated Payment & SMS gateway for online payments and updation of booking status online and through SMS. Inaugurated and functioning fine since May 2019.

Bilingual interface is being developed and contents of the website will be available in Punjabi soon.

URL: https://mgsipa.punjab.gov.in/

PUNJAB ADVERTISEMENT RELEASE ORDER SYSTEM – PAROS

The **Punjab Advertisement Release Order System (PAROS)** is an innovative online solution developed to streamline the submission and management of advertisement requests by client organizations. This system replaces the traditional manual processes with an efficient, transparent, and automated online platform.

Implemented by the **National Informatics Centre (NIC) Punjab** for the Department of Information and Public Relations, the system was developed following a detailed analysis and government process re-engineering of the existing workflows. PAROS enhances the visibility of advertisement requests and allows for real-time tracking of release orders by both departments and the Directorate of Information and Public Relations (DIPR).

The initiative not only saves time and resources but also standardizes formats across departments and media houses, facilitating better reporting and auditing processes. PAROS was recognized with the **Digital Technology Sabha Excellence Award** in February 2021, under the Enterprise category.

URL: www.dipr.punjab.gov.in

ASHIRWAD PORTAL OF PUNJAB

The Ashirwad Scheme is an online initiative by the Government of Punjab to provide financial assistance to economically weaker sections, including Scheduled Castes (SC), Other Backward Classes (OBC), and marginalized communities. Originally called "Shagun," the scheme was renamed "Ashirwad" on January 26, 2004. The scheme offers financial assistance of Rs. 51,000 to parents and the girl child at the time of marriage or remarriage, effective from July 1, 2021. The scheme, administered through the Ashirwad Portal, is designed to ensure efficient, transparent, and contactless disbursement of funds. The portal allows applicants to apply online and receive the financial assistance directly in their bank accounts after due verification and approval by relevant authorities. This initiative aims to curb fraud, ensure non-discriminatory access, and provide timely financial support to deserving individuals.

Eligibility Criteria

Income Limit: The applicant's annual income should not exceed Rs. 32,790.

Age Requirement: The girl must be at least 18 years old.

Domicile: The applicant must be a permanent resident of Punjab.

Key Features

Online Application Process: Applicants can register and apply for financial assistance entirely through the portal.

End-to-End Workflow: The workflow is designed to streamline the application process, moving through different levels of approval: Tehsil Welfare Officer, District Welfare Officer, and finally, the Directorate of Social Justice, Empowerment, and Minorities.

Direct Bank Transfer: The approved assistance amount is credited directly to the beneficiary's bank account.

Aadhaar Authentication: Aadhaar-based verification ensures the accuracy and authenticity of applicants and the authorities involved.

24/7 Accessibility: The portal is accessible to applicants and officials at any time, ensuring prompt information availability.

Enhanced Security and Validation: Extensive data validation checks, security audits, and an intuitive user interface ensure data accuracy and process integrity.

Push/Pull SMS Notifications: Applicants receive real-time status updates on their applications via SMS.

Benefits

Timely Disbursement: Funds are disbursed promptly, ensuring financial assistance reaches eligible applicants when they need it.

Transparency and Accountability: The online process ensures minimal human intervention, reducing the possibility of fraud or bias.

Non-Discriminatory Access: The scheme is designed to provide equal access to financial aid, regardless of social or economic background.

Improved Monitoring and Reporting: Authorities can track applications and disbursements in real time, leading to better oversight and accountability.

- 24/7 Accessibility: The online nature of the portal allows applicants and officials to access the system at any time, providing greater flexibility.

URL: http://ashirwad.punjab.gov.in

VEHICLE MANAGEMENT SYSTEM

VMS is a web-based application for keeping a check on POL bills of all state government vehicles. Every government official (earmarked) or vehicle (pooled) has a POL limit (i.e. Fuel & Maintenance expenditure limit) assigned by Department of Finance, Govt. of Punjab. The department is using VMS to keep track of each limit.

In case an official or vehicle needs to go beyond allotted limit, VMS asks for permission to be uploaded and this permission will be forwarded to Nodal Officer for online verification.

In VMS, every DDO needs to enter sub vouchers (including multiple bills) in a specific format and after taking required data these vouchers (claims) will be forwarded to IFMS for bill generation.

It has following features/functionalities:

- Availability of vehicles at a particular office, tehsil, district and HQs etc.
- POL Expenditure of a particular office, tehsil, district and HQs etc.
- Each earmarked vehicle mapped with HRMS Code
- Intimation regarding number of vehicles with an official
- Facilitating DDOs in having history of each government vehicles
- Streamlined POL bills hence reducing back log
- Provision to provide tehsil wise vehicle data to Deputy Commissioners in crisis.
- Intimation of excess use of vehicle to seniors
- Intimation regarding not is use vehicles
- Role based dashboard to each user
- Helping state government in crisis by providing information like vehicle available at particular region/institute/offices of the state.
- Includes expenditure details about hired, contractual vehicles and Misc. Store items
- Smart dashboard for decision makers
- Facility for transfer of vehicle from one official to another or one office to another.
- Online Help Desk

URL: https://vms.punjab.gov.in

ESAMIKSHA

eSamikSha Punjab is an innovative online monitoring and compliance mechanism designed to expedite the resolution of action points, proposals, issues, projects, schemes, and targets

pending with various implementing agencies. This real-time system enables effective tracking of follow-up actions on decisions made during presentations by different Departments and Districts to the Chief Minister.

