



Major Projects & Initiatives of NIC West Bengal



And I see **NIC** its presence, its achievements working in hand with the West Bengal State Government all the way.

To make the dream of a **Digital West Bengal** a practical reality.

March, 2026



Most of the Information and Communication Technology (ICT) initiatives of West Bengal are handled by the National Informatics Centre (NIC), West Bengal.

Following Projects are developed and implemented in West Bengal :-

1. West Bengal Just-in-Time (WBJIT)
 2. Unified Project Management System (UPMS)
 3. Land & Land Reforms and Refugee Relief & Rehabilitation Department (eBhuchitra & BanglarBhumi)
 4. Directorate of Registration and Stamp Revenue (eNathikaran & West Bengal Registration portal)
 5. Khadyasathi
 6. Election Manpower Management System (EMMS) and Candidate Expenditure Management System (CEMS)
 7. Jai Bangla
 8. Lakshmir Bhandar
 9. NextGen Kanyashree Online 9.0
 10. NextGen Rupashree Online 3.0
 11. Shilpasathi
 12. West Bengal Bhabishyat Credit Card Scheme
 13. West Bengal Social Registry
 14. OSCAR (Online Caste Application Registration System)
 15. Banglar Shiksha
 16. Banglar Uccha Shiksha
 17. Unified District Information System for Education Plus (UDISE)
 18. Swami Vivekananda Merit-cum-Means Scholarship
 19. West Bengal Direct Benefit Transfer (WBDBT)
 20. Integrated Online Salary Management System (i-OSMS)
 21. Student Credit Card Scheme
 22. e-Allotment of Rental Housing Estates, Housing Department
 23. Directorate of Commercial Taxes
 24. Tourism Department Website and Mobile App of Kalimpong district Tourism
 25. e-Governance Portal of Govt. Polytechnics
 26. Integrated Online Salary Management System (i-OSMS DVET) Version2.0
- e-Transport Projects (CENTRAL PROJECTS) :-
27. SARATHI
 28. VAHAN
 29. PUCC (Pollution Under Control Certificate)
 30. e-Detection
 31. iRAD (Integrated Road Accident Database)
 32. e-Challan
 33. Content Management System
 34. COALRR (Consolidation of Accountable Land, Resettlement & Rehabilitation)
 35. Medical Counselling
 36. Web Application of the Department of Power
 37. e-Services for Directorate of Electricity, Department of Power
 38. Modified West Bengal Textile Incentive Scheme for Directorate of Textile
 39. e-Services of Marketing Incentive, Directorate of Textile
 40. Portal for Department of Youth Services & Sports
 41. e-PBGSBS Management System for Department of Animal Resource Development
 42. GePNIC in West Bengal (e-Procurement Portal)
 43. Marriage Registration in West Bengal
 44. Child Marriage Reporting & Tracking System
 45. AppComs and Dynamic Website of West Bengal Information Commission
 46. eOffice – Government of West Bengal
 47. eAbkari for NCT Delhi

Most of the Information and Communication Technology (ICT) initiatives of West Bengal are handled by the National Informatics Centre (NIC), West Bengal.

Following Projects are developed and implemented in West Bengal :-

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- | | |
|---|---|
| 48. DGX A100 : Integrated AI SuperComputing Platform - Kubernetes Administration | 73. Video Conferencing Services (PRAGATI) |
| 49. West Bengal Data Centre (Mini-Cloud, Kolkata) | 74. National Knowledge Network (NKN) |
| 50. NAPIX Service in West Bengal | <u>Other CENTRAL PROJECTS :-</u> |
| 51. Unified DevSecOps Framework for Secure, Multi-Stack CI/CD Automation | 75. e-Courts |
| 52. Inference Server – AI Inferencing | 76. Online Indian Citizenship |
| <u>COE AI (Centre of Excellence in Artificial Intelligence) Lab, Kolkata</u> | 77. Arms License Issuance System (ALIS) |
| 53. Facial Recognition Based Attendance System (FRBAS) | 78. VFRT (Immigration, VISA, Foreigner’s Registration & Tracking) |
| 54. FRBAS – Utkarsh Bangla (Technical Education Department) | <u>National Port Projects :-</u> |
| 55. AI Abhigyan : AI-based Text Extraction System | 79. Port Operation Management System (POMS) |
| 56. AI Shirshank (AI-enabled Person Count Services) | 80. Enterprise Business Application System (EBAS) |
| 57. AI-enabled Beneficiary De-duplication Service | <u>District Portals :-</u> |
| 58. AI-enabled Services for NextGen Kanyashree Online 9.0 | 81. Kolkata District Portal |
| 59. AI-enabled Services for NextGen Rupashree Online 3.0 | 82. Malda District portal |
| 60. AI-enabled Cardamom Leaf Disease Classification | 83. Purba Medinipur District Portal |
| 61. AI Services for e-Nathikaran | 84. Nadia District Portal |
| 62. AI Sanlaap : Conversational AI-based Chat & Voicebot Framework | 85. Jhargram District Portal |
| 63. AI Anurup : AI-based Name Matching Service | 86. Murshidabad District Portal |
| 64. AI-enabled Services for Property Registration | 87. Birbhum District Portal |
| 65. <u>AI-based Crop Image Anti-spoofing System</u> | 88. Darjeeling District Portal |
| 66. ServicePlus | 89. Kalimpong District Portal |
| 67. Comprehensive Portal for Department of Women & Child Development and Social Welfare | 90. Jalpaiguri District Portal |
| 68. IT initiatives at Calcutta High Court | 91. Uttar Dinajpur District Portal |
| 69. e-Prison | 92. Alipurduar District Portal |
| 70. e-Prosecution | 93. South 24 Parganas District Portal |
| 71. e-FSL (Forensic Labs) | |
| 72. NICNET | |
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West Bengal Just-in-Time (WBjit)

PRISM ID : 3848

Production URL : <https://ifms.wb.gov.in/wbjit/login>,
<https://ifms.wb.gov.in> and
 UAT URL : <https://train-ifms.wb.gov.in>



Technology Stack: Angular, Dot Net Core, RabbitMQ, Redis, GitLab, DevSecOps, PostgreSQL

Highlights

- Solution for Just-in-time Payment for Centrally Sponsored Schemes (CSS) implemented by Government of West Bengal (GoWB) following mandate of SNA-SPARSH Mandate of Government of India (GoI)
- 4 modules: User Management, WBjit, Jit-Bill, Jit-Treasury S Development based on Microservices Architecture
- Main features are capturing mother sanction, Scheme configuration, SLS wise budget, and agencies from PFMS, and then Limit distribution and budgetary allocation, sub allotment to the agencies, generation of Fund Transfer Orders (FTOs) and Bills by the DDOs, Processing of bills at Treasury, Send to PFMS for debit of the central share, and finally payment with state share through the e-Kuber

Training : Training to Agencies and DDOs in Offline and Online Mode.

Achievement: Implemented Since 7th January as per Memo no. Memo No. 80-F(eGOV) Dated 06/01/2025 of Finance Department, GoWB.

Statistics: During March 2026, FTO prepared : 81751, Amount : Rs 4179.36 Crores (Approx)

Unified Project Management System (UPMS)

PRISM ID : 3158

Production URL : <https://upms.wb.gov.in>

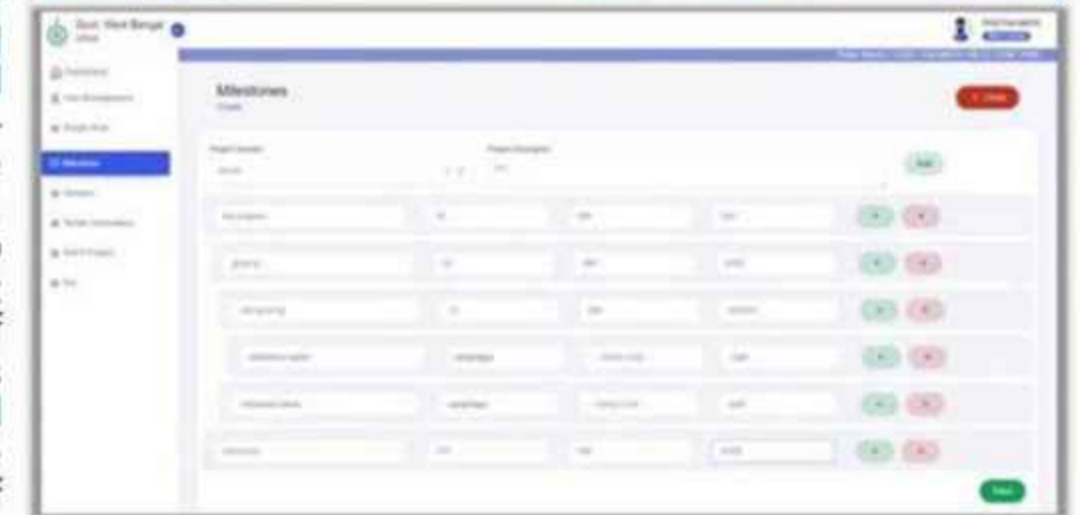
Highlights

The Unified Project management System (UPMS) web based application has been developed to cover the areas of Proposal, Requisition, Planning, Design, Estimation following Schedule of Rates (SOR) and Non Schedule Items Rates, Sanction Approval, Administrative Approval, Tender, and monitoring physical and financial progress by integrating AAFS Module of IFMS and others

Achievement: The Department of Finance, Government of West Bengal with the Memo No. 61-F(eGov) Dated 07/01/2025 and with Memo No. 232-F(eGov) Dated 17/01/2025 directed the various works department like PWD, PHE, Irrigation, WRIDD, KMDA etc to use Unified Project Management System (UPMS) portal for processing of any project for monitoring of projects (including tracking annual physical and financial progress), throughout their life cycle, from initiation to completion of the project.

Key Features

Management of all the works and nonworks related projects from inception to completion including Schedule of Rate (SOR), project estimation, DPR preparation, approval, sanction, physical and financial progress management, billing and disbursement



Training : Month Long Training Programme of PWD Engineers, Officials, and Other Department like PHE, Irrigation conducted

Aim : Monitoring of Govt. projects, throughout the life cycle of the project from initiation to completion of the project, as part of the Asian Development Bank (ADB) assisted West Bengal Public Finance Management Reforms Program

Technology Stack :



Stakeholders : Department of Finance, GoWB, Public Works Department, GoWB, Irrigation & Waterways Department, GoWB, Department of Urban Development & Municipal Affairs, GoWB

Land & Land Reforms and Refugee Relief & Rehabilitation Department

● banglarbhumi.gov.in

PRISM ID: 3432

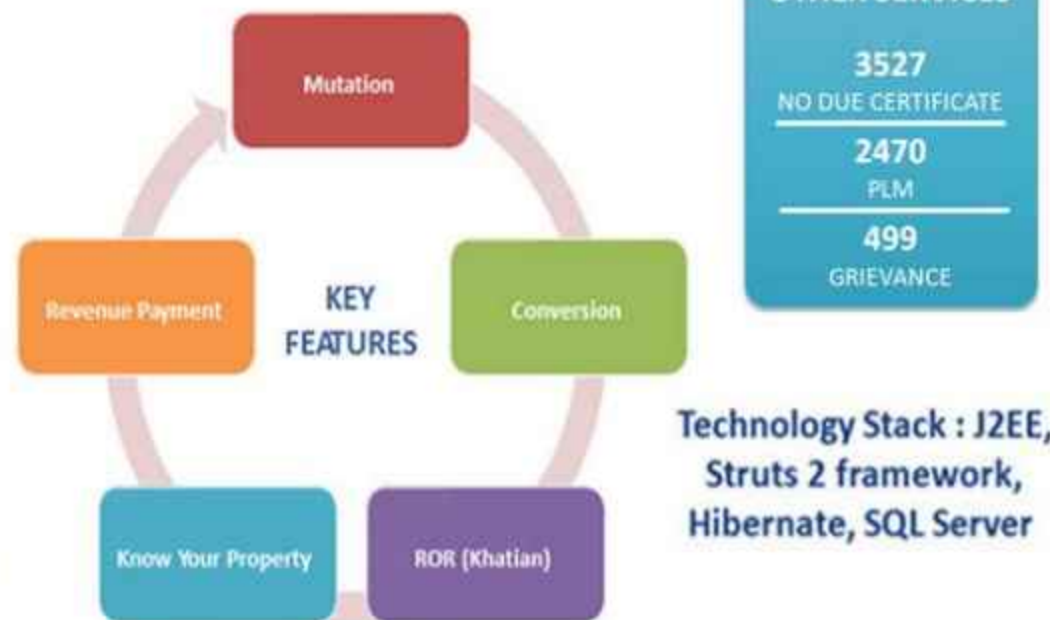
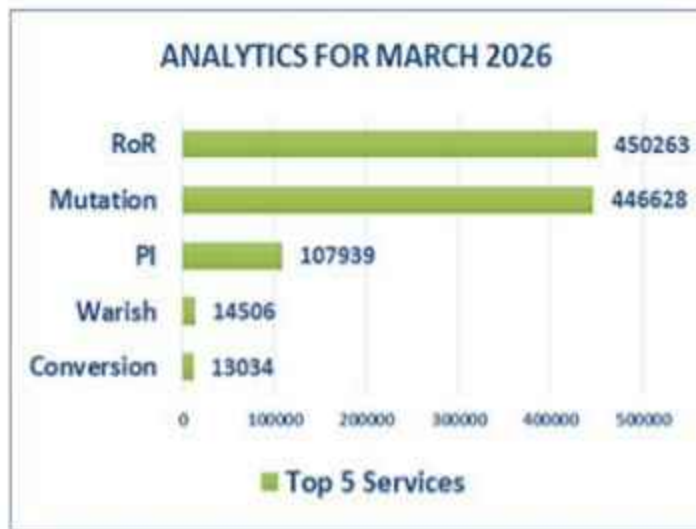
"In West Bengal, land-related e-Governance services are provided through two key applications: eBhuchitra and Banglarbhumi"

Highlights:

eBhuchitra is a centralized, server-based web application operating over MPLS/VPN with WBSWAN. It maintains comprehensive land records and manages key processes like Mutation, Conversion, Lease, Vesting, and Bargadar/Pattadar management. Integrated with the Registration system under DILRMP, it enables contactless, automatic mutation case generation. It is also integrated with EoDB, eDistrict, Krishok Bondhu, and Food Supply systems for efficient service delivery.

Banglarbhumi (banglarbhumi.gov.in), the official L&LR department portal, serves as a single-window platform for citizens to access services like Mutation, Conversion, ROR (Khatian), Plot Index (PI), and Plot Map requests and downloads. It features an integrated grievance redressal system, real-time status updates, and online payments through GRIPS.

The Jomir Tothya mobile app further enhances accessibility by offering these e-Governance services on mobile devices, ensuring transparency and convenience for citizens.



BENEFITS TO CITIZEN
"Banglarbhumi provides citizens with a faster, paperless, and secure way to access services such as Mutation, Conversion, Revenue Payment, ROR (Khatian), Plot Index (PI) & Plot Map requests & downloads—anytime, anywhere"

Directorate of Registration and Stamp Revenue - Finance Department, Govt. of West Bengal

● wbregistration.gov.in

PRISM ID: 3449

Highlights:

The e-Nathikaran system and the WbRegistration portal are key digital initiatives by the Directorate of Registration and Stamp Revenue (DoRSR), Government of West Bengal, aimed at modernizing the land and property registration process.

e-Nathikaran functions as a backend system used by registrar offices for secure scanning, indexing, and digital preservation of registered deeds. It supports document verification, audit trails, and role-based access, ensuring the integrity and traceability of registration records.

