NATIONAL INFORMATICS CENTRE
Bihar State Centre

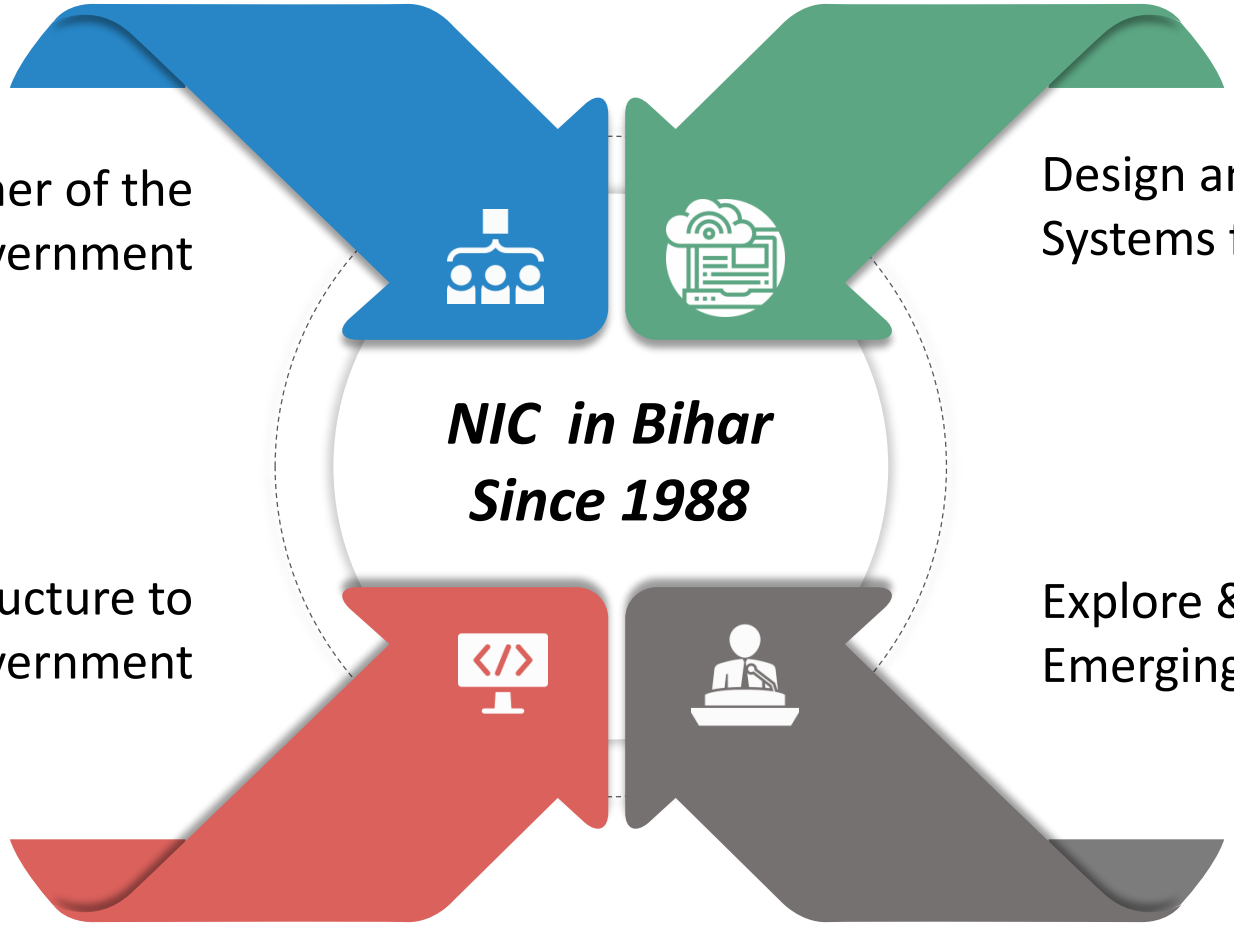
Ministry of Electronics & Information Technology
Government of India

December 2021

NIC Mandate

Technology partner of the Government

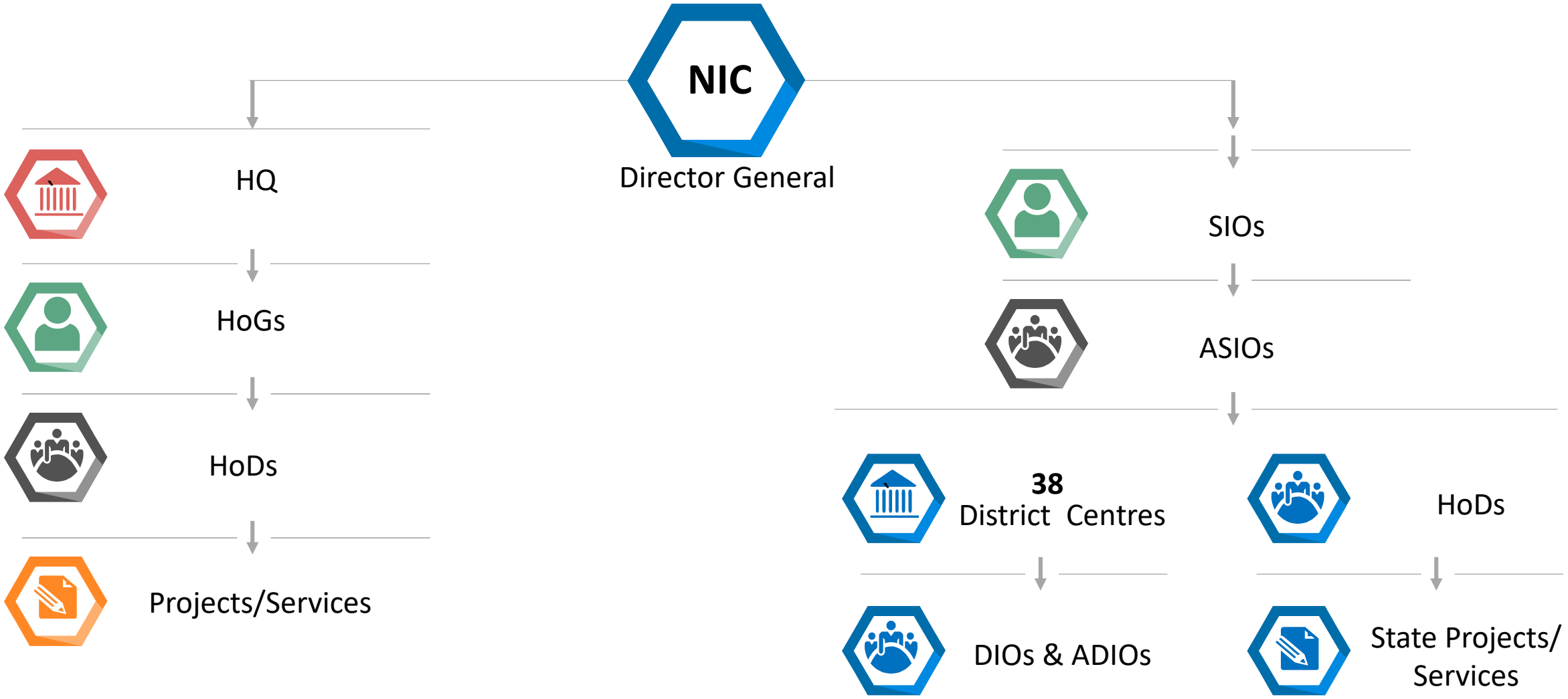
Design and Develop IT Systems for the Government



Provide ICT Infrastructure to the Government

Explore & Advise on use of Emerging Technologies

Organisation Structure

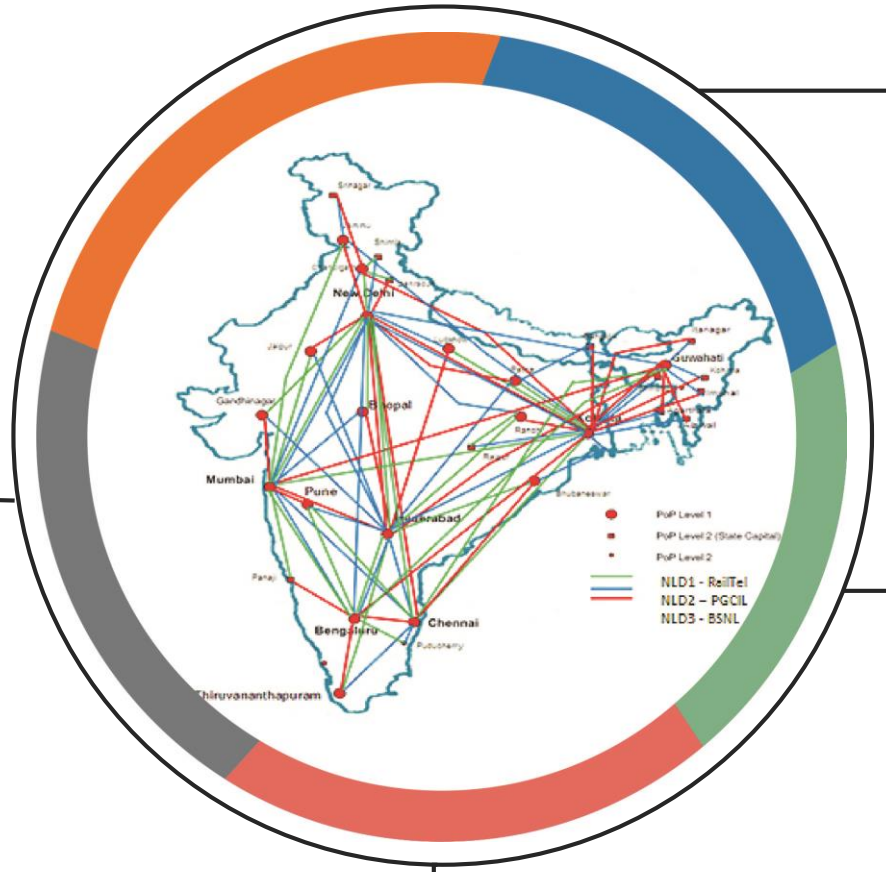


DIGITAL
Platforms
and Products

NIC NETWORK

Connectivity from **State Capitals** to **Districts** using 34/100 Mbps/ 1Gbps **leased** circuits