The eSamikSha system allows secure access for users, such as departments and districts, through login credentials, enabling them to update the status of each decision as changes occur or at least on a monthly basis. This system can also be adapted to review follow-up actions from other meetings as needed.

Key Features and Benefits

- Efficiency and Transparency: The design of eSamikSha enhances operational efficiency, promotes transparency, and reduces the need for extensive correspondence, thereby improving communication between government entities (G2G).
- Automated Updates: Once action points, proposals, issues, or targets are entered into the eSamikSha portal, the system automatically prompts the respective implementing agencies for regular updates until compliance is achieved.
- Integration with World Bank Initiatives: The portal recently incorporated Disbursement Linked Indicators (DLIs) of the World Bank's BEFAIR project, aimed at revitalizing state development through strengthened policies, improved public finance management, and enhanced data and statistics for data-driven governance.

GOVT. PROPERTY MANAGEMENT SYSTEM (GPMS)

Government Property Management System is a web based application for keeping track of immovable properties (Land/Buildings) of Govt. of Punjab. The Property needs to go through processes like entry, validation and verification for complete workflow. Once verified, the authorities can identify and allocate un-utilized Properties to needed offices/departments.
In addition, the offices/departments can also post various kinds of utility bills like Electricity, Water, Telephone, Mobile Phones and Office Expenses to IFMS via GPMS.

It has following features/functionalities:

Availability of properties with each office/department across the state.
Identification and allocation of un-utilized Properties to needy departments
Property Tracking through Latitude and Longitude
Validation by Occupier
Property Verification by revenue officers
Expenditures incurred (rent/property tax/electricity/water/telephone/office expenses) by each office/department across the state.
Availability of vacant office space at a particular location
Check on expenditure incurred by each office
Provision for tehsil and block wise data to Deputy Commissioners
Role based dashboard to each user
Check availability of vacant office space at a particular location
Smart dashboard for decision makers
Real time status alerts through SMS & Email
Online Help-Desk

URL: https://gpms.punjab.gov.in

BUILDING & OTHER CONSTRUCTION WORKER (BOCW)

The mission of the Punjab Building and Other Construction Workers' Welfare Board is to uplift the living standards of the construction workers and their family members, in the State of Punjab, by way of providing them basic amenities and adequate welfare measures after enrolling them as beneficiaries with the Board and providing them benefits by way of direct transfer into their bank accounts, under various welfare schemes of the board in a very transparent and efficient manner. BOCW portal is a web-based portal for registering, renewal and amendment of construction workers. This portal also includes complete workflow for disbursement of welfare schemes to construction workers.

Various services Covered under BOCW:

1. **Registration of Establishment:** Registration and Amendment of Establishment under Building and Other Construction Work Act, 1996
2. **Worker Registration:** Registration, Renewable and Amendment under Building and Other Construction Work Act, 1996
3. **Cess collection:** Cess Collection under Building and Other Construction Work Act, 1996
4. **Welfare Schemes:** Once a construction worker gets registered with the Board he becomes eligible for benefits under various Welfare schemes.

URL: https://bocw.punjab.gov.in/

PM-KISAN

With a view to provide income support to all landholding farmers' families in the country, having cultivable land, the Central Government has implemented a Central Sector Scheme, namely, "Pradhan Mantri Kisan Samman Nidhi (PM-KISAN)".

The scheme aims to supplement the financial needs of all landholding farmers' families in procuring various inputs to ensure proper crop health and appropriate yields, commensurate with the anticipated farm income as well as for domestic needs. Under the Scheme an amount of Rs.6000/- per year is released by the Central Government online directly into the bank accounts of the eligible farmers under Direct Benefit Transfer mode, subject to certain exclusions.

Beneficiaries under the scheme are to be identified by the respective State and Union Territory. The details of farmers are being maintained by the States/UTs either in electronic form or in manual register. To make integrated platform available in the country to assist in benefit transfer, a platform named PM-Kisan Portal available at URL (https://pmkisan.gov.in/) has been be launched for uploading the farmers' details at a single web-portal in a uniform Structure. 21 lakhs plus beneficiaries under the scheme have been identified by the State.

The PM-Kisan Portal has been created with the following objectives –

To provide verified and single source of truth on farmers' details at the portal.
Timely assistance to the farmers in farm operation
A unified e-platform for transferring of cash benefits into farmers bank account through PFMS integration.
Location wise availability of benefited farmers list.

