





# NATIONAL INFORMATICS CENTRE Bihar State Centre

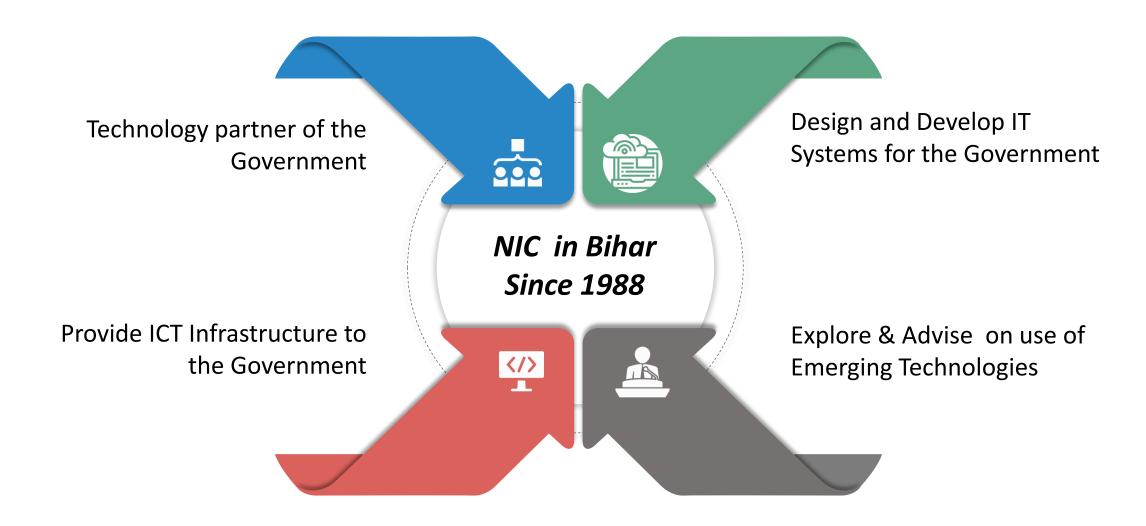






# **NIC Mandate**

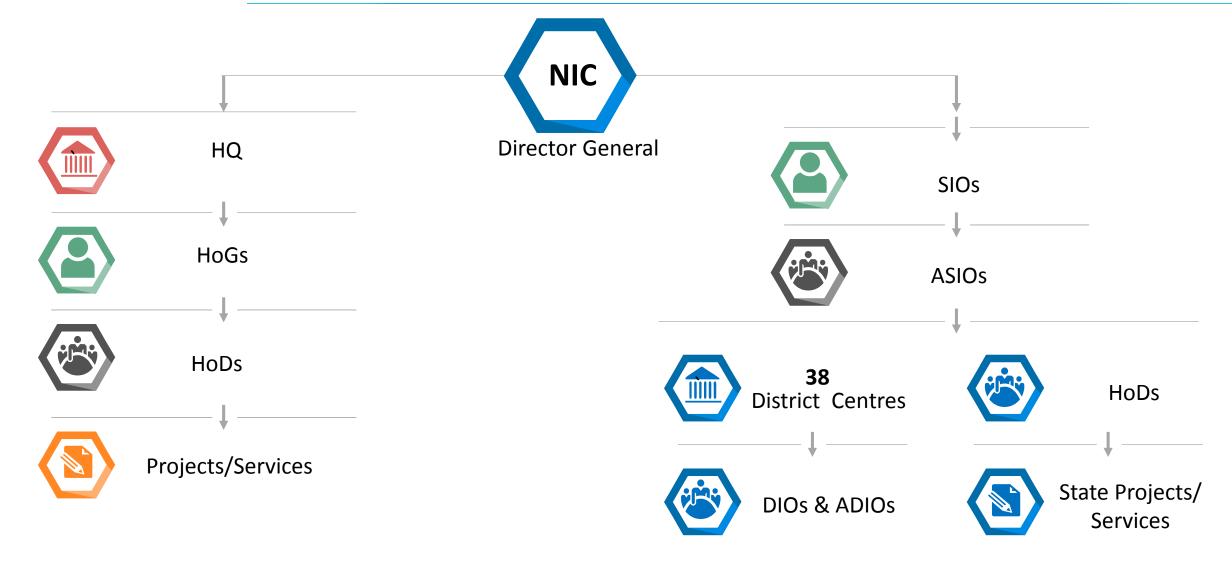






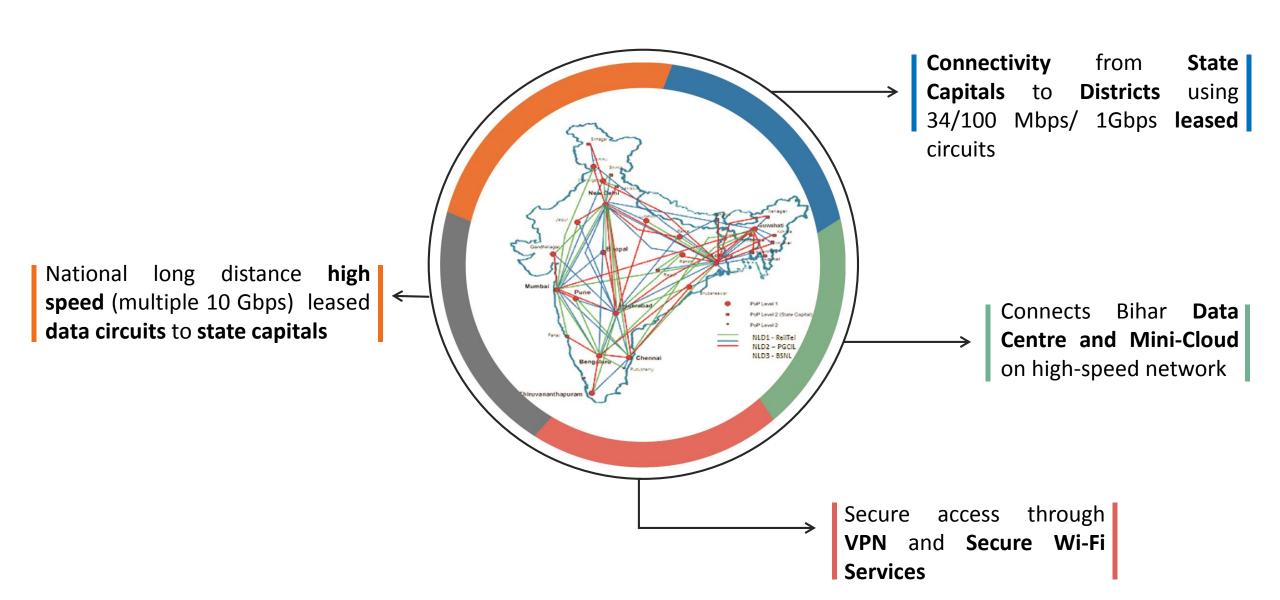
# **Organisation Structure**















#### **NICNET - Network Backbone for Bihar**

Leased line based connectivity - 10G Backbone (RailTel & PGCIL)

Links provided to the Central Government Offices

Links to State Governments (CS-Cell, Vikah Bhawan, Raj Bhawan etc.) RailTel 22 PGCIL 12

District Administrations & horizontal links through NIC DC Redundant Links to districts/offices – to ensure high availability Presence in all districts of Bihar (link of 34 / 100 / 1000 Mbps)





#### **NICNET - Feature and Functionalities**



Used for browsing, email, video conferencing, live webcast etc.



Secured access of online web applications



Support all online / internet based activities -



High speed Internet to data centre and mini-cloud servers



Large scale VVIP video conferencing and other online events



https://servicedesk.nic.in/
1800 111 555



Helpdesk – 24x7

0612-2547906, IP - 23028/ 23009

Network Engineer Filed Operator (NEFO) Network / System Administrator Network Coordinator

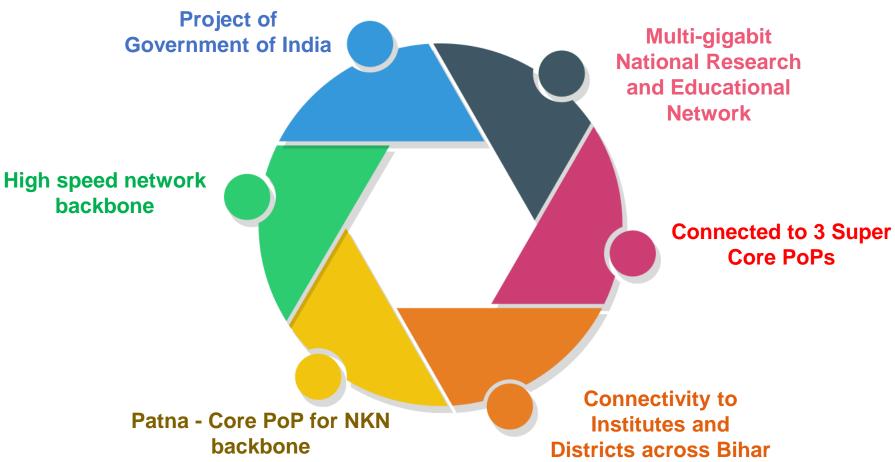
NoC HQ Delhi Team





# NKN – National Knowledge Network









# NKN – National Knowledge Network: Services



#### **Cloud Based Services**

- LDAP PaaS (Light Weight Directory Access Protocol with PaaS)
- NKN Application Token Manager
- NKN BitAmbulator Multitenant Storage Service



#### **Generic Services**

- Internet, Intranet, Network Management Views, e-Mail, Messaging Gateways
- Caching Gateways, Web Hosting, VoIP, Multipoint Control Unit (MCU) Services
- Video Portals, SMS Gateway, Co-Location Services, Video Streaming