National long distance **high speed** (multiple 10 Gbps) leased **data circuits** to **state capitals**



Connects Bihar **Data Centre and Mini-Cloud** on high-speed network

Secure access through **VPN** and **Secure Wi-Fi Services**

NICNET - Network Backbone for Bihar

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

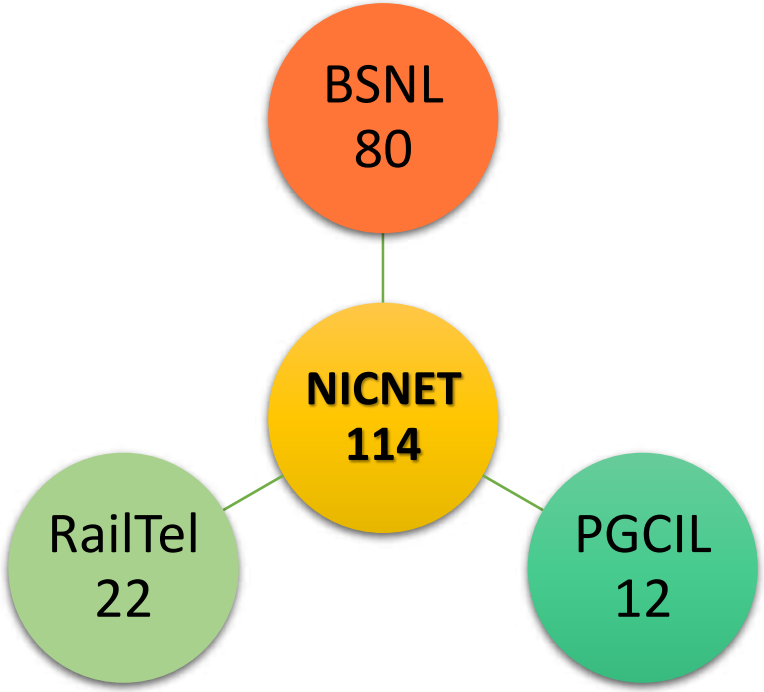
Links provided to the Central Government Offices

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/

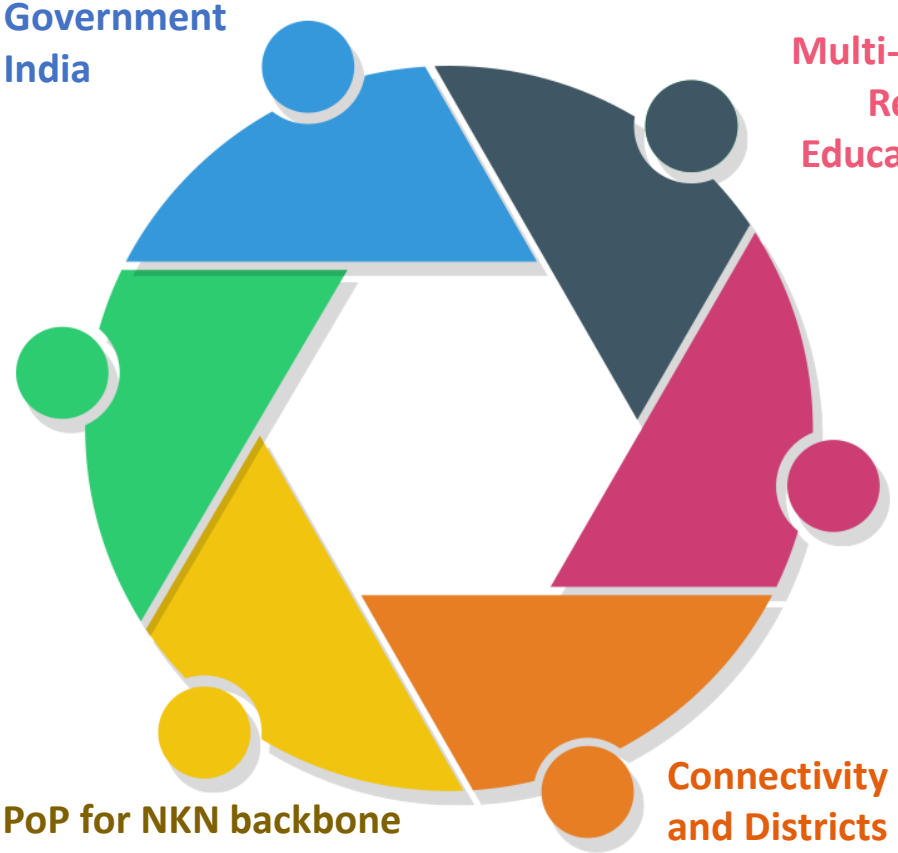
1800 111 555

SUPPORT

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

National Knowledge Network



Project of Government of India

Multi-gigabit National Research and Educational Network

High speed network backbone

Connected to 3 Super Core PoPs

Patna - Core PoP for NKN backbone

Connectivity to Institutes and Districts across Bihar

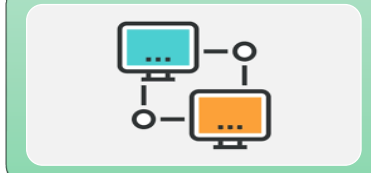
NKN – National Knowledge Network: Services

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

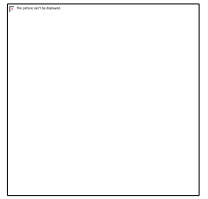
NKN Connectivity

- 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

56

VC Studios



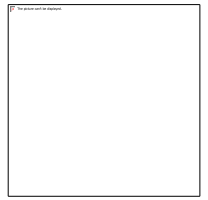
260+

VIP VC Sessions in 2021

NIC is offering VC services since 1995

2229

VC Sessions In 2021



38194.00

VC Hours in 2021

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– 153
- No. of Cloud Accounts Created – 62
- Load Balancer Created for -11 applications
- Backup Services allocated - 89
- Public IP allocated to Cloud Users -57

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 & IaaS

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
- Jitsi VC
- 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
- District Health Society Nalanda
- 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

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 16500 email accounts have been created and managed for State Government Offices

2FA Kavach software https://kavach.mail.gov.in implemented for all user of Bihar State

Profile Update through https://profile.nic.in of Bihar State User

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

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

DIGITAL
Government

Digital India Land Record Modernisation Programme(DILRMP)

Management of Land Records using Digital Technologies

1 Bhu-Abhilekh
(For maintaining Chalu-Khatiyan)
1.30 Crore Holders, 4.4 Crore Plots

2 Online Jamabandi
(For Khatiyan data and Lagan Calculation)
3.89 Crore Records, 5.98 Crore Plot details
Services: Online Mutation, Lagan & LPC using Digital Records of Register-II

3 Online Mutation
(66.57 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. 168.65 Crore have been collected so far and 50.27 Crore has been collected in current financial year 2021-22

5 Online Land Possession Certificate
Needed by Citizens for obtaining a loan from the bank. Till date 2.49 lacs applications received and 2.32 Lacs disposed.

6 Online Parimarjan
Accepts applications from Citizens for necessary correction in Jamabandi Records. 14.41 Lacs applications received and 12.00 Lacs disposed.

7 Bhu-Manchitra
1.20 Lakh digitized Operational Maps at Mauza/Village level.
(Around Rs. 17.73 Crores have been collected from 12.00 Lakh copies sold.)

8 Bhu-Naksha
GIS Tool for generation of Land Parcel Maps (LPM) in ongoing Special Survey in Bihar. Till now digial map of 241 villages of 8 districts have been uploaded.

9 Suo-Moto Mutation
Registration of Sale to trigger automatic updation of Ownership details. Total 46990 applications received for mutation till date.