Ease of monitoring across the country on fund transaction details.

NATIONAL DATABASE OF ARM LICENSE (NDAL)

NDAL is a web-based software module for digitization of arms licenses into a centralized repository called National Database of Arms Licenses and to generate unique identification (UID) number for each license holder. NDAL has three main components 1) Applicant details 2) License details 3) Weapon details. In first phase of NDAL, centralized repository of arms licenses has been created and ALIS (Arms Licenses Issuance System) will be rolled out in second phase. NDAL has been rolled out in all arms licensing authorities in Punjab.

It has following features/functionalities:
- Submission of Application on a Single Counter
- Delivery of License and related services from the same counter
- Acceptance of Govt. Fee at ALIS Counters
- Online capturing of Photograph of the Applicant
- Work Flow based System
- Automatic check on the Age of Applicant
- History of all the transactions
- Automatic check on the ceiling of no. of weapons
- Provision of generating Licenses on Stickers in duplicate (one for License, other for record)
- Provision of generating stickers for Renewal/Deletion of Weapons/Addition of Weapon etc. in duplicate
- Provision of generating various reports service wise or for a specified period of time

CENTRAL PUBLIC PROCUREMENT PORTAL (CPPP)

The Central Public Procurement Portal of Government of India facilitates all the Central Government Organizations to publish their Tender Enquiries, Corrigendum and Award of Contract details. The system also enables the users to migrate to total electronic procurement mode. The primary objective of this portal is to provide a single point access to the information on procurements made across various Central Government organizations.

It has following features/functionalities:

- Generic Solution - Can easily be adopted for Works, Goods and Services related tenders.
- Enrollment of Government Officials on different roles.
- Provision to float Single/Open/Limited/EOI tenders. Provision to float QCBS tenders also.
- Facility to float Global tenders involving multi-currency.
- Facility to float different types of corrigendum's.
- Facility to configure Bid Openers Min 2 and Maximum 4.
- Facility for floating of tenders for obtaining bids in Single/Two/Three & Four Cover(s)/Bid Packets.
- Facility for getting online Clarification on Tenders.
- Facility to upload Pre-Bid meeting decisions.
- Online/Offline payment of Tender Fee/ EMD.
- Live Bid opening view for Bidders.
- Facility to open the Bids by designated bid openers on or after designated bid opening date/time.
- Facility for General Technical Evaluation/ Item wise Evaluation.

- Auto-Generation of Comparative Chart for financial quotes.
- Mail / SMS alerts at different stages.
- Facility to view online 'Tender status' regarding unopened tenders, bid opening, evaluation and award of contract.
- Comprehensive report/MIS module.
- Post-tendering for works.

URL: http://eprocure.gov.in

ECONOMIC AND STATISTICAL ORGANIZATION (ESO)

Economic and Statistical Organization, Punjab, is a nodal department for effective coordination of statistical activities of each and every department of Government of Punjab and for strengthening the socio-economic database of the state. The Planners, Research scholars, social thinkers and administrators heavily rely upon the statistical data available with this Department which highlights the level of socio-economic development of the State. This data helps in formulation and evaluation of Development Programs of the State and identifies different bottlenecks in these programs for taking corrective measures for proper development of the State. In order to facilitate the collection of data from the field offices of ESO and other departments of Punjab Government and for further processing and analysis, NIC Punjab has developed an application for ESO, consisting of various modules, looking after different sectors being dealt by ESO. In addition, IP Telephony and LAN have been commissioned at all the field offices and Head Quarter of ESO.

It has the following modules:

- Village Directory
- Index of Industrial Production (IIP)
- Consumer Price Index (CPI)
- State Income (SI)
- Employee Statistics (ES)
- Budget Monitoring System (BMS)
- Local Body Accounts (LBA)
- Right To Information (RTI)

It has following features/functionalities:
- Web based application
- 24x7 network connectivity amongst ESO offices
- Single sign-on
- capturing online data from field (district / blocks) offices
- Automatic compilation and tabulation of data
- Extensive data validation checks
- Authorization check for data access
- Multi user data entry and query
- Use of standardized codification scheme to save time and reduce data entry errors
- Database design to ensure data integrity and security
- Bilingual Entry i.e. in English and Punjabi can be done
- Reports can be taken as bilingually i.e. in English and Punjabi
- Parameters can be added dynamically
- Improved, effective and very low cost communication
- Improved reporting

- Timely availability of correct information
- Sharing of information
- Improved overall analysis, presentation and dissemination of data
- Elimination of human error while compiling the data
- Enhanced transparency
- Centralized data for all the field offices i.e. uniformity of data
- Improved efficiency in office operations
- Reduction in duplicity of efforts
- Reduction in data duplicity and data redundancy
- Better and effective planning by ESO and State Government
- Better and faster analysis of data through customized reports generated at different levels
- Automation of various reports based on the data
- Online availability of standard forms used for reporting or recording of information in the department

URL: https://esopb.gov.in

PUNJAB DATA SHARING AND ACCESSIBILITY POLICY (PDSAP)

The Punjab Data Sharing and Accessibility Policy (PDSAP) is a framework aimed at providing access to non-sensitive, publicly funded data generated by various government bodies of Punjab. This policy aligns with the National Data Sharing and Accessibility Policy (NDSAP) and promotes the proactive release of government data in open, machine-readable formats. The goal is to ensure that the data is freely usable, reusable, and redistributable by anyone without the need for licenses or controls.