#### **Special Services**

- Virtual Private Network Stitching Services
- VPN@L2 Virtual Private Wire Service / Virtual Private LAN Service, VPN@L3
- DNS Cache Servers, DNS Zone Sever, MX Service, Mail Relay Service



#### **Application Services**

- Open Source IP Registrar (OSIR) Auto Installation, Link & Client Management, Lease Search/Reservation
- Failover Management, Configurations Backup & Restore, Automatic DHCP Server Failover
- Smart Class Desktop based video conferencing facility, SMS Gateway Service (Push, Pull, email SMS



#### **Community Services**

- Virtual Classroom, Virtual Library, Virtual Lab, Collaborative Research
- CollabCAD, CollabDDS, Garuda, CERN-Large Hadron Collider, Open Source Drug Discovery, Grid Computing
- E-Foundry: Online learning resources in casting design and simulation

# **NKN** Connectivity

State University - 13

Medical College & Hospital - 11

Engineering Institution - 7

Management Institution - 5

Research Institution - 5

Central University - 4

Training - 3

Government Body - 2

Judiciary - 1

Art and Design - 1



# **Video Conferencing Services**



VC Studios

105+

VIP VC Sessions in 2022

NIC is offering VC services since 1995

 860+
 13745.00+

 VC Sessions In 2022
 VC Hours in 2022

\*Bharat VC Solution hosted on National Data Centre\*



# Mini Cloud, Bihar



# **Technology Used and Resource Allocated**

#### VM Ware

- vSphere vCentre Management Tool
- vRealize Automation VM creation using template
- vRops-Reporting tool
- Management Tools
  - HP Data Protector- Backup
  - Alteon Vision- Radware Load Balancer
  - HPE StoreOnce Data Storage
  - HPE OneView Configure and Manage Frame View.
  - HPE iLO- communicating to physical servers.
- Operating System
  - Microsoft Windows Server 2016
  - Red Hat Linux 7.5/7.7/7.8
  - CentOs 7.8/7.9
  - Ubuntu -18.04

- Application Server
  - IIS 10
  - Apache Tomcat 8.0/9.0
  - Apache 2.4.46
- Database Server-
  - Postgres 12.4 /13.0
  - Microsoft SQL Server 2016
  - MariaDB 10.4.14/10.5.8

#### VM's and other resource allocated

- VM's Created and Allocated 175
- No. of Cloud Accounts Created 68
- Load Balancer Created for -6 applications
- Backup Services allocated 111
- Public IP allocated to Cloud Users -68

Servers - 12 Nos. with 2 CPUs of 22 Core each

Storage Capacity - 411.90 TB

Memory Capacity – 6.40 TB

Cluster - Windows & Linux

**Services - PaaS & laaS** 

Network Speed - 10/25/40G



# Mini Cloud, Bihar



# **Applications Hosted**

- Aapda Sampoorti
- Shram Sadhan Portal
- MedhaSoft
- Anti-Virus of Bihar
- Government of Bihar
- Cooperative Dept. Of Bihar
- Bihar AIDS Control health Society
- Covid-19 Cell Management System, Patna
- Weights & Measures Division, Agriculture Department, Govt. of Bihar
- E-Labharthi
- Directorate of land records Bhunaksha
- Bihar Pravasi Portal
- EJANANI
- ICDS
- MSME, Muzaffarpur
- Krishi Jal
- Railway Recruitment Board, Muzaffarpur
- Chat bot Nirwachan Mitra
- EMEET(E-Meeting)
- RAJWBR(RAJ BHAWAN Governor of Bihar)
- ELECBR(Election Commission of Bihar)
- CGHSBR(Central Govt. Health Scheme)
- AGIS (Bihar GIS)
- BIC(Bihar information Commission)
- SERPBR(Service Plus)
- MSMPBR(MSME, Patna)
- Railway Recruitment Board, Patna
- Railway Recruitment Cell, Patna
- Samvardhan application, Purnea

- Bihar Vidhan Sabha
- Bihar Vidhan Parishad
- Loka yukt, Bihar
- Directorate of Rice Development
- River Development and Ganga Rejuvenation
- Online Health Department, Govt. of Bihar
- Flood Management Information System
- Bihar Public Service Commission
- Home Department Bihar
- Divisional Commissioner Saran Chhapra
- Khuda Bakash Oriental Public Library
- Archaeological Survey of India
- Chief Minister's Secretariat, Bihar
- Central Reserve Police Force, Bihar
- Home Department (BPSSC), Bihar
- Divisional Commissioner ,Darbhanga
- CGST Ranchi Zone, Patna.
- Central Excise, Patna.
- State Board of Technical Education,
   Education Department, Bihar
- State Consumer Disputes Redressal Bihar .
- EleTraces Application
- GIS Services
- Post Matric Scholarship, Bihar
- Divisional Commissioner, Saharsa
- Divisional Commissioner, Patna
- Divisional Commissioner, Patna ECIS
- Jeevika Online Project
- Jal Jeevan Hariyali Mission

- E-Gazette
- GAYA-RTE
- Joas Application
- DBTSMS
- Sewa Itihas
- Ganga Flood Control Commission
- NBFC Complaint Management System
- Janta Ke Darbar Me Mukhyamantri
- Abhiyan Kitab Daan
- Disaster Online
- Disaster EOC





# **Government Email Service & SMS**



#### **Email Service in India**

29 Lakh

**Email Users** 

4.5 Crore

Email Transactions/day

1.2 Crore

Malicious
Attacks/Emails
Blocked Per Day

2 Crore

SMTP gateway
Traffic/day

1600 +

Virtual Domains like @gov.in, @nic.in

24

**PB Storage** 

#### **Email Service in Bihar**

More than 18800email accounts have been created and managed for Central and State Government Offices

2FA Kavach software <a href="https://kavach.mail.gov.in">https://kavach.mail.gov.in</a> implemented for all user of Bihar State

Profile Update through <a href="https://profile.nic.in">https://profile.nic.in</a> of Bihar State User

https://eforms.nic.in portal implemented for new email account Creation for State and Central Govern.nent Offices

<u>https://servicedesk.nic.in</u> portal implemented for the issue related to email



#### Digital India Land Record Modernisation Programme(DILRMP)



# 10

#### DCLR Court Case Management

Out of 16139 cases, 5395 cases has been disposed using DCLR court case management system

# Bhu-Abhilekh

(For maintaining Chalu-Khatiyan) 1.30 Crore Holders, 4.4 Crore Plots 2

#### Online Jamabandi

(For Khatiyan data and Lagan Calculation)
3.91 Crore Records, 5.99 Crore Plot details
Services: Online Mutation, Lagan & LPC
using Digital Records of Register-II

#### 13

#### 9 Suo-Moto Mutation

Registration of Sale to trigger automatic updation of Ownership details. Total 65854 applications received for mutation till date.

#### **8** Bhu-Naksha

GIS Tool for generation of Land Parcel Maps (LPM) in ongoing Special Survey in Bihar. Till now digial map of 895 villages of 8 districts have been uploaded.

# Bhu-Manchitra

1.20 Lakh digitized Operational Maps at Mauza/Village level. (Around Rs. 20.78 Crores have been collected from 14.04 Lakh copies sold.)

# Management of Land Records using Digital Technologies

#### **Online Parimarjan**

Accepts applications from Citizens for necessary correction in Jamabandi Records. 20.30 Lacs applications received and 18.54 Lacs disposed.

5

# Online Land Possession Certificate

Needed by Citizens for obtaining a loan from the bank. Till date 4.25 lacs applications received and 4.17 Lacs disposed.

#### **Online Mutation**

(80.32 Lakh applications processed till date)

Built-in Multi-Factor Authentication for Extra Security.

#### 4

#### Online Lagan Collection

(OGRAS is the Payment Gateway)
A total of Rs. 203.74 Crore have
been collected so far and 20.63
Crore has been collected in
current financial year 2022-23

# e-PDS







1.83 Crore Ration card
8.82 Crore beneficiary





FPS Management implemented in the state.





50,002 Fair Price Shop using POS device





Approx. 92% families received food grains using Aadhaar Authentication





Implemented Supply Chain Management System across the State.