10 DCLR Court Case Management NEW
Out of 7111 cases 867 cases has been disposed using DCLR court case management system launced in August 2021 .

http://dlrs.bihar.gov.in, http://biharbhumi.bihar.gov.in, http://bhulagan.bihar.gov.in, http://bhunaksha.bihar.gov.in

e-PDS

01

1.79 Crore Ration card
8.71 Crore beneficiary

02

FPS Management implemented in the state.

03

48880 Fair Price Shop using POS device

04

Approx. 93% families received food grains using Aadhaar Authentication

05

Implemented Supply Chain Management System across the State.

06

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

07

DigiLocker

Linked with the DigiLocker App

08

Linked with Ayushman Bharat Yojna

Forest Management Information System(FMIS)

Objectives :

Forest management Information System is a micro-l evel 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

Mobile Apps

Key Features

- ✓ Supports “Mission 5 crore Plantation for the year 2021 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 – 16058
- ✓ Total Plant Requested – 16464947, Plant Distributed – 7145626
- ✓ 10 K+ downloads

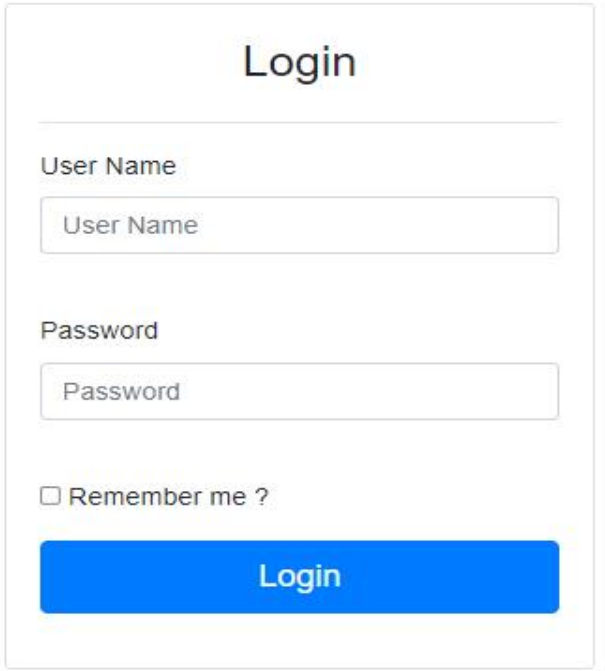
Key Features

- ✓ 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

- ✓ Registered User - 1155
- ✓ Registered Plantation Scheme-2299
- ✓ Registered Nursery Scheme-296
- ✓ Registered Others Scheme-258

Digital Library



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 :

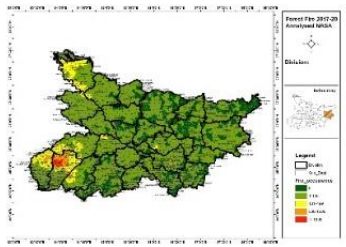
- ✓ Total No. of Stored files – 1667
- ✓ HARIYALI-MISSION-60, DFO-3, CCF(IT)-1580
- ✓ Total No. of Publicity-60, Forestery-10, Map-1559, Others-38

GIS for FMIS Project

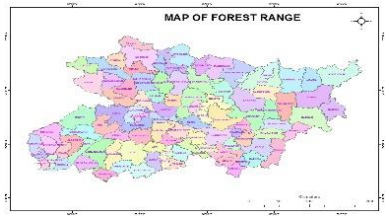
GIS

Forest Fire Analysis

Forest Fire analysis using NASA fire data and creation of map according to analysis

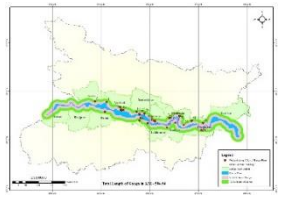


New Forest Admin Boundaries



Creation on new Ranges, Beat & Sub-Beat Boundaries

Wetland Mapping along side Ganga

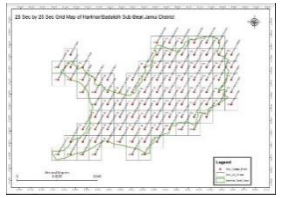


Identifying & creation of map and GIS layers of wetland Mapping along side of Ganga River

CAMPA

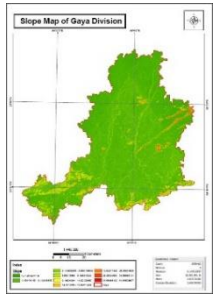
Creating multiple Maps of Campa Work i.e. Petrol pump, NH Railway line etc.

Sub-Beat wise Grid Mapping of Jamui Division



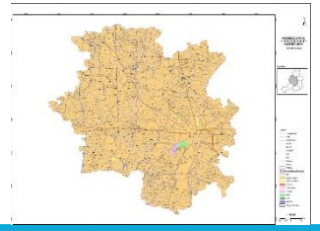
Creation of 25 sec /25 sec grid map & grid map with satellite imagery of Jamui Division

3D Analysis of Gaya



3D analysis of Gaya Forest Division Creating Slope, Hill shade & Aspect Ratio Map

Linear Plantation



Creation Range wise of linear plantation map of 28 divisions using Forest classification data from FSI

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
- VC & Pro VC Recruitment Portal
- Online Document Distribution System
- Pay Roll System
- Garden Event Pass Management System
- Reporting System for Universities(UMIS)
- eOffice
- University Law Search Portal
- Android Application for UMIS

Court Informatics

Our Key Services

- Case Information System(CIS HC NC 1.0 and CIS NC 3.2)
- Court through VC & Studio Based VC
- e-filing , ePayment & Challan Defacement
- Development of Periphery Modules & CIS Log Reader
- SMS, email services & Real time data replication to NJDG
- Website Development, ICT Support,Training & Report Compilation.
- Comprehensive Report Management & Record Room File Management
- **Computerization of Courts of**
  - Board of Revenue
  - State Appellate Authority Education Department
  - Real Estate Appellate Tribunal (REAT)
  - Divisional Commissioner
  - District Collector-cum-District Magistrate.

Services provided to

- 1 Patna High Court
- 1 Legal Services (Lok Adalat)
- 79 37 Districts & 42 Sub-Divisional Courts
- 5 Courts of Gov. Of Bihar Departments

Statistics

- No. of Cases available - 2347601+
- Disposed Cases - 2101046+
- Pending Cases - 226762+
- E-Filed Cases - 113804+
- Reg. Adv. on e-filing portal - 3284+
- Challan Defaced - 829+
- Judgment uploaded - 1147342+
- Advocate on Record - 5616+

