





# NATIONAL INFORMATICS CENTRE Bihar State Centre

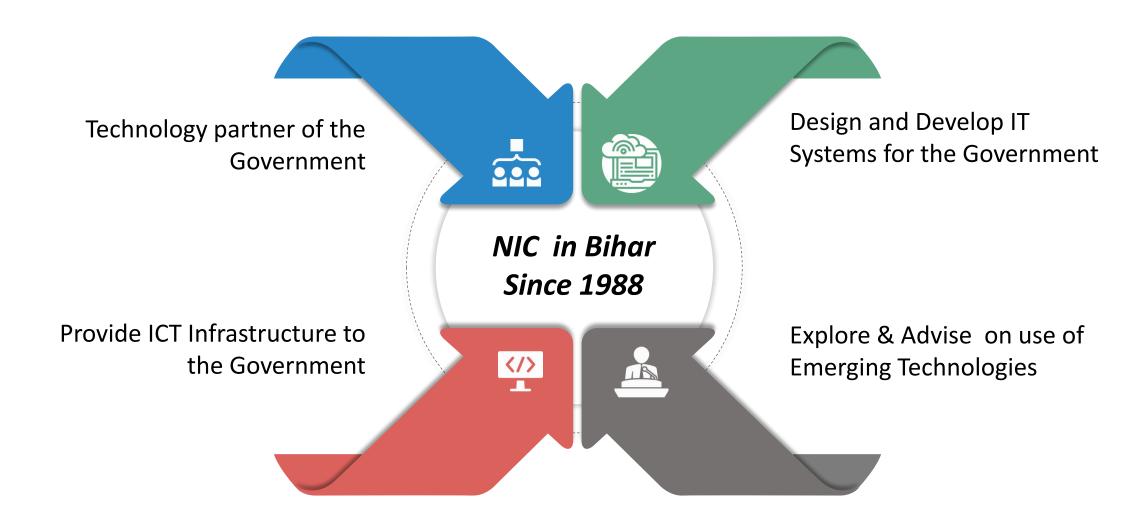






## **NIC Mandate**

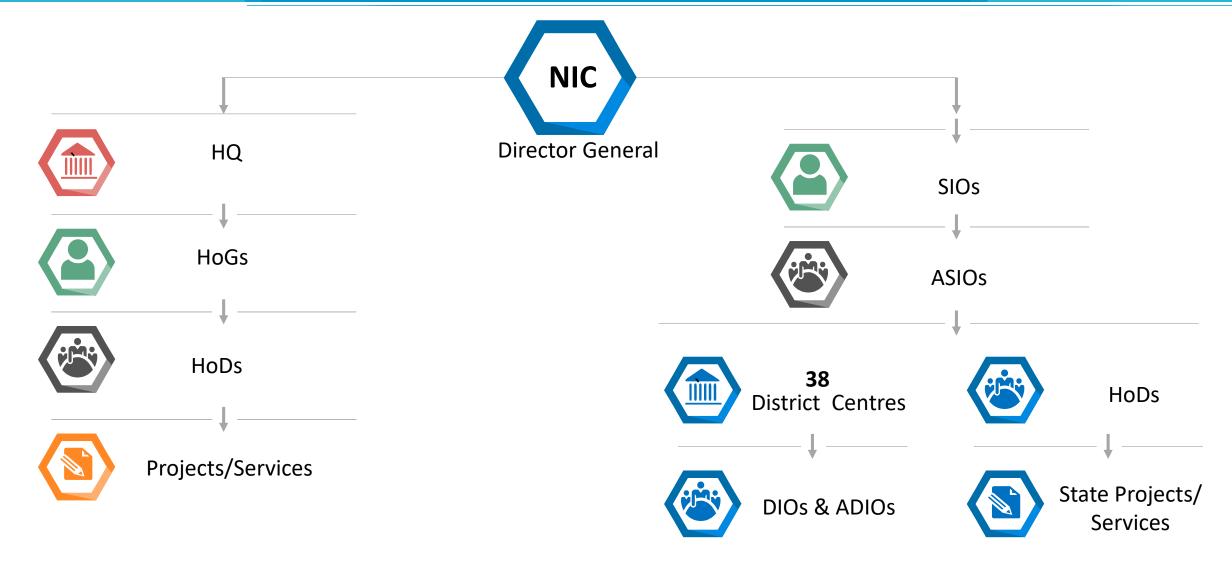






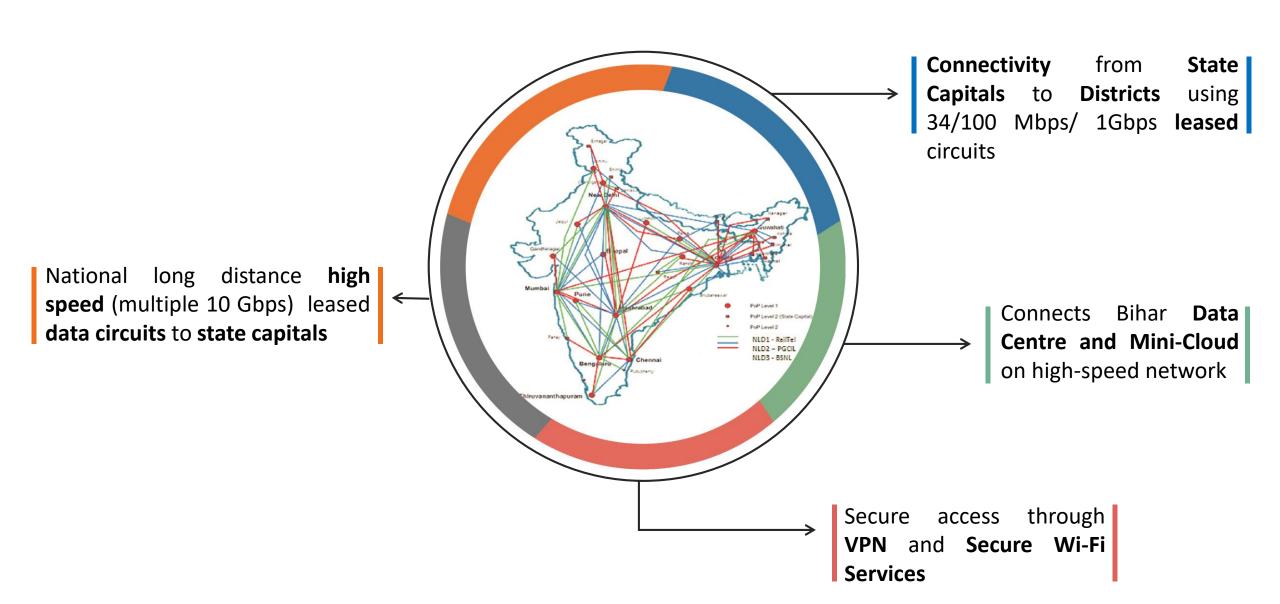
## **Organisation Structure**













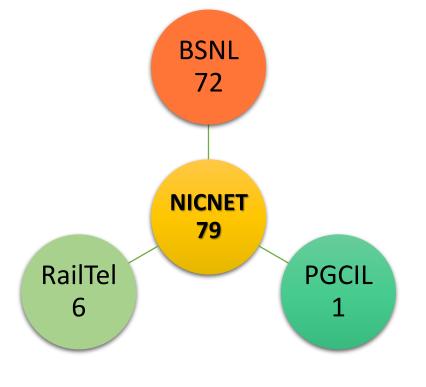


#### **NICNET - Network Backbone for Bihar**

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.)



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

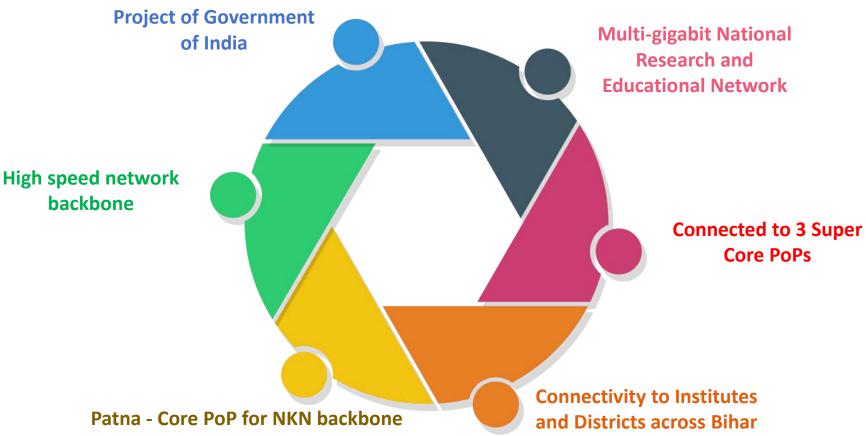
NoC HQ Delhi Team





## 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

District Connectivity – 27

Inter-District Connectivity - 16

State University - 13

Medical College & Hospital - 11

Engineering Institution - 8

Management Institution - 5

Research Institution - 5

Central University - 3

Training - 4

Government Body - 2

Judiciary - 1

Art and Design - 1



## **Video Conferencing Services**





NIC is offering VC services since 1995

<sup>\*</sup>Bharat VC Solution hosted on National Data Centre\*



## **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**

Total 150 Email Created in March 2023

More than 81350 email 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

<a href="https://servicedesk.nic.in">https://servicedesk.nic.in</a> portal implemented for the issue related to email



## Mini-Cloud, Bihar



### **Technology Used and Resource Allocated**

#### VMware

- vSphere, vCentre Management Tool
- vRealize Automation VM creation using template
- vRops-Reporting tool
- Management Software
  - HPE 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 and other resource allocated

- VM's Created and Allocated— 228
- No. of Cloud Accounts Created 61
- Load Balancer Created for -7 applications
- Backup Services allocated 125
- Public IP allocated to Cloud Users -91

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

Storage Capacity – 429.36 TB

Memory Capacity – 6.40 TB

Cluster - Windows & Linux

**Services - PaaS & laaS** 

Network Speed - 10/25/40G



## Mini-Cloud, Bihar



### **Applications Hosted**

- Apda Sampoorti, Disaster Management Department
- Medhasoft, Education Department
- Jeevika Online Project, Rural Development Department
- Asha Workers performance and incentive website
- E-Labharthi
- Health and Family Welfare Department website
- Jal Jeevan Hariyali Mission, Rural Development Department
- Post Matric Scholarship, Education Department
- Maap Taul Department website
- Covid 19 cell management system, Patna
- Micro, Small & Medium Enterprises, Muzaffarpur Website
- Railway Recruitment Board Muzaffarpur website
- Emeeting
- Geographical Information System (GIS) Website
- Bihar Information Commission Website
- Micro, Small & Medium Enterprises Patna Website
- Railway Recruitment Board Patna
- Railway Recruitment Cell Patna
- Bihar Vidhan Sabha
- Bihar Vidhan Parishad
- Loka Yukt Bihar

- Directorate of Rice Development
- Online Health Dept. of Bihar (HDOLBR) / e-Hospital
- Bihar Public Service Commission
- Home Department Bihar
- Divisional Commissioner Saran Chhapra
- Divisional Commissioner, Patna
- Khuda Bakash Oriental Public Library
- Archaeological Survey of India
- Chief Minister's Secretariat, Bihar
- Central Reserve Police Force, Bihar
- BPSSC, Bihar
- EleTraces Application
- Divisional Commissioner Darbhanga
- CGST RANCHI ZONE
- Central Excise, Patna
- Education Department, Bihar
- Bihar Consumer Protection department
- GIS Services
- Divisional Commissioner, Patna/ECIS Application
- District Administration, Gaya/RTE Application
- Finanance Department, Bihar/ egazette project
- Sewa Itihas (Secretariat)
- Ganga Flood Control Commission
- NBFC Complaint Management System
- Janta Ke Darbar Me Mukhyamantri
- Abhiyan Kitab Daan
- Disaster Online
- Disaster EOC

- Science and Technology Department
- CMRF, BIHAR
- Court Case Management System
- Panchayati Raj
- Single Integrated Return Of Labour laws
- E-Niwas
- E-CropCutting
- Bihar Legislative Assembly Question Remarks Management System
- CEO Bihar
- Online Booking, BCD
- e-Sahkaari, Co-operative Department
- CoopOnline, Co-operative Department







#### Digital India Land Record Modernization Programme(DILRMP) in Bihar



10

Out of 33,180 cases, 18,899 cases have been disposed using DCLR Court Case Mgmt System

**11** ∗

**ADM Court Case Management**Revision – Total Filed Cases – 3109

Total Disposed – 232
Cancellation – Total Filed Cases – 3245

Total Disposed – 132

1

**Bhu-Abhilekh** 

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

Online Jamabandi

(For Khatiyan data and Lagan Calculation) 4.16Crore Records, 6.97Crore Plot details Services: Online Mutation, Lagan & LPC using Digital Records of Register-II

9

**Suo-Moto Mutation** 

Registration of Sale to trigger automatic updation of Ownership details. Total 82.93 thousand applications received for mutation till date.