One Nation One Ration Card implemented in Bihar in June, 2020





Linked with the DigiLocker App





Linked with Ayushman Bharat Yojna







# लोक सेवाओं का अधिकार एवं अन्य सेवाएँ RTPS and Other Services

Service Plus eservice Delivery Framework



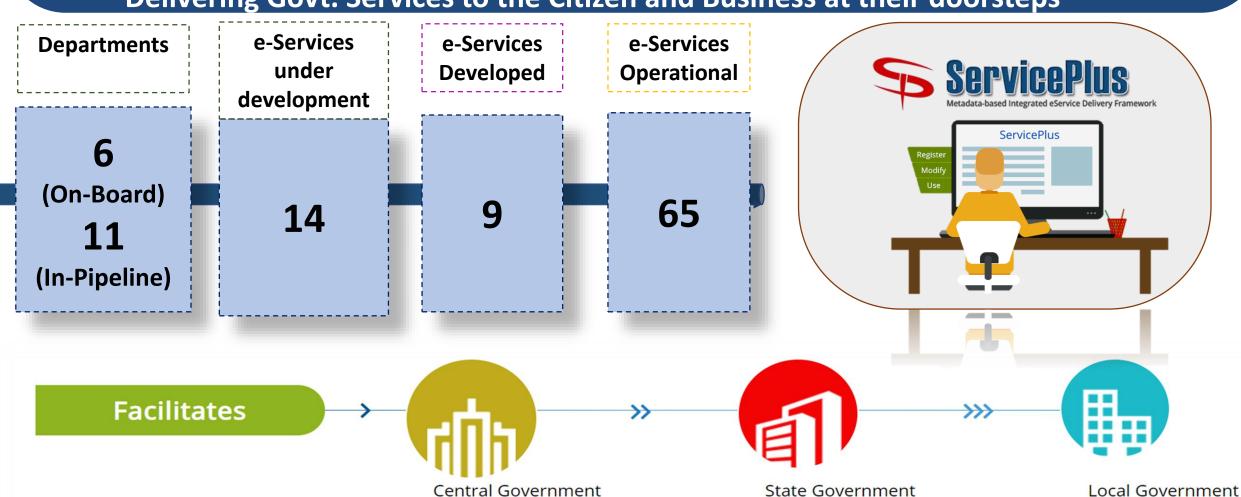


(e-District Mission Mode Project)

https://serviceonline.bihar.gov.in

https://serviceonline.bihar.gov.in/officials











#### लोक सेवाओं का अधिकार एवं अन्य सेवाएँ RTPS and Other Services (e-District Mission Mode Project)

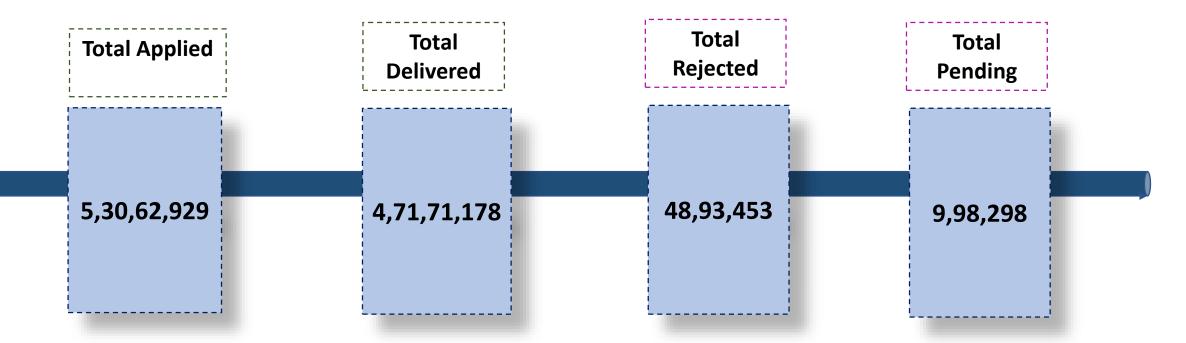
ServicePlus
eService Delivery Framework





# Delivering Govt. Services to the Citizen and Business at their doorsteps





<sup>\*</sup> Application Count of all services given above are since 2017 to May 31st 2022



# **Department of Environment, Forest & Climate Change**



# Forest Management Information System(FMIS)

### **Objectives:**

Forest management Information System is a micro-level approach of managing the forest plantations, nurseries, welfare schemes covered under Joint Forest Management, forest offences, wildlife activities, Human Resource Management System and Eco-Tourism Development in the state through ICT use of integrated web, GIS and mobile technologies.

# **Scope of Implementation:**

The project implementation covers all 8 circles, 28 divisions and 101 range offices of the department.





# **Mobile Apps for FMIS Project**







Mobil e Apps





#### **Key Features**

- ✓ Supports "Mission 5 crore Plantation for the year 2021 Site Registration, Plant Request & Plant Distribution Under the JalJeevan-Hariyali Campaign of Govt. of Bihar
- ✓ User friendly interface for public as well as govt. officials
- ✓ Real-time information of availability of species of plants
- ✓ Role Based Monitoring
- ✓ Available on Google Play Store

#### **Key Statistics**

- ✓ Total Registration –16193
- ✓ Total Plant Requested −16449019, Plant Distributed −8257541
- √ 10 K+ downloads

#### **Key Features**

- ✓ Real-time Monitoring of Forestry activities has helped to increase transparency
- ✓ Integrated platform for accessing various services of the department through a singleton app
- ✓ GIS integration provides geographical representation of schemes/activities/administrative boundaries on App
- Different types of reports can be viewed on a single click in Van App

#### **Key Statistics**

- ✓ User Registered 1206
- ✓ Registered Plantation Scheme-2300
- ✓ Registered Nursery Scheme-357
- Registered Others Scheme-258



# **Department of Environment, Forest & Climate Change**





# **Digital Library**





User Name	
User Name	
Password	
Password	
□ Remember me ?	

# **Key Features:**

- To store all the legacy data of the department as well as share it digitally.
- Role Based Access & Maintenance.
- User friendly interface for uploading files and folders.

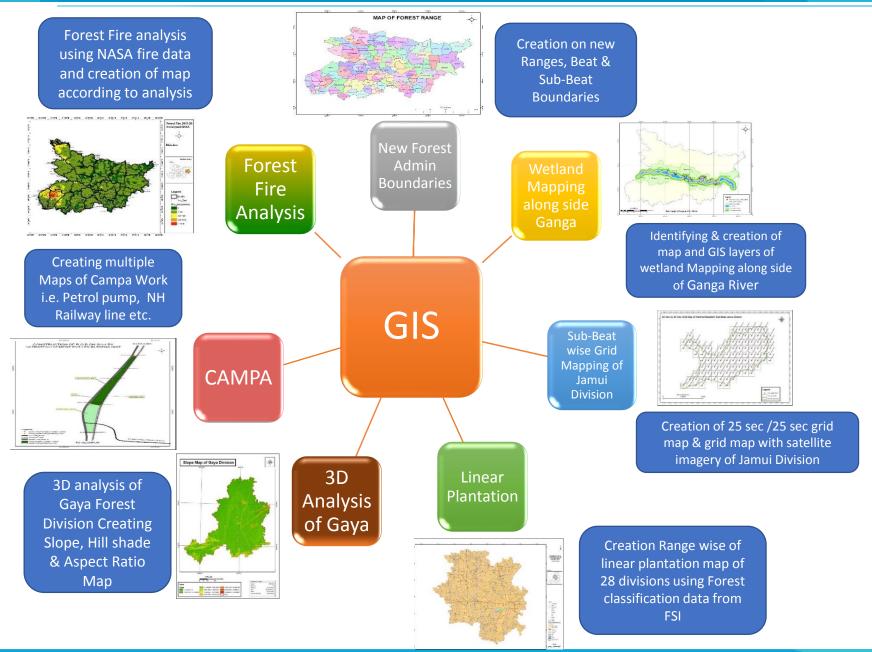
#### **Key Statistics:**

- Total No. of Stored files 1776
- HARIYALI-MISSION-86, DFO-8, CCF(IT)-1679
- CF(M&E) 3, APCCF(WP) 2



# **GIS for FMIS Project**







# Raj Bhawan (Governor Secretariat)



Promotion, Planning, Design, Development and Implementation of Computerization services of NIC/User Application Required to Raj Bhavan.

**Key Activities** 



ICT Support is provided by NIC to Raj Bhavan, Bihar.

- Video Conference Support is provided.
- Training for application running at Raj Bhavan
   , Bihar to Users.
- Technical Support for applications.
- Customization/Modification of applications.
- Monitoring of Applications.
- ICT Support during Visit of President of India and Vice President of India at Bihar.

# **Applications**

Raj Bhavan Website

Online Document
Distribution System

Garden Event Pass
Management System

eOffice

VC & Pro VC Recruitment Portal

Pay Roll System

Reporting System for Universities (UMIS)

University Law Search Portal

Android Application for UMIS



# **Court Informatics**



# Services provided to

Patna High Court

Central
Administrative
Tribunal

37 Districts & 42
Sub-Divisional
Courts

Legal Services (Lok Adalat)

Courts of Govt. Of Bihar Departments

- **≻**Board of Revenue
- > State Appellate Authority Education Department
- ➤ Real Estate Appellate Tribunal (REAT)
- > Patna Divisional Commissioner
- ➤ In 8 District Collector-cum-District Magistrate courts
- ➤ Motor Accident Claims Tribunal, Govt. of Bihar

#### Meetings

- **➤ With Hon'ble Judge and Administration of Patna High Court.**
- **→** With various Departments of Govt. of Bihar.

**Statistics** 

No. of Cases available - 2392137+

■ Disposed Cases - 2169165+ (includes 75473 cases through VC)

Pending Cases - 222972+

**E-Filed Cases - 180253+** 

Court Complexes 90

Registered Advocates on e-filing portal - 3572+

Challan Defaced - 1211+

Court Establishment 224

Judgments uploaded - 1194321+

Total Ld. Advocates in CIS- 7074+

SMS Sent - 1953360 +

No. of Courts **1352** 



# **Court Informatics**



# **Key Services**

Case Information System (CIS HC NC 1.0 and CIS NC 3.2)

Development of Periphery Modules & CIS Log reader

Real time Data Replication to NJDG

e-filing ,
ePayment & Challan Defacement

**Comprehensive Report Management** 

SMS, email services & Court through Web VC & Studio Based VC

Website Development, ICT Support, Training & Report Compilation.