On the other hand, WbRegistration is a citizen-facing online platform that allows users to prepare deeds, calculate fees, pay stamp duty and registration charges, and schedule appointments with Sub-Registrar Offices. It simplifies the registration process, reduces manual intervention, and enhances transparency.

Together, these systems have enabled faster processing, secure storage, and better public access to land records, contributing significantly to e-Governance and service delivery in the state.



DEVELOPMENTS FOR MARCH 2026

- Pilot of Bulk Searching Feature
- API for Phase-II legacy deed transfer
- Completion of Face RD Audit.

BENEFITS TO CITIZEN
"e-Nathikaran and WbRegistration provide citizens a faster, paperless, and secure way to register property, prepare e-deeds, pay fees, book appointments, and access digitally stored certified deeds anytime"

Technology used

.NET Framework, C#, Angular, SQL Server

PROJECT NAME	PRISM ID	PROJECT URL
Khadyasathi - An End-to-End Public Distribution Management Solution		https://food.wb.gov.in



HIGHLIGHTS

- Connects **Beneficiary, FPS shops, Storage, Distribution and Paddy Procurement**
- Offers Self Service Operation for various Ration Card Services leveraging Aadhaar Authentication
- Manages key Storage, Distribution and Procurement functions
- All stake holder Billing and Payment is online



.Net Core
.Net
MSSQL DB

STATISTICS	
Total Beneficiary	- 8.75 Cr
Total Transactions	- 2.59 Cr
Aadhaar Authenticated Transaction	- 99.98 %
RC Related Services	- 186335

Election Projects (WBEMMS and WBCEMS)



PRISM ID : 3245 and 3247
Highlights:
Election Manpower Management System (EMMS) and Candidate Manpower Management System (CEMS)

Production URL : <https://wbemms.nic.in>, and CEMS URL : <https://wbcems.nic.in>

EMMS is a solution for effective online management and deployment of Election Manpower for activities such as Polling Duties, Counting Duties, Sector Duties, etc. Dynamic, Rule and Role-based, Scalable, Configurable, self-supporting solution for single/multiple/simultaneous elections like Parliament, Assembly, Bye Elections. Implemented in Parliament Election 2024 and Assembly and Parliament Elections 2024.



Whereas the CEMS provides solution for contesting candidates expenditure in the Assembly or Parliament Election and generates Shadow Observation Register (SOR) as per guideline of ECI.



- Online Collection / updation of Employee details
- Polling & Counting personnel Categorization, Randomization, Deployment
- Training Allocation
- Appointment Letter Generation
- SMS & email generation modules
- Generation of Payment files for paying remunerations of Polling / Counting Personnel and Micro Observers
- Postal Ballot & EDC
- Provision of Simultaneous Election
- Candidates Expenditure Monitoring with Shadow Observation Register

Technology Stack :



Laravel, RabbitMQ, Redis, GitLab, DevSecOps

Type of Application : G2G, and G2C

Achievement: Successfully development and implemented and in operational for General Assembly Election'2026. It was also successfully implemented during last Parliament Election'2024.

Jai Bangla

PRISM ID : 17866 (Legacy Project) Production URL : <https://jaibangla.wb.gov.in>

G2G
G2C

Highlights

End-to-end ICT based solution for Monthly pension of social sectors of all departments of GoWB in Multitenant architecture. The portal used to provide Social pension of many departments

Achievement Successfully development and running since March'2020 with present beneficiary around 80 Lakhs comprising schemes like Taposhili Bandhu, Jai Johar, Old Age Pension, Widow Pension, Manabik, Textile Pension, Agriculture Pension , Assistance to Lok Prasar Parishad etc. of eight departments with monthly assistance. Able to establish an automated pipeline to push all beneficiary and transaction to the registry Portal



Key Features and Statistics

- One Umbrella Social Pension portal
- Multi-tier, Multi-tenant, Scalable, Configurable & Open Source architecture Online System for Application, approval and payment Aadhar Deduplication & Bank Account Deduplication Bank Account and Bank Account Name Validation Online Payment Directly to Bank Account
- 13 Schemes and 8 Departments on board
- API Based Integration for SMS and other portals
- Integration with IFMS and Bank (SBI) for payments
- Total Approved Beneficiaries : 82.06 Lakhs (Approx)
- Amount Disbursed in last month: Rs 755.79 Crore (Approx)

Technology Stack :



Laravel , Kafka Database : PostgreSQL

Training : Continuous Online Training to stakeholders with SOP

Lakshmir Bhandar

PRISM ID : 2632 Production URL : <https://socialsecurity.wb.gov.in>

G2G
G2C

Highlights

A scheme of GoWB, which is promised to provide monthly assistant to women in age group 25-60 years of Rs 1200 (earlier Rs 1000) who belongs to SC/ST families and Rs 1000 (earlier Rs 500) to general category families. Aadhaar has been made mandatory in place of Swasthya Sathi enrolment since 1st April'2023. A *web-based application* for capturing the applications, verification, approval and processing of applications for monthly financial release of assistance to the approved beneficiary accounts..

Achievement: Successfully development and running Lakshmir Bhandar since August'2021 with present **beneficiary around 2.410Crore** and monthly assistance of Rs. 3386.12 Cr. (Approx) disbursed in February '2026. Able to establish an automated pipeline to push all beneficiary and transaction to the Social Registry Portal



Training : Continuous Online Training to stakeholders with SOP

Key Features

- Aadhaar has been made mandatory, and requirement of Swasthya Sathi Card is waived off w.e.f. 01/04/2023
- Mandatory Bank Account for individual beneficiary
- Validation of Bank Accounts along with name validation
- Aadhaar Verification with authenticated Aadhaar through PDS (Khadya Sathi)
- De-duplication of Bank Account, Aadhaar, Mobile Number
- Maker, Checker, Approver architecture for flow of beneficiary data
- API Based Integration with SMS, Janma-Mrityu portal, track applications, CMO Grievance
- Total Approved Beneficiaries : 2.40 Crores (Approx) Amount Disbursed in last month : 3403.10 Cr.

Technology Stack :



Laravel , Kafka Database : PostgreSQL

NextGen Kanyashree Online 9.0

URL : <https://wbkanyashree.gov.in>
<https://admin-kanyashree.wb.gov.in>

PRISM ID: 2505

HIGHLIGHTS

Kanyashree is a unique ICT driven Conditional Cash Transfer programme which aims at improving lives of millions of adolescent girls having poor socio-economic background by empowering the Girl Children with Educational Empowerment, Financial Empowerment and Social Empowerment. Kanyashree Online is the e-Governance programme of the scheme. Recently, the software stack of the programme has been upgraded to NextGen Kanyashree Online v9.0.

Impact: Around 3.54 Crores unit have been enrolled under this programme throughout the state. Around 3.49 Crores unit of Scholarships have been sanctioned so far.

Enhanced value to citizen: Single-window & end-to-end ICT enablement application for Kanyashree.



Technical Stack

Laravel 10, PHP 8.1, Apache2.4, PostgreSQL 17

Awards and Achievement: First Place Winner- United Nation’s Public Service Award 2017 , Champion Project in UNWSIS(2016), Gem Tech Award of ITU & UNWOMEN(2016), Best Practice declared in Girl’s Summit in London(2014), National e-governance Award Winner(2014-15), Manthan Award of e-Governance, (2014-15) , Skoch SMART governance Award (2015-16) , CSI Nihilent e-governance Award (2014-15) , CM’s Award (2014-15)

Statistics: March, 2026

Enrolled Applications – 39,229
 Sanctioned Applications – 24,771
 Unique Beneficiaries – 11,112

Statistics: Since Inception (Oct 2013)

Enrolled Applications – 3.54 Crore
 Sanctioned Applications – 3.49 Crore
 Unique Beneficiaries – 98.75 Lakh

NextGen Rupashree Online 3.0

URL : <https://rupashree.wb.gov.in>

PRISM ID: 2528

HIGHLIGHTS

- “Rupashree Prakalpa” is a flagship programme of GoWB for economically stressed families to provide cash assistance is Rs.25,000 at the time of their adult daughters’ marriages.
- Rupashree Online is the e-Governance mechanism of the scheme which provides end-to-end ICT enablement from beneficiary enrolment to direct benefit transfer.



Technical Stack

Laravel 10, PHP 8.1, Apache2.4, PostgreSQL 17

Statistics since inception

Covered District – 24
 Covered Block/Municipality – 479
 Total Beneficiary – 22,13,831
 Beneficiary – 22,884 (March, 2026)

Silpasathi

"Unified Single-Window Portal For Businesses to apply for approvals, licenses & clearances Without Physical Touch-Point"

<https://silpasathi.wb.gov.in>
PRISM ID : 18818

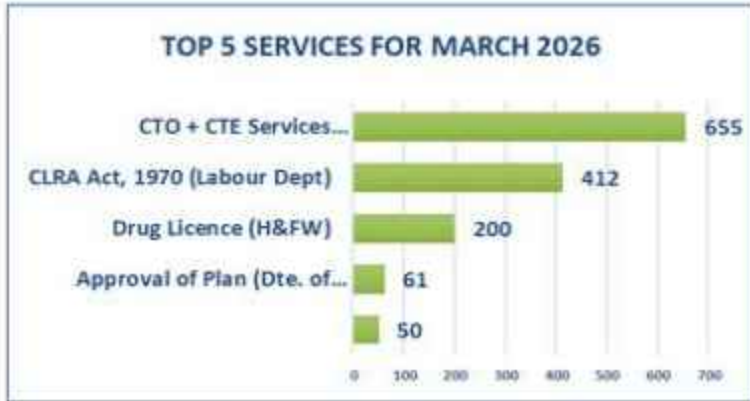
HIGHLIGHTS

It Serves As A Digital Gateway For Providing The Necessary Statutory Compliances Under The Applicable Acts, Rules, Policies And Schemes Of The Govt Of West Bengal. Investors Can Get Certificates And Licences Required For Setting Up And Operating Business In The State In A Smooth And Time-Bound Manner, Without The Need To Visit Any Government Department Or Office. In Addition, Silpasathi Kiosks Are Available At 23 Industry Facilitation Centres (IFCs) Located In Every District Of The State. The Ifcs Provide Handholding Support To The Investors Seeking Statutory Compliance Services From Silpasathi Portal.



KEY FEATURES

TECHNOLOGY USED



- 20+ GOVT. ENTITIES
- 144+ SERVICES
- 5.74 LAKHS+ REGISTERED USERS
- 126 CRORE+ TOTAL REVENUE GENERATED
- 2076913 TOTAL LICENSES DELIVERED
- 8296 GRIEVANCES ADDRESSED

BENEFITS TO CITIZENS

"Delivery of all services to citizens end to end without requirement of any physical touch point and online wizard to guide citizen for availing applicable licenses or certificate for setting up of industries"

West Bengal Bhabishyat Credit Card Scheme (WBCCS)

Department of MSME&T, Government of West Bengal

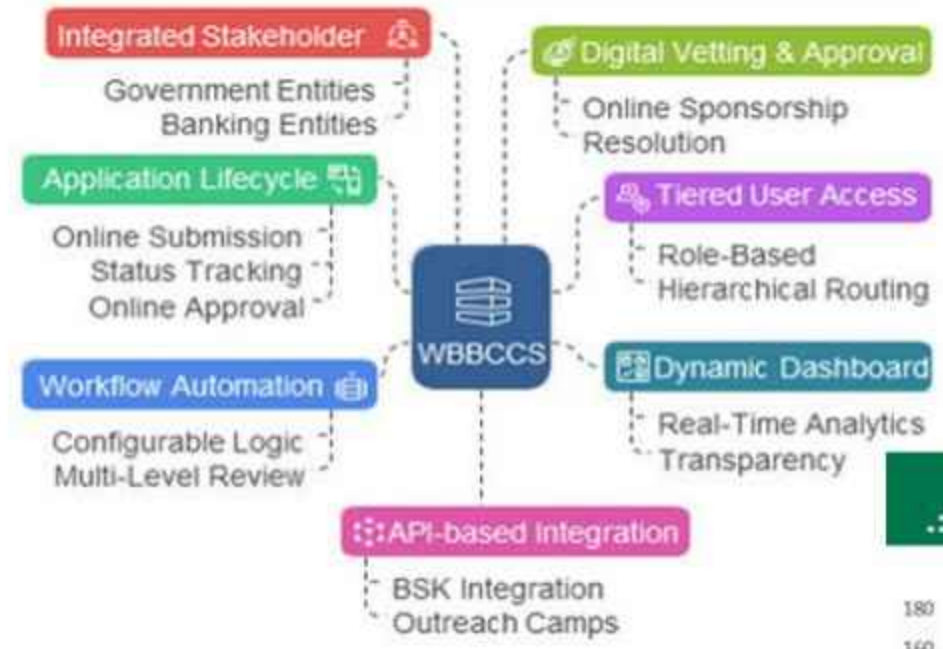
<https://bccs.wb.gov.in>
PRISM ID: 20812

"Opportunity, Access, and Enabling Local Enterprise Growth for Aspiring Entrepreneurs"

The Bhabishyat Credit Card Scheme (BCCS) is a flagship initiative of the Government of West Bengal, designed to promote self-employment and entrepreneurial growth among the state's youth. Functionalities include mobile compatibility, intuitive system-guided workflows, and real-time application tracking, ensuring an accessible, transparent, and user-centric experience that enables aspiring entrepreneurs to navigate the loan process with confidence.



::: Key Features :::



::: Technology Stack :::



Top 5 Districts – March 2026

::: (Sponsored Applications & Project Amount) :::



::: Benefits to Citizen :::

- Ready-Made DPRs**: Download trade-specific templates, simplifying application preparation.
- Smart Application Guide**: Stepwise validations and guided uploads ensure error-free form submissions.
- Online Submission**: Submit your application online or by mobile, no office visits needed.
- Live Progress Alerts**: SMS/email/push updates at every approval stage - stay in the loop instantly.

247149
TOTAL APPLICATIONS

52917
TOTAL SANCTIONED APPLICATIONS

₹ 1349.52 Cr.
TOTAL SANCTIONED AMOUNT

₹ 942.64 Cr.
TOTAL DISBURSED AMOUNT

West Bengal Social Registry (Prism Id:20967) (Finance Department, Government of West Bengal) URL : <https://socialregistry.wb.gov.in>

Highlights:
 WBSRS is progressing with upcoming enhancements like beneficiary account verification, chatbot for scheme-related information, and expanded citizen welfare services. The Finance Department-managed West Bengal Social Registry System (WBSRS) continues to strengthen welfare delivery. The platform is currently integrated with 67 of 136 schemes (53 state and 14 central), using Kafka (real-time streaming), APIs (system integration), and Excel uploads (manually maintained schemes) for data synchronization



Slicing Dicing Reports: Key Features:



- Unified brochure of 135 schemes
- Chart-based monitoring with regular updates
- GIS-enabled LGD dashboards
- Khadya Sathi as single source of truth
- AI chatbot for scheme info
- Secure access with MFA & role-based control
- Data exchange via Kafka, APIs & Excel

Recent Activities: Usage Statistics

- Infrastructure & Architecture:** Established a modernized UAT environment using Docker, API Sfx, and Docker Swarm for improved deployment efficiency.
- API Development & Integration:** Enhanced and deployed the Data Sharing API with Confluent Kafka, and built a new external Scheme Benefit Detail Service Check API.
- Security & Compliance:** Upgraded Angular to the latest stable minor version and revamped the Chatbot UI, backend, and AI model as per NIC Security Audit.
- Data Privacy:** Implemented complete database masking for secure AI-based data sharing.
- AVS related Modernization:** Upgraded cryptographic signature functions to meet NPCI standards and implemented full end-to-end encryption for personally identifiable financial data.
- System Architecture & Deployment Enhancements:** Standardized database schema and initiated API Dockerization while finalizing real-time account verification architecture, API specs, and database models.