Key Objectives

- Openness & Accessibility: Make government data widely accessible to citizens, civil society, and businesses for social, economic, and developmental purposes.
- Innovation & Development: Foster the development of new applications, services, and innovations by allowing access to government data.
- Transparency & Accountability: Enhance transparency in governance and promote public engagement by making government-held data freely available.
- Public Platform: Establish a single data platform through Open Government Data (OGD) to centralize and share government data.
- Effective Data Use: Encourage the effective utilization of government data through visual representations and other innovative uses.

Core Principles

The PDSAP framework is based on several principles to ensure data sharing and accessibility:

- Openness: Data should be open and freely accessible.
- Flexibility: The system should be adaptable to meet evolving data-sharing needs.
- Transparency: The policy promotes clear and open sharing of data across all government entities.
- Data Quality: The information shared must be accurate, reliable, and unbiased.
- Security: While promoting openness, PDSAP ensures data security, safeguarding sensitive information.

+ Machine-Readability: Data should be shared in formats that are easy to process and use for building applications and conducting analysis.

URL: https://punjab.data.gov.in

VC (VIDEO CONFERENCING)

VC established in districts, Punjab Civil Secretariats, Chief Electoral Office, Chief Information Commissioner, Chief Secretary, Courts and being used by various departments of Punjab Government.

TARGETED PUBLIC DISTRIBUTION SYSTEM (TPDS)

Computerization of Targeted Public Distribution (TPDS) across the country has been taken up on priority with a view to address various challenges of the current system such as leakages and diversion of food grains in the TPDS supply-chain, fake and bogus ration cards, inclusion and exclusion errors, lack of transparency, weak grievance redressal social audit mechanisms.
NIC HQ developed software is being implemented in Punjab through which various functionalities are offered as follows:

+ Digitization of ration cards/ beneficiary
+ FPS management
+ Computerization of Supply-Chain Management,
+ Transparency Portal
+ Distribution of Ration through ePoS machines

All 23 districts with around 15000 FPS are covered under the project serving around 35 Lakh beneficiaries. ePoS solution rolled out in all 22 districts across all FPS in the state with 6 months. Further the facility to pay online application fee by new FPS owners and renewal fee by existing FPS owners is being incorporated for easy payments. Recently the Ration cards are made available on Digital Locker for the state.

The model of ration distribution bi-annually is being hailed in the country and many states have shown their interests into it.

Efforts are on to roll out the Door Step Delivery of Atta to the beneficiaries of Punjab from Oct 2nd 2022.

URL: www.annavitran.nic.in

NIC CLOUD SERVICES-PUNJAB STATE

In order to utilize and harness the benefits of Cloud Computing, Government of India has embarked upon an ambitious initiative - "GI Cloud" which has been named as 'MeghRaj' to ensure optimal use of infrastructure & associated resources. Cloud Services are packaged in line with the requirements of Government Departments making it easier for them to make the right choice.
NIC Punjab has been allocated cloud area to cater to the needs of Punjab State.

Objectives

+ Optimum utilization of infrastructure/resources
+ Speeding up the development and deployment of eGov applications

Services Offered

Variety of service model like Platform as a Service (PaaS), Infrastructure as a Service (IaaS), Software as Services (SaaS) and Storage as a Service (STaaS).

Hosting Environment: WINDOW, Various version of REDHAT, PHP, ASP.net, MS Sql Server, MYSQL, POSTGRESQL

MAHATMA GANDHI NATIONAL RURAL EMPLOYMENT GURANTTEE ACT (MGNREGA)

A web-based system facilitates for online data entry, issuing job cards and monitoring of work allocation and funds under NREGA, a central project, a central project. It has been implemented in districts of Punjab in a phased manner.

It has following features/functionalities:

- NREGASoft automates vast range of activities of field functionaries, officials and beneficiaries via coherent centralized workflow engine spanning the length and breadth of our country.
- Intuitive user interface in localized Indian languages
- The system captures data at process initiation points.
- All stake holders have been provided space for their share of work through role based access
- System supports 500,000 record additions per day.