Court Complexes 90

Court Establishment 224

No. of Courts 1352

NIC Chief Secretary Cell

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

IMPLEMENTATION

14 Services
ebihPAR

3600 Officers
ebihPAR

3 Bhawans
eBhawan

2674 users and
8255 applications
eBhawan

54 Departments
38 Districts
CPGRAM-Bihar

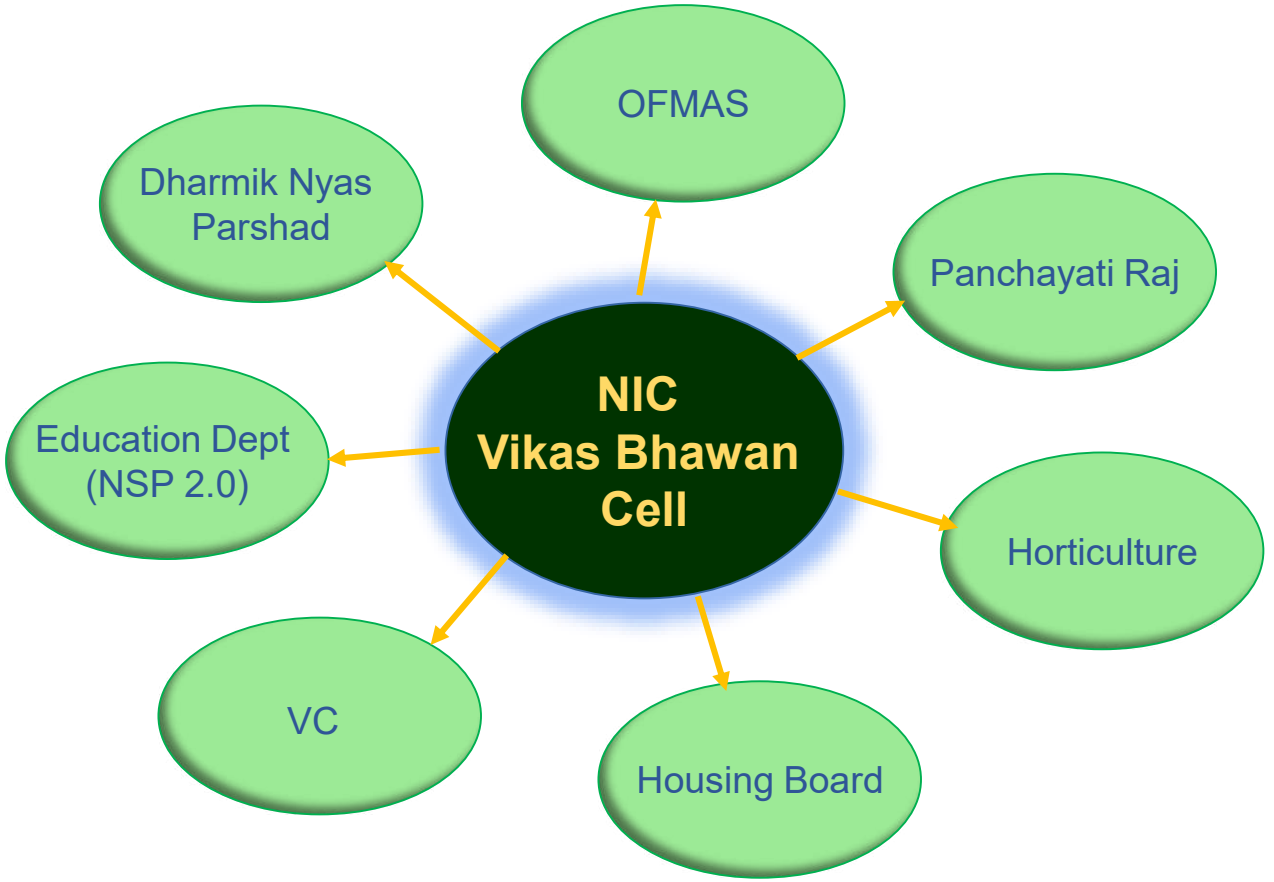
86 Companies Registered
eNBFC

3 VC Studios
Video Conferencing

Applications and ICT Services

- ebihPAR (Bihar Sparrow)
- CPGRAM-Bihar
- eBhawan
- Video Conferencing
- eVikas
- 20 CSMI Bihar
- eNBFC
- eSamiksha

Project and Support extended through NIC Vikas Bhawan Cell



National Informatics Centre

बिहार सरकार
सूचना प्रावैधिकी विभाग

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

ServicePlus
eService Delivery Framework

Digital India
Power To Empower

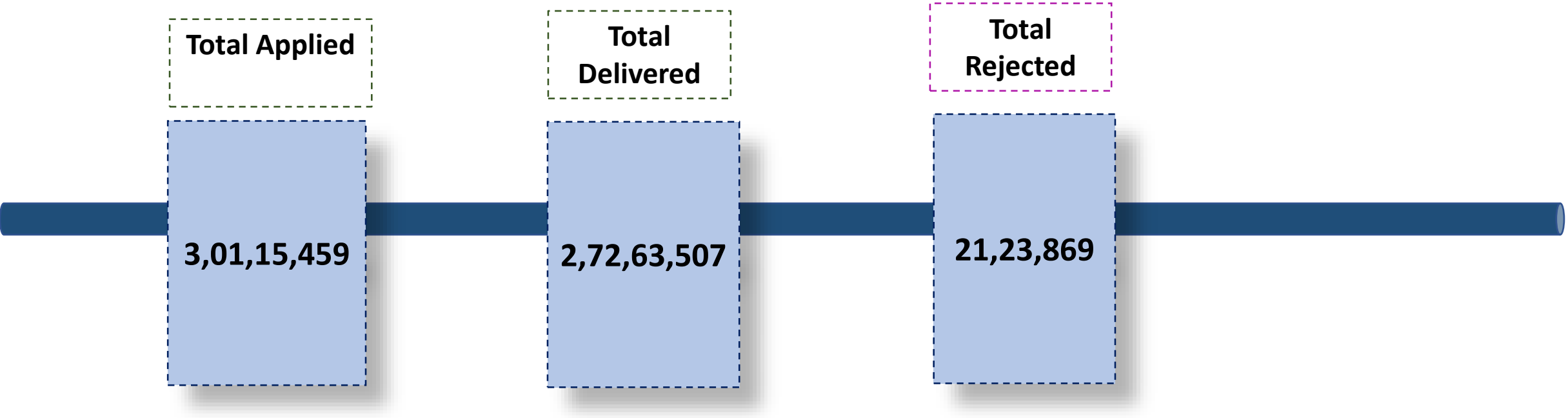
https://serviceonline.bihar.gov.in
https://serviceonline.bihar.gov.in/officials

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

Departments	e-Services Configured	e-Services Launched	e-Services Operational
5 (On-Board) 10 (In-Pipeline)	86	68	59

Facilitates → Central Government → State Government → Local Government

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



* Application Count of all services given above are since 2017

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

Activities

1. GAD

OBC(NCL) For GOI. Major version launched at RO, SDO And DM Level.

2. Home Department

Bulk signing of applications enabled in character service.
Application Review feature is started at DIG level for those applications which got rejected at SP level.
Report at thana level started in character Service.

4. Tourism Department

OGRAS payment integration and testing done(Testing still going on, will be finalised shortly).

3. LGD

New Police Stations were added.
Various corrections done in panchayat and blocks.

6. Web Service related to DBT

A web service has been developed to share data with DGRC for certificate verification.

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**

DBT OPERATIONS

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 :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

DBT OPERATIONS

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:

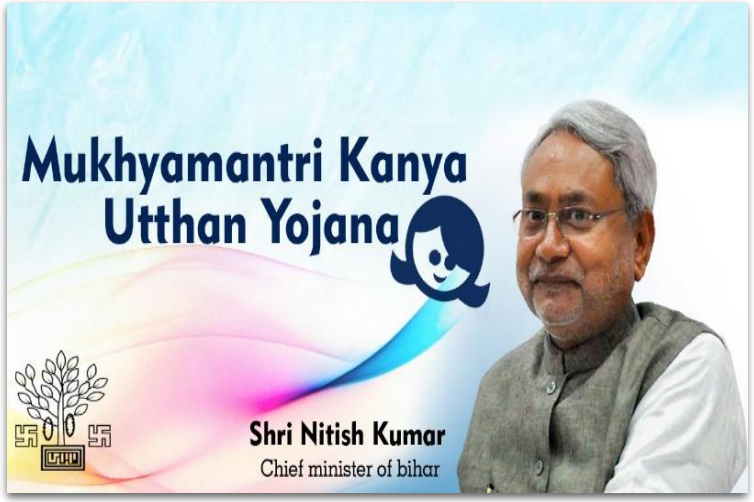
- Maternal health
- Family planning program
- Immunization/regular vaccination by Asha and other voluntary workers
- Child health
- RKSK Program
- Asha Program
- NPCDCS Program
- National Program
- AB-PMJAY Program

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 3rd to 5th std	Rs. 700
6	Between 6th to 8th std	Rs. 1000
7	Between 9th to 12th	Rs. 1500
8	On Passing 10th	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 25th 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.

Jal Jeevan Hariyali

- **Jal Jeevan Hariyali** Mission is an initiative of Government of Bihar to address the problem of Climate Change by re-strengthening 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.

E-Office - A Digital Workplace Solution

eOffice
A DIGITAL WORKPLACE SOLUTION

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

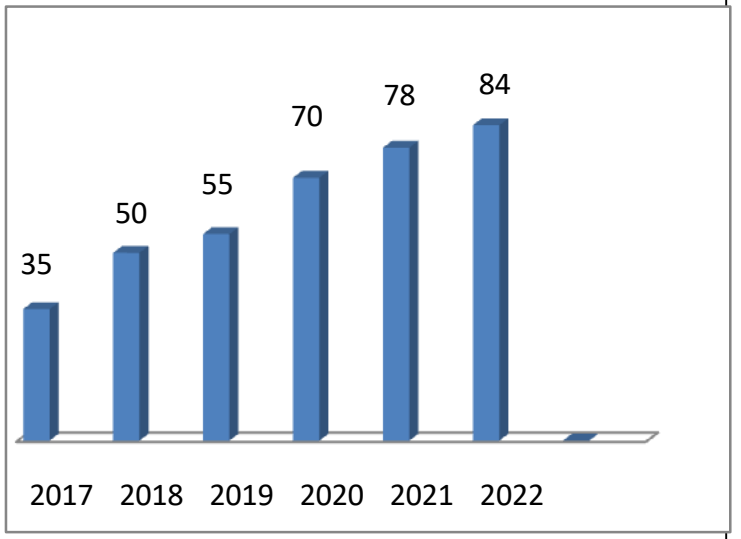
IMPLEMENTATION

37 Departments across Secretariat Buildings	**41** Subsidiaries across State Head Quarter @ Patna
6 Districts across Bihar State	26325 + eFiles
680804+ eReceipts	**8620+** Users

- 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

GROWTH

Growth of eOffice Implementation



Weights & Measurements Management Information System(WeMMIS)

Weights & MeasureS Division, Agriculture Department

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

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.