SCHEMES ONBOARDED

- Onboarded Schemes : 67

BENEFICIARY

- Khadya Sathi Beneficiaries : 8.73 Crore
- Scheme Beneficiaries : 15.40 Crore

TRANSACTION

- Total Transactions : 31.65 Crore

Technology Stack:



PROJECT NAME	PRISM ID	PROJECT URL
OSCAR	2161	https://castcertificatewb.gov.in

Backward Classes Welfare Department
 For Caste Certificate Application(OSCAR)
 Government of West Bengal

Latest News:
 The Backward Classes Welfare Department, a Department under the Govt. of West Bengal is working towards sustainable development of the persons belonging to the Scheduled Castes, Scheduled Tribes and Other Backward Classes of West Bengal. The main aim of the Department is to improve the quality of life of these socially and economically backward classes and enhancement of capability of the people belonging to these communities, so that they can be very much part & parcel of the mainstream of the Society.

PARTICULAR	DETAILS
TIME LIMIT PRESCRIBED AS PER THE PUBLIC SERVICE GUARANTEE ACT, 1997 AS PER WEST BENGAL RIGHT TO PUBLIC SERVICES ACT, 2012 (IN DAYS)	28
TOTAL NUMBER OF APPLICATIONS RECEIVED (NO)	1647293
TOTAL NUMBER OF APPLICATIONS APPROVED (NO)	1468893
AVERAGE TIME TAKEN TO OBTAIN APPROVAL (IN DAYS)	18
MEDIAN TIME TAKEN TO OBTAIN APPROVAL (IN DAYS)	18
MINIMUM TIME TAKEN TO OBTAIN APPROVAL (IN DAYS)	1
MAXIMUM TIME TAKEN TO OBTAIN APPROVAL (IN DAYS)	181

HIGHLIGHTS

The Backward Classes Welfare Department, a Department under the Govt. of West Bengal is working towards sustainable development of the persons belonging to the Scheduled Castes, Scheduled Tribes and Other Backward Classes of West Bengal.

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- Total SC, ST, OBC Applications : 1,99,84,928**
- Total SC, ST, OBC Certificates : 1,76,36,426**
- Total EWS Applications : 86,336**
- Total EWS Certificates : 72,488**
- Total Digitized Certificates : 55,78,808**

KEY FEATURES

- Digitally sign Caste and EWS certificate
- Online Digitization of Old Manual Certificate
- QR Code Based Certificate Verification
- Online Backend Processing of Applications
- Online Application for Citizen Services.
- Certificates are Available at Digilocker
- API Publish through NAPIX

TECHNICAL STACK

- React
- PHP
- Laravel
- Node JS
- PostgreSQL
- Java
- Apache

The main aim of the Department is to improve the quality of life of these socially and economically backward classes and enhancement of capability of the people belonging to these communities, so that they can be very much part & parcel of the mainstream of the Society.

PROJECT NAME	PRISM ID	PROJECT URL
BANGLAR SHIKSHA	18406	https://banglarshiksha.wb.gov.in



<https://banglarshiksha.wb.gov.in>

This platform is designed to facilitate efficient data management and academic monitoring across all levels of school education, from pre-primary to Class XII, ensuring transparency, accountability, and improved governance. The primary stakeholders include Heads of Institutions, Sub-Inspectors of Schools, District Inspectors of Schools, and the Directorate of School Education.



Building Total School: 95503 Having Building: 94538 Percentage: 98.99%	Hand wash facility near toilets/urinals Total School: 95503 Having hand wash: 79592 Percentage: 83.34%
Boundary Wall Total School: 95503 Having Boundary: 44228 Percentage: 46.31%	Play Ground Total School: 95503 Having Play Ground: 62519 Percentage: 65.46%
Library facility Total School: 95503 Having Library: 82679 Percentage: 86.57%	Enrolment and CWSN Enrolment Enrolment: 18363551 CWSN Enrolment: 112388



Technology Stack : PHP, CodeIgniter, Bootstrap, PostgreSQL, Apache

- Total No. of Schools : 95490
- Total No. of Students : 18004764

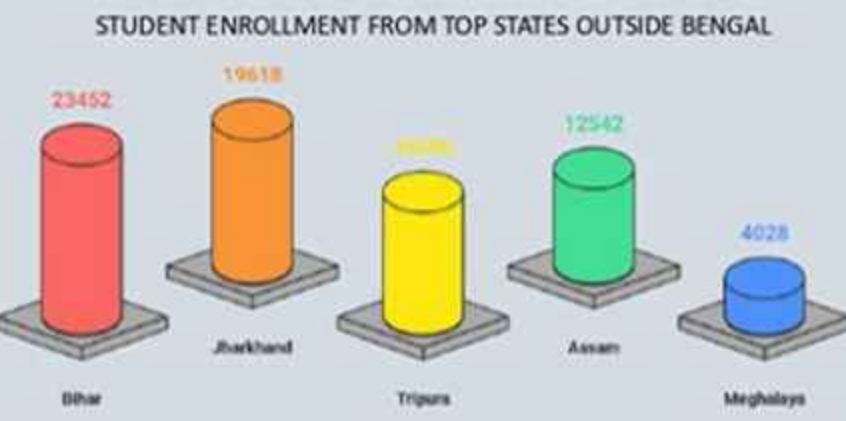
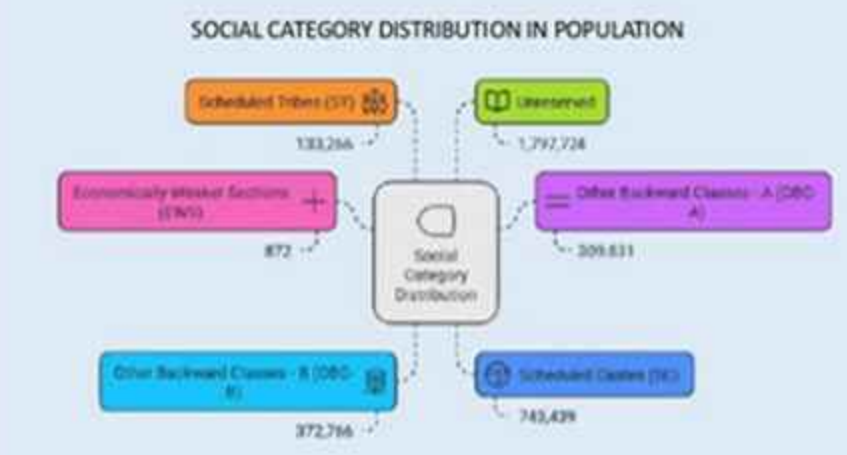
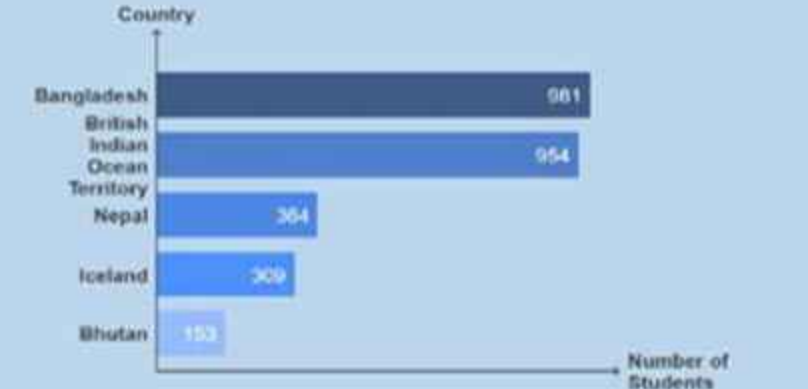
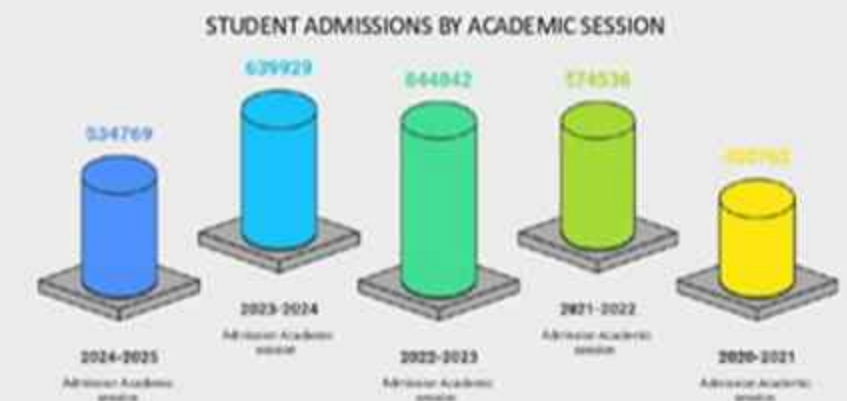
Banglar Uchcha Shiksha



Banglar Uchcha Shiksha (BUS) Portal is being developed to act as a repository of all data related to all the institutions (General Degree/Training/Law/ Physical Education/Technical/Engineering colleges and State Aided Universities) under Higher Education Department, Go WB to streamline all related processes and data management information from the ground level to the executive level i.e. the decision makers or the Department functionaries whilst maintaining transparency across all levels of governance. The portal caters the data repository of 42 Universities, 59 Govt. Colleges, 450 Govt. aided Colleges, 09 govt. Engineering Institution. The portal also holds individual student profile data from 1411 Institutions within West



SUCCESS STORY AND STATISTICS



TECHNOLOGIES



PROJECT NAME	PRISM ID	PROJECT URL
UDISE	17651	https://schoolinfo.banglarshiksha.gov.in/

Highlights

The Unified District Information System for Education Plus (UDISE+) is a flagship Management Information System (MIS) implemented by the School Education Department under the Government of West Bengal. Fully operational as an online platform since the academic year 2019–20, UDISE+ serves as a comprehensive digital system for the real-time collection and management of data from all recognized schools across the state, covering classes from Pre-Primary to Class XII.

The system plays a pivotal role in educational planning, resource allocation, programme implementation, and performance monitoring. By maintaining a robust and reliable school-level database, UDISE+ enables the government to undertake evidence-based decision-making and effectively monitor key performance indicators (KPIs).



- ✓ We are working on the new school insertion approval process in the CI framework.
- ✓ We are working on the basic data change approval process for schools in the CI framework.
- ✓ We are developing APIs for both new school insertion and existing school updation to enable BSP portal data sharing.

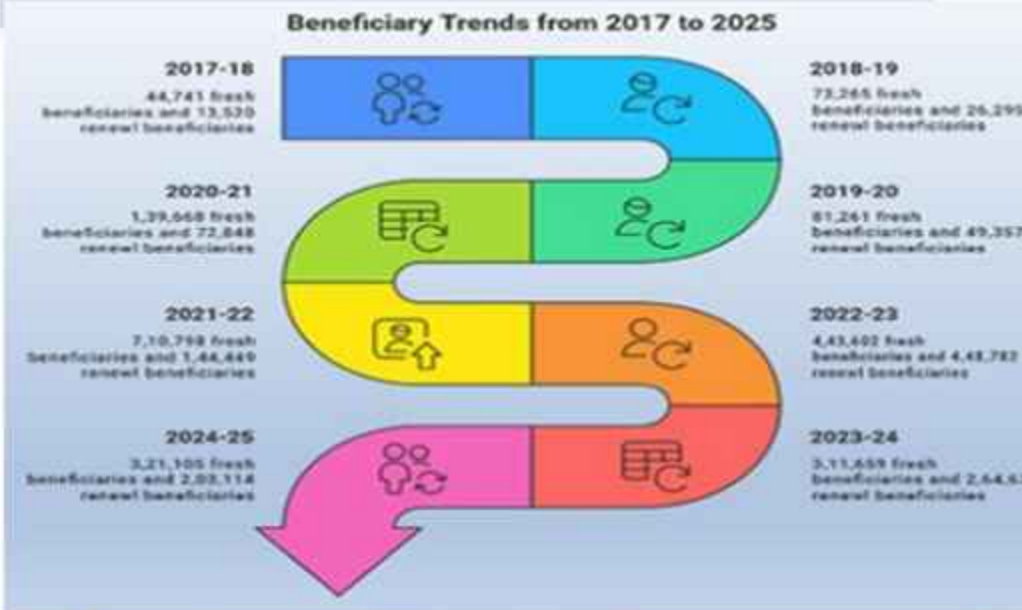
Total School - 93068	Total Teaching Staff - 580313	Total Non Teaching Staff - 35286	Having Toilet - 92234
Having Electricity - 89749	Having Ramp - 64385	Having Drinking Water - 92290	



PROJECT NAME	PRISM ID	PROJECT URL
SWAMI VIVEKANANDA MERIT-CUM-MEANS SCHOLARSHIP	17937	https://svmcm.wb.gov.in/

HIGHLIGHTS

Swami Vivekananda Merit-cum-Means scholarship Scheme is introduced to provide scholarship to meritorious but poor students studying class XI/XII, UG, PG, M.Phil. or Ph.D. course in General Degree, Medical, Technical etc. category in the state of West Bengal. More than 31L students are benefitted since the inception of this web portal and more than Rs.5400 Cr are disbursed through the SVMCM-IFMS integrated portal to the scholarship beneficiaries. There are nearly 10000 institutions come under this portal. Yearly scholarship amounts range from ₹12,000 to



West Bengal Direct Benefit Transfer (WBDBT)

PRISM ID : 3052

Production URL : <https://dbt.wb.gov.in>



G2G
G2C

Highlights:

West Bengal Direct Benefit Transfer (WBDBT) Dashboard

- A Uniform State DBT Dashboard
- Serves the purpose of one uniform solution for DBT across the various departments
- The Consolidated data/ information for each scheme may be facilitated to push from this application to the Bharat DBT Dashboard as per the need of the Government
- **Accumulation of DBT information (53 parameters)**
- **Integration with Bharat DBT**

Achievement : Successfully development and implemented for collection of data from various portals and push to Bharat DBT

Technology Stack:



Angular, Dot Net Core,, GitLab, DevSecOps
Database : PostgreSQL

PROJECT NAME	PRISM ID	PROJECT URL
Integrated Online Salary Management System (iOSMS)	18407	https://banglarshiksha.wb.gov.in/iosms

HIGHLIGHTS

iOSMS is a centralized digital governance platform built to modernize financial and administrative management for school education personnel in West Bengal. It connects institutions and authorities through a unified system that enhances coordination, accountability, and operational efficiency.