URL: http://www.nrega.nic.in

ESANAD

eSanad is a web portal designed and developed by National Informatics Centre (NIC) for online document verification and attestation / apostille by Ministry of External Affairs (MEA), Govt. of India. eSanad portal provides a platform for online submission of the scanned documents of any type like personal, educational or commercial documents by applicants for verification & e-signing (digital signature) by the concerned Document Issuing Authorities (DIAs), and pushing the documents duly verified & digitally signed by DIAs to the concerned state government departments for onward transmission to Ministry of External Affairs, New Delhi. Subsequently, hard copy of the scanned documents would be attested / apostilled by MEA. Finally, the attested / apostilled hard copy of the documents would be dispatched to the applicants through speed post at their addresses registered in eSanad portal. There would be electronic movement of the documents among the stakeholders. eSanad would enable a paperless, faceless and cashless service delivery mechanism. Bharat Kosh Payment gateway is integrated with eSanad portal for online payment of service charges to MEA, New Delhi for document attestation and apostille. eSanad portal facilitates public centric services of verification and attestation / apostille of the documents at the door steps of citizens without any personal visit to any office.

Benefits of eSanad

- Faceless, Cashless and paperless service
- Electronic movement of documents among stake-holders
- Real-time integration with digitalized databases of DIAs

- Digital cross verification by Foreign Governments using e-Register functionality
- Substantial time saving as compared to the old process
- Ease of life for Indian Citizens living abroad as they can access the functionality online and need not visit India
- Real time status enquiry through unique ARN
- Status updation to the applicant at every stage through SMS/email alerts

URL: https://esanad.nic.in

IMMIGRATION CHECK POST COMPUTERIZATION

Immigration, Visa, Foreigners Registration and Tracking (IVFRT) is a Mission Mode Project under National e-Governance Plan (NeGP) for modernization of immigration services. NIC is responsible for all technical aspects of IVFRT project including implementation of the project in Indian Missions / Posts abroad, Bureau of Immigration (BoI), Immigration Check Posts (ICPs), Foreigners Regional Registration Offices (FRROs), State Home / Police Departments, Foreigners Registration Offices (FROs) under Sr. Superintendents of Police / Commissionerates of Police, Educational Institutions, Hotels and Hospitals in India.

Implemented in all districts of Punjab and immigration check posts at SGRDJi International Airport Amritsar, land check post Wagha Border, Amritsar and rail check post Attari, Amritsar.

It has following features/functionalities:

- Centrally managed integrated UCF
- Profiling capabilities for enabling targeted interventions
- Intelligent system for rule-based alerts
- Effective management of multiple watch - lists on real time basis
- Biometric capture & retrieval system at missions, ICPs and FRROs/FROs,
- Streamlined processes and information sharing within the IVFRT
- Traveller facilitation including online registration and other services.
- Centralized database of foreigners visiting India
- Multiple Watch-Lists e.g.; Black List (BL), Look out Circular (LoC), Loss of Passport (LoP), Loss of Visa (LoV), Prior Referral Category (PRC), Unique Case File (UCF)
- Interlinking of Indian Missions abroad, ICPs, FRROs, FROs, Police and Security Agencies for sharing the vital information.

EPROSECUTION UNDER ICJS

eProsecution is one of the main pillars of ICJS (Interoperable Criminal Justice System) which was implemented in District Attorney Offices and Police Stations across all districts in Punjab. eProsecution portal is a platform which provides electronic communication exchange between DA offices of Prosecution Department and Police Stations of Punjab police.
The prime objectives of eProsecution are: -

- To streamline internal working of District Attorney offices
- To establish interoperability between eProsecution and CCTNS
- To maintain DUTR (Daily Under Trial Records)
- To enable police stations to seek legal opinion for FIR and Non-FIR cases from DA offices in online mode

> ♦ To provide legal opinion to police stations for draft charge sheets and FIR/non-FIR cases in online mode
> ♦ To send SMS alerts to the stakeholders on receipt and disposal of cases

ONLINE INDIAN CITIZENSHIP

Online Indian Citizenship is a paperless workflow-based solution for processing Indian citizenship applications of foreign nationals who are on LTV (Long Term Visa) in India. Right from online submission of application with scanned images of all relevant documents by applicants and initiation of processing at district level till issuance of Indian citizenship certificate by ministry of home Affairs, all the steps like police verification, payment of fees, forwarding of cases from DC offices to State Home department for onward transmission to MHA are online and paperless. All stakeholders like DCs, SSPs, ACS (Home Dept.) have been issued VPN tokens for safe and secure access of Online Citizen portal.

The prime objectives of eProsecution are: -

> ♦ Availability of centralized database of online citizenship applications with Ministry of Home Affairs (Foreigners Division)
> ♦ Mandatory for Foreign Nationals to apply online to avail Indian Citizenship
> ♦ Uniformity in processing of applications for Indian Citizenship
> ♦ Better monitoring and tracking of cases of Indian Citizenship by concerned authorities
> ♦ Online tracking of the status of Indian Citizenship application by applicants
> ♦ Simpler, faster and transparent process of the applications for grant of Indian Citizenship.