1. 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.
4. Issuance of Licence of Repairer of Weights and Measures Instruments.
5. Renewal Of Licence Of Manufacturer of Weights and Measures Instruments.
6. Renewal Of Licence Of Dealer of Weights and Measures Instruments.
7. Renewal Of Licence Of Repairer of Weights and Measures Instruments.
8. Registration of Manufacturer / Importer of Package Commodities

Smart Energy Infrastructure & Revenue Administration - BIHAR

Web based Energy Billing Application:

Caters to 1.65 Crore rural consumer

Mobile Apps for APL Survey:

1) Survey for new service connection and Verification 42 Lakh + Rural Households

2) 41.5 Lakh + got connection

Energy Spot Billing Mobile Apps:

Implemented for 1.25 Crore + consumers

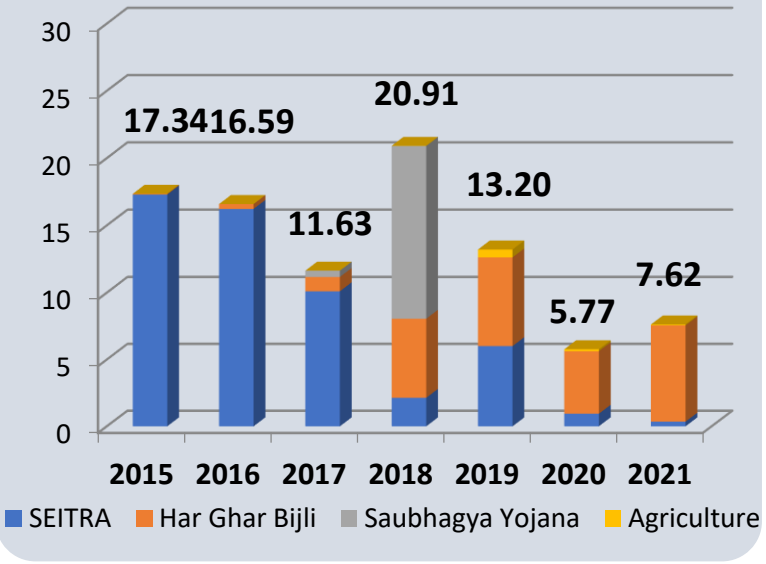
E- Wallet Mobile Apps:

Door step collection of energy bill from 12 Crore of consumers

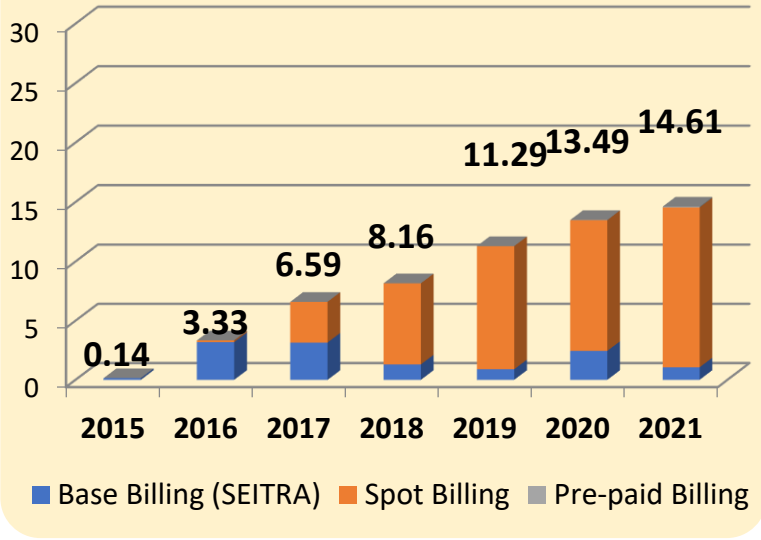
Billing of Pre-paid SMART meters:

Total Bills Generated 724547.

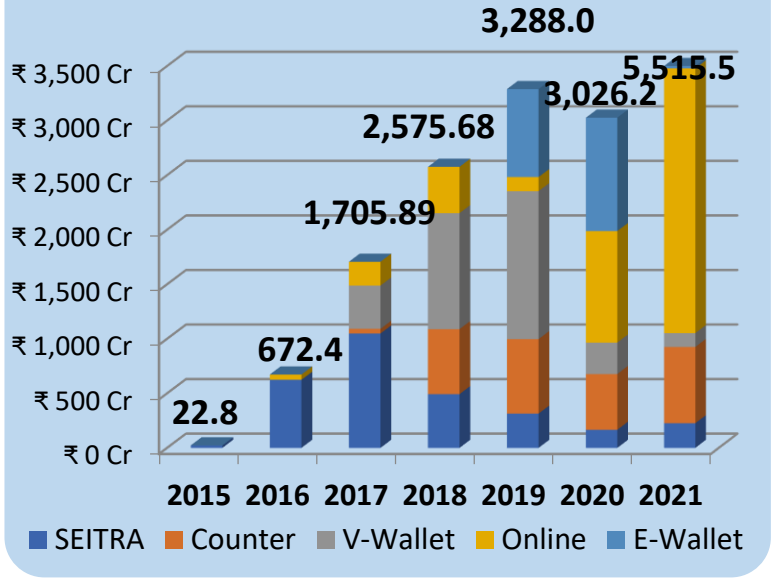
New Connection (in Lakh)



Bill Generation (in Crore)



Revenue Collection (in Crore)



E-Prisons

Digital Innovation in Correctional Homes

08	33	59	69.3 K+
Central Jails	District Jails	Prisons On-boarded	Inmates Inside

Bihar was 2nd in India in terms of total virtual visits with 27251 in the year 2020 after Rajsthan and at present it is on top with 151130 virtual visits till now in year 2021.
Online and Offileine physical eMulakat has been started on 16.11.2021

19.9 K+
Prisoner Admission
In Nov '2021

35.3 K+
eMulakat
(Virtual and Physical Visits)
In Nov' 2021

Role based Dashboards

Key Features

Video Conferencing Facility for Courts and Family

Home Guard

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

Roster Registration & Alerts

- Missed Call: 01122901702
- Online with OTP
- Roster Registration Conformation through SMS on Home Guard Mobile.
- Roster Current Position Status for Home guard.

Type of Kamaan & Generation

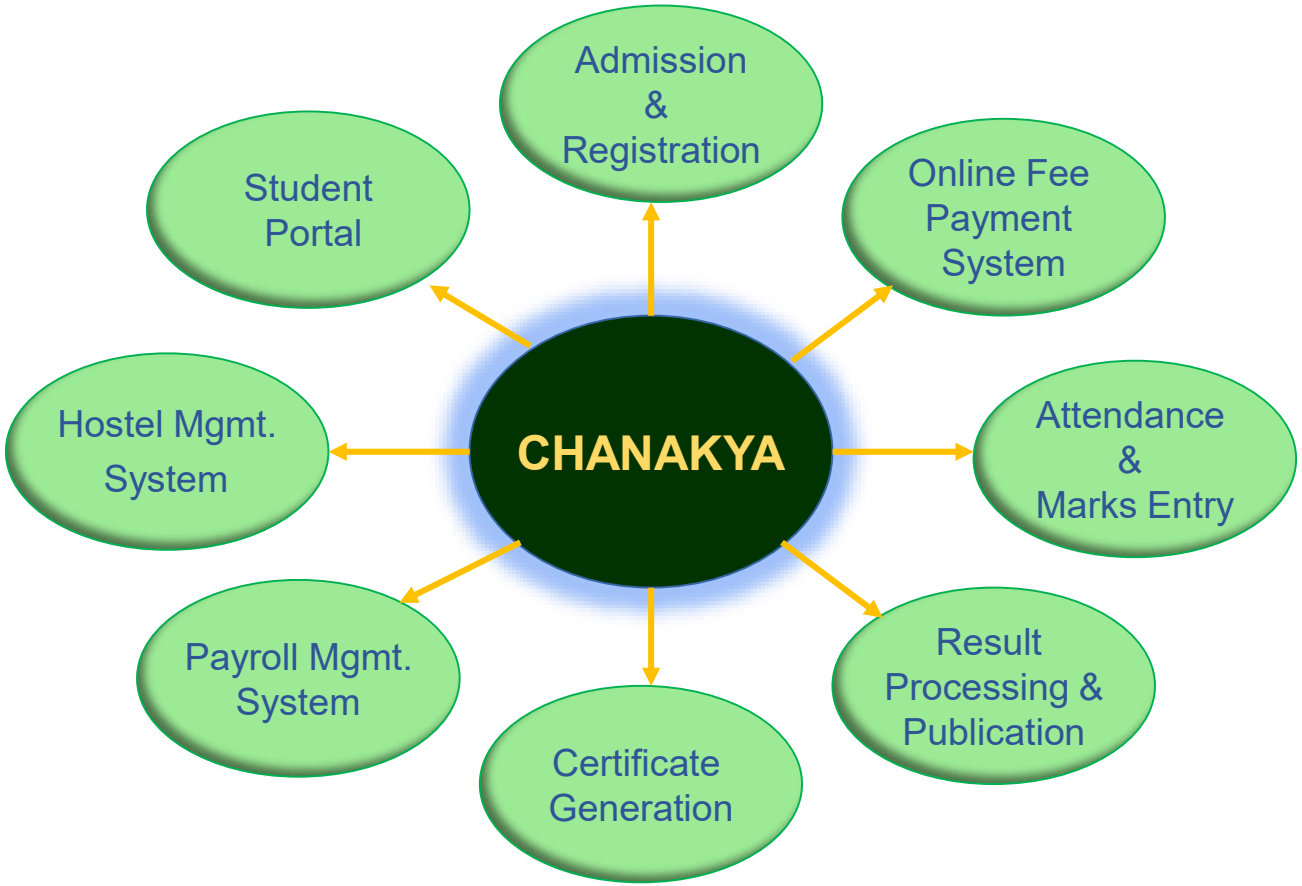
ATTENDANCE

- 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** is a web enabled application for computerization of all the pre & post examination activities of universities/institutions along with **Payroll management & Hostel Management system.**