Record Room File Management System

Central Administrative Tribunal, Patna

ICT support to Courts of Divisional Commissioner,
Collector-cum-District Magistrate, Tribunals of various
Departments of Govt. of Bihar

**ICJS for District Courts** 

**Other Activities** 



# **NIC Chief Secretary Cell**



Promotion, Planning, Design, Development and Implementation of Web Application and ICT services from CS Cell

#### **IMPLEMENTATION**

**14 Cadre Services**ebihPAR

**3 Bhawans** eBhawan

**38 Districts**CPGRAM-Bihar

BSS- 912, BSSS-258

Sewa-Itihas

**3610 Officers** ebihPAR

3231 Guest User and 10577 Applications eBhawan

**87 Companies Registered**eNBFC

**3 VC Studios**Video Conferencing

# Applications and ICT Services





**eNBFC** 





# Vikas Bhawan (New Secretariat)



# Project and Support extended through NIC Vikas Bhawan Cell







# Social Security Pensions

- Chief Minister's SC/ST/BC/EBC/Minority Hostel Grant schemes:
   Under this Scheme, Rs 1000.00 per month provided to each students staying in government hostels run by the SC/ST Welfare Department, BC & EBC and Minority Welfare Department.
- Financial Assistance to Muslim Talaqsuda Women:
   It provides one time Financial Assistance or Rs. 25,000 to Muslim Talaqsuda Women to make them self dependent
- Chief Minister's Civil Seva Grant Scheme for Scheduled Caste / Tribe & BC& EBC & Minority Students:

Under this Scheme, Students Qualifying BPSC PT get Rs. 50,000 and UPSC PT get Rs. 1,00,000 for further preparations. Qualified students apply with online applications and money get transferred to their account through PFMS.

 Annual Medical Assistance Scheme Labour Resource Department(LRD):

The un-organised registered labourers are being paid Rs. 3000 as Annual Medical Assistance through DBT.

#### Beneficiaries Served:

- ☐ Indira Gandhi Disability Pension: 1.25 lakh
- ☐ Bihar State Disability Pension: 8.50 lakh
- ☐ Indira Gandhi Old Age Pension: 45 lakh
- ☐ Indira Gandhi Widow Pension: 6.1 lakh
- ☐ Laxmi Bai Social Security Pension: 7.2 lakh
- ☐ Mukhyamantri Vridhjan Pensions: 23 lakh

**Total Monthly Disbursement: 370 Crore** 









# ICDS – Aanganwadi Services

• Integrated Child Development Services(ICDS) has been implemented in 544 Projects of 38 Districts of Bihar. There are 106367 Aanganwadi working in Bihar, in which 93460 Sevika and 78039 Sahayika is working. Honorarium of Aanganwadi Sevika and Sahayika directly goes into their respective account through Direct Beneficiary Transfer (DBT) using PFMS platform on monthly basis.

Total AWC - 106,367, Total Sevika - 93,460, Total Sahayika - 78,039 Total monthly payments through DBT — Rs. 100.02 Crore

- Poshahar 86 Lakhs Pregnant Women, Lactating Women, Children from 6
   Months to 6 Years
- Total monthly payments through DBT Rs. 134.30 Crore







# Fasal Sahayta Yojana – Cooperative Department

 Fasal Sahayta Yojana is an initiative of cooperative department for farmers. It is a Crop Assistance Programme in which Farmers are getting crop assistance based on losses calculated through crop cutting experiment conducted by Planning and Development

Payment done with State Co-operative Bank using Aadhaar Enabled Payment System: Crop Assistance for Paddy and Kharif Crops: Total farmers Registered 18,14,356.

Total transaction amount – 737.12 Cr



# Paddy and Wheat Procurement - Cooperative Department

- Paddy and Wheat Procurement is an initiative of Cooperative Department for assisting the farmers Income. Each year Govt. of Bihar purchases paddy / wheat from farmers to give minimum support price to farmers for their crops.
- Project is aimed to assist in smooth procurement of Paddy / Wheat from Farmers and give payment to farmers on time.

#### Paddy Procurement

Total farmers - 16,29,260 . Total transaction amount -1837.12 Cr

### Wheat procurement

Total farmers – 2,34,770

Total transaction amount — 336.85 Cr







# Umeed Asha Ki Kiran – Bihar State Aids Control Society

 Umeed Asha ki kiran(Mukhyamantri Shatabdi Aids pidit Yojana) is an initiative of Bihar State Aids Control Society to assist aids patients with a pension of Rs. 1500 monthly by Government of Bihar. This amount is for their nutrition in addition to the Medicines being provided through ART Centre.

Total Number Of Beneficiaries :- 30047

Total Amount Paid: 40.46 Cr.



# Ashwin– Asha Workers Performance & Incentive Portal

Ashwin Application(Asha Workers Performance and Incentives Portal) is an initiative of Health Department, Govt. of Bihar for the entry of Asha Workers daily and monthly activities and its verification at different levels such as Asha facilitator, BCM, ANM, HSC and MOIC etc. With the help of this portal the Asha workers will get their incentives through PFMS after the entry and verification of their daily activities.

Activities are divided into two Main Categories i.e.

- 1) Community
- 2) Institutional and 9 Sub Categories which are:
- Maternal health
- Family planning program
- Immunization/regular vaccination by Asha and other voluntary workers
- Child health
- RKSK Program
- Asha Program
- NPCDCS Program
- National Program
- AB-PMJAY Program







# MedhaSoft – Education Department

- The Medhasoft welfare programme is an initiative of the Education Department with an objective to create a
  centralized students portal of all the Government and Government aided schools.
- It has integrated the entire Direct benefit transfer schemes for students like Mukhyamantri Cycle yojna,
   Mukhyamantri scholarship program etc. with e-Labharthi Platform. Fund directly get transferred to their account through PFMS.
- Schemes being served are:
  - Mukhayamantri Balak Poshak Yojna APL(Class 1-8)
  - Mukhyamantri Balika Poshak Yojna (Class 1-8)
  - Mukhayamantri Balak Poshak Yojna SC/ST/BPL (Class 1-8)
  - Mukhayamantri Balika Poshak Yojna (Class 9-12)
  - Mukhyamantri Balika Cycle Yojna (Class 9-12)
  - Mukhyamantri Balak Cycle Yojna(Class 9-12)
  - Kishori Swasthya Yojna
  - Scholarship General (Class 1-8)
  - Mid Day Meal Programme
  - Payment for Text Book (Class 1-8)
  - Scholarship BC/EBC
  - Scholarship General
  - Scholarship SC/ST
- Total No. of Student: 1.82 Crore
- Total Amount Disbursed: 3.100 Crore

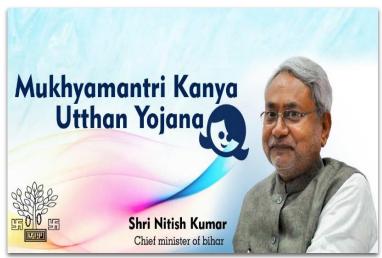






# Mukhyamantri Kanya Utthan Yojana

- Mukhyamantri kanya Utthan Yojana is a joint initiative of Social Welfare
  Department, Education Department and Health Department for girls in
  Bihar. The primary objective of the project is to eliminate child mortality
  rate, female feticide and child marriage cases in society. It aims to empower
  girls and inspire them towards education.
- The scheme provides them financial help right from their birth till they get graduated through which they may get a better life. The Government has made the scheme available to all girls of Bihar state without any discrimination. An online portal has been developed for ensuring registration of beneficiary at all the levels of the scheme and amount get transferred to their account through DBT



S.no	Stages/Condition	Amount Details
1	On the birth Of a child	Rs. 2000
2	After Attains One year	Rs. 1000
3	Immunization	Rs. 2000
4	Class one admission	Rs. 600
5	Between 3 <sup>rd</sup> to 5 <sup>th</sup> std	Rs. 700
6	Between 6 <sup>th</sup> to 8 <sup>th</sup> std	Rs. 1000
7	Between 9 <sup>th</sup> to 12th	Rs. 1500
8	On Passing 10 <sup>th</sup>	Rs. 10000
9	On Passing 12th	Rs. 10000
10	After completion of graduation	Rs. 25000





# Aapda Sampoorti – Disaster Management Department

- The objective of the **Aapda Sampoorthi** project is to strengthen institutional capacity of the Disaster Management Department of Govt. of Bihar to deliver disaster related services and expand outreach of citizen care services for poor and vulnerable households, farmers in the state. The portal has been developed to build a safe and disaster-resilient Bihar by developing a holistic, proactive, multi-disaster and technology-driven strategy for Disaster Management. This has been achieved through a culture of prevention, mitigation and preparedness. The entire process and portal is the center-stage of the community and provides momentum and sustenance through the collective efforts of all government agencies and Non-Governmental Organization. The state of Bihar, due to its geographical and topographical situation, is highly prone to several natural and man-made hazards.
- Gratuitous Relief (GR) Payment for Flood Relief:

Under this scheme Rs. 6000 is being paid to all the families whose panchayats have been declared Flood Affected. Separate Assistance is also being given for House & Cattle Shed Damages.

**Total Number Of Beneficiaries :- 28+ lakhs Total Amount Disbursed :- 1723.76 Cr** 

Tatkal Sahayata Scheme for Drought Victims:

Under this scheme Rs. 3000 is being paid to all the families whose panchayats have been declared Severe Drought Affected.

**Total Number Of Beneficiaries :- 732443 Total Amount Disbursed :- 223.76 Cr** 





# **GIS** based Solutions



# GIS Layers as Service

GIS Project for Rural Roads -Rural Works Department,
 Govt. of Bihar:

With the objective of providing rural connectivity, Government of India had launched the Pradhan Mantri Gram Sadak Yojana (referred as PMGSY-I hereinafter) on 25<sup>th</sup> December, 2000 to provide all-weather access to eligible unconnected habitations as a strategy for poverty alleviation. However, a dire need to consolidate rural roads network by upgradation of selected Through Routes and some Major Rural Links (MRLs) was felt and accordingly a new intervention has been evolved namely PMGSY-II and then later with name PMGSY-III.