STANDARDIZED ITI PORTAL (EITI)

A portal which dynamically generates websites of all ITIs has been developed in the state so as to enable them to update information related to infrastructure availability, students, staff, inspections, financial position, attendance, result etc. in a standardized and uniform manner. The information entered/ updated by each ITI is made available in public domain immediately in real time. Various MIS and query reports give opportunity to the ITIs and department for better monitoring and decision making.

Using the software, the Department of Technical Education and Industrial Training Punjab has been able to get websites for 380 plus ITIs in Government, private and aided ITIs almost at negligible cost. The application can be used by other states with minimal customization and configuration. eITI project has been conferred Skoch Order of Merit 2016.

The eITI solution has a four-pronged functionality:

> ♦ **Department Website:** The department website gives information related schemes, policies, Tenders, RTI, Grievance Mechanism, Admission, Fee Details, RTI, Announcements, Notifications, Related websites, news, graph analysis etc. beside depicting each ITI on map for interactive analysis.
> ♦ **Entry Module for ITIs (SAAM):** Standardized Automated Access Module (SAAM) module is used by authorized users at State HQ & ITI level to enter / update content information over time themselves without dependence upon website developers.
> ♦ **Website for ITI:** Information entered / updated through Standardized Automated Access Module (SAAM) is made visible to the general public in real time for an ITI.

+ **Content Management:** Department Administrator uses this interface at state level to add/update the master information, upload photographs, news, messages, and creation of ITIs etc.

Features

+ Totally dynamic, work flow based, role-based application with single interface for access providing real time updations.
+ Prepared as per the Government of India guidelines on the development websites besides look & feel of the website.
+ Automated standard calculations wherever necessary so as to minimize the data entry.
+ Usage of a standard generic codification scheme related to schemes, trades, sector, categories and modules which can be updated as and when necessitated.
+ Three-tier security viz. at OS, database and application level.
+ Google Maps for location, direction and graphical analysis for better monitoring.

URL: www.punjabitis.gov.in

CENTRALIZED FOREIGNERS REGISTRATION OFFICE (C-FRO)

Centralized Foreigners Registration Office is a workflow-based web application implemented in twenty-eight Foreigners Registration Offices (FROs), FRRO, ICPs and Home Department in Punjab for rendering services like registration, new / extension of visas, exit permits, temporary landing permits, restricted area permits, police clearance certificates and other miscellaneous services to foreign nationals visiting India. It has following features/functionalities:

+ Online submission of application form.
+ Payment of the fees through payment gateway.
+ Safe & secure referral of the cases & documents electronically amongst all stakeholders like FROs, Home Departments, MHA & security agencies using VPN tokens.
+ Generation of various reports based on wide range of parameters for security agencies.

URL: https://indianfrro.gov.in/frro

NATIONAL SOCIAL ASSISTANCE PROGRAMME (NSAP)

It comprises of Indira Gandhi National Old Age Pension Scheme (IGNOAPS), Indira Gandhi National Widow Pension Scheme (IGNWPS), and Indira Gandhi National Disability Pension Scheme (IGNDPS).

It has following features/functionalities:

+ Details of beneficiaries in the database.
+ National Dashboard with summary of beneficiaries in country.
+ State Dashboard for viewing the summary of a particular state.
+ A variety of reports for efficient monitoring of details of beneficiaries under various schemes.
+ Provision for searching the beneficiary details.
+ Applicants/Authorities can check status of application for pension benefits.
+ Provision for benefit transfer through Bank Account as well as in cash.
+ Mapping of location codes with Census 2011 Codes.

♣ Facility to update data from state's local portal to NSAP portal through web service.

URL: http://www.nsap.nic.in/

NATIONAL SCHOLARSHIP PORTAL (NSP)

National Scholarships Portal is one-stop solution through which various services starting from student application, application receipt, processing, sanction and disbursal of various scholarships to Students are enabled. National Scholarships Portal is taken as Mission Mode Project under National e-Governance Plan (NeGP).

This initiative aims at providing a Simplified, Mission-oriented, Accountable, Responsive & Transparent 'SMART' System for faster & effective disposal of Scholarships applications and delivery of funds directly into beneficiaries account without any leakages.