8

Bhu-Naksha

GIS Tool for generation of Land Parcel Maps (LPM) in Bihar. Till now digital map of 10,481 villages of 20 districts have been uploaded. Management of Land Records using Digital Technologies

3

**Online Mutation** 

(1.06 Crore Applications processed till date)
Built-in Multi-Factor Authentication
for Extra Security.

1

**Online Lagan Collection** 

(OGRAS is the Payment Gateway)
A total of Rs. 318.08 Crore have been collected so far and 2.13 Crore has been collected in current financial year 2023-24.

7

**Bhu-Manchitra** 

1.20 Lakh digitized Operational Maps at Mauza/Village level. (Around Rs. 31.23 Crores have been collected so far from 20.82 Lakh copies sold.) 6

**Online Parimarjan** 

A total of 34.12 akh applications received for correction in Jamabandi records. 30.07 lakh of these were disposed. 5

**Online Land Possession Certificate** 

Needed by Citizens for obtaining a loan from the bank. Till date 9.15 lacs applications received and 8.26 lacs disposed.









1.83 crore Ration
Cards, and
8.82 crore
Beneficiaries



FPS Management implemented in the State.





50,002 Fair Price Shops using POS Device.





Around 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



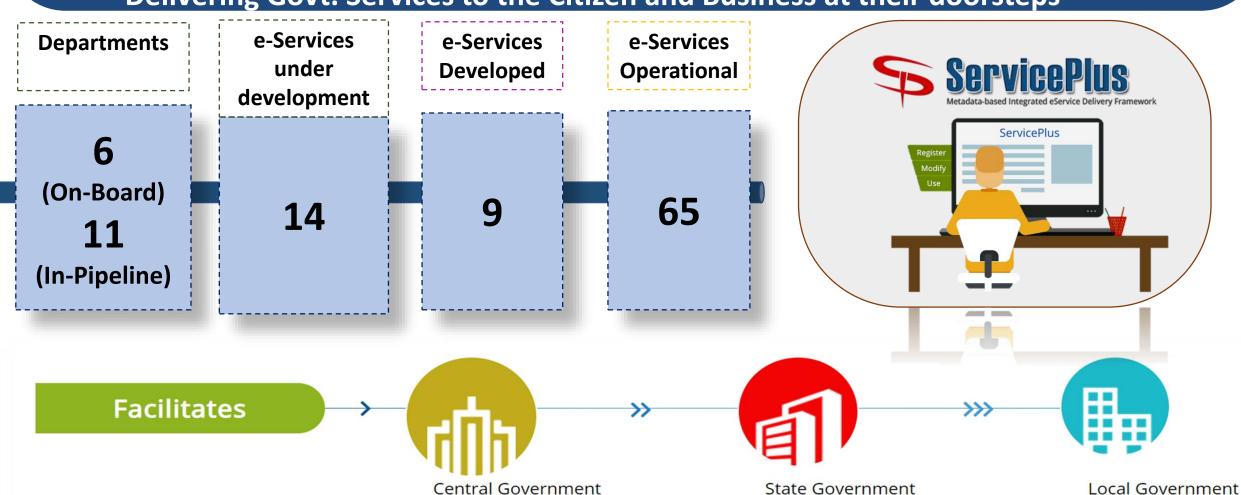


(e-District Mission Mode Project)

https://serviceonline.bihar.gov.in

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

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









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

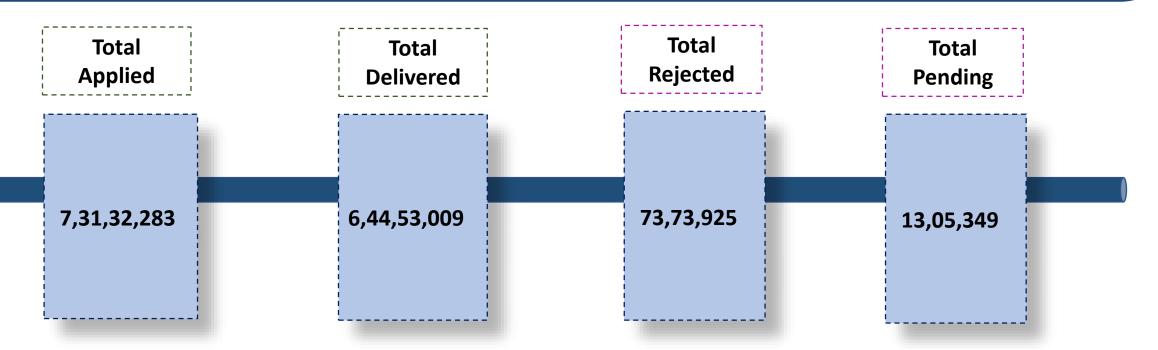
Service Plus eService Delivery Framework





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





Application Count of all services given above are since inception to 31<sup>st</sup> January 2023





#### 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: 11.3 lakh
- ☐ Bihar State Disability Pension: 8.86 lakh
- ☐ Indira Gandhi Old Age Pension: 3.8 crore
- ☐ Indira Gandhi Widow Pension: 6.1 lakh
- ☐ Laxmi Bai Social Security Pension: 7.3 lakh
- ☐ Mukhyamantri Vridhjan Pensions: 3.7 crore

Total Monthly Disbursement: 383 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 get hot cooked food and THR at the Aanganwadi Centres. Due to the spread of Corona Virus, an equivalent amount has been transferred directly to the account of beneficiaries.
- Total monthly payments through DBT Rs. 200.30 Crore







#### ASHWIN – Asha Workers Performance & Incentives Portal

- ASHA (Accredited Social Health Activist) and ASHA facilitators are Community Health Volunteer under National Rural Health Mission.
- Every village in Bihar with a population of 1000 people is having an ASHA worker who plays an important role to address the health needs of rural population, especially the vulnerable sections of society.
- ASHAs are given performance based incentives for 53 different types of institutional and community activities based on a predecided rate. There are more than 87,000 ASHA workers spread across Bihar.
- The application has streamlined the entire process of Activity Recording, Monitoring, Claim of Payments and Chain of Approvals, integrated with a Mobile based interface. The ASHA and ASHA Facilitators uses mobile application to records daily activities and submit monthly claim (Dawa Prapatra), which is approved by ANM, BCM, DCM and MoIC in order to release monthly remuneration. The system has brought transparency and accountability in the activities being carried out under NHM and has been awarded Award of Excellence in CSI SiG e-Governance awards 2021.

#### Beneficiaries Served:

- ☐ Total Active ASHA: 89151
- ☐ Total Community activities performed by ASHA: 200,68,96,130
- ☐ Total Institutional activities performed by ASHA: 53,73,67,450
- ☐ Total State activities performed by ASHA: 59,83,51,000
- ☐ Total Active ASHA Facilitator: 4314
- **□** Total Activities performed by ASHA Facilitator: 24,60,29,300







# 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 Department. Payment done with State Co-operative Bank using Aadhaar Enabled Payment System.
- Farmers Registered for Kharif crop assistance : 1664950
- Farmers registered for Rabi crop assistance : 1294868
- 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 – 32,93,86, 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 :- 40047
- Total Amount Paid: 40.46 Cr.



#### SWACHH BHARAT ABHIYAN Urban

- Swachh Bharat Abhiyan is a national level campaign launched by the Government of India with the objective of keeping the streets, roads and infrastructure clean.
- A web-based MIS has been developed for identification and approval of beneficiary as per scheme guidelines.
- A mobile App has been developed for inspection of toilets and quality reporting which leads to release of payment. The software also helps to generate payment files and has been integrated with PFMS for direct benefit transfer to the beneficiary. The entire system is accessible at LSBA portal http://lsba.bih.nic.in/
- Schemes being served :
  - a) Individual Household Toilet: For construction of toilet, an amount of 1200 has been provided to the Individual person.
  - b) Community Toilets With this scheme vendor take tenders to create group toilets for multiple users.
  - c) Solid Waste Management With this scheme vendors maintain the solid waste management, with door-to-door collection of wastes.
  - d) IEC And Public Awareness With this scheme vendors emphasize on Public Awareness about cleanliness.
  - e) CBA & OE With this scheme vendors emphasize on capacity building and other exercises.







#### MedhaSoft – Education Department

- MedhaSoft project envisages managing the details of all the students of government and government-aided schools of Bihar. The details of enrolments from 1st to 12th class are captured at the school level and the eligibility of the student is ascertained against various schemes being executed by Education Department, Govt. of Bihar.
- The details of about six crore students have already been uploaded by the schools which shall be used to disburse grants under various schemes such as cycle Yojana, Poshak Yojana, textbooks, napkins, scholarships etc.
- A Mobile application has been developed to support verification and forwarding of students list and to support the workflow. This project is expected to be one of the biggest students related operation in State to streamline entire education related disbursement process
- Total No. of Student: 6.23 Crore , Total Amount Disbursed: 500 crore



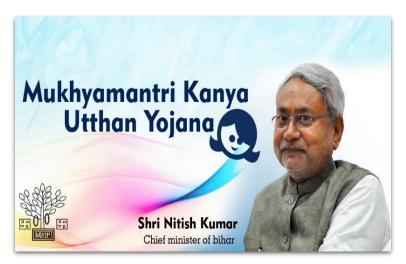
Scheme Name	Beneficiaries	Amount (in Rs.)
Pre Matric Scholarship Scheme BC/EBC (9-10)	1180960	2125728000
Scholarship - SC/ST (1-8)	3494342	3576517200
Mukhayamantri Balika Poshak Yojna (9-12)	2047206	3070809000
Scholarship - General(9-10)	361000	649800000
Mukhayamantri Balak Poshak Yojna SC/ST/BPL(1-8)	5504335	3479550800
Scholarship - General (1-8)	1604130	1679245800
Mid Day Meal	13219022	11763093059
Mukhayamantri Balak Poshak Yojna APL(1-8)	123295	67621000
Kishori Swasthya	3058440	917532000
Scholarship - BC/EBC (1-8)	7968574	8411289600
Pre Matric Scholarship Scheme SC/ST (9-10)	298355	537039000
Mukhayamantri Balika Poshak Yojna (1-8)	7302483	5735945200
Mukhayamantri Cycle Yojna	1456503	4369509000
Payment for Text Book Class (1-8)	14746176	4467421500
TOTAL	62364821	50851101159





### 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

#### Beneficiaries Served:

- ☐ Kanya Utthan Yojana(Snatak): 26208
- ☐ Mukhyamantri Balak Balika Protashahan Yojana(10th): 3,78,695
- ☐ Kanya Utthan Yojana (12th): 3,63,461
- ☐ Amount Disbursed : Approx. 70 crore





## 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. The state of Bihar, due to its geographical and topographical situation, is highly prone to several natural and man-made hazards, to compensate the disaster victims in optimum possible time by maintaining a pre-verified list of inhabitants living in flood-prone and draught prone areas of Bihar, the portal has been made. The list has been uploaded to the portal based on identification of vulnerable areas of the State and the bank accounts has been verified from the PFMS.