The portal offers comprehensive capabilities, including:

- Real-time salary data monitoring
- Automated validation of financial entries
- Centralized employee database management
- Digital approval workflows for administrative actions
- Integrated reporting and audit support
- Secure data exchange with state financial systems

The platform serves multiple administrative levels such as district offices, drawing and disbursing officers, circle authorities, and educational institutions, enabling them to:

- Monitor financial transactions with greater accuracy
- Reduce manual dependency and paperworks

PROJECT DASHBOARD



G2G
G2C

PROCESS FLOW



STATISTICS

Employees of Primary Schools
 No. of Primary School Teachers: **184,819**
 Monthly salary disbursement : **Rs 885 Cr (net salary)**

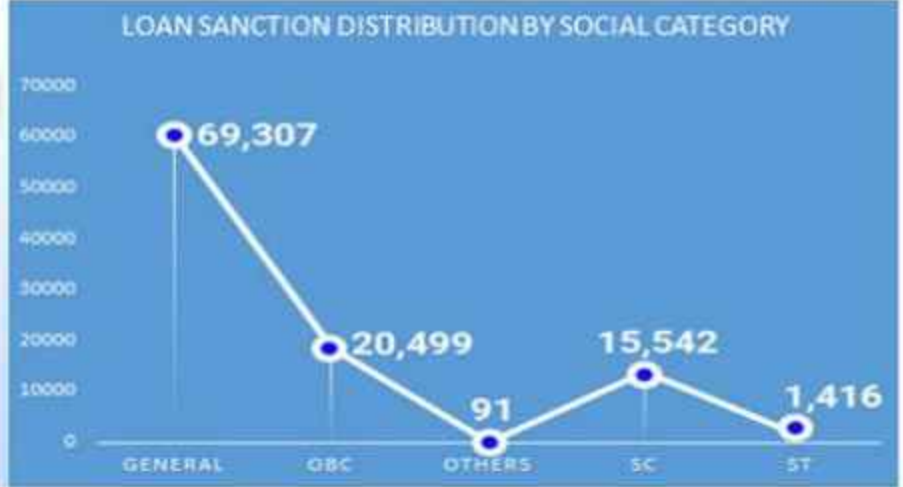
Employees of Secondary Schools
 No. of Secondary School Teachers: **192,076**
 Monthly salary disbursement : **Rs 1297 Cr (net salary)**

TECHNICAL STACK

PROJECT NAME	PRISM ID	PROJECT URL
WEST BENGAL STUDENT CREDIT CARD	18764	https://wbccc.wb.gov.in/

HIGHLIGHTS

Launched on June 30, 2021, the West Bengal Student Credit Card (WBSCC) Scheme provides collateral-free educational loans of up to ₹10 lakh at a subsidized 4% simple interest for students up to the age of 40 for studies in India or abroad. Digitally Delivered by NIC, this end-to-end paperless, automated, and transparent system streamlines processes from student registration to loan disbursement. 88,948 Loan application has been sanctioned worth ₹3,245.95 Cr till now [data : 19-05-2025].



TECHNOLOGIES



E-Allotment of Rental Housing Estates, Housing Department

Department of Housing, Govt. of West Bengal

Highlights <https://rhe.wb.gov.in> **PRISM Id: 20968**

- "Transforming housing services with transparency, accountability, and digital innovation."
- The Department of Housing, West Bengal, manages 13,800 RHE flats across 23 districts.
 - The e-Allotment portal streamlines the process from application to release of flats.
 - Integrated with HRMS for secure authentication and accurate data fetching.
 - Features include automated cancellations and QR-enabled license generation.
 - Ensures a transparent, efficient, and citizen-friendly housing service experience.



Key features

- End to end online workflow
- HRMS based secure Authentication
- Auto Fetch applicant details from HRMS
- Online Flat Allotment based on Allotment Rules
- Auto Cancellation of Offer and Licenses for allotted flat
- QR code in License
- Special Recommendation for allotment

Statistical Figures/Integrations

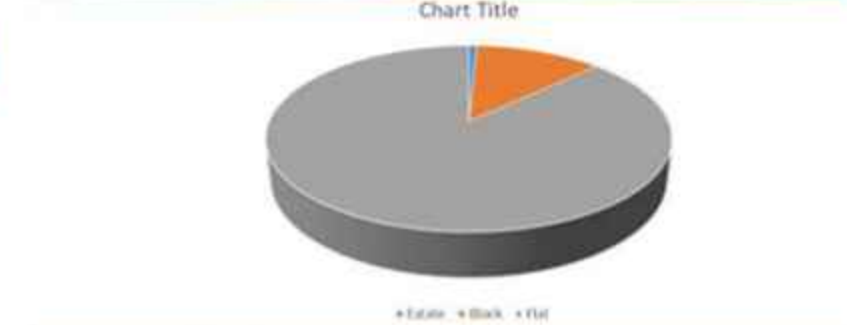
GOVERNMENT RHEs AVAILABLE FOR ALLOTMENT

35 Government RHEs of types A, B, C, D, and VIP in the Kolkata region are available for allotment.

✓ Out of 13,800 RHE flats, there are 35 Government RHEs of types A, B, C, D, and VIP in the Kolkata region are available for allotment.

Technology Used

Graphical representation (yearly/monthly increment)



Recent Activities

- Modifications in license extension process.
- Modifications in user-tagging process.
- Organized training session for sub-divisional and divisional assistant and executive engineers.
- Ongoing development of technology stack from Drupal 7 to Laravel 12.

Summary/Training

- Regular User Training conducted for new/Changed module
- Improved Process Flow explained to Departmental Senior Officers

Different Modules in the System

- ✓ Login through IFMS portal with HRMS ID

Directorate of Commercial Taxes (Finance Department, Government of West Bengal)

URL: <https://comtax.wb.gov.in>

Highlights:
Under the conceptual leadership and initiative of the Directorate of Commercial Taxes, a comprehensive end-to-end ICT solution has been established to provide transparent, efficient, and easily accessible services for good governance. This unified platform, which covers all business functionalities for West Bengal State Tax, Goods & Service Tax VAT, CST, and Entry Tax, was designed, developed, and continues to be maintained by NIC WBSC.



Key Features & Impacts:



Yearly Data (2025-26):

Active Taxpayers as on 31st March 2026	4,38,333	eFiling of Return (VAT, CST, WBST, Sales Tax Deducted at Source-STDS)	Statutory Forms (C, F, EI, EII, F)	Assessment
Total Revenue Collection during Financial Year 2025-2026	1,33,785 Cr	32	63	0
		Tax Recovery	Appeals	Forms uploaded from outside states
		0	10	25

Technology Stack:



Tourism Department Website & Mobile App of Kalimpong District Tourism

PRISM ID 3139
Production URL <https://wbtourism.gov.in>

Highlights
Integrated configurable web portal which serves as one-stop solution for Tourists. Stakeholders are allowed to enter into system to facilitate to work as per role. The App provides a platform for on-boarding of all Stakeholders like Hotel owners, Transport Operator, Home Stay owners, restaurant and eateries owners, District Administration etc.



Achievement: Successfully development and implemented



Technology Stack:
Laravel, Flutter, GitLab, DevSecOps
Database: PostgreSQL, Mongo DB



<https://polytechnic.wbtetsd.gov.in>

PRISM ID: 17832

eGovernance Portal of Govt. Polytechnics

Technology Stack : PHP, CodeIgniter, Bootstrap, PostgreSQL, Apache

This is comprehensive portal for all Govt. Polytechnics under Dept of Technical Education, Training & Skill Development, Govt of West Bengal. It is one stop place for citizens, students, faculty and administration to find relevant information about Polytechnic Colleges of West Bengal. Various information about colleges including contact details, notices, courses, admission procedure, examination, campus facilities etc. are available in the portal. Principals of each College has the Administrator privilege to upload necessary information about the polytechnics.

- ❖ **Centralised Information System:** provides a unified platform for managing academic and administrative activity of Govt. Polytechnics.
- ❖ **Staff and Faculty Management:** enable digital profiles, workload distribution and performance tracking for teaching staffs.
- ❖ **Real-time Analytics and Reports:** Dashboards for monitoring institutional performance, student outcomes and resource utilisation.

- Total No. of Active Employees : 2953
- Total No. of Routine Created : 302307
- Total No. of Class Execution: 2441497
- Total No. of Stock Entered: 29929

<https://dvet.wb.gov.in>

PRISM ID: 18086

Integrated Online Salary Management System for DVET (i-OSMS)



Technology Stack : PHP, CodeIgniter, Bootstrap, PostgreSQL, Apache

i-OSMS, West Bengal's Integrated Online Salary Management System for DVET, digitizes Vocational Trainer/Instructor management. It automates payroll via IFMS and handles service records, pay slips, salary increments and also disburses financial aid to each eligible student under the Taruner Swapna scheme on a single, streamlined platform.

Highlights:

- **Seamless Salary Management:** Automated salary processing with IFMS integration.
- **Recurring Grant Management:** Recurring grant disbursement for VTC with IFMS.
- **Taruner Swapna:** Disbursement of amount RS- 10000 for each student under Taruner Swapna Scheme.
- **Online P-TAX Processing.**
- **Profile Management:** Secure profile updates for employees.
- **Barcode Based Report Authentication System.**
- **Employee Benefits:** Timely processing of bonuses, Appraisal and other benefits.
- **FAQ SYSTEM Related to VTC with Maps.**

- No of Vocational Institutes : 2585
- No of Vocational Teachers/Instructors : 11041
- Monthly Salary Disbursement : ₹875.05 Cr (Approx.)
- Monthly Remuneration Disbursement : ₹116794756 (Late Drawl Disbursement – ₹1135073)
- Monthly Recurring Grant Disbursement : ₹13256421
- Number of active beneficiaries under Taruner Swapna Scheme : 42764 (F.Y.- 2025-2026)
- Disbursement of Tab fund under Taruner Swapna Scheme : ₹14,02,90,000 (F.Y.- 2025-2026)



Central Project

Project Name	Prism Id	Project URL
e-Transport (SARATHI)	G2G G2C	https://sarathi.parivahan.gov.in/sarathiser vice/stateSelectBean.do

Highlights

The SARATHI Project covers the core activities :

- SARATHI 4.0 is currently providing services throughout 56 RTO/ARTO of 24 districts in West Bengal, for issue of Learner's Licence, issue of Driving License, issue of Conductor License and issue of Driving School Licence. All the services related with Learner's Licence, Driving Licence, Conductor Licence and Driving School Licence are available through Citizen Centric Service portal to avail services from convenient location.
- SARATHI-4 has been integrated with West Bengal state service portal (BSK) and providing four services related with driving licence and two services related with conductor licence.
- SARATHI-4 has been integrated with eChallan which makes easy to get offence(s) lodged against driving licence.
- Citizen may submit application and may deposit prescribed fees through online fees payment facility without visiting RTO/ARTO.



Implementation / Benefits of Citizen:

- All type of licence detail is available through web site and provide facility to verify from anywhere without visiting RTO/ARTO.
- As the portal is compatible for Work from Home, so citizen may apply from the comfort of his home.



Technical Stack

Centrally developed

Graph



Statistics

- No. of transactions (SARATHI) March'2026 :9,56,870
- No. of transactions (SARATHI) cumulative :4,13,97,318
- No. of DL issued (SARATHI) March2026 :56,769
- No. of DL issued (SARATHI) cumulative :1,01,49,725

Project Name	Prism Id	Project URL
e-Transport (VAHAN)	G2G G2C	https://vahan.parivahan.gov.in/vahan/vahan/ui/login/login.xhtml

Highlights

The VAHAN Project covers the core activities :

- VAHAN is a highly flexible and comprehensive system that takes care of all the burdensome activities of Vehicle Registration, leaving the Transport Department to deal with more important business issues. The software enables the processes at RTO/ARTO involving Vehicle Registration, Fitness, Taxes, Permits & Enforcement to get computerized.
- The State Transport Department is governed by both Central Motor Vehicle Regulation (CMVR) and state specific Motor Vehicle Regulation (State MVR). Consequently, VAHAN was conceptualized as a product that would capture the functionalities as mandated by CMVR as well as state MVRs.
- VAHAN offers various e-services to citizens, including applying for fancy number plates and checking vehicle registration status.
- The citizen of West Bengal can print their Vehicle Registration Certificate and No Objection Certificate without going to Arto/Rto. In Inter State Permit Buses can move from West Bengal to Other State for five years.



Implementation / Benefits of Citizen:

- The citizen of West Bengal can print their Vehicle Registration Certificate and No Objection Certificate without going to Arto/Rto
- Vahan offers various e-services to citizens, including applying for fancy number plates and checking vehicle registration status.



Technical Stack

Centrally developed

Graph



Statistics

- No. of transactions (VAHAN) March'2026 :4,22,855
- No. of transactions (VAHAN) cumulative :12,87,48,217
- Vehicle Registration (VAHAN) March'2026 :1,12,426
- Vehicle Registration (VAHAN) cumulative :1,83,64,848



Central Project

Project Name	Prism Id	Project URL
e-Transport (PUCC)	G2G G2C	https://puc.parivahan.gov.in/puc/

Highlights

The PUCC Project covers the core activities :

- Pollution Under Control Certificate (PUCC) is a centralized application designed to connect all Vehicle Pollution Checking Centres which issues Pollution Under Control Certificates to vehicles as per Motor Vehicle Act. It facilitates mandatory linking of PUCC status of vehicles with the Centralized Vahan Database for vehicles as per Supreme Court Guidelines.
- The application captures smoke parameter through API provided by the manufacturer, vehicle number plate through webcam, and sends OTP to the vehicle owner.
- Subsequently, PUCC is issued to the vehicle owner if the pollution emitted by the vehicle (Petrol, Diesel, four/ two-wheeler, transport/ non-transport, etc.), is as per norms.
- Completely online certificate issuance process ensures compliance with current emission norms, data accuracy, transparency as well as efficiency.
- Centralised monitoring of individual PUCC Centres and Devices.
- A completely work-flow based application, ensuring less paperwork in RTOs due to automation of processes and availability of all the information online, resulting in substantial reduction of paper-work.
- Deployed in Cloud environment (VM provisioning from the National Data Centre of NIC), ensuring minimal infrastructure/ hardware requirement.



Technical Stack



Graph



Statistics

- ✓ No. of PUCC issued (All India) March'2026 : 75,77,337
- ✓ No. of PUCC issued (All India) cumulative : 43,12,24,285
- ✓ No. of PUCC issued (West Bengal) March'2026 : 5,72,531
- ✓ No. of PUCC issued (West Bengal) cumulative: 3,37,65,498

Implementation / Benefits of Citizen:

- Completely online certificate issuance process ensures compliance with current emission norms, data accuracy, transparency as well as efficiency.
- ✓ Citizen, and all other stakeholders' concerns have been incorporated in the system to make it more user-friendly and transparent.

Project Name	Prism Id	Project URL
e-Transport (e-Detection)	G2G G2C	https://vahan.parivahan.gov.in/eDetection

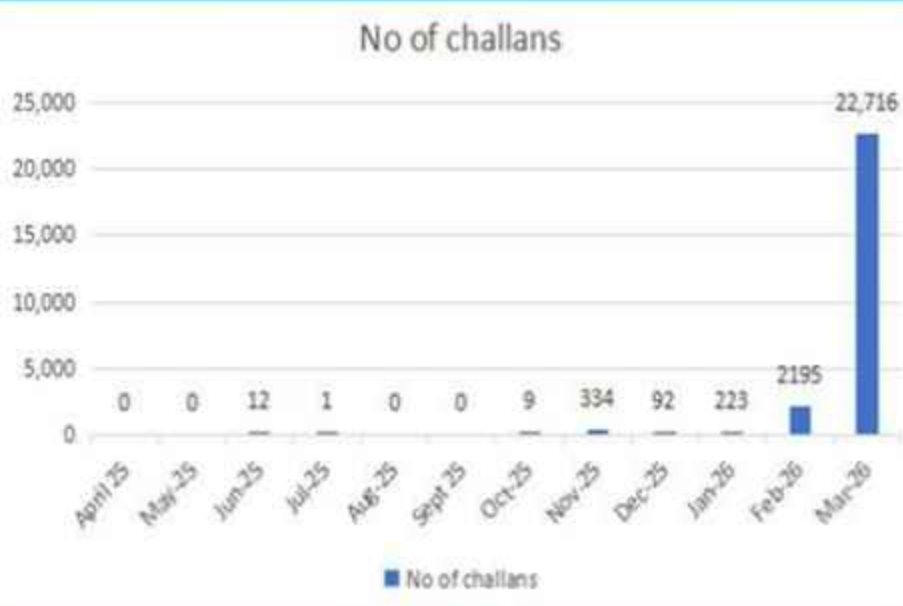
Highlights

The e-Detection Project covers the core activities :

- e-Detection portal detects defaulters (Tax, fitness of vehicle, Insurance) vehicles while passing through toll plaza and then take necessary actions by Transport Department. In West Bengal pilot project has been just started (June-2025) at Debra toll plaza and inaugurated by West Bengal Transport Officials along with NIC officials.
- Enhances enforcement efficiency and revenue collection by automating detection of defaulter vehicles
- Flow of actions:
 - Vehicles passing through toll plazas
 - Passing vehicles data of toll plazas fetched through e-detection portal
 - Motor vehicle inspector inward challan for all default vehicles through e-detection
 - Vehicle owners can pay challan amount through echallan portal.