The Mission Mode Project (MMP) of National Scholarships Portal under the National e-Governance Plan aims at providing common electronic portal for implementing various Scholarships schemes launched by Union Government, State Government and Union Territories across the country.
It has following features/functionalities:

♣ Common portal for various Scholarships schemes of Central and State Governments
♣ Online process from registration of application to final payment of scholarship.
♣ Ensure timely disbursement of Scholarships to students
♣ Create a Central transparent database of scholarships
♣ Avoid duplication in processing
♣ Harmonization of different Scholarships schemes & norms
♣ Payments through Direct Benefit Transfer (DBT)
♣ Simplified process for the students
♣ Improved transparency
♣ System suggests the schemes for which a student is eligible
♣ Master data for Institutions and courses at all India level
♣ Serves as a decision support system (DSS) for Ministries and departments as up-to date information will be available on demand.
♣ Comprehensive MIS System to facilitate monitoring every stage of Scholarships distribution

URL: http://scholarships.gov.in

AWARDS

Sr.No.	Award Name	Year	Project Name
1.	Technology Sabha Award	2023	eAbkari Punjab
2.	NIC Punjab State Centre Chandigarh received Silver Award from DG NIC for overall performance in District Governance Mobile Challenge (DGMC) Virtual Award Ceremony	2021	District Governance Mobile Challenge (DGMC)
3.	NIC Punjab District Centre Faridkot bags Bronze Award	2021	District Governance Mobile Challenge (DGMC)
4.	Digital Technology Sabha Award	2021	Punjab Advertisement Release Order System – PAROS (Department of Information and Public Relations, Punjab)
5.	Award for Excellence in eGovernance during the elets Urban Transformation Summit	2019	eOffice Implementation
6.	SKOCH Order of Merit Award & SKOCH Gold Award	2018	e-Labour Punjab, Department of Labour Govt. of Punjab
7.	SKOCH Order of Merit Award	2018	eOffice Implementation in Department of Governance Reforms
8.	CSI Nihilent e-Governance Awards	2017	eOffice Implementation in Punjab
9.	CSI Nihilent e-Governance Awards	2017	PPSC (Punjab Public Service Commission (PPSC)
10.	Skoch Order of Merit	2017	Implementation of eOffice in Department of Governance Reforms, Punjab
11.	Skoch Order of Merit & Skoch Silver Award	2017	Implementation of eOffice in DC office Barnala
12.	Skoch Order of Merit	2017	Implementation of eOffice in DC office Fatehgarh Sahib
13.	Skoch Order of Merit	2017	Automation of Economic and Statistical Organization (ESO)
14.	Skoch Order of Merit	2016	One Stop Clearance System http://investpunjab.gov.in
15.	Award of Appreciation - CSI Nihilent Awards	2016	One Stop Clearance System http://investpunjab.gov.in
16.	Digital India Award 2016 in Exemplary Online Service	2016	One Stop Clearance System http://investpunjab.gov.in

17.	Skoch Order of Merit among India's best e-Governance Project	2016	ITI eCounseling-2014 for Department of Technical Education and Industrial Training, Punjab.
18.	Skoch Order of Merit	2016	eITI www.punjabitis.gov.in
19.	Skoch Order of Merit among India's best e-Governance Project	2014	Midday Meal Monitoring System mdmpunjab.gov.in

MOBILE APPS

IHRMS

Integrated Human Resource Management Sys-tem is an integrated application for managing HR activities of employees in Punjab. The system updates data of 3.60 Lakh employees regarding their Service, Salary, GPF, GIS, Arrears, Increment, Property Return, ACR, Leave management etc... iHRMS App, developed by NIC- Punjab is an Android based mobile application using which the employees can view their Service details, Pay Slip, TDS, Annual Salary Statement (current and projected), requests for increasing / decreasing income tax deductions, apply GPF withdrawals, viewing GPF Ledger & Statement, GIS Statement, apply leave & view leave approval status and viewing Leave Ledger etc..

PUNJAB KIRTI SAHAYAK

Punjab Kirti Sahayak mobile app facilitates construction workers to register themselves with the Board and get information about the schemes run by the Board in seamless manner

ERECEIPT IFMS

eReceipt Mobile App facilitates collection of Tax/Non-Tax revenues in both Online (via NetBanking, Debit/Credit Card, Airtel Payment Bank, UPI Payments (Google Pay, PhonePe, Bhim App, PayTM and Amazon Pay) as well as Offline mode (via RTGS).

EBUDGET

Govt. of Punjab has laucnchd its first paperless Budget for FY 2022-23 through this Mobile App. It also facilitates taking Feedback from citizens of Punjab.

SCHEME INFORMATION PATHANKOT MOBILE APP

The mobile application is C2G and provides information about the various schemes running under government departments to citizens. Citizens can search among various schemes as well as browse a particular scheme under an office. Citizen also has option to check his eligibility for a particular scheme. Citizen can download form for application to a particular scheme.

MNIVARAN

The peculiar features of this app helps citizens to seek for immediate help when their life in danger by just one click. Girls can seek immediate help using panic button. Geolocation based tracking will help if Citizen is in danger. In addition Citizens can lodge complaints, suggestions and feedback to any office with or without disclosing their identity. Citizens can also upload and send image of issues which they want to bring in notice of District Administration.

ELECTRICITY BILL DISTRIBUTION

This app is role based i.e. Admin User and Normal Users. The Admin User can add and edit the Load Percentage of each and every department and then can calculate the electricity bill of every office. The Normal users can see their share of electricity bill and other details like Payment bank a/c no, IFSC details etc… and then can send their Payment acknowledgement.