#### 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** 







#### PMS – Post Matric Scholarship

- The Post Matric Scholarship is a joint initiative of Education department, SC/ST welfare department, BC/EBC welfare department, Govt. of Bihar for the SC, ST, BC and EBC students of Bihar for receiving the scholarship from State and Central government to pursue higher education.
- The students of these categories who not able afford their tuition were school fee/ college fee for pursuing various courses of higher education are being awarded scholarship from SC & ST Welfare and BC & EBC Welfare departments of the State Government with Education Department being the nodal agency. The registration of valid colleges across India along with eligible courses have been done, thereafter, the students apply for the scholarship providing detailed information such as the demographic information, courses, sessions, bank accounts and Aadhaar. Presently, the portal has been opened for the students of 2019-20, 2020- 2021 and 2021-22 sessions to apply for the scholarship.
- A mobile application having official login, Student login and institute login module has been launched by Education Minister Bihar to support the smooth functionality of the web portal.
- So, far more than 2000000 students has been registered in the portal and more than 1800000 students has been verified
  for payment by the verification team.







## **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.



#### **Layers created at DGRC, Patna:**

#### ☐Transport Layers

• National Highways, State Highways, Major District Road, Other District Road, Village Road (PMGSY & MMGSY), Railway Line, Railway Station, Bus Route, Bus Stop, Bridge (RCD), Airport

#### **□**Water Resource Layers

• River, Stream, Canal, Water Body, Ahar/Pyne, Watershed Boundary

#### **□**Administrative Layers

• Habitation/Settlements, Block, Subdivision, District HQ, Village Boundary, Panchayat Boundary, Block Boundary, District Boundary, RTA Boundary, Sub Division Boundary, Industrial Estate Boundary, Ward Boundary (Patna), PWD Division,

#### □ Constituency Layers

• Booth Location, Assembly Boundary, Parliamentary Boundary

#### **□**Power/Electricity Layers:

• Grid Substation, Power Substation, Power Transmission Line (220kv & 132kv), Power Transmission Tower, Electric Pole

#### ☐ Forest Layer

• Reserved Forest, Dense Forest, Moderate Forest, Protected Forest, Open Forest, Forest Scrub, TOF, Patna Zoo Map, Plantations, Eco Park, Nursery

#### **□**Education Layers

• Schools, Colleges, Hostels and residential schools

#### **□**Miscellaneous

• Town Location, 37 District Land-use Map, Bricks and Kilns, Laghu Bandh, Aanganwadi, GTSNY Habitations, Police Station, Culvert (RCD), Level Crossing (RCD), Market Location, Monument/Tourist Places, Hoardings for IPRD, Community halls for SC/St dept.



### **GIS Based Solution**



#### Jal Jeevan Hariyali

- Jal Jeevan Hariyali Mission is a multi-stakeholder programme with the objective of climate sustenance, conservation and rejuvenation of water bodies and to keep water pollution free, maintaining level of Ground water, ensuring adequate water availability, climate resilient agriculture, energy conservation etc. and promoting climate awareness among the masses.
- The JAL-JEEVAN-HARIYALI Mission is being implemented in coordination with various departments and the Rural Development Department has been designated as the Nodal Department.
- A mobile application for identification, mapping, verification and inspection of renovation has been developed and launched by Chief Minister Bihar.



#### Har Khet Tak Sinchai Ka Pani(Sinchai Nischay)

- State Government of Bihar has decided to run a scheme "Har Khet Tak Sinchai Ka Pani", to ensure irrigation facility is to be provided to every farmer's field. For this work, after identifying the non-irrigated area of each village, on the basis of initial technical feasibility, the potential water source and irrigation plan has to be selected.
- This survey has been completed with five departments working together.
  Those five departments are Water Resources Department, Electricity
  Department, Minor Irrigation Department, Panchayati Raj Department and
  Agriculture Department. Water Resources Department was the nodal
  department among them.
  - □ No. of Departments involved in the Survey: 5
  - Number of villages surveyed: 16,743
  - ☐ Number of Tola surveyed: 74,134
  - ☐ Total number of meetings with farmers: 74,134
  - Approximate non-irrigated area (in hectare): 5,54,541.13
  - □ No. of Schemes Selected: 29,991
  - ☐ Estimated Command Area (in hectare): 7,83,363.06
  - Estimated Cost (Rs. in Lakh): 6,53,924.19



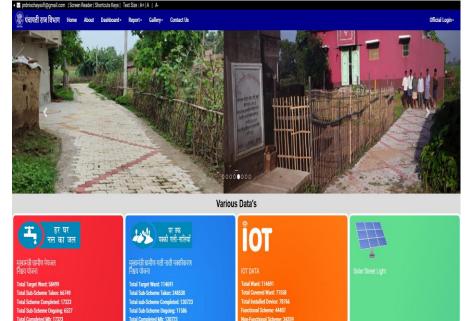
## **GIS** based Solutions



## Panchayat Nischay Soft Portal

- Panchayat NischaySoft has been designed to capture physical and financial progress of Mukhyamantree Grameen Peyajal Nishchay Yojana and Mukhyamantree Grameen Galee Naali Pakkeekaran Nishchay Yojana being executed by Panchayati Raj Department.
- It include modules such as Online registration of manufactures and their products, scheme details, fund transfers, physical progress, inspections, vouchers, utilization certificates, time stamped photographs with geo-tagging of schemes and payment advice.
- Till now 66,878 and 2,44,514 schemes are registered and being monitored Mukhyamantree Grameen Peyajal Nishchay Yojana and Mukhyamantree Grameen Galee-Naali Pakkeekaran Nishchay Yojana. IoT enabled devices have been placed at every Drinking Water scheme to know the status of working of motor and water extracted.
- The dashboard has been prepared from the data received from IoT devices to show the overall status of Drinking water supply to rural households of the State. This project has been awarded CSI-SIG e-Governance Award 2020 in "State Government Entity" category of Computer Society of India







## **State Emergency Operation Centre**



#### **Emergency Operation Centre (EOC)**

- EOC multi-hazard platform has been developed for Disaster Management Department, Govt. of Bihar for the daily reporting of different hazards throughout all the districts of bihar such as floods, drought, COVID etc.
- It includes activities such as tracking of different relief and preventive measures being taken such as community kitchen, relief centres and health centres etc., easy report generation, office inspection, live flood monitoring using GIS, Geopositioning of disaster affected areas, house damage inspection, MIS payment report.
- A mobile application called "EOC Reporting" has been developed for inspection of damages reported and tracking of relief activities being performed on daily basis.
- The live inspection for house damage has been started for all districts and till now +1000 inspections have been already reported through the application.

#### Disaster Relief And Rescue Team Tracing System

- Disaster Relief And Rescue Team Tracing System has been developed for tracking the movement of SDRF, NDRF team assigned for different Relief and Rescue operation performed during the occurrence of any disaster.
- The mobile application helps in capturing the Geo Coordinates of the team and upload it to the server in every one minute.
- The web portal is used for the registration, allotment and tracking of team's location using GIS.





## e-Hospital



- e-Hospital is aimed at the implementation of Hospital Management Information System (HIMS) for internal processes and workflows of hospitals.
- It is a one-stop solution which helps in connecting the patients, hospitals, other healthcare service providers and doctors on a single digital platform. The application is developed based on the global healthcare standards.
- It is a web based cloud hosted HMIS application which includes e-BloodBank and Online Registration System (ORS).
- The e-BloodBank application facilitates the implementation of a complete Blood Bank Management System for internal workflows and processes of the blood banks.
- ORS (https://ors.gov.in) is the patient interface of e-Hospital for citizens to book online appointment for the hospital of their choice. ORS is accessible over the Internet. ORS is a system to link various hospitals across the country for online registration and appointment and for providing patient centric services like viewing lab investigation reports and checking blood availability status.



Basic Module

- Patient Registration (OPD & Casualty)
- IPD (Admission, Discharge and Transfer)
- Billing
- Online Registration System (ORS)
- e-BloodBank



Advanced Module

- Lab Information System (LIS)
- Radiology Information System (RIS)
- Store & Pharmacy
- Dietary
- Laundry
- OT Management

e-Hospital has been implemented in 10 hospitals of Jehanabad, Bihar.

☐ Total OPD Patient: 389412

☐ Total New patient : 365761

☐ Patient Revisited: 23651





## Janta ke Darbaar me Mukhyamantri



- In order to establish direct communication with the people of the state, to be aware of their problems and grievances and to establish an effective system for their speedy redressal, the "Janta Ke Darbaar Mein Mukhyamantri" program was started by the Honorable Chief Minister, Bihar.
- The main objective of this program is to get direct communication with the general public about the problem arising in relation to the implementation of policies, programs and schemes based on the principle of justice, inclusive development, and good governance.
- Under this program, on the first, second and third Mondays of every month, problems related to departments under law and order and administrative departments, social sector and basic infrastructure are heard respectively

- □ No. of Departments : 47
- ☐ No. of Applicants: 27822
- No. of Applicants Appointed: 7721
- **□** No. of Applicants to meet the Chief Minister: 5621

★ Home > State > Bihar > Patna > Nitish Kumar Janta Darbar Cm Bihar Mukhyamantri Janta Darbar Latest N

#### जनता दरबार: सीएम नीतीश के सामने आए जमीन विवाद के कई चौंकाने वाले मामले, समाधान का दिया आदेश

प्रत्येक सोमवार की तरह नवंबर के पहले सोमवार को आज भी मुख्यमंत्री जनता दरबार कार्यक्रम कर रहे हैं. इस दौरान आज जमीन विवाद के कई चौंकाने वाले मामले सामने आये जिसे सुनने के बाद सीएम ने संबंधित विभाग के पास निवारण के लिए भेजा.