PMGSY –III is focusing on creation of DRRP road map and trace map and its verification and linking OMMAS with GIS.

- Road Layers under Core Network (OMMAS Online Management, Monitoring and Accounting System):
  - ■Spatial Adjustment and updating of Drainage System of Bihar.
  - ■Bridge and Culvert layers
  - Rural Market Layers
- GIS project Road asset Management system (IGram):
   IGram is an initiative of Road Construction Department, Govt. of Bihar launched with an objective of Updating and digitization of NH, SH and MDR roads according to new status.

# Nischay Soft

The Panchayat **Nischaysoft** Portal is a workflow based Software to manage to end to end processes involved in following flagship programme of Bihar Government under 7 Nischay:

- Mukhyamantri Gramin Peyjal Nishchay Yojana:
   The mandate of this scheme is to provide potable (safe drinking) water facilities in rural wards of Gram Panchayats in the State.
- Mukhyamantri Gramin Gali-Nali Nishchay Yojana:
   The mandate of this scheme is to provide all weather connectivity and drainage facilities in all rural wards of Gram Panchayats in the state.





# **GIS based Solutions**



# Jal Jeevan Hariyali

- **Jal Jeevan Hariyali** Mission is an initiative of Government of Bihar to address the problem of Climate Change by restrengthening our environment.
- This massive water conservation scheme "Jal-Jeevan-Hariyali" is spanning over 7 line departments of the government.
- All the water sources such as Well; Pond, Ahar, Pyne, Canal etc are being mapped along with various schemes to renovate/recharge these water bodies.
- A mobile application for identification, mapping, verification and inspection of renovation has been developed and launched by Chief Minister Bihar.



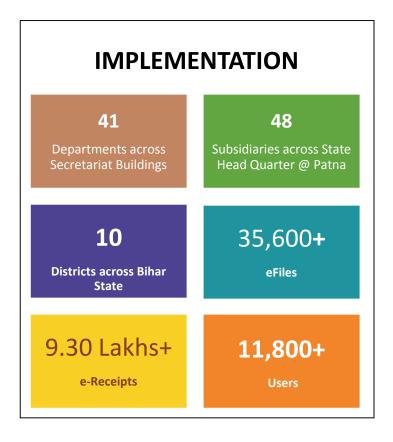




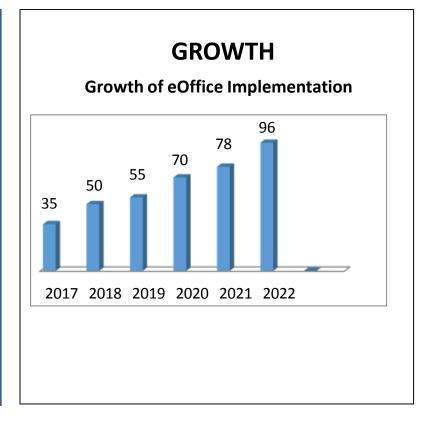




# Provides simplified, responsive, effective and transparent working in Government offices for Inter-Government and Intra-Government transactions and processes



- Open Architecture makes it a reusable product amenable to replication across the Governments, at the Central, State and District levels and also at International level
- Eliminates the delays on account of manual handling of files and papers and to take informed and quicker decisions





## Weights & Measurements Management Information System(WeMMIS)





- Payment through online OGRAS portal
- Digitally-Signed Certificate
- Grievance redressal system
- Web portal (<a href="https://maaptaul.bih.nic.in">https://maaptaul.bih.nic.in</a>)
- Web Application(<a href="https://wemmmis.bih.nic.in">https://wemmmis.bih.nic.in</a>)

#### **IMPLEMENTATION**

48066

verification certificates have been issued.

12

Renewal Licenses have been issued to dealers.

320

Lab Passing VC issued to dealer.

₹ 4.98 crore

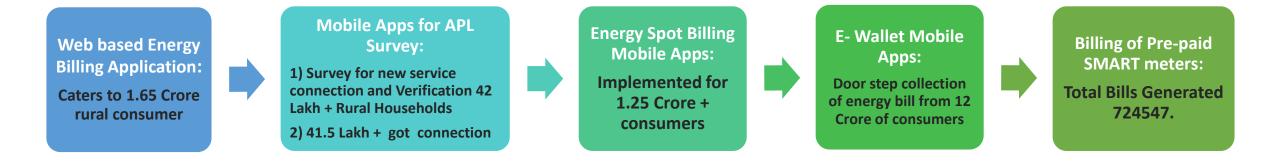
has been collected in year 2021.

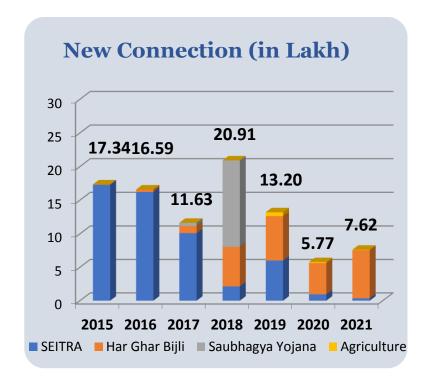
- Verification and Stamping of Weights and Measures Instruments.
  - Issuance of Licence of manufacturer of weights and Measures Instruments.
    - 3 Issuance of Licence of Dealer of Weights and Measures Instruments.
    - Issuance of Licence of Repairer of Weights and Measures Instruments.
    - Renewal Of Licence Of Manufacturer of Weights and Measures Instruments.
  - Renewal Of Licence Of Dealer of Weights and Measures Instruments.
- Renewal Of Licence Of Repairer of Weights and Measures Instruments.
- 8 Registration of Manufacturer / Importer of Package Commodities

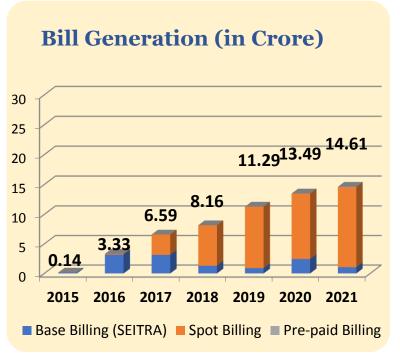


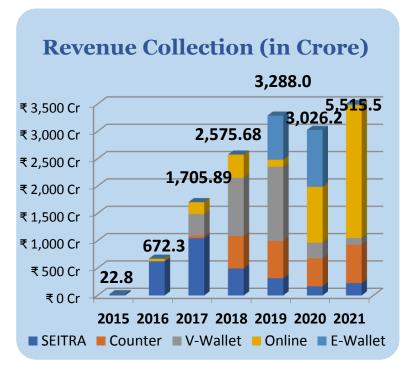
## Smart Energy Infrastructure & Revenue Administration - BIHAR













## **E-Prisons**



## **Digital Innovation in Correctional Homes**

Central Jails

District Jails

Prisons
On-boarded

Inmates Inside

Bihar is top in India in terms of total virtual visits with 155019 in the year 2021.

Online and Offiline physical eMulakat has been started on 16.11.2021.

State level workshop has been organized on ePrisons and ICJS from 08.03.2022 to 09.03.2022 at BICA, Hajipur

21 K+

Prisoner Admission In May '2022 74 K+

eMulakat (Virtual and Physical Visits) In May' 2022

Video Conferencing

Facility for Courts and Family



Role based Dashboards

**Key Features** 





## e-Kamaan Services



#### **Home Guard**

Entry & Update with OTP, Roster Registration through Missed Call, SMS Alert, Kamaan Generate, Attendance, Payment.

### **Roster Registration & Alerts**



Missed Call: 01122901702 and got Online with OTP.



Roster Registration by IVR Technology , and Confirmation SMS sent to HG Mobile and Check validity by their registered Mobile

Use some business logic like priority given to those HG who will retire within 2months, trained and already perform short period duty for making roaster.



Roster Current Position Status as per miss call given by Home guard.

## **Type of Kamaan & Generation**



#### **ATTENDANCE**

- ❖ PAYMENT MODE
- \* NON PAYMENT MODE

#### **PAYMENT & VOUCHER**

- CREATE VOUCHER FOR PAYMENT & NON PAYMENT MODE.
- PRINT VOUCHER FOR PAYMENT & NON PAYMENT MODE.
- ❖ PRINT SCROLL FOR PAYMENT & NON PAYMENT MODE.



## **CHANAKYA**



**Chanakya** is a web enabled application for computerization of

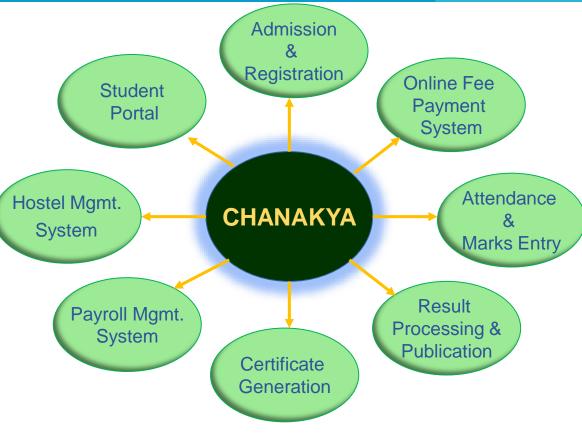
all the pre & post examination activities of universities/institutions

along with Payroll and Pension management, Fee Management & Hostel Management system

Chanakya project is also under the process of implementation at:

➤BIT Sindri, Jharkhand and IGIMS, Patna, Bihar Telephonic discussion held with Patna University and NMCH, Patna for process

of implementation of Chanakya software.