DISTRICT DASHBOARD FATEHGARH SAHIB

This mobile app has been developed in house for providing and dissemination of more and more information regarding programmes, policies, procedures and forms of various Govt. schemes to general public through these mobile apps as around 70% population is equipped these days with mobile devices in the country.

YOJNA APP

This bilingual mobile app covers all benefit oriented schemes of 17 government departments.

CONQUER THE SKY

Conquer the Sky campaign is a noble initiative by the District Administration, Tarn Taran to promote sports and extra-curricular activities among girls. This mobile app facilitates the administrator to get various statistics about the campaign on his mobile device. This mobile app keep record of all the students registered under the campaign, results of medical tests performed on the students (which is part of the campaign), and complete record of diet of every student as recommended by the dietician based on the results of the medical tests.

CAREER COUNSELING

This app is very beneficial for the students and cover all aspects of career counselling Guidance. Students can search various types of career options for their future.

JALANDHARAPP

This mobile app is developed with an aim of disseminating information about Jalandhar district among the Citizens in mobile friendly manner. Citizens can search for basic information, brief History of Jalandhar District, Important places to visit and important key contacts/ links to Government services.

GOVCONTACT

'GovContact' is a government contact directory in which all the government officials contacts will be available for convenience of common citizens. In the application we are providing phone number, email ID and address location of the particular office. User can access the contact details of various officers. User can call, write email and can view office address location of a concerned officer.

FCC REGULATION

Ferozepur canal circle of Punjab supplies irrigation water and drinking water through extensive network of canals/distributaries/minors to district Ferozepur, Faridkot, Fazilka and Shri Muktsar sahib. This system is fed from the confluence of the Beas river and Sutlej river at the Harike Barrage. Main canal i.e Ferozepur feeder originates from Harike Headworks and is the main carrier of Ferozepur canal system and it further supplies water to Sirhind feeder system and Main branch system. The android mobile app provides the information about canals and heads of Ferozepur Canal Circle.

NEW INITIAVES:

- ◆ **eTula for Department of Legal Metrology, Punjab**
- ◆ **Design and Development of NextGen DISE**
- ◆ **Digital MC House Application eNIGAM**
- ◆ **Chief Minister - Numerous Integrated References Disposal Electronic System for Honourables CM –NIRDESH**
- ◆ **Drug De-Addiction Registry Portal**
- ◆ **MIS for ASHA Workers**
- ◆ **MIS for Department of Water Supply and Sanitation**
- ◆ **CM Dashboard**
- ◆ **National Prison Inmate Calling System**
- ◆ **Attendance System based on Face Recognition (using Artificial Intelligence)**
- ◆ **Web Application for PIDB (Punjab infrastructure development Board)**
- ◆ **Markfed ERP Solution**
- ◆ **Development of 50 CMS based Websites for different departments of Punjab Government**
- ◆ **OBPAS (Online Building Plan System) for Local Government**
- ◆ **Automation of Land Acquisition Process – Bhoomi Rashi(MoRTH)**

ESTABLISHMENT OF NKN IN INSTITUTES

Sr.	End Point	Category
1.	IIT Ropar	Engineering
2.	National Agri-Food Biotechnology Institute, C-127, Industrial Area, S.A.S. Nagar, Phase 8, Mohali, Punjab, India	Research
3.	C-DAC Mohali	
4.	NIT Jalandhar	Engineering
5.	Central Institute of Post-harvest Engineering & Technology, Ludhiana	Engineering
6.	School of Information Technology, College of Agricultural Engineering and Technology Punjab Agricultural University	STATE UNIVERSITY
7.	Guru Angand Dev Vetenary Science & Animal Sc. University	STATE UNIVERSITY
8.	Punjab Government Dental College and Hospital, Amritsar	Medical
9.	SGTB Hospital / Medical College, Amritsar	Medical
10.	Giani Zail Singh College Of Engineering & Technology, Bathinda	Engineering
11.	Shaheed Bhagat Singh College Of Engineering & Technology, Ferozpur	Engineering
12.	Govt Medical College, Patiala	Medical
13.	Guru Govind Singh Medical College, Faridkot	Medical
14.	National Institute of Pharmaceutical Education and Research, Punjab	Research
15.	Beant College Of Engineering & Technology Gurdaspur	Engineering
16.	Indian Institute of Science, Education and Research, Mohali	Research
17.	BABA Farid University of Health & Science, Faridkot	Medical

NETWORK AND WEB SERVICES

Domain Name Registration
Email Creation
VPN Services (Remote Publishing facilities)

For any queries, please contact:

State Informatics Officer
NIC-Punjab State Centre
Room No. 31, Punjab Civil Secretariat
Sector 1, Chandigarh
Phone: 0172-2747357
Email: sio-punjab@nic.in
http://pbsc.nic.in