By Prabhat khabar Digital | Updated Date Mon, Nov 1, 2021, 1:28 PM IST





बिहार के मुख्यमंत्री प्रत्येक सोमवार की तरह आज भी जनता के दरबार कार्यक्रम में फरियादियों से मिल रहे हैं और उनकी समस्याएं सुनकर समाधान करने का आदेश दे रहे हैं. आज सीएम मुख्य रूप से पुलिस व जमीन से जड़े मामले सन रहे हैं. जनता दरबार में आज भी कई हैरान करने वाले मामले सामने आये. कई



## **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 110 range offices of the department.





## **Mobile Apps for FMIS Project**







Mobile Apps





#### **Key Features**

- ✓ Supports "Mission 5 crore Plantation for the year 2021 & 1.75 crore for year 2022 Site Registration, Plant Request & Plant Distribution Under the Jal-Jeevan-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 –14698
- ✓ Previous Year Received Plant-8279404, Plant Distributed 7686847
- ✓ Plant Requested for 2023-24- 2180420
- √ 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 1167
- Registered Plantation Scheme-2507, Scheme Inspected- 1056
- ✓ Registered Nursery Scheme-357, Scheme Inspected- 326
- ✓ Registered Others Scheme-264, Scheme Inspected- 16



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





## **Digital Library**





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:**

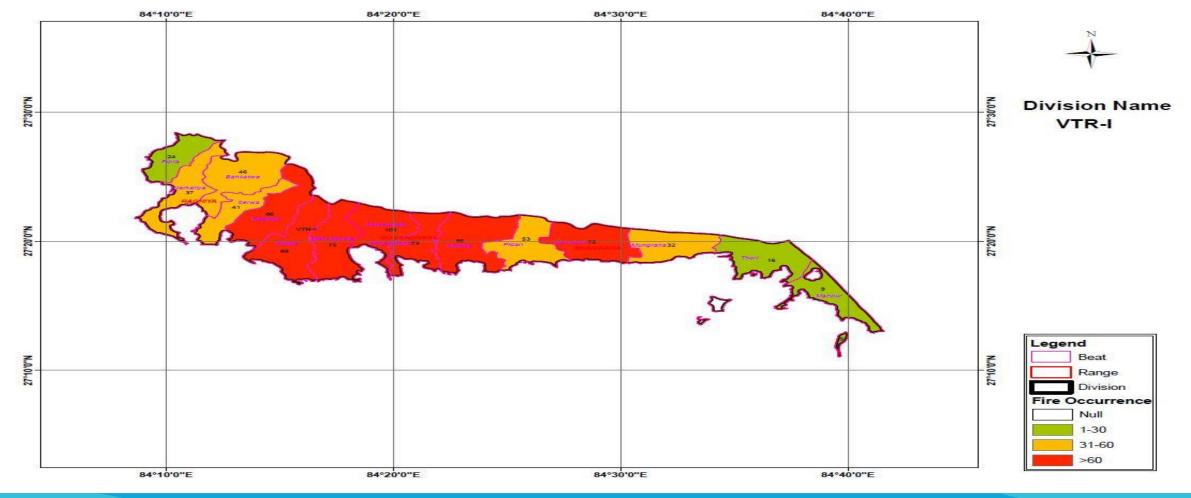
- Total No. of Stored files 1867
- HARIYALI-MISSION-83, DFO-9, CCF(IT)-1646
- CF(M&E) 3, APCCF(CAMPA)-99, PCCF(WP)- 5, PCCF(DEVLOPMENT)-22

## **GIS for FMIS Project**



### IT Cell

Forest fire data was downloaded from the Forest Survey of India (FSI) portal, for analysis and preparation of forest fire occurrence map for the territorial division from January 2023 to May 2023.





## **GIS for FMIS Project**



## IT Cell

One day training program on VanApp, Bihar VanMitra mobile application with Google Earth Pro was provided to Forest Guard (FG) at SFTI, Gaya on 24th May 2023 for creation and use of kml file on Google Earth Pro.

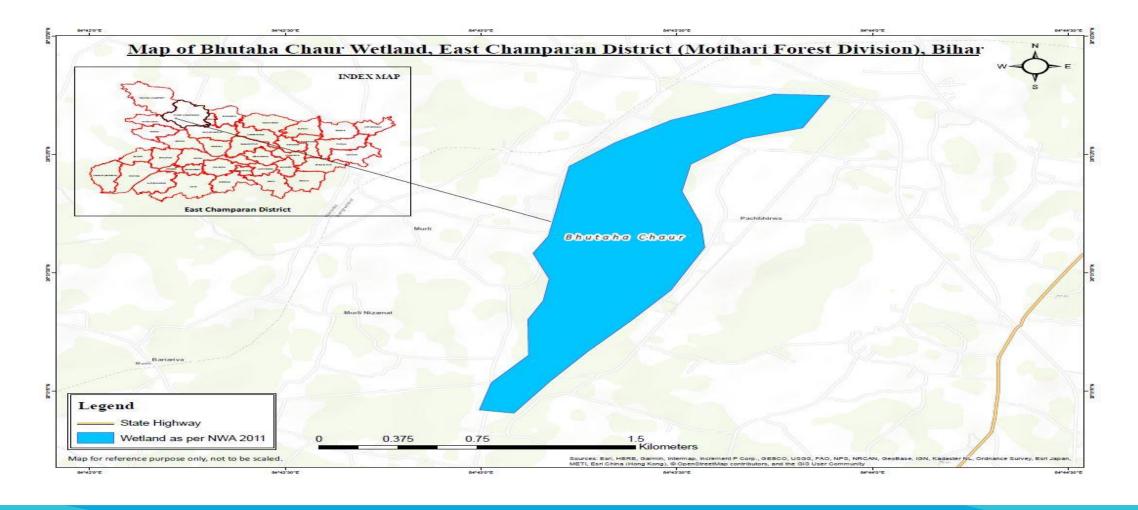


## **GIS for FMIS Project**



## **Climate Change (Wetland)**

Analysis and creation of 02 wetlands (**Bhutaha Chaur and Bawlee Chaur**) for digital mapping in the second phase, East Champaran District (Motihari Forest Division), Bihar.







## 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.
- Implementation of eOffice is being done.
- Online Document Distribution System will be through Service Plus Bihar very soon.
- New Chancellor Portal is under Development.

## **Applications**

Raj Bhavan Website (S3WaaS

Online Document
Distribution System

Implementation of eOffice is being done.

Social Media of Rajbhavan.

VC & Pro VC
Recruitment Portal

Pay Roll System

Reporting System for Universities(UMIS)

Android Application for UMIS



## **Court Informatics**



### **Services provided to**

Patna High Court

Courts

37 Districts & 42
Sub-Divisional

Central
Administrative
Tribunal

Legal Services (Lok Adalat)

Courts of Govt. Of Bihar Departments

- >State Appellate Authority Education Department
- > Real Estate Appellate Tribunal (REAT), Pant Bhawan Patna
- ➤ 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 up to April 2023** 

Average Daily Cases Filed - 430 Approx

No. of Cases available – 25,03,234+

Disposed Cases – 22,94,242

Pending Cases – 2,08,992+

E-Filed Cases – 3,26,637+

Court Complexes 90

Registered Advocates on e-filing portal – 4,203+

**♦** Challan Defaced − 1,468+

Judgments uploaded – 13,25,501+

**Total Ld. Advocates in CIS-8,175+** 

Court Establishment 224

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

Court Case
Monitoring System
(CCMS)

Judicial Officers Activity Monitoring System (JOAS)

e-filing,
ePayment & Challan Defacement

**Comprehensive Report Management** 

Real time Data Replication to NJDG

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

Website Development, ICT Support, Training & Report Compilation.

**Record Room File Management System** 

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**

**40 Bihar Cadre Services** ebihPAR (Bihar Spoarrow)

State's Bhawans- Bihar Bhawan, Niwas & Sadan District Guest Houses eBhawan

**38 Districts**CPGRAM-Bihar

87 Companies
Registered
eNBFC

20 Bihar Departments
14977 Officers
ebihPAR (Bihar Sparrow)

State's Bhawan- 5343 Guest User and 18281 Applications Patna – 91 Applications eBhawan

> IAS-223, BAS-1106, BSS- 1864, BSSS-367 Sewa-Itihas

38 Districts, 534 Blocks and 5 Line Department e-Statistics Bihar

## **Applications and ICT Services**

ebihPAR
(Bihar Sparrow)
ePAR System for Bihar

eBhawan
State's Bhawan & District
Guest House Booking

3 VC Studios
Video Conferencing

Sewa Itihas
Service History
Management

eNBFC

20 CSMI Bihar (e-Statistics) Phase I & II

2- Nischay @ 7-Nischay Monitoring & District Workforce Statistics

PGPORTAL & CPGRAM-Bihar Grievances Redressal System

eSamiksha

Video Conferencing Pragati VC



## **NIC Vikas Bhawan Cell**



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

Farm Mechanization (OFMAS)

Agriculture Dept.

Dharmik Nyas Parishad
Law Dept.

eCounseling BCECEB, Patna

CHANAKYA – University Automation System

Six Universities across India

**Bihar Vidhan Sabha (QRMS)** 

Question Reply Management System

**Bihar Vidhan Parisad (NEVA)** 

National e-Vidhan Application

Ground Water Authority (NOCAP)

Miner Water Resource



## **Executive Court Information System**



It Caters Court Information System for Executive courts of Bihar which includes Commissioner's Court Information System, DM Courts, SDM Courts of Bihar. Recently its has been also deployed for Court of Patna Municipal Corporation.

#### **Portal Dash Board**

#### **EXECUTIVE COURT INFORMATION SYSTEM**

(for Districts of Bihar)

HOME | DASHBOARD | CASE STATUS | CAUSELIST | JUDGMENT/ORDER | ADVANCE SEARCH | CONTACT US

Court Name	Filing	Pending	Disposed	Order Uploaded	Judgement Uploaded
Court of Collector-cum-District Magistrate, Nalanda	811	756	55	39	0
Court of Collector-cum-District Magistrate, Patna	1107	461	635	135	256
Court of Collector-cum-District Magistrate, Bhojpur	792	720	72	0	0
Court of Collector-cum-District Magistrate, Buxar	1230	1227	3	0	0
Court of Collector-cum-District Magistrate, Kaimur	3892	1343	2432	233	32
Court of Collector-cum-District Magistrate, Rohtas	730	730	0	0	47
Court of Collector-cum-District Magistrate, Gaya	394	375	19	29	0
Court of Collector-cum-District Magistrate, Supaul	884	374	510	82	37
Court of Collector-cum-District Magistrate, Saharsa	105	99	0	0	0
Court of Collector-cum-District Magistrate, East Champaran	696	695	1	0	0
Court of Collector-cum-District Magistrate, Darbhanga	982	532	15	123	0
Court of Collector-cum-District Magistrate, Araria	2508	2074	434	0	0

Designed and Developed by NIC, Bihar State Centre



## Online Booking System



It Caters online booking for heritage Buildings and Bhawan of Bihar for Building Construction Department, Govt. of Bihar

#### **Project Details**

- 1. Online Booking of Bhawan of Samrat Ashoka Convention Centre, Adhiveshan Bhawan and M. M. H. Auditorium.
- 2. Facility to search the availability status of different buildings on dates and time slot basis.
- 3. Online booking of buildings using net banking and cheque /DD mode facility also.
- 4. Booking is accepted or rejected by the admin of department
- 5. SMS alerts are sent to applicants after approval, rejection and cancellation against booking of premises.
- 6. Revenue has increased two fold after implementation of this Online Booking system. Organizations from outside Bihar can also book through this system.



## **Advance Case Information System**



Case Information System for Central Administrative Tribunal Patna & Ranchi Bench.