#### Implemented and Running at



NIT Patna



NIT Durgapur



BASU Patna



MMHA & PU Patna



KSDSU Darbhanga



NNM Nalanda



MMBU Agartala



## **OFMAS**



### **Online Farm Mechanization Application Software**

(Solution for Disbursement of Input Subsidy on Farm Machinery)

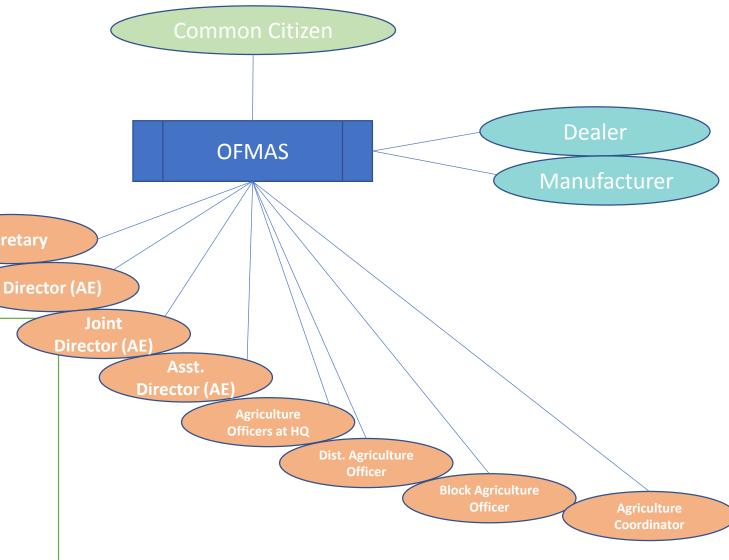
### **Key Activities**

- ✓ Providing Subsidy
- ✓ by Agriculture department
- ✓ to farmers
- ✓ on purchase of approved farm equipments from designated dealers.

## **Secretary**

## **Other Scheme Running through OFMAS**

- ❖ Krishi Kalyan Abhyan Phase-3 (KKA-3)
- ❖ Agriculture Machinery Training Yojana (AMT)
- ❖ Submission on Agricultural Mechanization (SMAM)
- ❖ SMAM- Special Custom Hiring Center (for groups only)





## **OFMAS**



## **Online Farm Mechanization Application Software**

(Solution for Disbursement of Input Subsidy on Farm Machinery)

Application submission by Farmer for purchase of farming machine

Online document verification at multiple level of Agriculture Officers Permit generation by Asst. Director (Agriculture Engineering)

Supply of machinery by dealer

Physical verification of machinery by Agriculture coordinator Payment of subsidy to beneficiary



## OFMAS Transactions in Financial Year (2020-21)



48695

23707

11452

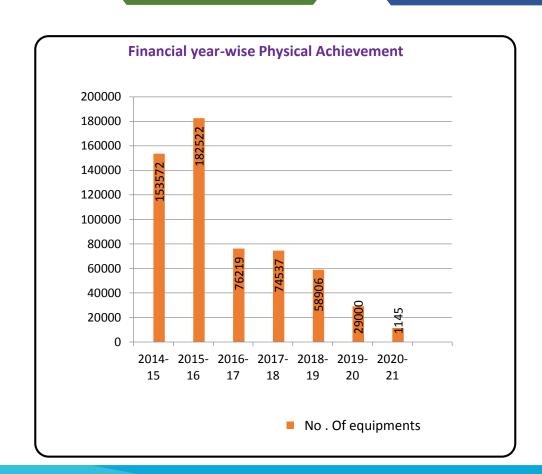
₹ 2445.7 Lakh

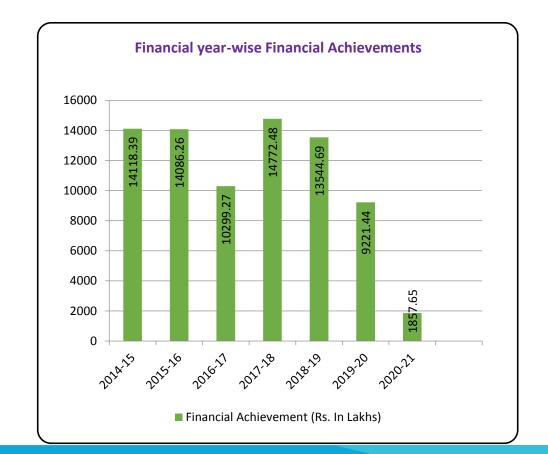
Farmers applied through OFMAS for purchase of farm machinery

Permit generated to purchase of machinery

Farm equipments purchased by farmers under the scheme

Subsidy given to farmer 2020-21







## **OFMAS**



### Transactional status under different schemes through OFMAS (Financial Year 2021-22)

- ❖ Agriculture Machinery Training Yojana (AMT)
  - ✓ Application Received : 1508
  - ✓ Training Approved : 390
- Krishi Kalyan Abhiyan Phase-3 (KKA-3)
  - ✓ Application Received : 552
  - ✓ Permit Generated : 319
  - ✓ Subsidy Disbursed: 5
- ❖Submission on Agricultural Mechanization (SMAM)
  - ✓ Application Received : 47070
  - ✓ Permit Generated: 18872
  - ✓ Machine supplied by Dealer: 7744
  - ✓ Physical Verification by AC: 6477
  - ✓ Subsidy Disbursed: 580
- SMAM- Special Custom Hiring Center (for groups only)
  - ✓ Application Received : 234
  - ✓ Permit Generated : 23

Financial Target Achieved ₹ 4.18 Crore



## **Dharmik Nyas Parshad**







## बिहार हिन्दू धार्मिक न्यास पर्षद विधि विभाग, बिहार





### **Key Activities**

- ✓ Portal to render a separate website for each registered Mandir / Math / Dharmshala / KabirPanth / etc in the Bihar State
- ✓ Designated web site for each Dharmik Sanstha will show its

images, address, Mahant's details, property details along with encroachment, illegal transfer, etc., and many more.



Status:- Under Development



## Panchayati Raj



### **Providing Support in following Application of Panchayati Raj**

**National Asset Directory** 

**National Panchayat Portal** 

Training Management Portal

**Area Profiler** 

**Audit Online** 

**PRIASoft** 

ActionSoft

**Plan Plus** 





## **Objective** – Tracking Registration of Eligible Couple PW and Children

## **Key component of RCH**

Due to changing data requirement of National Reproductive and Child Health Program implemented name based Reproductive and Child Health Software and Anmol Mobile App in 534 PHC of Bihar for tracking and registration of eligible couple to know what method they are using for family planning, registration of pregnant women's to timely provide all the services during their 4-ANC period , delivery period and 42-days PNC period, registration of new born children for fully immunization during 0-2 years so the family implement planning program effectively, reduce Maternal Mortality Ratio, Infant Mortality Rate, Total Fertility Rate and implementation of fully immunization of infant (0-11 months) and children (1-2 year)

### **Key Features of RCH**

- Tracking and Registration of Eligible
   Couple, Pregnant Women's and New born
   Children
- PHC wise Monthly work-plan generated for taking EC to know what method she is using for family planning PW to provide due ANC services and and new born children to Immunization for 0-2 year
- Anmol Mobile App implemented for more than 4000 ANM for real time registration and provide services for Health Sub Center

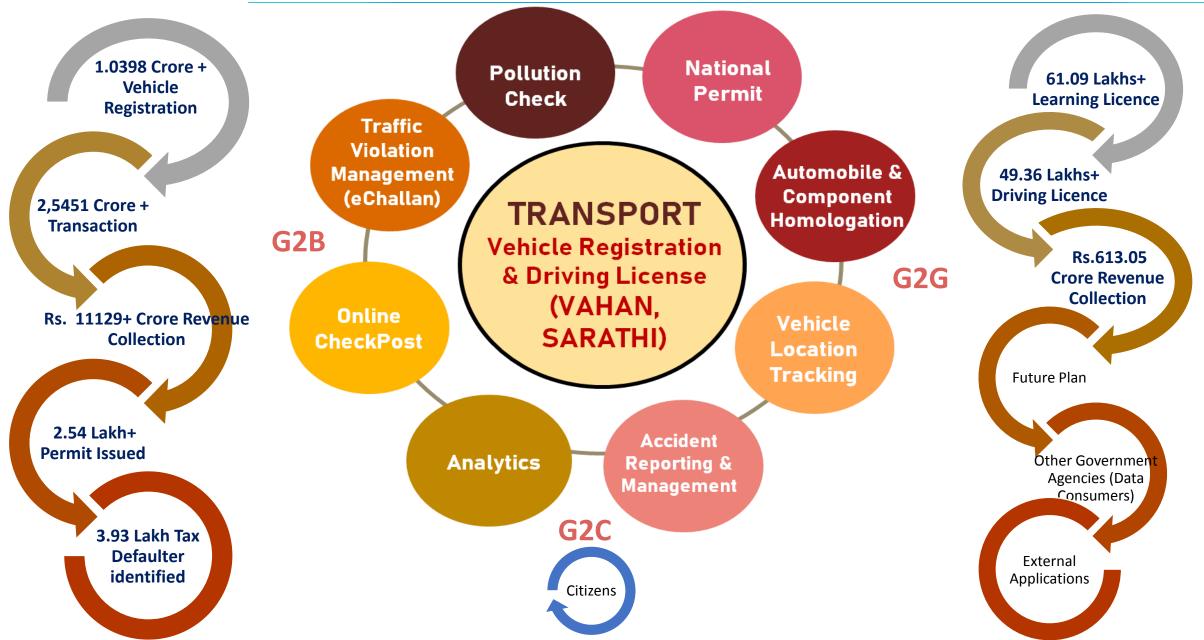
## **Adaption Status**

- Eligible couple Registration in Reporting Month **32208**
- Pregnant Women's Registration in Reporting Month **29197**
- Children Registration in Reporting Month **25063**
- Eligible Couple cumulative since implementation **17089907**
- Pregnant Women's cumulative in FY
  2022-23 47165
  Children cumulative since
  implementation 2022-23 18444



## **eTRANSPORT MMP: PUBLIC DIGITAL PLATFORM**







## eCHALLAN: TRAFFIC VIOLATION MANAGEMENT SOLUTION



#### **BIHAR**

(Figures for May, 2022)

55,882 eChallans

Rs. 23.4 Crores
Penalty Collection

1,099
Vehicles Impounded/
Released

11,000 +
CCTV based noticed issued

1 Automatic calculation of penalty amount, based on challan category.

**2** Geo-tagging of Challan spot.

Multiple challaning modes - PoS, CCTV (RLVD, OSVD, etc.), Laser Speed Gun, Violation Over Camera App, etc.