Graph



Statistics

- ✓ No. of challans (e-Detection) March'2026 : 22,716
- ✓ No. of challans (e-Detection) cumulative : 25,695

Implementation / Benefits of Citizen:

- ✓ Enhances enforcement efficiency and revenue collection by automating detection of defaulting vehicles



Central Project

Project Name	Prism Id	Project URL
e-Transport (iRAD)	G2G G2C	https://irad.parivahan.gov.in/

Highlights

The iRAD Project covers the core activities :

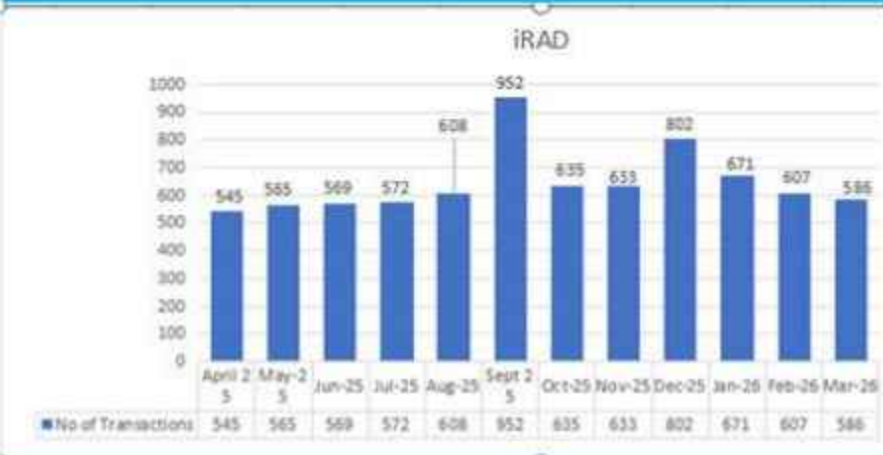
- The Integrated Road Accident Database (iRAD) Project is an initiative of the Ministry of Road Transport and Highways (MoRTH), Government of India. The purpose of iRAD project is to provide mechanism to collect and analyse road accident data from all over West Bengal State to understand the causal factors of the accident and formulate new interventions and policies to facilitate reduction in the number of road accidents thereby enhancing road safety in India.
- The data is fetched from VAHAN and SARATHI Portal into iRAD Application for accident entries. iRAD Application will be integrated with CCTNS Server for FIR details soon.
- iRad/eDAR enhances the value proposition for citizens by making the road accident claims process more efficient, transparent, and less burdensome, ultimately leading to a better experience for those affected by road accidents.



Technical Stack

Centrally Developed

Graph



Statistics

- ✓ No. of accidents recorded March'2026 : 586
- ✓ No. of accidents cumulative :19,313

Implementation / Benefits of Citizen:

- The insights gained from iRAD are used to inform policy decisions, road safety campaigns, and engineering improvements aimed at reducing accidents.
- iRad/eDAR enhances the value proposition for citizens by making the road accident claims process more efficient, transparent, and less burdensome, ultimately leading to a better experience for those affected by road accidents.

Project Name	Prism Id	Project URL
e-Transport (e-Challan)	G2G G2C	https://echallan.parivahan.gov.in/

Highlights

The e-Challan Project covers the core activities :

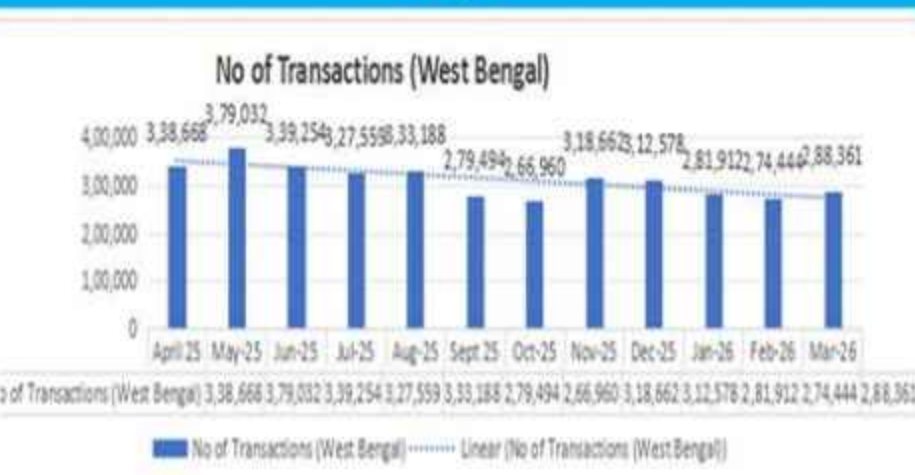
- e-Challan is a sophisticated software application comprising Android based mobile app and web interface, developed for the purpose of providing a comprehensive solution for Transport Enforcement Officers and Traffic Policemen. This app-cum application is integrated with Vahan and Sarathi applications and provides a number of user-friendly features while covering all major functionalities of Traffic Enforcement System.
- One Nation One Challan Android based mobile app and web application for issuing e-Challans.
- Comprehensive solution for transport and traffic enforcement officers.
- End-to-end automated system with customizable digital interface for all the stakeholders.
- The application introduces a novel concept of using mobile based app for issuing eChallan. The mobile based access to the system is available only to enforcement officers through android smart phones.



Technical Stack



Graph



Implementation / Benefits of Citizen:

- This is an end-to-end automated system with digital interface for all the stakeholders in purview of challan eco-system. The application offers customized interfaces for the following stakeholders:
- Connecting all the stakeholders through a common system will ensure data integrity, reliability and transparency.

Statistics

- ✓ No. of e-Challans March'2026 (All India) :77,38,437
- ✓ No. of e-Challans cumulative (All India) : 37,87,79,294
- ✓ No. of e-Challans March'2026 (West Bengal) :2,88,361
- ✓ No. of e-Challans cumulative (West Bengal) : 1,08,64,170

Project Name	Prism Id	Project URL
e-Transport (Content Management System)	3586	In development phase



Highlights

The CMS Project covers the core activities :

- User Authentication and Authorization
- Form based Entry and Update of Schemes
- Entry of Scheme Status
- Reporting Workflow
- Report Compilation at State Level
- Data Visualization and Analysis
- Notifications and Alerts
- User Management
- Data Export
- Security Features
- Reporting Categories and Templates
- Data Quality Checks
- GIGW Compliant Interface
- Demonstration to The Transport Department

Implementation / Benefits of Citizen:

- ✓ In development stage



Technical Stack



Graph

In development stage

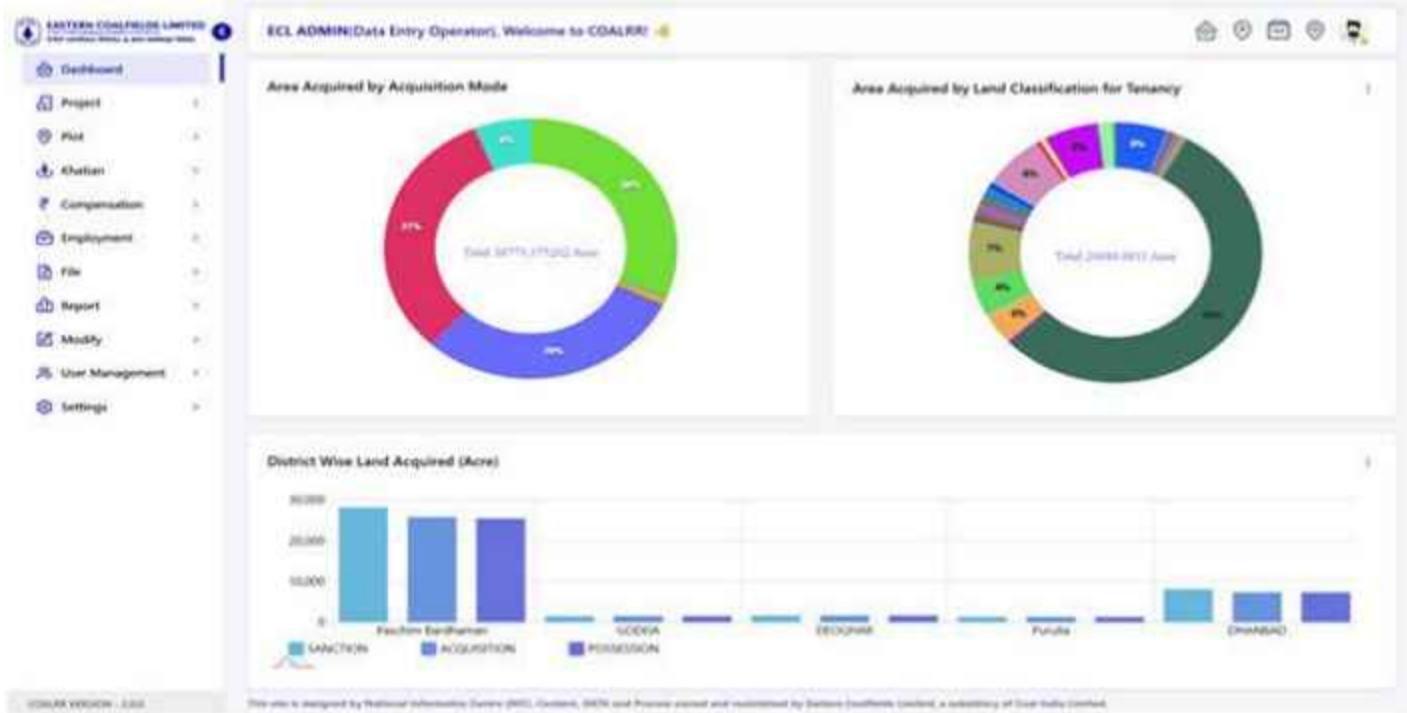
Statistics

- ✓ In development stage



State Projects

PROJECT NAME	PRISM ID	PROJECT URL
COALRR (Consolidation Of Accountable Land Resettlement & Rehabilitation)	2639	https://eclcoalrr.in/



HIGHLIGHTS

Honorable Chairman Coal India inaugurated the portal on 18/09/2025 in the presence of apex officials of CIL and all its subsidiaries and Officials of NIC.

The COALRR portal is designed to simplify the land acquisition process by providing a transparent and accountable digital platform to stakeholders. It facilitates Compensation, R&R benefits, GIS Mapping and better monitoring and reporting.

The portal aims to simplify the land acquisition process and establish a transparent and accountable digital platform.

It helps to eliminate the risk of data loss and prevent multiple payments of compensation for the same land.

It helps to visualize the information using interactive GIS maps.

Compensation, Employment modules helps the citizens to monitor their claims.

94,175
Plot Entry

44,056.4176 Acre
Total Acquired Plot Area

13,366
Owner Count

1,942
Compensation Paid

TECHNICAL STACK

Laravel, jQuery, PostgreSQL, PostGIS, MongoDB, QGIS, Leaflet.js, GeoServer, Git, Redis

Project Name	Prism Id	Project URL
Medical Counselling (West Bengal)	PG Medical & Dental UG Medical Dental & Ayush PG Ayush	Prism ID: 2884 Prism ID: 3601 Prism ID: 3130 https://wbmcc.nic.in



Highlights

The Counselling Project covers the core activities of WBMCC:

- Centralized Medical Counselling Platform
- Real Time Merit Based seat Allotment
- Streamlined registration & Application Process
- Document verification and Eligibility validation
- Dynamic Seat matrix and vacancy update
- Multi-Round Counselling Workflow
- Institution wise and course wise Reporting dashboard
- Automated Allotment letter & Admission Status
- Offers timely support and resolution through Helpdesk integration, FAQs and user Guidance documentation.



INTRODUCTION

Online Counselling and admission to various Post-Graduate (PG) and Under-Graduate (UG) courses in Medical, Dental and AYUSH at the State level are being conducted by West Bengal Medical Counselling Committee (WBMCC), formed by the Department of Health and Family Welfare, Government of West Bengal under the chairmanship of the Director of Medical Education, GuWB.

AREAS OF ACTIVITIES

- 1) Medical & Dental Admission Counselling
- 2) Seat Allotment & Admission Management
- 3) Candidate Registration & Doc. Verification
- 4) Information Dissemination & Support Service

Technical Stack

Implementation / Benefits of Citizen:

- ✓ Ensures fare and real time allocation of medical seats through a centralized , rule –based system, eliminating manual errors
- ✓ Enables student to complete registration, choice filling, document verification, and admission tracking entirely online – saving time and travel
- ✓ Providing dynamic vacancy updates, allotment and 24X7 support through helpdesk for smooth Counselling experience.



Statistics

- ✓ No. of Counselling Projects: 5
- ✓ Total Seats : 8,602
- ✓ Total candidates : 27.44 Lakhs
- ✓ Total Registered Candidates: 21,568
- ✓ Total Revenue: 4.14Cr.
- ✓ Total Admitted: 8,322



Web Application of the Department of Power

Department of Power, Govt. of West Bengal

<https://wbpower.gov.in/> PRISM Id: 21204

Highlights

"Empowering the people, energizing the state."

- The Department oversees electricity generation, distribution, and utilization across West Bengal, ensuring power for the public good.
- It formulates and enforces state policies and regulations under the Electricity Act of 2003, coordinating with entities like the Western Bengal Electricity Regulatory Commission and other utilities.
- The Department also plans and monitors power infrastructure projects, supports rural electrification, and promotes energy efficiency and renewable energy sources.

Key features

- Content Storage & Organization
- Content Publishing & Workflow

Statistical Figures/Integrations

- 1972 – Department of Power established
- 1.8 Crore+ Consumers across West Bengal
- 4 Major Utilities – WBSEDCL, WBSETCL, WBPDCCL & CEI
- 100 MW+ renewable energy projects under implementation

Statewide ERP & IT systems improving efficiency

Technology Used

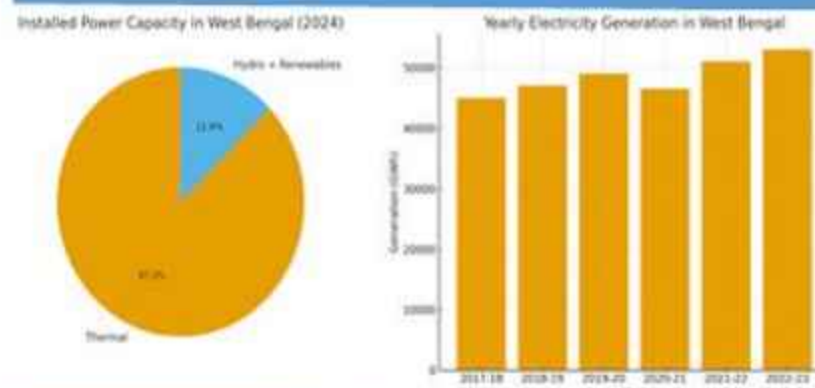


Awards and achievements

- IPPAI Award, 2020
- IPPAI Award, 2019



Graphical representation (yearly/monthly increment)



Recent Activities

- The second-level audit report for revamping has been completed.
- Login lockout and audit logging have been added to this portal.