### **Project Details**

- Central Administrative Tribunal Patna Bench has been chosen as pilot for Implementation of Advance Case Information System software
- Filing case till its disposal all modules available in this project
- Daily Cause List, Order/Judgments is being generated and retrieved from website of Central Administrative Tribunal http://cgatnew.gov.in/catweb/patnanew/patnanew.php.



## **Building Construction Department**

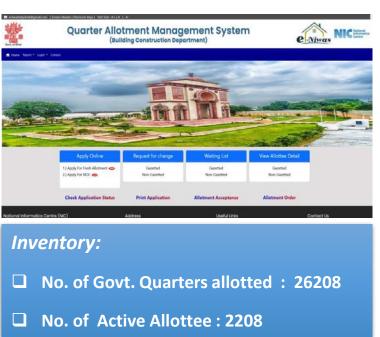


### E-Niwas

 A web based (G2E/G2G) Government Quarter Allotment Management System has been developed and implemented for the allotment of different types of available government accommodations to employees and Government departments of the state. It has streamlined the entire allotment process of the state government.

#### Key Features :

- Online request for allotment of Government Quarters.
- Online request can be placed for the change of Govt. Quarter.
- Intimation of allotment and rent process though SMS.
- Online collection of rents.
- Integration with OGRAS(Online Government Receipt Account System).
- Integration with HRMS.
- MIS Reports generation.

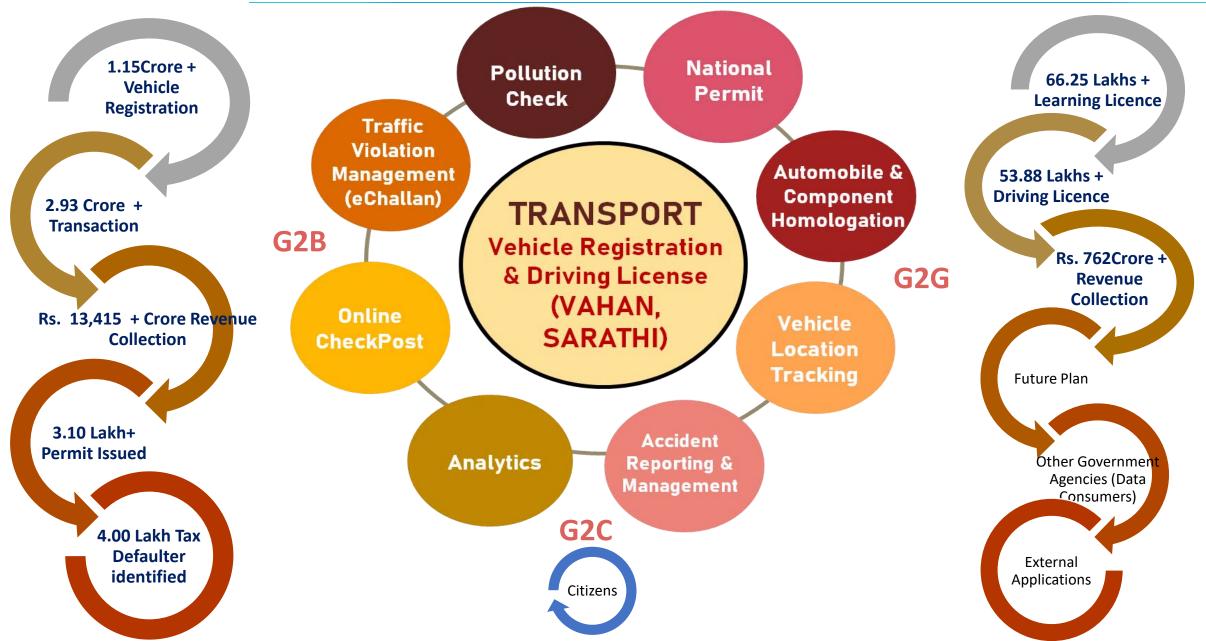






## **eTRANSPORT MMP: PUBLIC DIGITAL PLATFORM**







## **eCHALLAN**: TRAFFIC VIOLATION MANAGEMENT SOLUTION



#### **BIHAR**

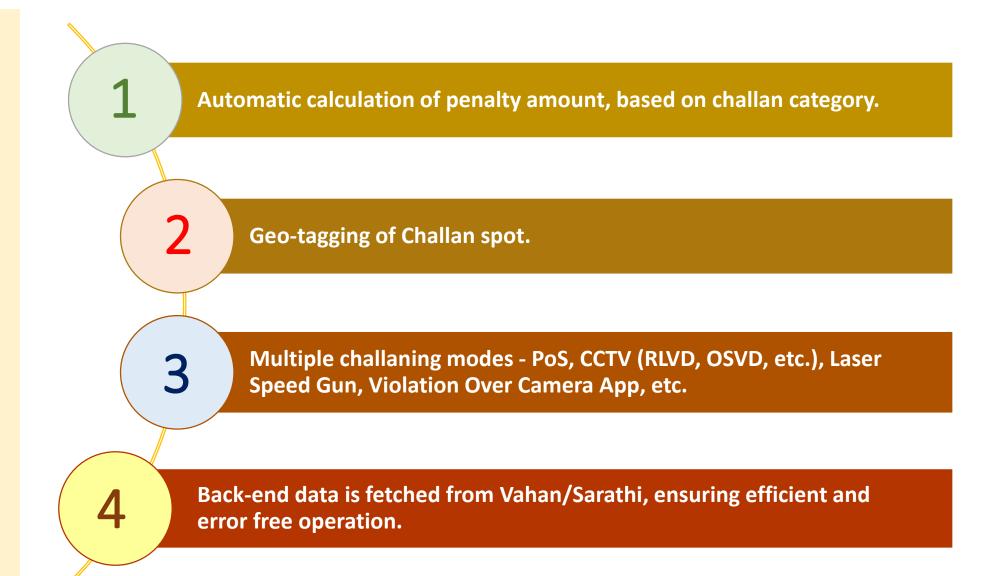
(Figures for May, 2023)

22455 eChallans

Rs. 22.12+ Crores
Penalty Collection

2510
Vehicles Impounded/
Released

11,000 +
CCTV based noticed issued





## POLLUTION UNDER CONTROL CERTIFICATE



Centralized application for vehicular emission testing

Standardized testing and certification process

Ensures compliance, better data consistency



1.59 Lacs + PUCC Issued in May, 2023

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

Emergency Alert Press during May 9,672 Retro Fitment Centres-212, Manufacturers-18 13,386 Vehicle Registered on this portal



### **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**

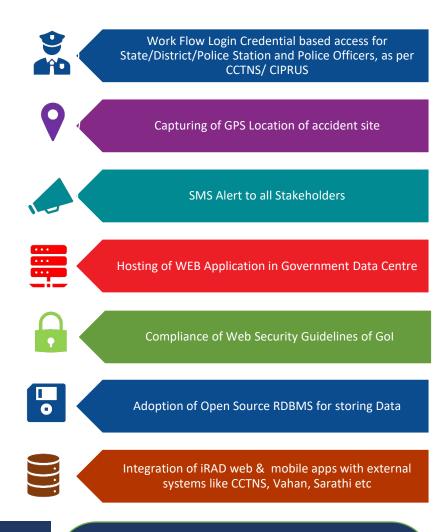
Police Department, Health Department, Transport Department, Highways/ NHAI, Citizen

#### **Data Consumers**

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



**IRAD FIELD APP** 



Software Roll Out in Police Transport Road and Under process for Health Department

Since Implementation, data related to 11,566 persons killed, 1,691 persons suffering grievous injury and 7,170 persons suffering minor injury have been stored in the system.

13600+ live accident data has been captured by iRAD application from Bihar with the help of 38 DRMs. Usage is expected to increase with time.

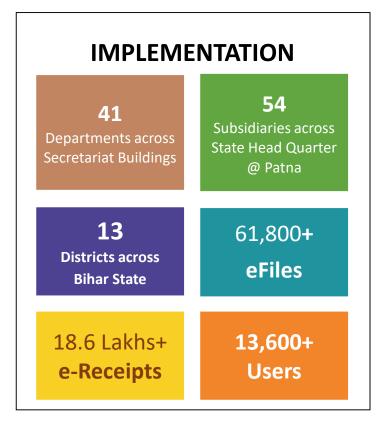


### **E-Office - A Digital Workplace Solution**

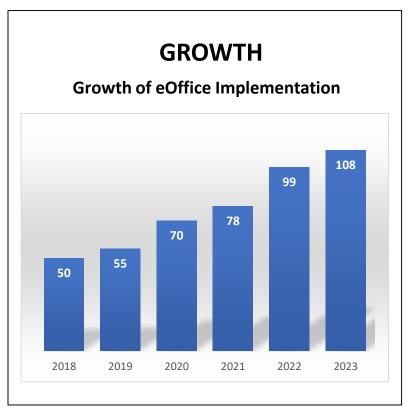




# Provides simplified, responsive, effective and transparent working in Government offices for Inter-Government and Intra-Government transactions and processes



- 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





# 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).
- Post Graduate Dental 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**

Project Proposal Preparation.

Choice Filling

SRS Preparation for all courses

Seat Allotment (1st-2nd round)

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 upgradation and opt for 2<sup>nd</sup> Round Seat Allotment.



## **BCECE** - eCounseling



## **❖**Major Activity :

- ✓ Preparation of StRS,
- ✓ Seat Allotment,
- ✓ Statistical Reports

## eCounselling for the following Courses (13 Courses):

UGMAC	PGMAC	PGDAC	UGEAC
BCECE-Engg	POLYTECHNIC	DLE	ITI
PCMB-Joint	Agriculture	BLE	DCECE-PM
DCECE-PMM			

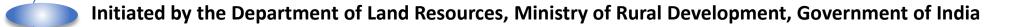
#### ❖In Session 2022-23

Total Counselling	Total Institutes Participated	Total no. of Choices Processed	Total Students Participated	Total Seat Allotted
13	620	1.2 Crores	253169	95748



## **National Generic Document Registration System**







Empowered citizen by enabling property valuation, online document submission, Online payment of Stamp duties and fees and online appointment to visit registration office for registration of document.

**Operational in 19 states and UTs** 

Decided to implement NGDRS in the state in November

Most of the popular Instruments has been configured and tested.

**NGDRS** 

National Generic Document Registration System

https://registry.bihar.gov.in

Online services for payment of Stamp duties and Fee through OGRAS and estamp have successfully been configured.

Launched in the state on 29/03/2022

Two Sub-Registry offices Halsi (Lakshisarai) and Dheng (Sitarmarhi) have been selected for pilot implementation.





### Weights & Measurements Management Information System(WeMMIS)









- Mobile App for Traders
- 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>)

### Progress...

#### <u>Trader</u>

**111354** - Verification Certificates(VC) issued for trader.

#### <u>Manufacturer</u>

26 – New Licenses 16 – Licenses renewal 334 – Lab Passing

#### <u>Dealer</u>

41 - New Licenses 179 - License Renewal 836 - Lab Passing

#### <u>Repairer</u>

06 - New Licenses 29 -Licence Renewal.

#### Packer/Importer

8 – New Registration.