Back-end data is fetched from Vahan/Sarathi, ensuring efficient and error free operation.



## POLLUTION UNDER CONTROL CERTIFICATE



Centralized application for vehicular emission testing

Standardized testing and certification process

Ensures compliance, better data consistency



1.47 Lacs+ PUCC Issued in May, 2022

28 Manufacturers, 61 Device Models

3000+ PUCC Centres
Operational

**Implemented in Bihar** 

<sup>\*</sup>Based on smoke parameter (captured through API provided by the manufacturer), vehicle number plate (through Webcam). **PUCC is issued**, if measured pollution emission value is as per norms.









Monitor and Track Public Vehicles



GPS-based tracking devices to be fitted in Vehicles



Provision to send Panic alert and activate Emergency Response



Command
Control Centre
set up
for Monitoring



## **KEY HIGHLIGHTS**

## **Integrated Ecosystem**

VLTD Manufacturers, Test Agencies, Retro fitment centers (RFCs), State Admins & RTOs



### **SOS Feature:**

Pressing of Panic Button triggers emergency response procedure to support passenger in distress

Fitting of VLTD Kits
, Uploading of
VLTD data

Retro Fitment Centres,
Manufacturers

74 Vehicle Registered on this protal



### **IRAD (INTEGRATED ROAD ACCIDENT DATABASE)**



Developed under the guidance of MoRTH to work in the direction of enhancing Road Safety.

Facilitates a Centralized
Accident Database for
hosting all the accident
data, updated/ accessed
through customized
interfaces for the various
actors/ stakeholders

#### **Data Sources**

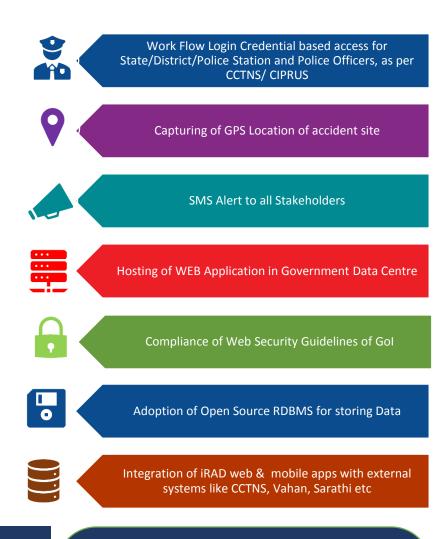
Police Department, Health Department, Transport Department, Highways/ NHAI, Citizen

#### **Data Consumers**

MoRTH, Police
Department, Transport
Department, Health
Department, Highways,
Insurance



**IRAD FIELD APP** 



Alignment Meetings followed by 1,467 odd Training Programs have been completed in Bihar for the benefit of 7,330 members of all the Stake-Holders.

One SRM and 38 DRMs already deployed across Bihar. iRAD Project achieved LIVE status on 13<sup>th</sup> January, 2022 in Bihar State.

3,320+ live accident data has been captured by iRAD application from Bihar with the help of 38 DRMs. Usage is expected to increase with time.



# Bihar Combined Entrance Competitive Examination Board (BCECEB), Bihar 2021-22



Counseling for different professional Courses running under BCECEB, Bihar (Choice Filling, Seat Allotment, Document Verification & Admission at PI Centre)

## **Key Activities**

Choice Filling, Seat Matrix Verification, Seat Allotment, Result Preparation, Document Verification for different courses as below:

- Post Graduate Medical Admission Counselling(PGMAC).
- Under Graduate Medical Admission Counseling (UGMAC).
- Under Graduate Engineering Admission Counseling(UGEAC).
- BCECEB Lateral Entry(LE) Engineering.
- DCECE Polytechnic (DCECE(PE)).
- BCECE (Agriculture).
- BCECE(PCM/PCB),(Phy, Chem, Math/Phy,Chem,Bio)
- DCECE(PM/PMM) (Para Medical /Paramedical Metric).
- ITI and DCDCE(LE).

## **Different Activities**

SRS Preparation for all

Project Proposal Preparation.

courses

Seat Allotment (1st-3rd round)

Choice Filling

UAT signed by Users

Result preparation, it's Publication for downloading.

Seat Matrix verification

Reporting & Doc. Verification at PI

Eligible candidate may take admission or he may opt for up-gradation and opt for 2<sup>nd</sup> Round Seat Allotment.



## **eCounseling**



## ❖UGMAC-(AYUSH) 2021 (Round-1)

- ✓ No. of Institutes: 21
- ✓ No. of available courses: 3
- ✓ Candidate Participated: 2042
- ✓ Average Choice per Candidate: Unlimited
- ✓ Total Seat Allotted in 1<sup>st</sup> Round: 814 out of 1121 seats



## Immigration Visa and Foreigner's Registration & Tracking



#### **State Home Department - Bihar**

Immigration Check Posts
Gaya Airport, Raxaul and Jogbani

**Special Branch - Bihar** 

Foreigners Registration Offices (FROs)-40





#### 100%

Automation of Visa Services



#### **45 Crores**

Immigration Control System handling Foreigners movement at Indian ports



#### 30 minutes

Time taken for clearance of passenger aircraft



#### 1-2 minutes

Average time taken for passenger clearance at ICPs reduced to 1-2 minutes

Registration of foreigners and automated updation of the particulars at touch points

Improved tracking of foreigners by near real-time information sharing with security agencies Travellers authentication at various touch points through intelligent document scanners and biometrics

Passenger profiling to identify risky travellers and generation of automated alerts

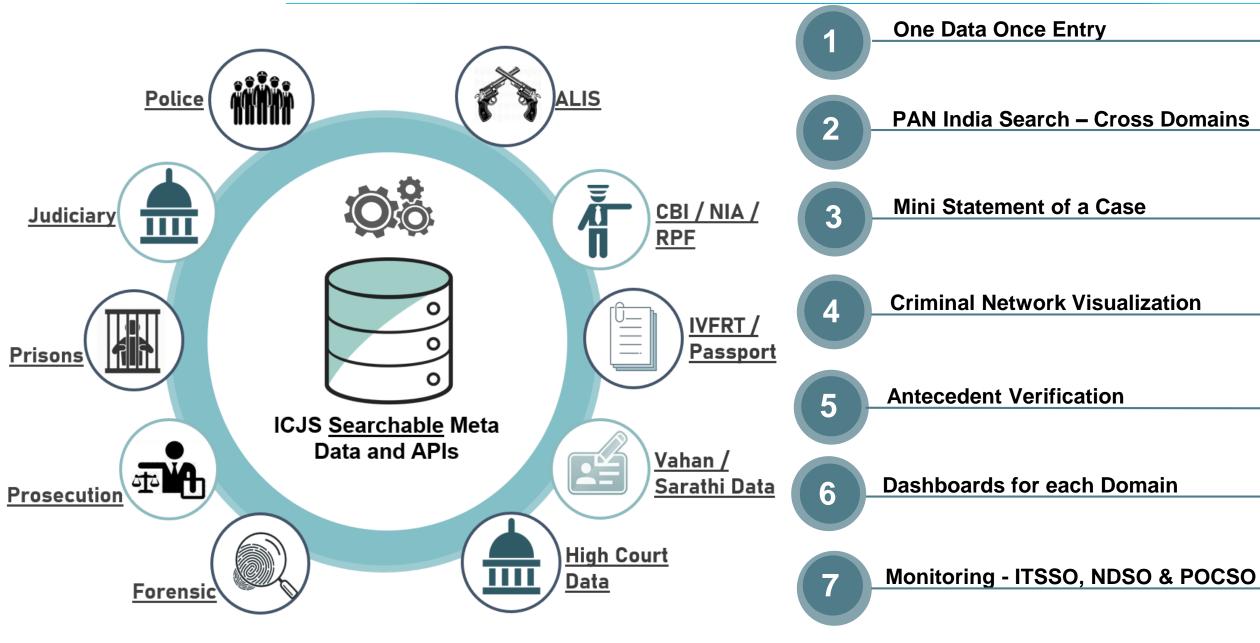
Centralized system for sharing of information across all concerned stake holders

Facilitating traveller by easing out visa and immigration regime such as e-visa, e-medical, e-business etc.



## **Interoperable Criminal Justice System (ICJS)**







## Jeevan Pramaan



## **Digital life certificate for pensioners**

State Govt. of
Bihar
On boarded
(All 75 Treasuries)

I have submitted my
Digital Life
Certificate on Jeevan
Pramaan

Bihar State Power Holding Company Limited along with their 4 subsidiaries On boarded

Support to Central Govt. offices of Bihar



Implementation
Support to
offices of Bihar
State Govt.