Summary/Training

The portal acts as a transparent, user-friendly digital interface, reflecting the Government of West Bengal's commitment to efficient governance of in the power sector.

Different Modules in the System



e-Services for Directorate of Electricity

Department of Power, Govt. of West Bengal

<https://doepower.wb.gov.in>
<https://tathyasathi.bangla.gov.in> PRISM Id: 21203

Highlights

"Powering progress with safety, innovation, and service excellence."

Directorate of Electricity (DOE), WB is a vital component of the Power Department, responsible for overseeing the efficient functioning of electricity services. With a focus on modernization and service excellence, DOE offers a range of services to meet the diverse needs of stakeholders. Directorate of Electricity (DOE) offers three main types of services available (Lift/Escalator, Licensing Board, Inspection Services), catering to various aspects of electricity management and regulation.

Key features



Statistical Figures/Integrations

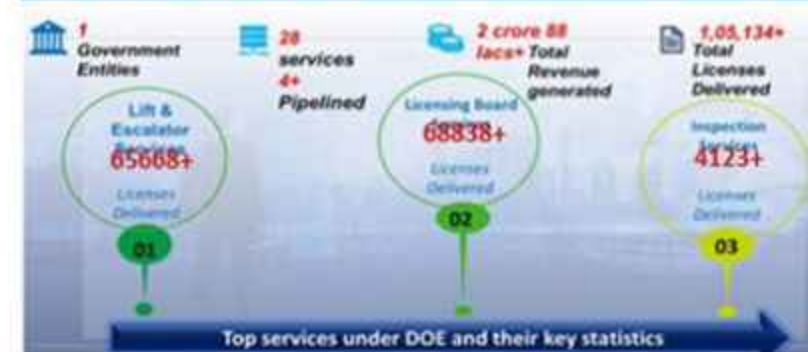


Different Modules in the System

- Paperless/faceless Service request through EoDB portal.
- Faster, hassle free quality service delivery
- Integrated with EoDB and WBSEDCL



Graphical representation (yearly/monthly increment)



Recent Activities

- Working on Maintenance of Lift services.
- Modification in workman services.
- Application sifting to the new version of

Summary/Training

- Regular User Training conducted for new/Changed module.
- Improved Process flow explained to user

Technology Used





Modified West Bengal Textile Incentive Scheme (WBTIS)

Department of Micro, Small and Medium Enterprises and Textiles, Govt. of West Bengal

Highlights

<https://textiles.wb.gov.in> PRISM Id: 21257

"Empowering small enterprises today to build a stronger economy tomorrow."

- The scheme provides fiscal incentives to encourage entrepreneurs.
- Aims at balanced development of Micro, Small & Medium Enterprises across the state.
- Focuses on creating a sustainable ecosystem for MSME growth.
- Promotes optimal resource utilization and employment generation.
- Aspires to position West Bengal as a leader in the MSME sector nationwide.

Key features



Automated Subsidy Calculator



Realtime Application status

Technology Used



Statistical Figures/Integrations



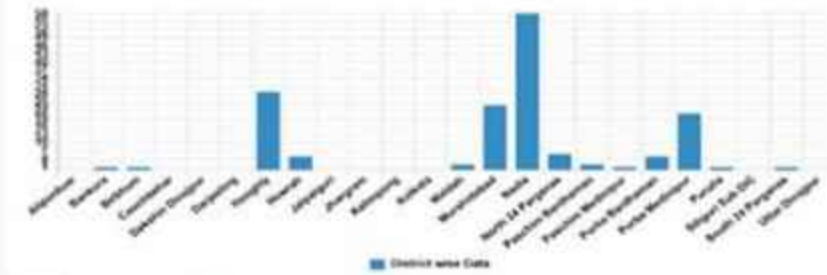
Different Modules in the System

- Manages subsidy disbursement for eligible powerloom
- Provides targeted financial support to handloom enterprises
- API integration with WBDED



Graphical representation (yearly/monthly increment)

District wise Applications



Status of Applications

User Registration

Entrepreneur



Recent Activities

- Fix bug in the Portal
- Change in form A
- Pre Election Website Update.

Summary/Training

- Regular User Training conducted for New/Changed module.
- Improved Process flow explained to user.



e-Services of Marketing Incentive

Directorate of Textile (Handloom etc.), Govt. of West Bengal

Highlights

<https://tantibandhu.wb.gov.in> PRISM Id: 21211

"Weaving tradition with opportunity, empowering handloom for a sustainable future."

- The Marketing Incentive Scheme strengthens West Bengal's handloom sector with sales support and competitiveness.
- Funded jointly by Gol and GoWB (50:50), it provides 10% incentive on average turnover for 3 years.
- It helps cooperatives modernize infrastructure, attract buyers, and ensure sustainable growth.

Key features

- Beneficiary Registration & Log-in
- Multi-Role User Management
- Claim Submission
- Back for correction & Registration details Updating
- Workflow and Verification
- Recommendation
- Dashboard & Monitoring
- Certificate Generation
- Reports & Analytics

Different Modules in the System

- Registration & Login
- Claim
- SLPC
- News Post
- Report
- Official Creation & Update
- Role wise Action



Recent Activities

- Developed a new Backlog Claims Entry module to facilitate entry of pending/previous claims in the system.
- Implemented two modes of data entry: Manual Form Entry – Users can input individual backlog claim details through a structured form interface. Bulk Excel Upload – Users can upload multiple backlog claims at once using a predefined Excel format.
- Designed and implemented comprehensive validation mechanisms for both entry modes to ensure data accuracy and consistency.
- For bulk upload functionality: Provided a downloadable Excel template with predefined structure and headers.

Summary/Training

- Regular User Training conducted for new/Changed module.
- Improved Process flow explained to user

Technology Used





Portal for Youth Services and Sports

Department of Youth Services and Sports, Govt. of West Bengal

Highlights <https://sportsandyouth.wb.gov.in> PRISM Id: 21226

"Igniting youthful energy and sporting spirit across Bengal."

- The Department promotes youth development through sports infrastructure, training academies, cultural activities, and talent scouting across the state.
- Its vision includes nurturing employability, scientific thinking, and character building in youth via moral development, sports, and cultural platforms.
- The Department operates under the Sports & Youth Affairs Ministry led by Aroop Biswas, who has served since 18 November 2015

Key features

Update of senior officials and board members and key personnel	Update of contents on website
Add new notices, tenders, other documents, and removal of old documents on website	Update of stadium details and latest events

Add / Remove event images

Statistical Figures/Integrations

No. of youth computer training centres: 986	No. of advanced diploma courses: 3
No. of certificate courses: 9	No. of vocational training centres: 14
No. of diploma courses: 7	No. of mountaineering courses: 6

Technology Used



Recent Activities

- Email triggering issue fixed - introduced postfix and other changes to solve
- WB Sports pre-election website update.
- WB Services pre-election website update.

Summary/Training

A comprehensive CMS to manage contents of both West Bengal Sports and Services wings. User can manage images to display, events, key members of the department and display information in a chronological order etc.

Different Modules in the System

Add/Edit/Remove department key personnel	Add/Edit/Remove events and images	Add/Edit/Remove sports personnel
Add/Edit/Remove stadium details	Publish/Remove notices, tenders, news etc.	



Paschim Banga Go Sampad Bikash Sanstha (e-PBGSBS)

e-PBGSBS Management System for Department of Animal Resource Development, Govt. of West Bengal

Highlights <https://pbgsbs.gov.in> PRISM Id: 21228

"Empowering livestock development through digital innovation for a stronger rural Bengal."

A web application software for Department of Animal Resource Development, Govt. of West Bengal for online monitoring the Artificial Insemination Related Activity, Management of Inventory and distribution of Frozen Semen Straw, Management of Insurance Details of cattle, Fund for Insurance and Accounting for Incentive payment to A.I. Worker carried at different tier of the organization like State, District, Block and Gram Panchayat and developed a information system for smooth functioning of the department.

Key features

Role-based user access	Registration of AI worker & Pranimitra
Cattles are tagged to the system	Artificial insemination & calves born reporting

AI System

Statistical Figures/Integrations

MultiTier application for collecting real time data on Artificial Insemination from village level to state and periodic service delivery to village level A.I. worker and the farmer.

Services are available through multiple modes like web portal, mobile app, smart phone version as well as through SMS services.

SMS and web based Registration of Breed able Cattle & Buffalo by using ear tag having 12 digit unique number.

22004 Total No. of AI worker & Pranimitra registered to the system	8,285,581 Total No. of Cattle are tagged to the system
10,302,684 Total no. of artificial insemination done	1,971,235 Total no. of calves born reported
24,833,677 Total no. of SMS are pulled	29,933,854 Total no. of SMS are pushed

Technology Used



Graphical representation (yearly/monthly increment)

Total No. of AI workers & Pranimitra registered to the system 22004	Total no. of calves born reported 1,971,235
Total No. of Cattle are tagged to the system 8,285,581	Total no. of SMS are pulled to the system 24,833,677
Total no. of artificial inseminations done 10,302,684	Total no. of SMS are pushed from the system 29,933,854

Recent Activities

- Prepared and uploaded beneficiary and transaction reports for five schemes to the Social Registry portal (Session 2025-26, up to February 2026).
- Fixed and implemented the new layout on the frontend website using Bootstrap for improved responsiveness.
- Developed and integrated a custom template page for the frontend website (GBML page) and backend; created a new GBML user role and user; and enabled access to inventory management modules (FSS & Cryo Accessories).
- Optimized the codebase by removing unused CSS and JavaScript files and consolidating initialization logic into a single common module.
- Enhanced the Cryo Accessories Module by adding reports including Stock Distribution, Stock Received History, Stock Activity, and Stock Balance (as on date) for all user levels.
- Updated the FSS Module by adding and modifying district and block-level reports, including Block Stock Distribution, Block Bull Received History, District Stock Distribution, and District FSS Received History.
- Implemented additional modifications and filtering features in both the FSS and Cryo Accessories modules.
- Resolved issues logged in the support ticket system and performed necessary backend data corrections.
- Prepared departmental reports and completed other assigned official tasks.

Summary/Training

- Regular User Training conducted for new/Changed module.
- Improved Process flow explained to user

Different Modules in the System





<https://wbtenders.gov.in>
*
<https://tenders.wb.gov.in>

Government of West Bengal is using NIC's eProcurement platform since 2009. Earlier it was funded under eProcurement Mission Mode Project.

Since 2018, the government is funding the project implementation on Capex and Opex basis for an estimated load of 1,00,000 (One lakh tenders per annum)

Since Sep 2023, regular huge increase in numbers of tenders floated per month was witnessed around 40-50,000 per month from an estimated average of 10,000 tender per month. This was a result of the State Govt's decision to extend electronic tendering feature to all Zilla Parishads. This exponential rise in tenders has been handled efficiently by the GePNIC team so that the decision could be honoured.

TRAINING SESSIONS IN DECEMBER 2025

Training Program was held in the month of January 2026 with 6 participants on WB GePNIC Software, its different modules & workflow, Prerequisites and requirements for onboarding, complete eTender process flow and BoQ types for **Principal Accountant General (Audit-I), W.B.** held at DPPG, Finance Department, Purta Bhaban, Salt Lake, Kolkata-700091 on 14.01.2026



West Bengal e-Procurement Portal		
Description	wbtenders.gov.in	tenders.wb.gov.in
Tender Value January 2026 (in ₹ Crores)	6106	1004
Cumulative Value Since Inception (in ₹ Crores)	741272	4186
Number of Tenders	66,027	39664
Number of Tenders (Cumulative Since Inception) (in Lakhs)	22.92	0.39
Bidders/Contractors (Cumulative Since Inception)	85114	80358
Departmental Users (Cumulative Since Inception)	19669	18655
Active Registered Organisations	9063	9063





MARRIAGE REGISTRATION IN WEST BENGAL

<https://rgmwb.gov.in>

MARREG portal has been introduced on and from 01.12.2018 for registration of marriages under Special Marriage Act 1954 and Hindu Marriage Act 1955 through online mode. The Govt. of West Bengal has made this marriage registration mandatory through online portal on and from 01.06.2019. Till date **708267** nos. of marriages under Special Marriage Act 1954 and **446954** nos. of marriages under Hindu Marriage Act 1955 has been registered through this portal. The introduction of the portal has benefitted the parties to the marriages and registration to register their marriages seamlessly. They can apply online themselves from their desktop or even using their mobile phone. They can choose the appropriate Marriage Officer properly, as per their choice avoiding any middle man. By the introduction of this online marriage registration; Bigamy, Polygamy and child marriages have been intercepted successfully. Now by capturing biometric detail through the portal; administration is trying to identify properly the parties and the witnesses of the respective registration. So that the above-mentioned goals can be attend more effectively.

YEAR WISE CERTIFICATES GENERATED

Year	Certificates Generated
2019	89932
2020	149754
2021	189217
2022	183961
2023	168948
2024	171447
2025	183558
2026	18058



MARREG G2G G2C

Government of West Bengal
Law Department
Registrar General of Marriages

Register Your Marriage

- Dashboard
- About Us
- Services
- Payments
- Public Info
- Login
- Contact Us

Government of Transactions

Certificates Generated from 01 January of Current Year: **114460**

Certificates Generated from 01 of Current Month: **159**

Online No: **287**

Working Count: **6618190**

Displaying data from 01/01/2026

13712 Applications Submitted (Special Marriage Act u/s 13)	1384 Applications Submitted (Special Marriage Act u/s 16)	7509 Applications Submitted (Hindu Marriage Act)
11776 Applications Accepted (Special Marriage Act u/s 13)	997 Applications Accepted (Special Marriage Act u/s 16)	5565 Applications Accepted (Hindu Marriage Act)
11356 Marriage Registered (Special Marriage Act u/s 13)	1028 Marriage Registered (Special Marriage Act u/s 16)	5775 Marriage Registered (Hindu Marriage Act)
11349 Certificate Generated (Special Marriage Act u/s 13)	1033 Certificate Generated (Special Marriage Act u/s 16)	5792 Certificate Generated (Hindu Marriage Act)

G2G

Child Marriage Reporting and Tracking System V 1.0

CMRTS Online 1.0

Forgot Password?

CMRTS Online 1.0 © Copyright 2023-24, All Right Reserved Designed & Developed By

Disclaimer Contents, data and process owned and maintained by Department of Women & Child Development and Social Welfare, Government of West Bengal.