Chanakya has been implemented at:

NIT Patna

NIT Durgapur

BASU Patna

MMHA & PU Patna

KSDSU Darbhanga

NNM Nalanda

MMBU Agartala

Chanakya project is also under the process of implementation at:

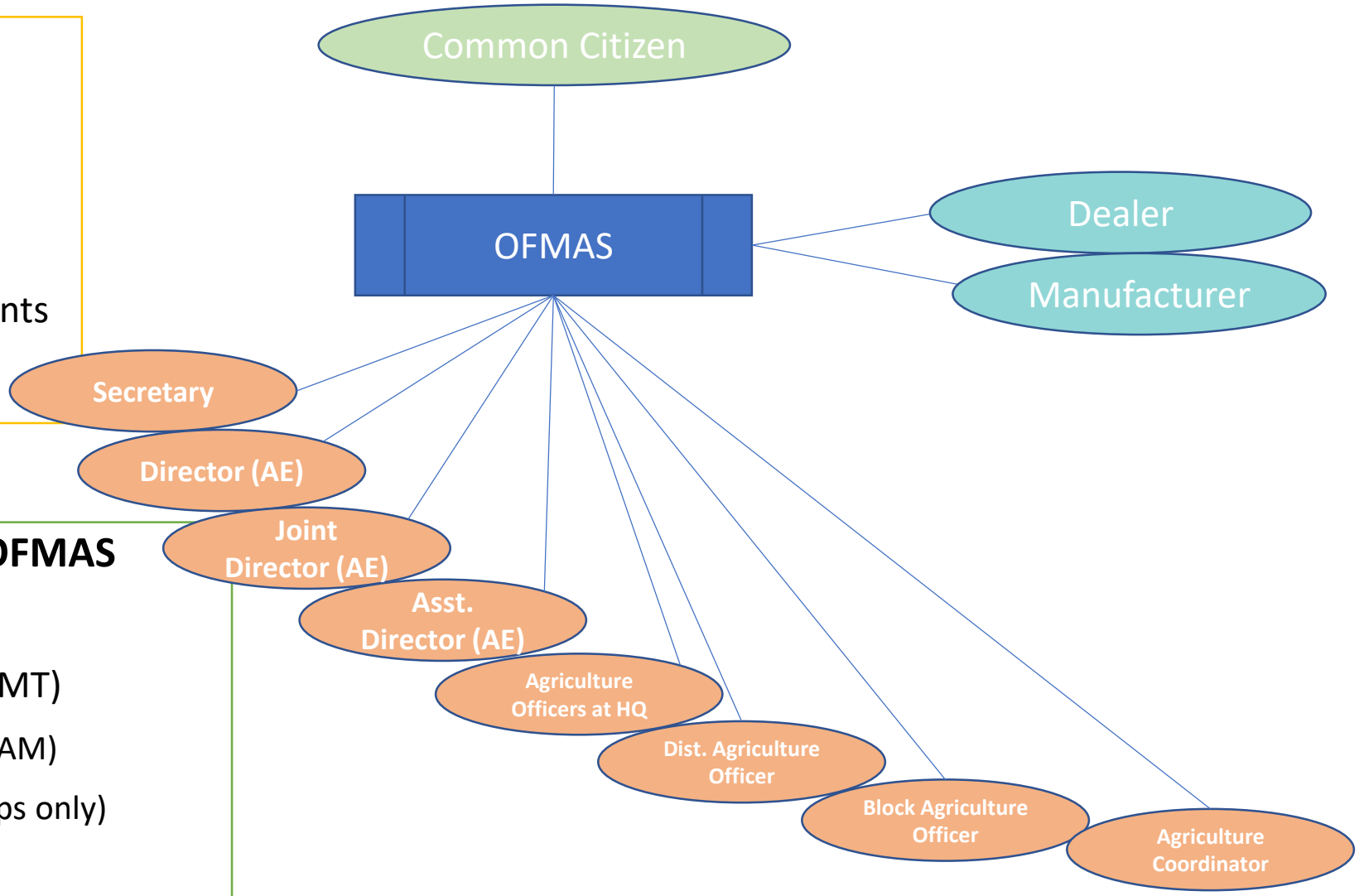
- IGIMS, Patna
- BIT Sindri, Jharkhand

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.

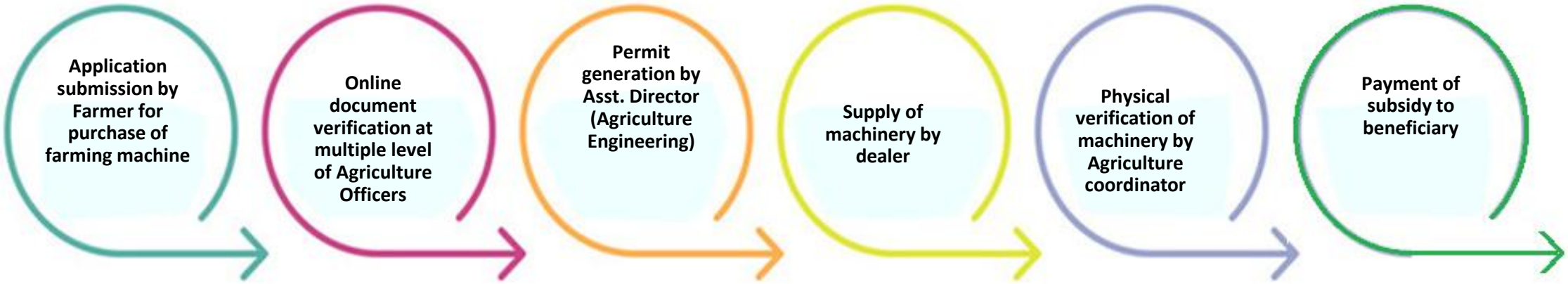


Other Scheme Running through OFMAS

- ❖ 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)

Online Farm Mechanization Application Software

(Solution for Disbursement of Input Subsidy on Farm Machinery)



OFMAS Transactions in Financial Year (2020-21)

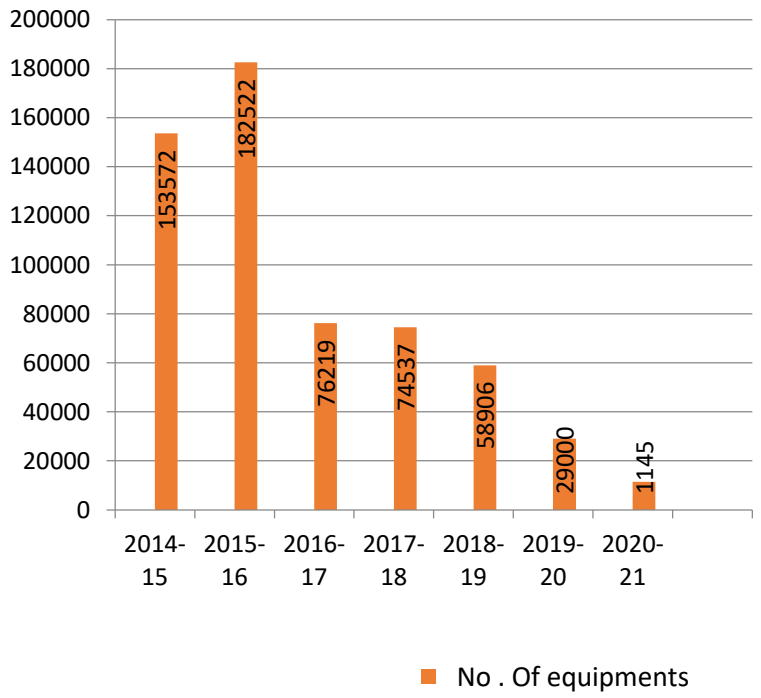
48695
Farmers applied through OFMAS for purchase of farm machinery