## **ELECTION SUIT**





## **EPMIS**

Election Personnel
Management Information
System(EPMIS)
application is for
deployment of Polling
Personnel on booth
through randomization
process during Election.



## FORCE DEPLOYMENT

Deployment Force for application movement and deployment of State Forces(DAP, SAP etc) and Homeguards on booths/booth buildings randomization through process during Election.



## VTR & PRAPATRA-17A

This application is used for Scrutiny of polled votes on poll day.



## **ELE-TRACES**

This application(Web App & Mobile App) is used for tracking of Magistrates and Forces movement in Poll day.



## **E-Counting**

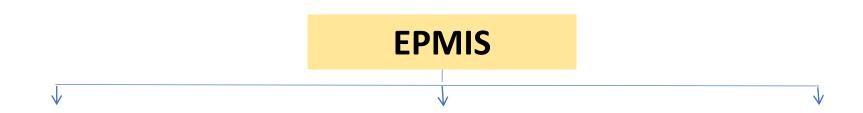
This application is for real time votes counting monitoring system.



## **ELECTION SUIT**



PACS (Primary Agriculture Cooperative Societies) Bye Election – 2022 is being conducted for different PACS district wise by Bihar State Election Authority, Government of Bihar using EPMIS Election Suit. Required customization has been done in web based Election Personnel Management Information System (EPMIS) under Election Suit as per the required criteria of Bihar State Election Authority, Government of Bihar for polling personnel deployment on booths.



**Polling Party Formation** 

Patrolling Magistrate Party Formation

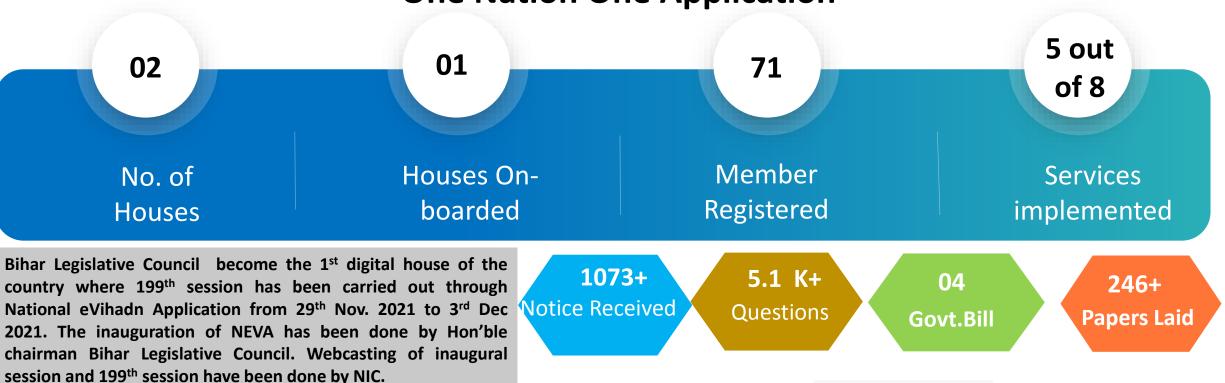
**Counting Officer Party Formation** 

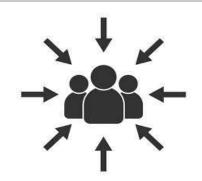


## National eVidhan Application (NEVA)









**Device Neutral Member centric** 

**Key Features** 



Webcasting Facility for house during session



## **GST Prime**





## An online system for processing of back-end activities related to GST system

Helps the tax administrators to analyze and monitor the tax collection and compliance within their jurisdiction

Provides analyzed and actionable reports and helps to enforce GST in a more efficient and effective manner.

Various tax analysis charts are available for the higher administrations to take informed decisions on deployment of resources, analysis on how much and what type of taxes are collected and many more

Role based access in near real time through simple and user friendly interfaces for all the officers of different levels

Monitors and Ensures GST Compliance

Detection of Tax
Evasions and
Frauds

Registration
Statistics – 575174

Increase in Tax collection

Real Time Data Analytics

Regular Tax Payer
– 467598



# NATIONAL TRACKING SYSTEM for MISSING & VULNERABLE CHILDREN



**Objective** – TrackChild project is to facilitate the matching of 'missing' children being reported at police stations with those 'found' children who are residing in the Child Care Institutions (CCIs).

## **Key component of TrackChild**

 The TrackChild software has been developed for tracking missing children their and ultimate repatriation and rehabilitation. The TrackChild portal is dedicated to the cause of tracking missing and vulnerable children. Trackless children may be reintegrate with their families by active participation of citizens using inform a missing or inform a sighting features.

## **Key Features of TrackChild**

- •Child Profile
- Search / Match for missing / foundChildren
- •Check the status of missing or found Child
- Alerts
- •Integration between CCI, CWC & Police Department
- Tracking of every child
- •Online match of found children with missing children
- MIS Reports

## **Adaption Status**

Children Missing -37
Children Recovered - 0
Matched Out of Missing -0
Still Missing - 37
Match Out of Recover -0
Recovered but Family Untraced -0



## **Mobile Applications**



Mobile applications for different e-Governance application is being developed and hosted at play store from DGRC, Patna. Some of them are:

गल / गली- नाली पवकीकरण) वि
Transaction -
LINEWARD - OFFICE AND
0 * * * * * * *
4444

Mobile App	Description	Sectors/Domains	
Bharat Ke Veer	App to contribute for Bravehearts who laid down lives in the line of duty.	Home Affairs & Enforcement	
<u>Janta Ke Darbar me</u> <u>Mukhyamantri</u>	App has been developed for the CM office, it provides convenient to the applicants who wants to appear in the CM's Janta Darbar with their grievances.	Chief Minister Office	
Aangan Bihar	Inspection and Monitoring of Aanganwadi Centres.	Social Development	
SBM Urban	Inspection App for Swachh Bharat Mission to help implementation in Bihar.	Social Development	
<u>Aangan Sevika</u>	Mobile App to assist Aanganwadi Sevika and Sahayika to capture GPS point of their respective Aanganwadi Center and also to create monthly expenditure vouchers.	Rural	
<u>eLabharthi Bihar</u>	Helps beneficiaries being covered under various social security schemes to view their status regarding transfer of benefits	Social Development	
ePACS Bihar Grains	Helps PACS/Vyapar Mandals in procurement of Paddy from Farmers to ensure MSP.	Social Development	
<u>ePACS Bihar Payment</u>	Used by Co-operative Banks for payment to PACS/VMs based paddy procurement figures.	Rural	
<u>Disaster Management</u>	Helps in capturing the damages to households from a Disaster	Rural	
<u>e-Chapakal</u>	This app is for monitoring of Chapakal Yojna for each Village of Public Health Engineering Department of Govt. Of Bihar	Rural	
<u>ePACSInspection</u>	This app is used for Inspections of PACS by Govt. of Bihar across the state. In this app Inspection details are collected and updated to server	Rural	
<u>e-Peyjal</u>	This app is for pipe water supply monitoring for Public Health Engineering Department of Govt. of Bihar	Rural	
LSBM INSPECTION	This application is developed for surveying toilet data to all below poverty line families in rural area of Bihar for building household toilets.	Rural	
SBM Jeevika	Application is all about registering all below poverty line families in rural area for proving household toilets.	Rural	

जल-जीवन-हरियाली नागरिव	)
मोबाईल नम्बर पश्चवर्ड	
लॉग इन करे	
पासवर्ज प्राप्त वर्ने	रजिस्टर करें
हैव कर कर्जन <u>2.8</u>	
Services provided by: NIC	Other



## **Mobile Applications**



Mobile applications for different e-Governance application is being developed and hosted at play store from DGRC, Patna. Some of

them are:



Mobile App	Description	Sectors/Domains
<u>BCD</u>	This app is developed for inspection of building under Scheme wise.	Housing
<u>e-Niwas</u>	This app has been developed to inspection of Vacant & allotted flat under e-Niwas with Geo-tag image. Department -Environment & Forest	Housing
<u>eGoatry</u>	This app is developed for JEEViKA, Bihar. Through this application we can know the exact number of beneficiaries and outreach of the project.	Rural
Fire Services	This app is used to capture Fire service building and its lat lang.	Rural
e-Anudan Yojana (Kabir Anteyeshti)	In case of death of a member belonging to below poverty line (BPL) family, financial assistance is provided by Social welfare department for	Rural
Health Facility Locator	The Health Facility Locator app is Geotagged based application for the departmental use. This application is develop for health department to	Health & Family welfare
Ward Border Mapping	This app is for taking latitude and longitude values of the ward of different Panchayat of each and every Blocks of BIHAR.	Rural
Bihar Swasthya saathi	Health supervisors of each district can update the COVID patient's daily health report through this portal	Social Development
Krishi Jal	The aim of the project is "Water to every field". A plot wise survey related to presently available irrigation facility will be done to ensure no field will be deprived of irrigation.	Rural
Sharam sadhan	Migrant labours of Bihar can search for jobs in their district as per their skills and qualifications	Social Development
Ele-traces	For tracking the movements of officers carrying EVM at the time of Elections	Election Commission
Ashwin Application	This app is an initiative of health department for the entry and verification of Asha's daily and monthly activity at different levels of users such as Asha, BCM, ANM, HSC, Facilitator, BHM and MOIC etc.	Health & Family welfare
E-Niwas App	E-Niwas app is an initiative of Building construction Department for the new entries and modifications in asset records such as empty quarter, lands etc.	Housing

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# NATIONAL INFORMATICS CENTRE

Driving Digital Transformation in Government