#### **Revenue Collection**

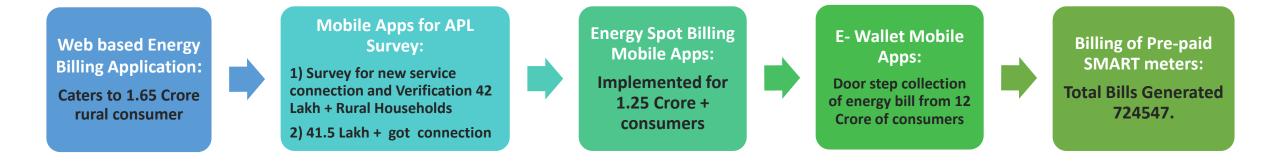
- ₹ 31.5 crore since 21 July 2021
- ₹ 8.5 crore in Apr-Jun Qtr 2022.

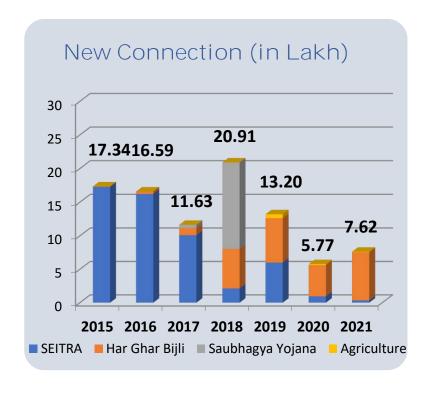
- Verification and Stamping of Weights and Measures Instruments.
  - 2 Issuance of Licence of manufacturer of weights and Measures Instruments.
    - 3 Issuance of Licence of Dealer of Weights and Measures Instruments.
    - Issuance of Licence of Repairer of Weights and Measures Instruments.
    - Renewal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

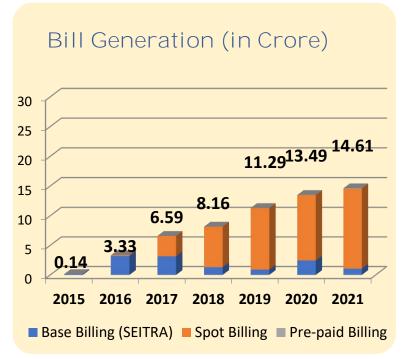


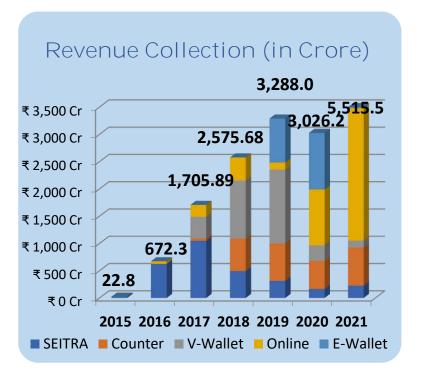
## Smart Energy Infrastructure & Revenue Administration - BIHAR













## **E-Prisons**



## **Digital Innovation in Correctional Homes**

Central Jails

District Jails

Prisons
On-boarded

Inmates Inside

Bihar is 2<sup>nd</sup> in India in terms of total eMulakat with 71594 in the month of January' 2023.

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

#### 27 K+

Prisoner Admission In April'2023

#### 34 K+

eMulakat (Virtual and Physical Visits) In April' 2023

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**



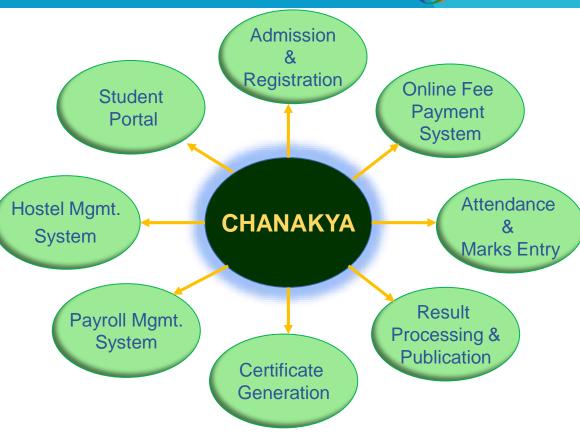
**Chanakya** is a web enabled application for computerization of

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:

- ➤ Bihar Paramedical/Paradental Examination Committee
- ➤ Bihar Engineering University
- ➤ Bihar Health Science University



#### Implemented and Running at



NIT Patna



NIT Durgapur



BASU Patna



MMHA & PU Patna



KSDSU Darbhanga



MMBU Agartala



### **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

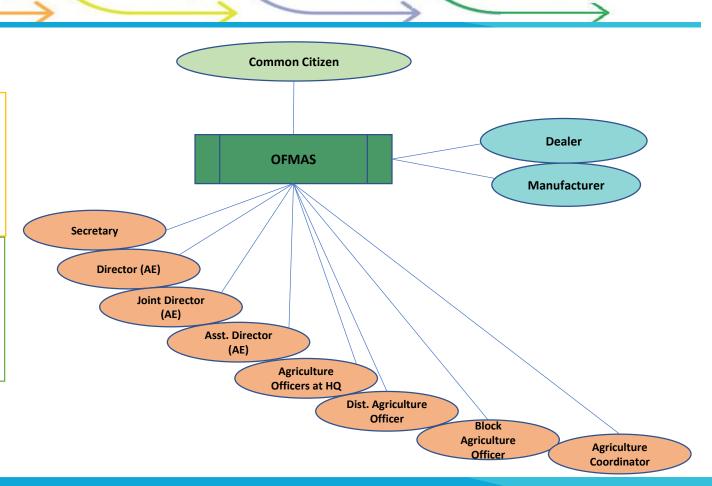
Payment of subsidy to beneficiary

#### **Key Activities**

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

#### **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** Transactions in Financial Year (2021-22)



49378

21267

12288

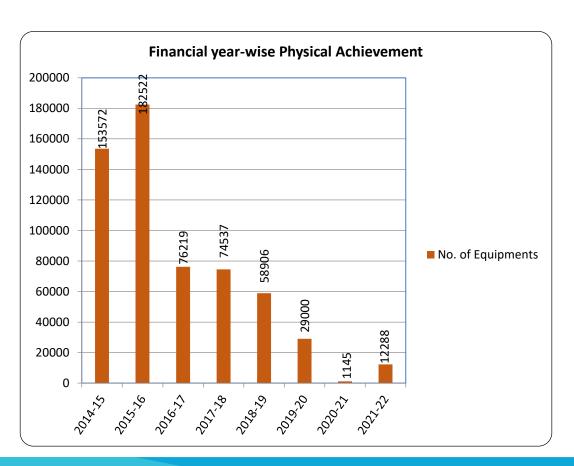
₹ 39.10 Crore

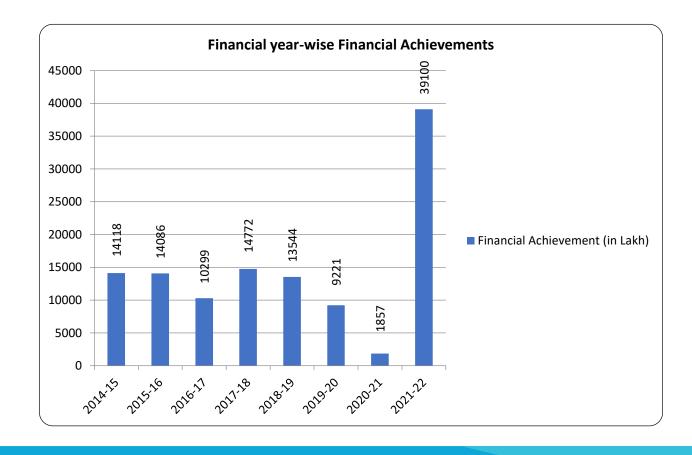
Farmers applied through OFMAS for purchase of farm machinery

Permit generated to purchase of machinery

Farm equipments purchased by farmers under the scheme

Subsidy given to farmer 2021-22







### **OFMAS**



### Transactional status under different schemes through OFMAS FY 2022-23

- ❖ Agriculture Machinery Training Yojana (AMT)
  - ✓ Application Received : 1920
  - ✓ Training Approved : 398
- ❖ State Plan, NFSM, NFSM-Oil Seed, BGREI Plan
  - ✓ Application Received : 150331
  - ✓ Permit Generated : 57591
  - ✓ Implement Supplied to Farmer: 33024
  - ✓ Physical Verification: 29344
  - ✓ Subsidy Released: 17021 (₹ 41.6 Crore)
- ❖ Submission on Agricultural Mechanization (SMAM) –Custom Hiring Center
  - ✓ Application Received : 1615
  - ✓ Permit Generated : 78
- Krishi Kalyan Abhiyan Phase-3 (KKA-3)
  - ✓ Application Received : 27
  - ✓ Permit Generated : 14
  - ✓ Implement Supplied to Farmer : 7
  - ✓ Physical Verification: 7
  - ✓ Subsidy Released : 3 (₹ 24 Lakh)



## **Dharmik Nyas Parshad**







बिहार राज्य धार्मिक न्यास पर्षद बिहार अंतर्गत (बिहार हिन्दू धार्मिक न्यास अधिनियम 1950) विधि विभाग, बिहार



Portal is dedicated to render separate dynamic informatics web page of each Temple, Monastery, Dharamsala registered under Bihar state board of religious trust. It is designed to show its images, address, Mahant's details, property details along with encroachment, illegal transfer, etc., and many more.

✓ Security Audited & hosted at Bihar state Data Center. http://bsbreligioustrust.bihar.gov.in/

**Total Religious Institutions on Platform:** 1232

Land Recorded for Religious Institution: 4010 Acre







## **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 **163806**
- Pregnant Women's Registration in Reporting Month 156294
- Children Registration in Reporting Month 180101
- Eligible Couple cumulative since implementation **19531768**
- ■Pregnant Women's cumulative in FY 2022-23 **1383110**
- Children cumulative since implementation 2022-23 **1344437**



### 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

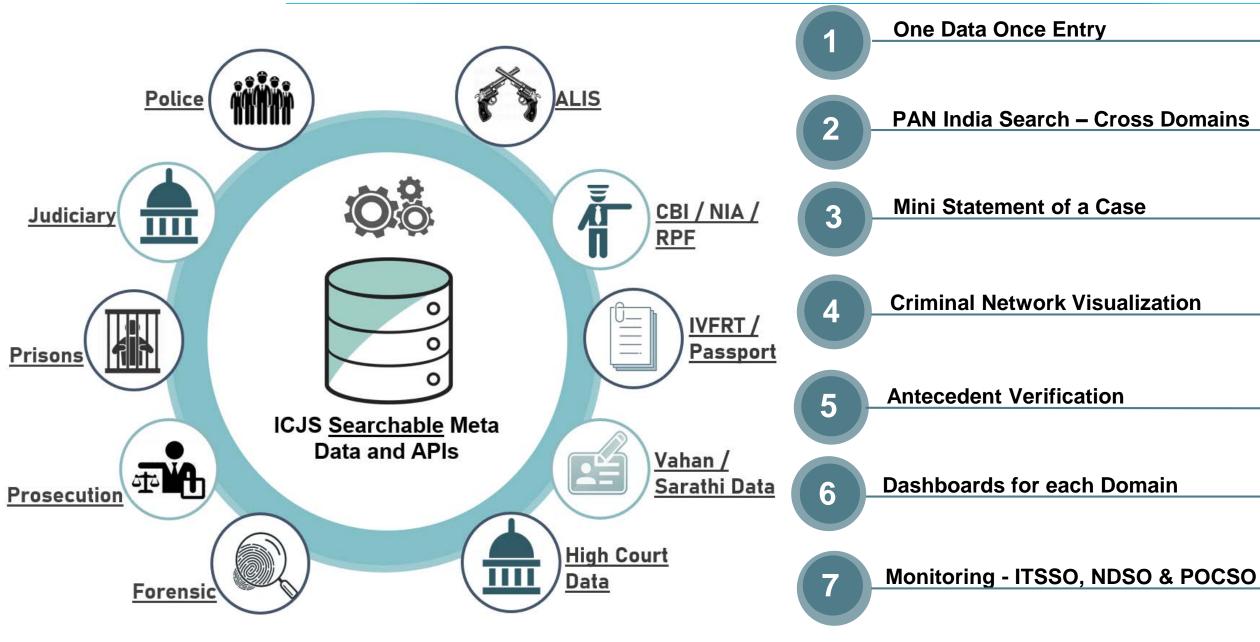
Centralized system for sharing of information across all concerned stake holders

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

Integration process with CFMS is going on

I have submitted my
Digital Life
Certificate on Jeevan
Pramaan

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

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

Support to Central Govt. offices of Bihar



Implementation
Support to
offices of Bihar
State Govt.