Technology Stack : Code Igniter 3, PHP 7.4, Apache2.4, PostgreSQL 13

Child Marriage Reporting and Tracking System

PRISM ID: 2814

URL: <https://cmrts.wb.gov.in>

- Unique initiative for reporting & recording Child Marriage cases in West Bengal
- End-to-end ICT enablement solution

Statistics since inception

Intervention Reported –13,896
Home Enquiry Done –10,845
Follow-up Done –45,354

Statistics: March, 2026

Intervention Reported – 509
Home Enquiry Done – 63
Follow-up Done – 495

G2G
G2C


Appcoms and Dynamic Web site of West Bengal Information Commission

Highlights



PRISM ID : 2632

Production URL : <https://wbic.wb.gov.in>

Appeal and Complaint Management System for West Bengal Information Commission is a web-based application developed in line with the Central Information Commission and customised as per need. This application facilitates online application for complaint, registration, hearing, and final order through a workflow-based mechanism. A dynamic website for the Commission has also been developed and integrated with AppComs. To facilitate the need of the WBIC and Citizen.



Technology Stack

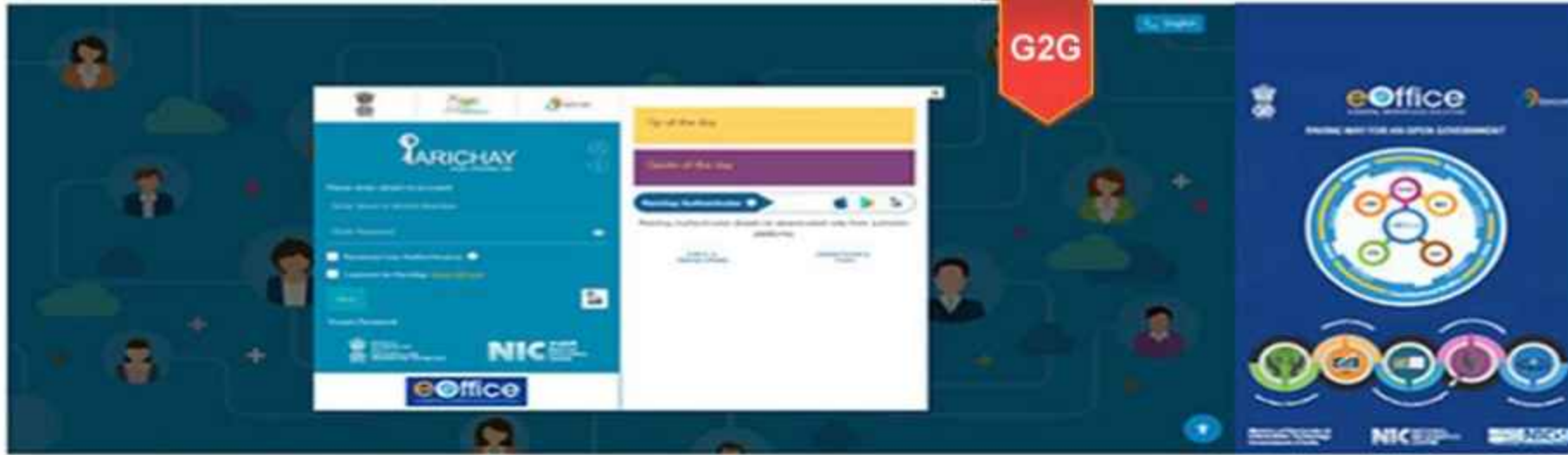
Key Features

- Offers a comprehensive end-to-end ICT-based solution to facilitate the mandate of WBIC to deal with RTI applications, appeal and its disposal
- Covers features of DAK entry, scrutiny, hearing, day to day case proceedings, and disposal of cases with necessary orders by the Information Commissioners
- Encompasses a Maker, Checker, and Approver architecture to facilitate the seamless flow of citizens' appeals and complaints
- A robust and user-friendly platform for G2C, and G2G services relating to Right to Information

Achievement: Successfully development and implemented since the Year 2023.

eOffice - Government of West Bengal

URL : <https://eoffice.wb.gov.in>



Technology Stack : Java, PHP PostgreSQL, MongoDB, KAFKA, Redis, ELK

- ✓ Currently, all 54 departments, 237 directorates/parastatals, all 22 districts, 39 sub-divisions are working in eOffice with around 40,000 files transacted daily.
- ✓ After implementation of eOffice, as per user experience, the file disposal rate has become 10 times than the older conventional physical file system. Instantly any number of files are sent and received without requiring any help of any peon etc and the recipients get SMS/email alert messages on receiving any file.
- ✓ Any file in any department can be traced immediately.
- ✓ Apart from saving stationaries, it is saving significant amount of government revenue and valuable time as files are now not required to transport from departments at different locations to Finance, Home department etc.
- ✓ As anyone can work from anywhere and anytime, even from home, it adds to the productivity manifold. During Covid situation the productivity in file-works was not very much impacted due to eOffice only.

Future Road Map

- ✓ It has been decided by GoWB to implement eOffice in all the directorates of all the secretariat departments. Works are in progress to achieve the target.
- ✓ In the next phase extend eOffice to all Sub-division and Block level. This would make West Bengal as a unique state to achieve complete eGovernance.
- ✓ It is also planned to have a Disaster Recovery (DR) setup in different geographic location for ensuring safety of data and also a Business Continuity Plan (BCP) to ensure availability of eOffice.

eOffice Services rendered to Departments in January, 2026

- ✓ Govt. of West Bengal
- ✓ Govt. of WB Secretariat
- ✓ Districts
- ✓ Sub-Division
- ✓ Kolkata Police
- ✓ West Bengal Police
- ✓ WBS&DCL

Departments under Central Govt.

- ✓ Coal India
- ✓ Damodar Valley Corporation
- ✓ AIIMS Kalyani
- ✓ Tea Board India
- ✓ Geological Survey of India
- ✓ Indian Army Eastern Command
- ✓ AIH&PH
- ✓ National Atlas & Thematic Mapping Organisation (NATMO)
- ✓ National Council of Science Museums(NCSM)
- ✓ Indian Bureau of Mines ...and more.

eOffice Statistics for Month of March, 2026

Product	Parameters	Feb., 2026	March, 2026	Cumulative since inception
eOffice for Govt. of West Bengal + Districts KP + WBP	Total No. of Users			46783
	eFile Created	25225	18553	1692744
	eReceipt Created	168079	141721	9389044
(NICS1 Project ID: S170963E0WB)	eFile Moved	867472	805782	42227995
	eReceipt Moved	14867812	15326864	408201300

Project Name	Prism Id	Project URL
eAbkari (NCT Delhi)	3490	https://eAbkari.delhi.gov.in

Highlights

The eAbkari Project covers the core activities of eAbkari:

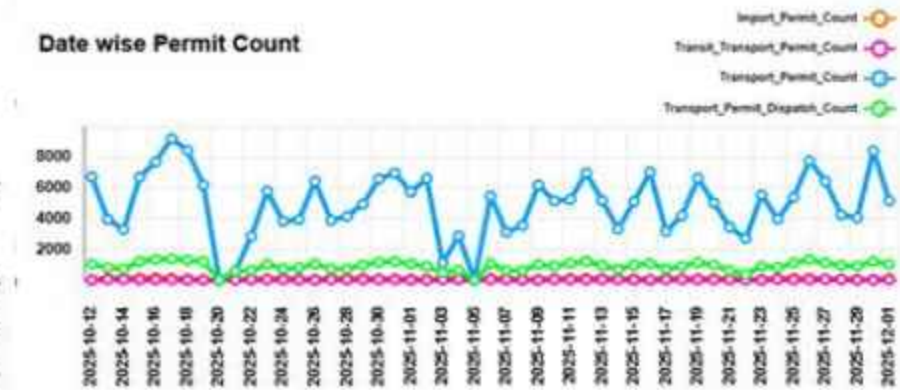
- Ensuring public health through Regulation and intelligence, Enforcement Measures.
- Excise License Management to render 360 Degree profile of Excise Licenses.
- Minimum consumption maximum revenue ensured
- Inventory management at all Excise Nodes.
- Excise Revenue Management
- Excise Licensing creation and Renewal.
- Label Registration of Packaged Liquor.
- Issuance of NOC/Permit / Passes / EVCs with status tracking at all hierarchal levels.
- Supply Chain management using QR Code based EAL on Bottle / Cases.



Technical Stack



Graph



Implementation / Benefits of Citizen:

- ✓ Execute better Enforcement management for safeguarding public health from spurious liquor.
- ✓ Increase in Excise Revenue arresting revenue leakage points through reconciliation of every drop of spirit imported or manufactured and curbing sale of non-duty paid, illicit and spurious liquor.
- ✓ Timely supply of life-saving medicines.

Statistics

- ✓ No. of Licensees: 4267
- ✓ No. of Permits : 22,32,108
- ✓ Corporation Bottle Sold : 80.85 Cr.
- ✓ HCR Bottle sales : 8.48 Cr.
- ✓ Country Liquor sales: 4.90 Cr.
- ✓ Total Revenue : 9304.54 Cr.





(State Project) West Bengal Data Centre

HIGHLIGHTS

- West Bengal Mini-Cloud delivers IaaS & PaaS to GoWB & NIC projects
- 410 VMs, 34 cloud accounts, 23 backup services, 70 public IPs provisioned
- Hosting 46 departmental websites, with 4 still active (February 2026)
- Built on 12 physical servers with 6 TB RAM & 210 TB storage
- High-speed connectivity of 10G/25G/40G across services
- Supports backend hosting, DevSecOps CI/CD, code repositories & development environments
- Ensures high availability, scalability & secure hosting for citizen-facing services

STATISTICS

Total Websites hosted: 46
Active Websites (still running): 4
Total VMs provisioned: 410
Cloud Accounts: 34
Backup Services: 23
Public IPs: 70
Load Balancers: 6



TECHNICAL STACK

- **Application Servers:** Apache 2.4.62, IIS 8/10, Nginx 1.25
- **Database Servers:** PostgreSQL 12/13/15/16, SQL Server 2008 R2/2012/2019, MariaDB 10.3/10.5/10.11
- **Operating Systems:** AlmaLinux 8.5/8.10, CentOS 7.9/8 Stream, Ubuntu 18.04/20.04, Windows Server 2012



Infrastructure & Resource Allocation

- Servers: 12 units, each with 2 CPUs (24 cores per CPU)
- Storage: 210 TB usable capacity
- Memory: 6 TB RAM
- Cluster Type: Linux-based
- Network Speed: 10G / 25G / 40G

Cloud Services

- VMs Created: 410
- Cloud Accounts: 34
- Load Balancers: 6
- Backup Services: 94
- Public IPs: 70
- Services: PaaS and IaaS

OpenStack Cloud

Platform managing large pools of compute, storage, and network resources.

Key components:

- **Nova:** Automates compute resources
- **Neutron:** Manages network connectivity
- **Storage:** Offers scalable, persistent block storage
- **Keystone:** Provides authentication & authorization
- **Horizon:** Web-based management dashboard

❖ **A total of 46 websites** from various departments under the Government of West Bengal, Government of India, and NIC were hosted from the West Bengal Data Centre. As of now, **15 websites remain in the running state**, with extended services enabled to support their ongoing migration process.

Mini-Cloud Kolkata Summary

Management Tools

- VMware vSphere, vCentre
- vRealize Automation, vRops
- Alteon Vision (Radware Load Balancer)
- Cisco UCS, Cisco HyperFlex HX
- Data Platform Controller
- Commvault Backup

Other Infrastructure in mini Data Center, Kolkata

Hyper-V Failover Cluster

Windows-based cluster solution for high availability and scalability of virtual machines.

- Nodes run Hyper-V within Windows Failover Cluster
- Shared storage accessible by all nodes
- Cluster networking ensures inter-node communication

Technology Stack

- **Application Servers:** Apache 2.4.62, IIS 8/10, Nginx 1.25
- **Database Servers:** PostgreSQL 12/13/15/16, SQL Server 2008 R2/2012/2019, MariaDB 10.3/10.5/10.11
- **Operating Systems:** AlmaLinux 8.5/8.10, CentOS 7.9/8 Stream, Ubuntu 18.04/20.04, Windows Server 2012
- **RHEL Pacemaker Cluster**
Linux-based high availability cluster for critical applications.
 - Nodes store state & config
 - SAN-based shared storage
 - Interconnected via reliable network
 - **Fencing** for node isolation, **stickiness** to avoid unnecessary migration, and **manual migration** support

❖ **A total of 10 CUCs** from the NDC infrastructure are maintained from the Kolkata Data Centre. Among them, **66 sites are currently running** or operating under **extended services** due to their ongoing migration process.



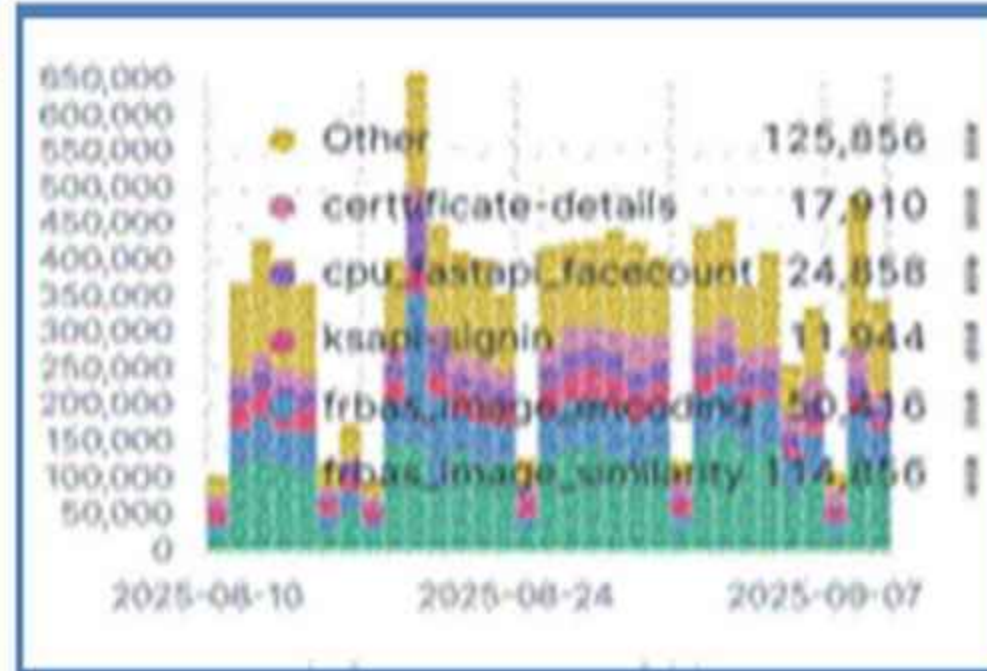
WB NAPIX Gateway & Analytics

API Calls Received : 17.25 crore since inception.

API calls for the month of March, 2026 : 1.56 crore.

HIGHLIGHTS

- 120 APIs and 50 products published in production environment
- Deployed on 3 public IP-enabled Gateway servers with a Sandbox environment
- Elasticsearch 3-node cluster for log storage; Kibana dashboards for real-time analytics
- Logs retained for 3 months
- Enables secure communication between SDC and external clients
- Centralized API management and monitoring for efficient digital service delivery



Technical Stack

- API Gateway & Infrastructure: WB NAPIX Gateway
- Analytics & Monitoring: Elasticsearch (3-node cluster), Kibana dashboards
- Networking: Public IPs for secure external access
- Integration: Backend SDC systems, NICNET

Statistics: Since Inception

API Calls Received	17.25 crore
APIs Published (Production)	120+
Products Published (Production)	50
Sandbox Tenant Forms Received	16+
Public IPs Allocated	4 (3 Gateway + 1 Sandbox)

Statistics: March 2026

Number of API Calls Received	1.56 Crore
Number of APIs Published	5

1. **Infrastructure** - The subsystems of Gateway and Analytics have been deployed. The gateway has been constructed with a comprehensive architecture to provide centralized management. The NAPIX Sandbox public IP was allocated for the purpose of establishing connections between the SDC/outside NICNET backend servers. Three public IP addresses were allocated to three WB NAPIX gateway servers in order to establish connections between the WB NAPIX Gateway servers and the SDC/outside NICNET. The validation process has confirmed the linkage between the Sandbox and WB NAPIX gateways and the SDC. Additionally, a public IP is allocated to the NAPIX Gateway in order to facilitate access to the endpoints from external sources outside of the NICNET network.
2. **Production** - A total 50 products and 102 APIs have been published on NIC West Bengal production environment. The catalogue and API may now be accessed using the discover API on the NAPIX portal. We have made extensive efforts to design APIs and the necessary support for migrating all the APIs to the NIC West Bengal NAPIX Gateway.
3. **Elastic Search Cluster** – Set up a three-node Elastic Search Cluster to store analytical logs from NIC WB NAPIX analytic servers, which only retain logs for three months. The analytics logs can be viewed using the Kibana dashboard.



