

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

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



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

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

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

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



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

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RAJBALA VERMA, IAS
Chief Secretary
Jharkhand

has undertaken towards the goal of development through digital transformation.

E-VIDYA VAHINI

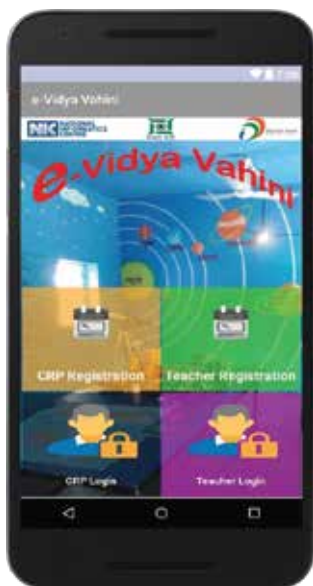
An education portal (<http://jhr.nic.in/education>) for school management and



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

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

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



e-Vidya Vahini App

Performance of School and Student

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

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

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

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

school.

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

e-vidya Vahini App provides-

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

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



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

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SATENDRA SINGH, IAS

Secretary
Department of IT & e-Governance
Jharkhand



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

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

JHAR SEVA

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

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

This is an online system in a true sense

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

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



A women making thumb impression on POS machine

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

LAND RECORD MODERNIZATION

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

It provides following services:

MIS Reports

More than 150 other State Government organizations

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

Online Mutation & Related Services

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

Integration with Registry office for Online Mutation

- Suo-motto mutation – Online mutation gets started automatically once the registration process completes

Online Lagan (Rent)

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



- Advance CMR delivered by Millers to FCI
- Rice receipt by FCI
- Payment to Millers against RICE delivered to FCI
- Paddy lifted by Millers from tagged MSP centre within given time frame

KEROSENE OIL DBT

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

PRADHAN MANTRI UJJWALA YOJNA (PMUY)

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

Bhu-Naksha

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

Data Entry for Circles

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

PUBLIC DISTRIBUTION SYSTEM

(<http://pds.jharkhand.gov.in>)

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

PADDY PROCUREMENT SYSTEM (E-UPARJAN)

<http://jhr.nic.in/uparjan>

was developed to automate the paddy

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

- Farmers registration for selling paddy
- SMS to farmers for reporting at MSP centre
- Paddy procurement by MSP centre
- Payment to farmers against the paddy sold



कर्मचारी सेवा प्लस Mobile App



➤ **Objective**

- Through this app employee can view
 - Employee Profile
 - GPF /CPF Contribution with Treasury Voucher Number.
 - GPF accounting slip.
 - The monthly salary slip
 - GPF Advance Taken Report
 - Apply for GPF advance
- Class II Officer can apply for Pay Slip.

➤ **Download Link**

- <http://finance-jharkhand.gov.in:8080/>

• **Supported Mobile OS**

- Android

Karmachari Sewa Plus App



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



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

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

INTEGRATED FINANCE MANAGEMENT SYSTEM (KUBER)

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

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

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

Modules of IFMS Version 1.0

- Budget Monitoring System
- Integration with PFMS portal
- Integrated Fund Management System – (Department > Budget Controlling Office > DDO > Treasury)

- DDO Level Bill Management System
- Treasury Information System
- e-Payments
- Treasury Management Information System
- Employee Portal - for empowering Government employees
- GPF Accounting System
- Treasury Information System interfaced to AG Office (Voucher Level Computerization)
- SMS Services through common gateway of C-DAC
- Personal Claim Settlement Cell Module
- Karmchari Sewa Plus (Mobile App)

Details of coverage of the targeted Population

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

JHARKHAND ELECTRONIC GOVERNMENT RECEIPT ACCOUNTING SYSTEM (JE-GRAS)

A common receipt portal has been designed and integrated with different revenue portals of various departments enabling e-Payments to Government by citizens. The portal has been integrated

with PayGov and SBlePAY gateways. The portal facilitates payments by using Internet Banking/ Credit Card/ Debit card and OTC.

Architecture

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

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

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

VAHAN & SARATHI

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

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

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

- Learners License
- Photo & Signature upload

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

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

HRMS (MANAVSAMPADA)

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

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

EMPLOYMENT EXCHANGE

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

E-PROCUREMENT

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

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

Resources Department and Forest Development Corporation

E-PRISON

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

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



Anganwari App

ANDROID APP DEVELOPED FOR OTHER E-GOVERNANCE PROJECTS

ANGANWARI APP

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



Black Spot App developed for Road Safety

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

BLACK SPOT APP DEVELOPED FOR ROAD SAFETY

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

ACCOLADE

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

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