23707
Permit generated to purchase of machinery

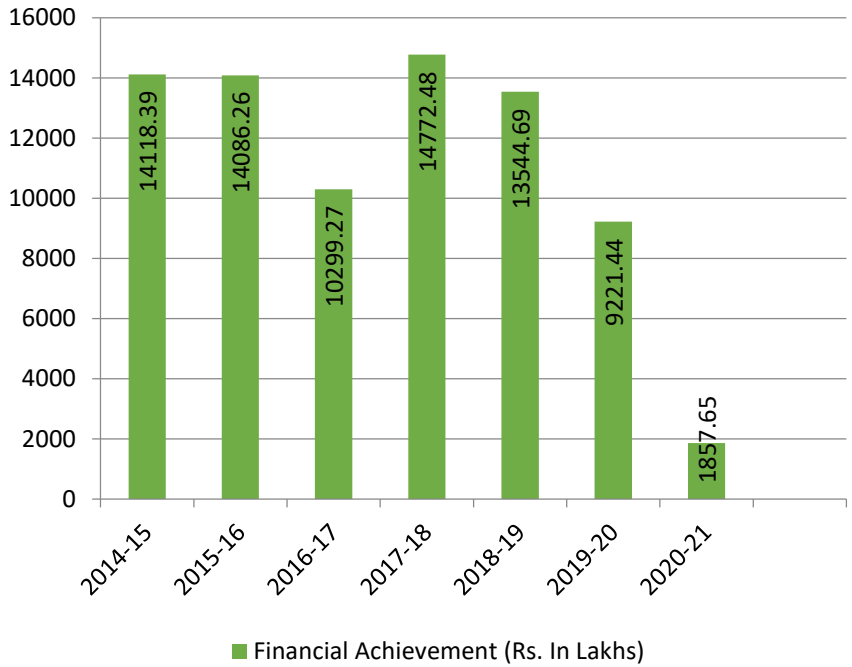
11452
Farm equipments purchased by farmers under the scheme

₹ 2445.7 Lakh
Subsidy given to farmer 2020-21

Financial year-wise Physical Achievement



Financial year-wise Financial Achievements



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

❖Agriculture Machinery Training Yojana (AMT)

- ✓ Application Received : 1359
- ✓ Training Approved : 224

❖Krishi Kalyan Abhiyan Phase-3 (KKA-3)

- ✓ Application Received : 498
- ✓ Permit Generated : 74

❖Submission on Agricultural Mechanization (SMAM)

- ✓ Application Received : 33326
- ✓ Permit Generated : 7460
- ✓ Machine supplied by Dealer: 1601
- ✓ Physical Verification by AC : 470

❖SMAM- Special Custom Hiring Center (for groups only)

- ✓ Application Received : 225

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 planning program implement 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)

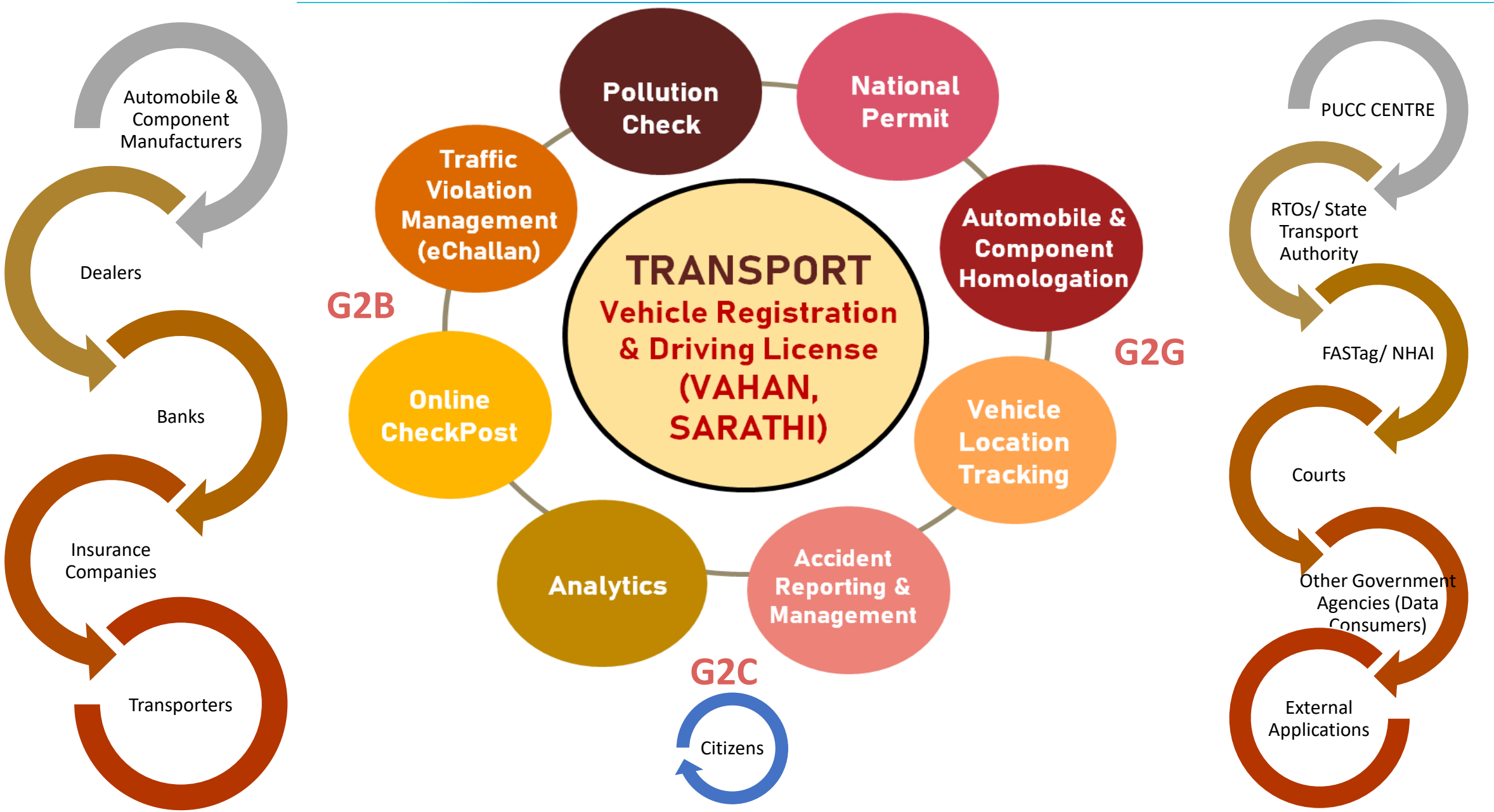
Key Features of RCH

- 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 **3264**
- Pregnant Women's Registration in Reporting Month **2959**
- Children Registration in Reporting Month **6115**
- Eligible Couple cumulative since implementation - **16487036**
- Pregnant Women's cumulative in FY 2021-22 **39698**
- Children cumulative since implementation 2021-22 **41410**

eTRANSPORT MMP: PUBLIC DIGITAL PLATFORM



eCHALLAN: TRAFFIC VIOLATION MANAGEMENT

BIHAR

22 Lacs +
eChallans

Rs. 137 Crores
Penalty Collection

1.9 Lacs
Vehicles Impounded/ Released

10,000 +
CCTV based noticed issued

01 **Automatic calculation of penalty amount, based on challan category**

02 03 **Geo-tagging of Challan spot**

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

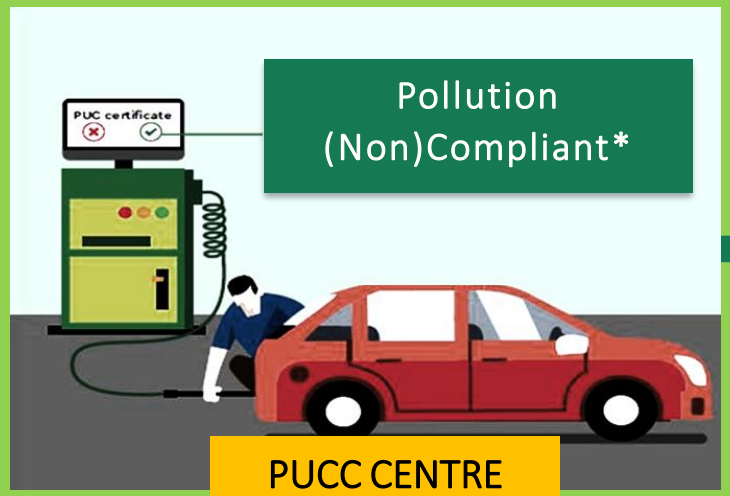
05 **Back-end data fetch from Vahan/Sarathi, ensuring efficient and error free operation**

POLLUTION UNDER CONTROL CERTIFICATE

Centralized application for vehicular emission testing

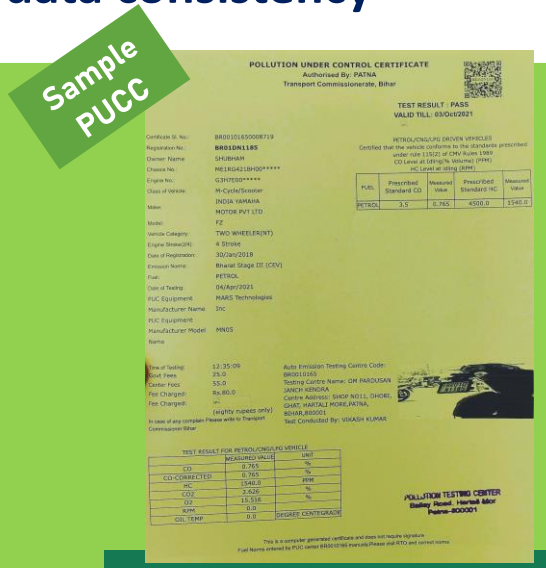
Standardized testing and certification process