### **Election Personnel Management Information System (EPMIS)**



Election Personnel Management Information System (EPMIS) web application is for deployment of Polling Personnel on booth through randomization process during Election and ICT solutions was implemented across all 38 Districts of Bihar. Role based web application for creation of online employee database and Personnel deployment through randomization technique including use of mobile app for Photo Capture and Training Attendance.

#### **EPMIS-Features**

- Distributed Data Entry
- Employee Photograph Collection and Modification
- District Wise Deployment
- Generation of orders for the Deployment
- Intimation through SMS
- Communication Plan

#### **EPMIS-Functionalities**

- Deployment of polling personnel at polling stations is the major functionality of the software. Polling personnel are categorized in 6 (six) major categories.
  - Presiding Officers
  - Polling Officer-1
  - Polling Officer-2
  - Polling Officer-3
  - Patrolling Magistrates
  - Micro-Observers
- Randomization Process(Online) for the Polling Personnel Deployment
- Randomization Process for the Counting Party Deployment

#### **Benefits, Impacts & Achievements**

- Centralized Database
- Centralized Support
- Centralized as well as distributed backup plan
- Multiple reports
- Poll-day Communication Plan
- Distributed Monitoring mechanism
- District level and State Level Dashboard
- 24 \* 7 Availability
- Assembly Bye-Election 2022 (91-Bochahan, 101-Gopalganj, 178-Mokama)
- Bihar Nagar Palika General Election-2022 conducted successfully using this application.



#### **Force Deployment Software**



The system automates the process of movement of forces for different phases of elections, reporting of home-guards, deployment of state forces to booths and PCCP, reporting from booth, SMS alerts at various stages of deployment. The system is a web-based online software which integrates functions of various stakeholders such as SP Office, Commandant of Home Guards office, Election Office, Vehicle Cell, Reporting Cell, Command Distribution Centre, Enquiries and Helpdesk etc.

#### **Force Deployment - Features**

- Online workflow based system
- Identifying each designated polling staff by an unique serial no
- Online sharing/movement of Police personnel database for different phases of elections by concerned Police Administrations.
- Monitoring of Force movement/arrival against allotment to the district.
- Standardized application for Parliament and Assembly Elections with capability to support local elections to Nagar palika, Panchayat (Local Bodies Election) etc.
- Preparation of Force Identity Card, used during poll duty.
- Generation of Command letters with photograph & deputed Force Identity Card.
- Automated deployment of police force on election booth for free and fair elections.
- Helpdesk and Online Search facility for duty of Police Personnel and Home guards & SMS alert.

#### **Functionalities**

- Deployment of forces (DAP, SAP, CID etc) and Home guards on Booths Building, PCCP with randomization technique.
- First step is to master data entry/ updating for Police offices and nodal officer, Police personnel and Booth buildings from district level.
- Phase wise movement plan is entered by the state nodal of Police HQ.
- Donner districts select the forces officers and constables and send to recipient districts. Transfer SMS is sent to concerned police personnel.
- CAPF entry
- Recipient district receives the data and lock it and starts randomization process.
- Before staring the process no. of strength in a party is filled. In case of female police constable it is mandatory to deploy at least two in a party. Select the strength from districts and randomized. Command and duty slip is generated.
- After randomization in case of PCCP, magistrate and police officers data is exchanged online from EPMIS and then PCCP command generates.



### **Force Deployment Software**

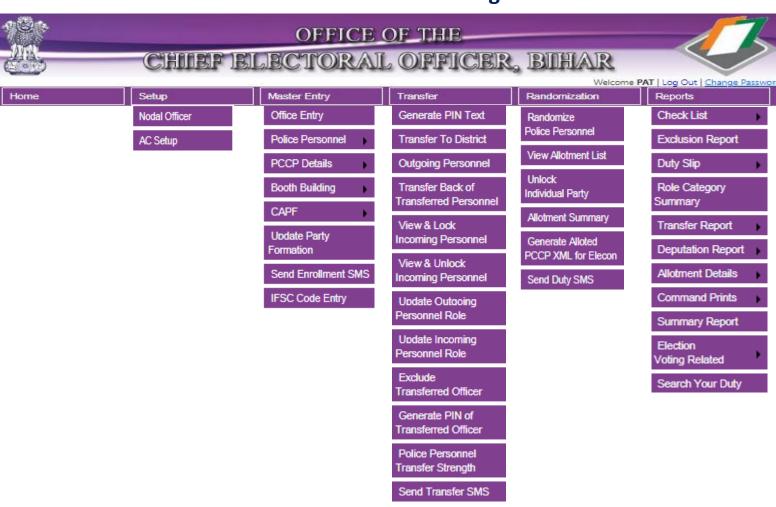


# Benefits, Impacts & Achievements

- Centralized Database
- Centralized Support
- Centralized as well as distributed backup plan
- Multiple reports
- Poll-day Communication Plan
- Distributed Monitoring mechanism
- District level and State Level Dashboard
- 24\*7 Availability



#### **Modules-District login**





## GIS based Solutions for State Election Commission, Bihar



A web and GIS based portal has been created which shall not only assist in providing the Election related service in the state but also act as a decision support system to plan and execute election related activities. The portal shall help State Election Team in monitoring and allow to generates reports to the concerned authorities.

http://164.100.37.22/EleBooth/Default.aspx (Web Portal) https://gis.bih.nic.in/DEPTS/secb.aspx (GIS Portal)

Ele-Booh
Application
&
Mobile
Apps

าร

Ele-Booth mobile App has proved to be a simple and easy solution for real-time location, multimedia and attribute data collection right within your mobile platform in the field.

According to Ele-Booth, everything you need right in the field to achieve real-time data collection and upload to the server is provided in the app.

https://play.google.com/store/apps/details?id=in.nic.bih.boothlocator

#### **Key Features**

- ✓ GIS Layers for ULB, Ward, Booth and important Places of the Bihar
- ✓ Streamline Election Management
  - It Helps Coverage and Proximity of Thana, Vulnerability Mapping, Preparation of Route Charts for Force Traversal for the State Election Commission of Bihar.
  - Officials coordinate a wide range of factors, like inspecting polling places, securing voting systems, registering absentee or provisional ballots and communicating with members of the public.
  - Election officials can either share the information in real-time during voting hours or analyze the data post-election to inform

#### **Key Statistics**

- ✓ Web User 300
- ✓ ULB Ward Boundary Created 246
- ✓ Booth Location Approved 11805
- ✓ Booth E-Roll Updated 8258

#### **Key Features**

- ✓ Offline data capture
- ✓ Media (photos) enriched location information
- Dropdowns, lists and input boxes based on custom forms
- Review data attributes directly in the app
- Real time GPS location
- Situating polling places in easily accessible locations to reduce the need for voters to travel long distances.
- Available on Google Play Store

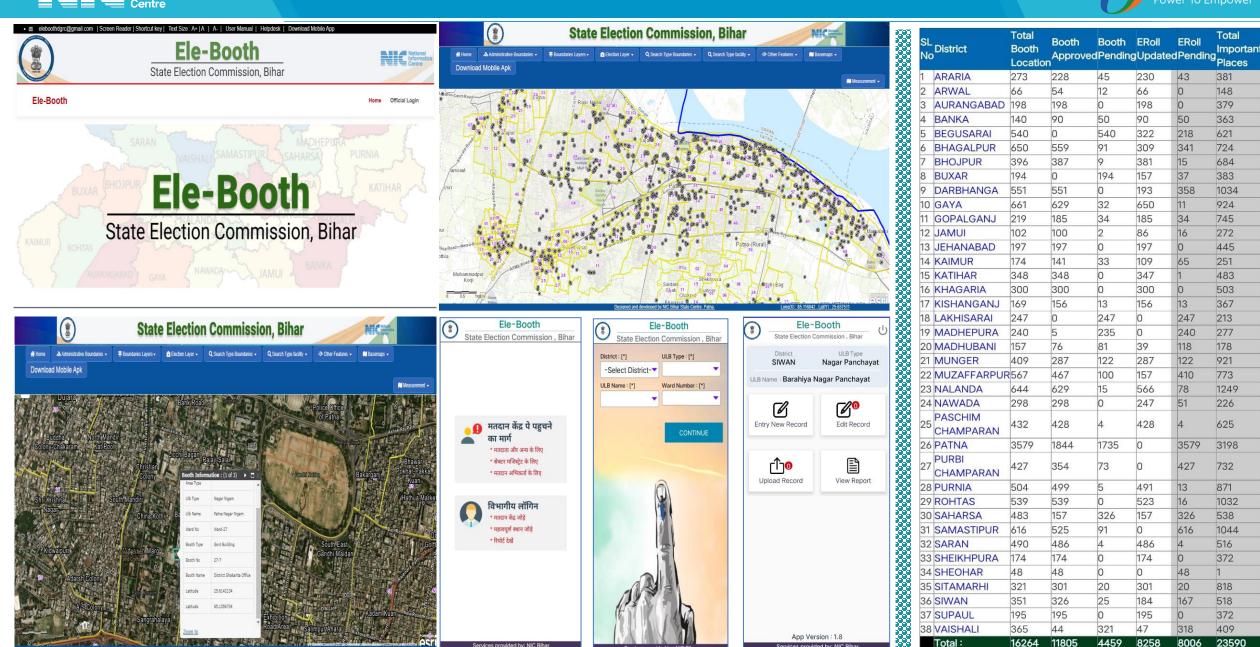
#### **Key Statistics**

- ✓ Mobile User Registered (Official & Public) 3120
- ✓ Booth Location Captured 16264
- ✓ Important Places Captured 23590



## GIS based Solutions for State Election Commission, Bihar







# Integrated Mining Management Information System



IMMIS is proposed to be implemented at Mining department. This is a web based platform for bringing efficiency and transparency to mineral administration in the State. There are many critical business processes involved in various level of activities related to mineral production and consumption by the consumers. To ensure end to end mapping of mining regulatory and monitoring process, field visits and interviews of variety of stakeholders was done. The difficulties faced day-to-day by the Government were mapped.