Ensures compliance, better data consistency



Real time update

National DB VAHAN4



PUCC GENERATION

55 Lacs+ PUCC Issued

28 Manufacturers, 61 Device Models

2000+ PUCC Centres

Implemented in Bihar

**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.*

VEHICLE LOCATION TRACKING SYSTEM

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	38 Districts

iRAD (INTEGRATED ROAD ACCIDENT DATABASE)

Developed under the guidance of MoRTH s 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

iRAD FIELD APP

- Work Flow Login Credential based access for State/District/Police Station and Police Officers, as per CCTNS/ CIPRUS
- Capturing of GPS Location of accident site
- SMS Alert to all Stakeholders
- Hosting of WEB Application in Government Data Centre
- Compliance of Web Security Guidelines of GoI
- Adoption of Open Source RDBMS for storing Data
- Integration of iRAD web & mobile apps with external systems like CCTNS, Vahan, Sarathi etc

Data Sources

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

Data Consumers

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

Alignment Meeting Completed for Bihar with all SPoC (Police, Transport, Health, NHAI/RCD/RDD etc) (09th September 2021)

Orientation Training Programme To all Nodal Officers & Field Officers of Stake Holders (Scheduled on 16th September 2021)

One SRM AND 27 DRMS deployed in Bihar. Continual Training on iRAD to all Stake Holders Nodal Officers, Field Officers. Implementation across Bihar State at one Go.

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

- Project Proposal Preparation.
- Choice Filling
- SRS Preparation for all courses
- Seat Allotment (1st-3rd 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 up-gradation and opt for 2nd Round Seat Allotment.

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

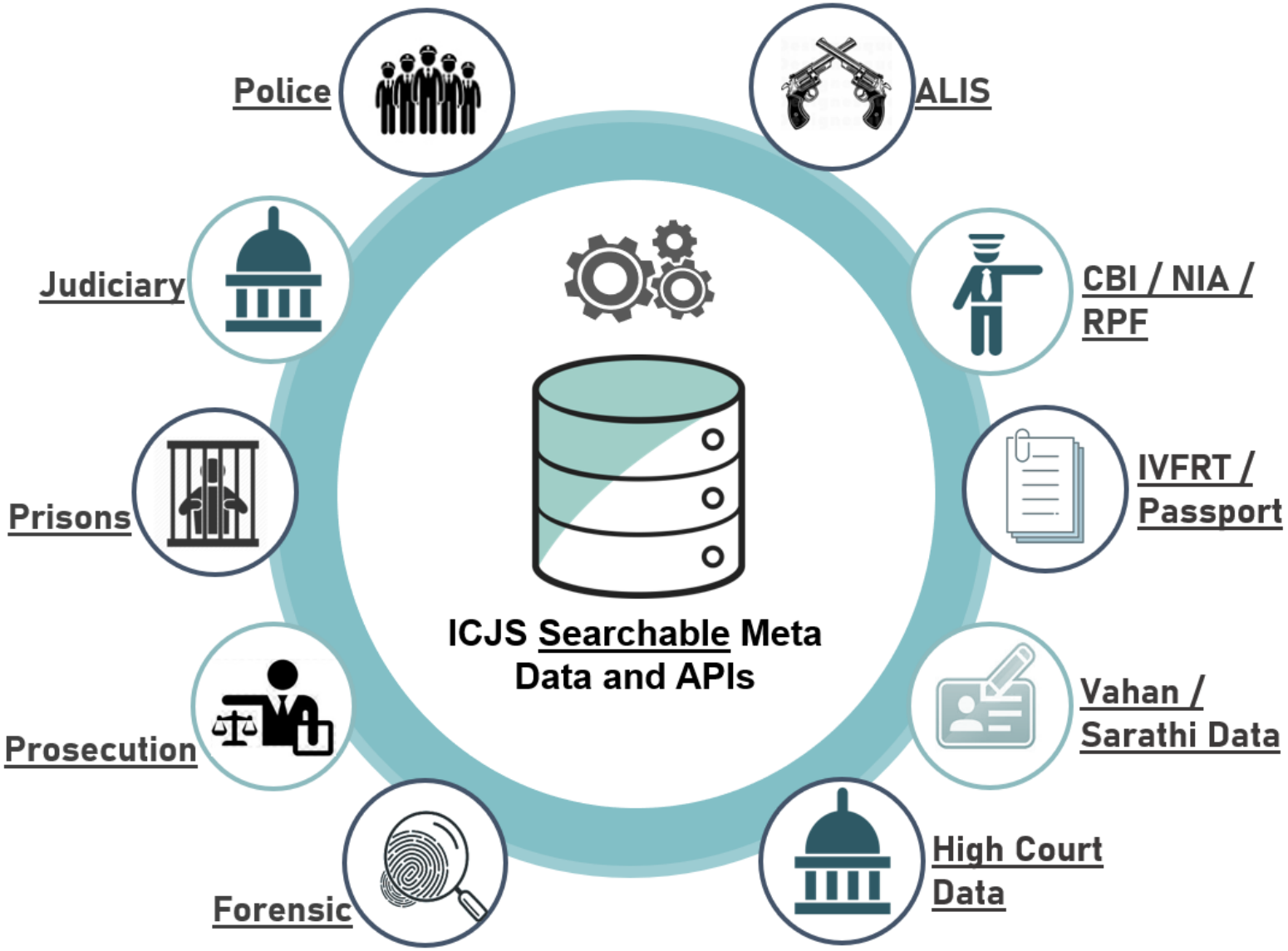
45 Crores
Immigration Control System handling Foreigners movement at Indian ports

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
- Travellers authentication at various touch points through intelligent document scanners and biometrics
- Centralized system for sharing of information across all concerned stake holders
- Improved tracking of foreigners by near real-time information sharing with security agencies
- Passenger profiling to identify risky travellers and generation of automated alerts
- Facilitating traveller by easing out visa and immigration regime such as e-visa , e-medical , e-business etc.

Interoperable Criminal Justice System (ICJS)



1. One Data Once Entry
2. PAN India Search – Cross Domains
3. Mini Statement of a Case
4. Criminal Network Visualization
5. Antecedent Verification
6. Dashboards for each Domain
7. Monitoring - ITSSO, NDSO & POCSO

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

Implementation 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

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

VTR & PRAPATRA-17A

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

ELE-TRACES
ELECTION TRACKING ENABLED SYSTEM

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

In recently concluded 10 Phase Panchayat General Election-2021 in all 38 districts of Bihar for 8483 Panchayat for posts of ward members: Panch, Sarpanch, Mukhiya, Panchayat Samiti members and Zila Parishad members has been successfully conducted by State Election Commission, Government of Bihar using 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 State Election Commission, Government of Bihar for polling personnel deployment on booths. Polling personnel were deployed using EPMIS in all the phases of Panchayat Election-2021 successfully. Efforts put in by NIC-Bihar State Centre, Patna has been highly appreciated by State Election Commission, Government of Bihar.

EPMIS

- Polling Party Formation
- Patrolling Magistrate Party Formation
- Counting Officer Party Formation

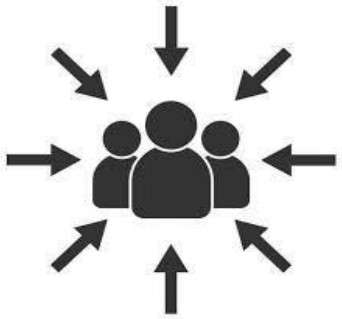
National eVidhan Application (NEVA)

One Nation One Application

02	01	73	5 out of 8
No. of Houses	Houses On-boarded	Member Registered	Services implemented

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

- **950+** Notice Received
- **4 K+** Questions
- **03** Govt.Bill
- **110 +** Papers Laid



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

1. Helps the tax administrators to analyze and monitor the tax collection and compliance within their jurisdiction
2. Provides analyzed and actionable reports and helps to enforce GST in a more efficient and effective manner.
3. 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
4. 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
- Increase in Tax collection
- Detection of Tax Evasions and Frauds
- Real Time Data Analytics
- Registration Statistics – 574868
- Regular Tax Payer – 465572

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 and their 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 / found Children
- 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 - 921
- Children Recovered - 320
- Matched Out of Missing - 144
- Still Missing – 777
- Match Out of Recover - 318
- Recovered but Family Untraced - 2

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
Bharat Ke Veer	App to contribute for Bravehearts who laid down lives in the line of duty.	Home Affairs & Enforcement
Janta Ke Darbar me Mukhyamantri	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
Aangan Sevika	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 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

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
BCD	This app is developed for inspection of building under Scheme wise.	Housing
e-Niwas	This app has been developed to inspection of Vacant & allotted flat under e-Niwas with Geo-tag image. Department -Environment & Forest...	Housing
eGoatry	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

सत्यमेव जयते

Digital India
Power To Empower

NATIONAL INFORMATICS CENTRE

Driving Digital Transformation in Government