#### **IMMIS-Features**

- Multi-channel accessibility via web and mobile interfaces.
- Single window to the G2B, G2G and G2C services.
- Mobile Applications are provided for collection of data at source.
- Responsive Design
- 24/7 Accessibility.
- Content personalization and Content management.
- Multifactor Authentication
- 24/7 Accessibility

#### **IMMIS-Deliverables**

- Dashboard for the Department
- User Registration, Authentication and Profile Management
- Master Creation of Rivers, Ghats, Settlee profile, Stockiest Profile.
- Vehicle Registration and validation of vehicle details with Transport Department data through API.
- Online e-Challan Generation by settlee / stockist using his/her credential.
- Mobile Application for Field Level functionaries for Challan verification.
- Facility to apply online for K-License and Online issuance of K-License.
- Online e-payment facility.
- Capacity building and Change Management Statewide Rollout.
- GIS Layers for Mines areas for Bihar.
- Geo-tagged repository of available resources.

#### **IMMIS-Benefits, Impacts & Achievements**

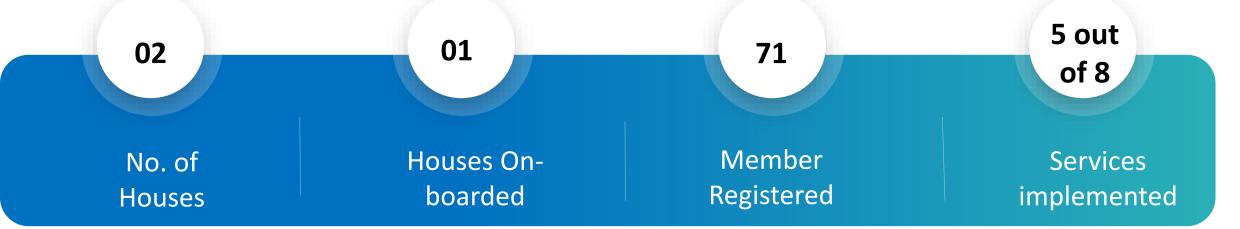
- Strengthen mineral administration.
- Enforcement of mineral laws and rules.
- User friendly screens to update mining statutes time-to-time.
- Monitoring transporters activity involved in mineral dispatch.
- Monitoring of processes through IT based systems
- Facilitate Mining Department to curb the issuing of fake challan.
- Proper control mechanism of Challan Generation :-
  - With Ghat /District wise target of Mineral Extraction .
  - With Installment wise payment of royalty by settlee.
  - With Lease validity of Settlee.
- Adoption of ICT tools for delivery of services



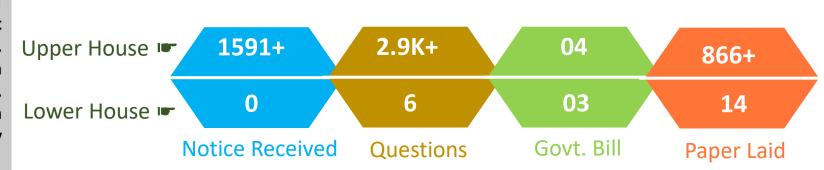
## National eVidhan Application (NEVA)

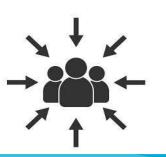


# **One Nation One Application**



Bihar Legislative Council become the 1<sup>st</sup> digital house of the country where 199<sup>th</sup> session has been carried out through National eVihadn Application from 29<sup>th</sup> Nov. 2021 to 3<sup>rd</sup> Dec 2021. The inauguration of NEVA has been done by Hon'ble chairman Bihar Legislative Council. Webcasting of 17<sup>th</sup> Bihar Legislative Assembly -5<sup>th</sup> session and 200<sup>th</sup> session of Bihar Legislative Council has done by NIC.





Device Neutral Member centric

**Key Features** 





## **GST Prime**





the officers of different levels

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

5728

Monitors and Helps the tax administrators to analyze and monitor the tax collection and compliance Increase in Tax within their jurisdiction **Ensures GST** collection Compliance Provides analyzed and actionable reports and helps to enforce GST in a more efficient and effective manner. Detection of Tax Real Time Data Evasions and Analytics Frauds Various tax analysis charts are available for the higher administrations to take 3 informed decisions on deployment of resources, analysis on how much and what type of taxes are collected and many more New Total GST Collected-Registration-Role based access in near real time through simple and user friendly interfaces for all 3333.08 Lakh



# 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 children. vulnerable 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 -201
Children Recovered - 42
Matched Out of Missing -7
Still Missing – 194
Match Out of Recover -8
Recovered but Family Untraced -34





# **Mobile Applications**



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

		The state of the s
services services secretary	नी- नाली पवकीकर	
Demokas	- O	Minus Stand Patrick (Sales)
हिल्ला गंभी वासीमा प्रेम जार स्थान गंभी वासीमा प्रेम जार		
मुख्य भंगी सामीक गली-नाली	चनकीकरण निश्चय भौतिक निश्चीवाण	-
🌉 गार्च-दोर	गाति रिपोर्ट १ की स्थिति	
Becutes provided by t	HC Bitter (v.2 oj	3

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
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
Aangan Bihar	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
eLabharthi Bihar	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
ePACS Bihar Payment	Used by Co-operative Banks for payment to PACS/VMs based paddy procurement figures.	Rural
Disaster Management	Helps in capturing the damages to households from a Disaster	Rural
e-Chapakal	This app is for monitoring of Chapakal Yojna for each Village of Public Health Engineering Department of Govt. Of Bihar	Rural
ePACSInspection	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
e-Peyjal	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 the toilet data of 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

जिल्ला वीक्या जल-जीवम-ड	LA Charles	्री रिक लॉग इन
सीमाईल कमा प्रमानी		
	शींग इन करें	
पासवर्त वाच वने		र्वाजिस्टर कर्ने
	। वर वर्जन्द्रः	



# **Mobile Applications**



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लॉग इन	
S 4500	
यूज़र आईटी	
adm93639	
पासवर्ड	
••••	
□पासवर्ड देखें	
	लॉग इन
App	
	es provided by: NIC Bihar

Mobile App	Description	Sectors/Domains
BCD	This app is developed for inspection of building under Scheme wise.	Housing
-Niwas	This app has been developed to inspection of Vacant & allotted flat under e-Niwas with Geo-tag image. Department -Environment & Forest	Housing
Goatry	This app is developed for JEEViKA, Bihar. Through this application we can know the exact number of beneficiaries and outreach of the project.	Rural
ire Services	This app is used to capture Fire service building and its lat lang.	Rural
-Anudan Yojana (Kabir Inteyeshti)	In case of death of a member belonging to below poverty line (BPL) family, financial assistance is provided by Social welfare department for	Rural
ealth 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
Vard 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





# **Mobile Applications**



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them are:



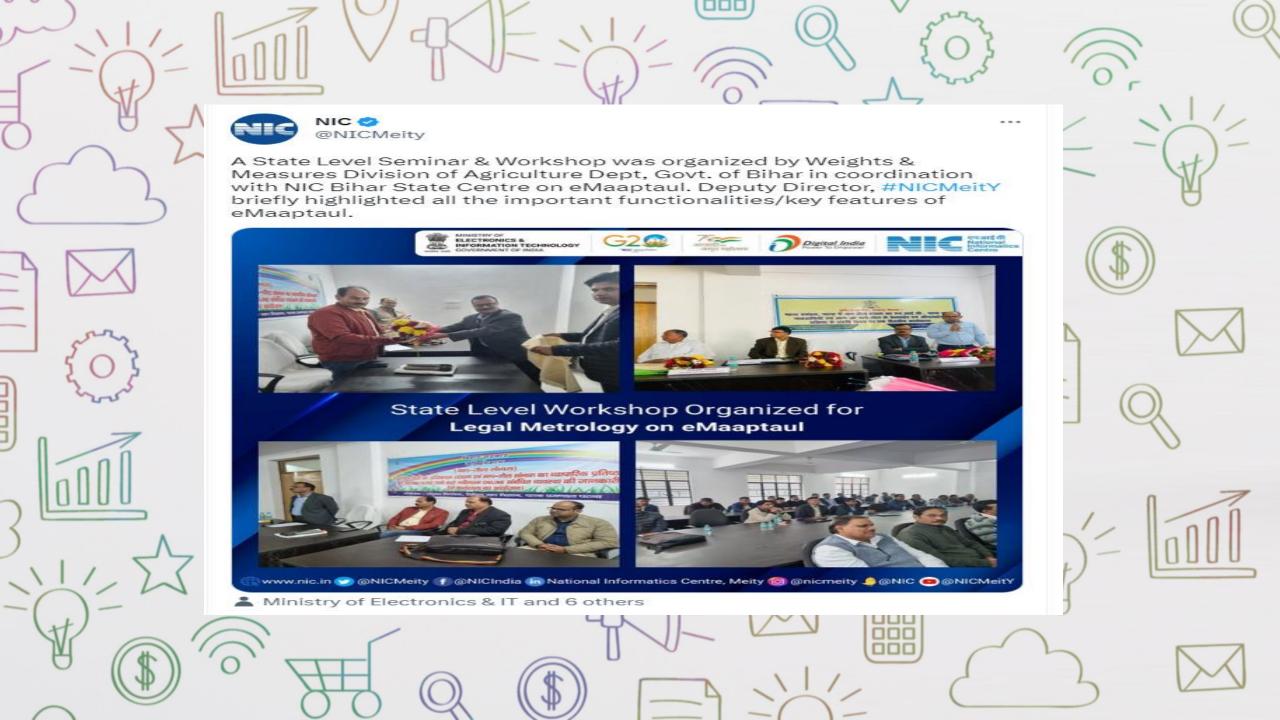
Mobile App	Description	Sectors/Domains
e-Sahkari	The Government is helping farmers by providing subsidies to procure machinery to improve farm input and farm power availability. The Application has been developed to monitor the procurement of subsidized machinery.	Agriculture
AHMS	Advertisement Hoarding Management System is for the management and maintenanace of hoardings placed by Government.	State Government
Ele - Booth	This App is for departmental use of Chief election officers for Capturing the location of Booth & Major Utilities.	CEO, Bihar
Post Matric Scholarship	The application has been developed to support the functionality of web portal. With the help of app, a student can enroll himself/herself for scholarship, Institute can verify that student and proceed their application for further process.	Education
EOC Reporting App	The app has been developed for Disaster Management (Government of Bihar) for the inspection of the condition of loss caused by natural hazards like flood.	Disaster
Grih Darshan	The app has been developed for The GIS mapping of major utilities and offices under home department.	Home Department
Disaster Rescue & Relief	The app has been developed for tracking the movement of SDRF, NDRF team assigned for different Relief and Rescue operation performed during the occurrence of any disaster .	Disaster
Prak	The app has been developed for BC/EBC department, Govt. Of Bihar for the training purpose of the of BC/EBC candidate for different competitive examination. This application will mark the attendance of such candidates who will participate in the training.	Social Welfare Department
Kala Sanskriti Darshan	This app has been developed for Youth Art and Culture Department of Bihar.	Youth Art and Culture Department
Janta Ke Darbar me Mukhyamantri	The App has been developed for the Chief Minister Bihar, to establish direct communication with the people of the state, to be aware of their problems and grievances and to establish an effective system for their speedy redressal.	Chief Minister Office

































# NATIONAL INFORMATICS CENTRE

Driving Digital Transformation in Government