(State Project)

Unified DevSecOps Framework for Secure, Multi-Stack CI/CD Automation

PRISM ID: 4805

Project URL: <https://register-gitlab.wb.nic.in>

HIGHLIGHTS

- 53 Groups have been onboarded using technology stack JavaScript, PHP, Python, Java, .Netcore
- One AI application deployed to Kubernetes platform
- Centralized DevSecOps platform for all NIC WB application teams
- Secure, multi-stack CI/CD automation using GitLab (HA), Kubernetes, Docker, and Container Registry
- Pre-configured technology-specific CI/CD templates (Python, PHP, Java, .NET, React)
- Integrated security tools (e.g., SonarQube) for code quality & compliance
- Centralized infrastructure provisioning (App/DB servers, runners)
- Dedicated onboarding portal: register-gitlab.wb.nic.in
- Supports GitOps (ArgoCD) for automated deployments



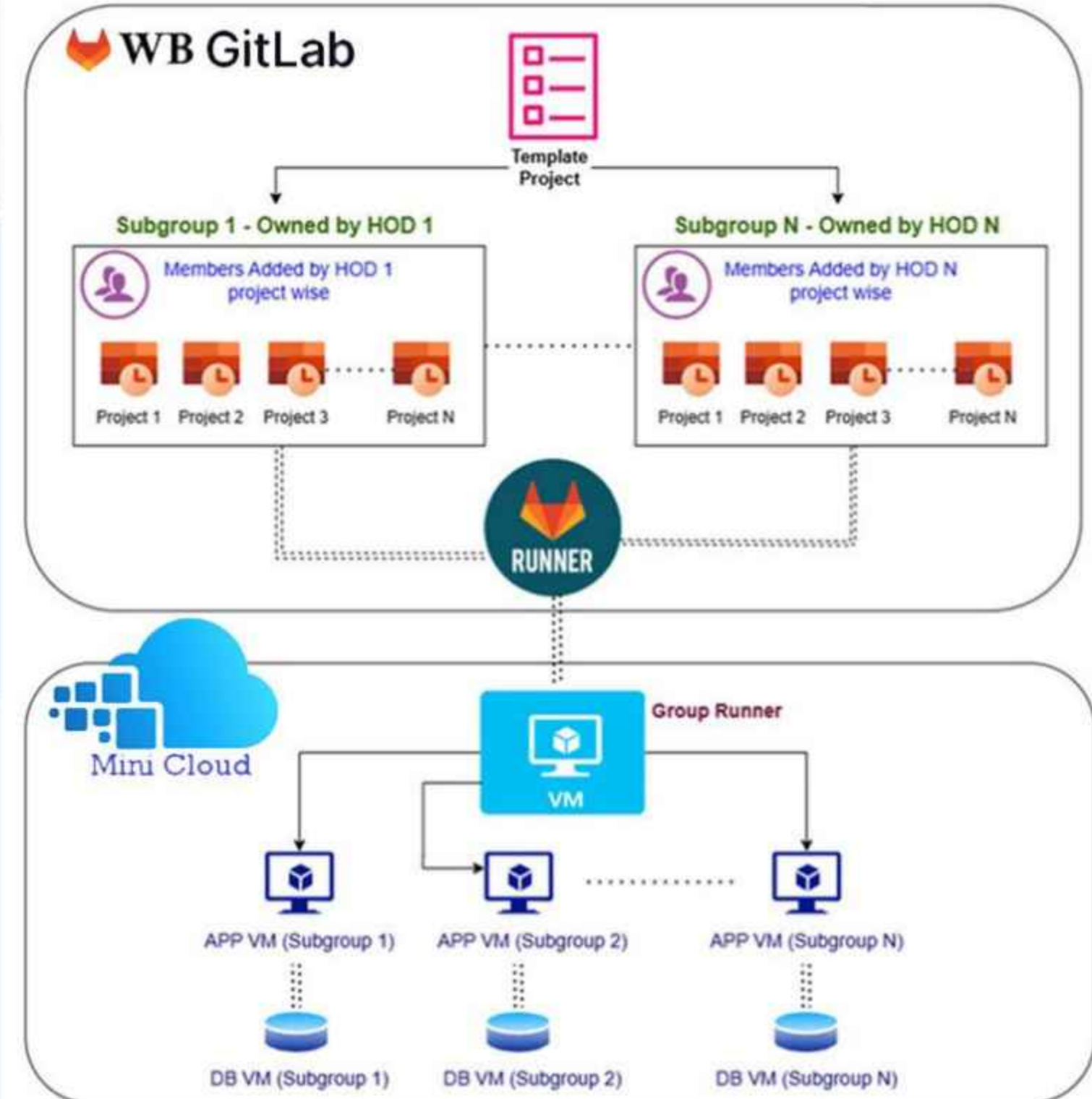
TECHNICAL STACK

- Version Control & CI/CD: GitLab (HA), GitOps (ArgoCD)
- Containerization & Orchestration: Docker, Kubernetes
- Security & Quality: SonarQube, integrated DevSecOps tools
- Infrastructure & Templates: App/DB servers, runners, pre-configured CI/CD templates for multiple stacks

STATISTICS

GitLab High-Availability Instances: 2+
 Kubernetes Worker Nodes: Multiple (Mini-DC integrated)
 Container Registry S3-compliant
 CI/CD Templates Available: 5+ (Python, PHP, Java, .NET, React)
 HODs/DIOs Onboarded via Portal: Ongoing / Dedicated portal
 Integrated Security Tools: SonarQube, etc.

Architecture



Project Name: Inference Server - AI Inferencing

Highlights

- Dedicated AI Inference Infrastructure deployed at NIC Kolkata Mini Data Centre
- 2 × GPU-based Inference Nodes (Tyrone Camarero SDI200C2G-424)
- 2 × Login Nodes (Tyrone Camarero SDI200A3N-212) for secure access and control
- Kubernetes-integrated platform for containerized inference workloads
- Optimized for AI/ML model serving and real-time inference
- Low-latency, high-throughput AI service delivery
- Dedicated GPU-powered inference layer
- Centralized and secure access through login nodes
- Designed for high availability and scalable operations



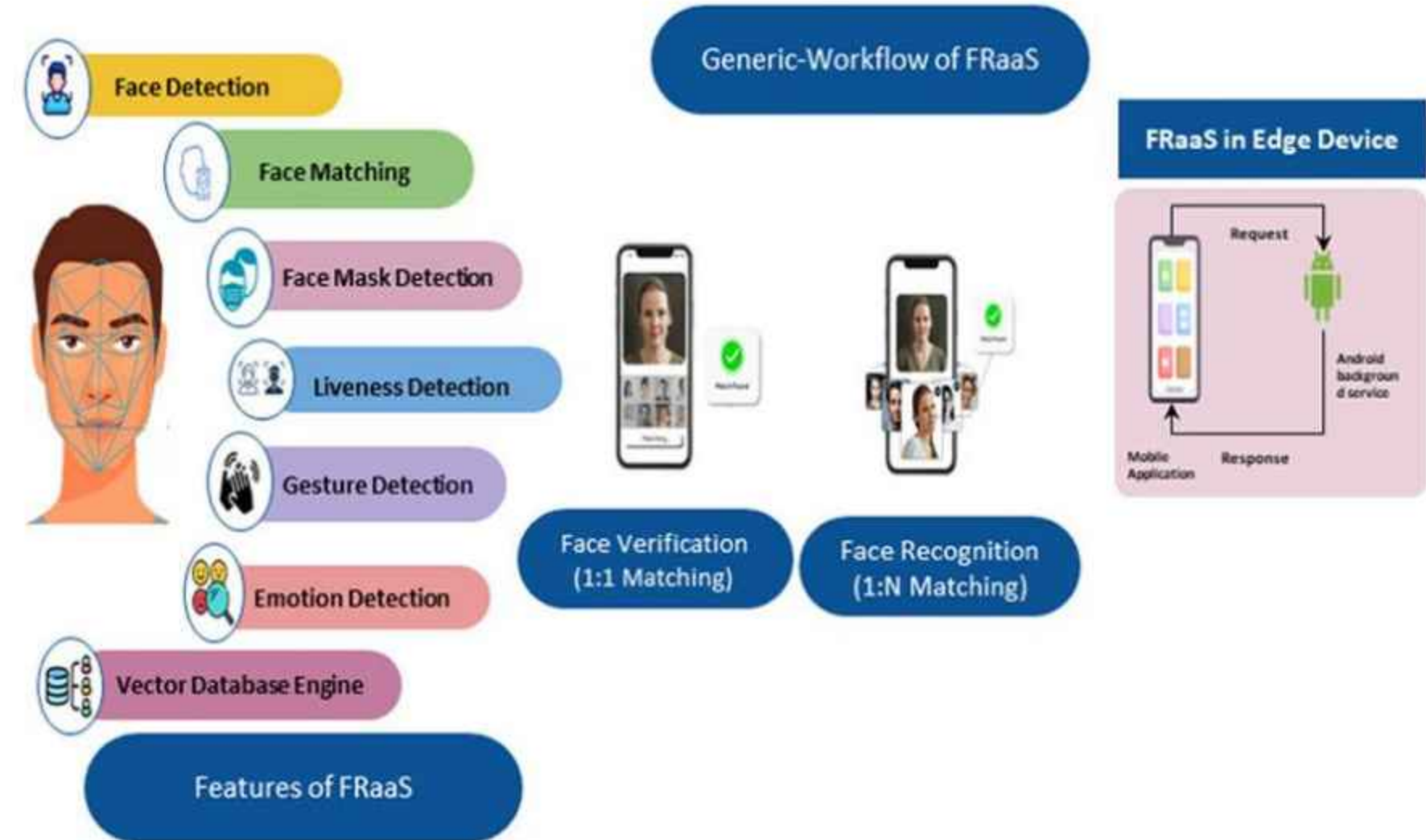
TECHNICAL STACK

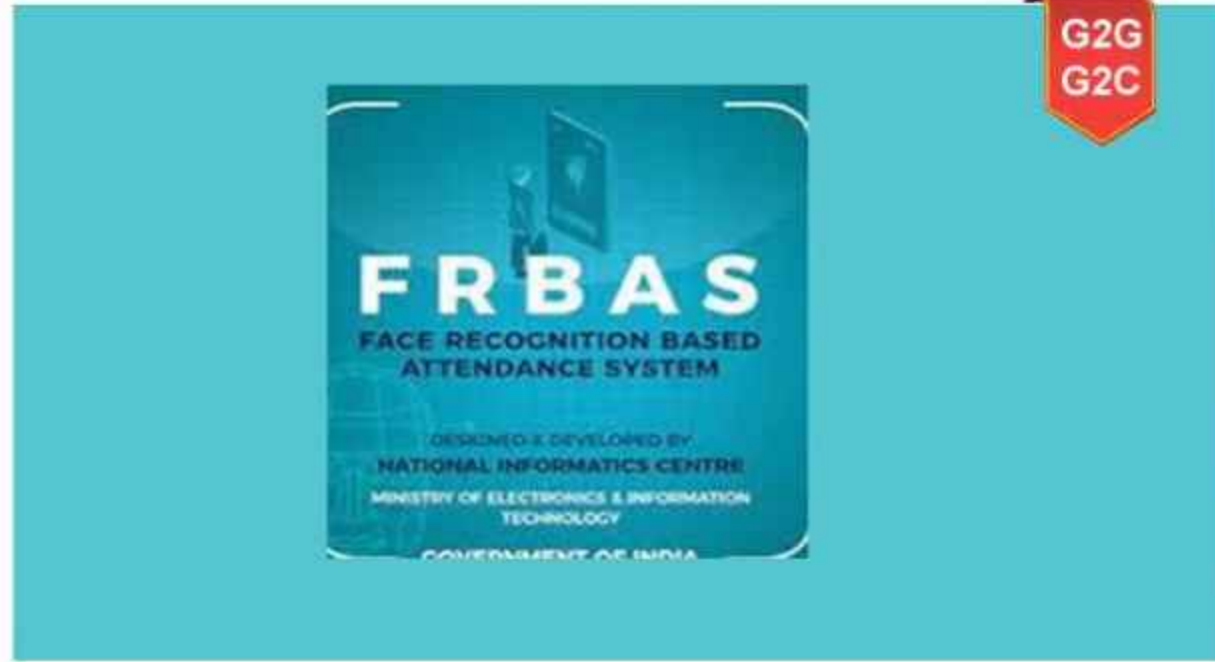
AI Inference: 2 × Tyrone Camarero SDI200C2G-424 (NVIDIA L4)
 Login: 2 × Tyrone Camarero SDI200A3N-212
 Orchestration: Kubernetes
 OS: Ubuntu 24.04.3 LTS

STATISTICS

Total Servers: 4 (2 Inference, 2 Login)
 Compute CPUs: 8 × Intel® Xeon® Platinum
 GPUs: 8 × NVIDIA L4
 Total Memory: ~2 TB RAM
 Inference Storage: ~44 TB usable

Project of CoE AI Lab, Kolkata Face Recognition as a Service





G2G
G2C



FRBAS - PBSSD FRBAS (offline) - Agristack

Technology Stack : Java, Android, PHP, Postgres, Python, Tensorflow, ONNX, Opencv, Torch

Facial Recognition Based Attendance System (FRBAS)

- FRBAS captures trainee and trainers' attendance through an AI-enabled mobile application. It is available in both online & offline mode.
- Currently operational in Utkarsh Bangla Programme of GoWB (10.32 Cr API hits recorded till date).
- Offline mode has been developed for Agristack project of Ministry of Agriculture in coordination with NIC Karnataka.



FRBAS - PBSSD



FRBAS - School (Proposed)



FRBAS (offline) - Agristack



FRBAS - Employee Attendance



FRBAS - Anganwadi (Proposed)



FRBAS - Punjab (Proposed)

3,58,649 Trainers and Trainees Registered

3401 Skill Development Training Centre On-boarded

11.36 crore API hit Generated for capturing Attendance since inception

1.03 crore API hit Generated for marking Attendance in December, 2025



FRBAS - UtkarshBangla (Technical Education Department)

G2G
G2C



FRBAS-PBSSD

Sl No	Trainee Code	Trainee Name	Group Attendance Time	Difference in Meter
1	[REDACTED]	[REDACTED]	2022-03-10 16:20:46.592102	20.287210190321
2	[REDACTED]	[REDACTED]	2022-03-10 16:20:46.676073	20.287210190321

Group Attendance



3,58,649 Trainers and Trainees Registered



3500 approx. Skill Development Training Centre On-boarded



14.58 crore API hit Generated for capturing Attendance since inception



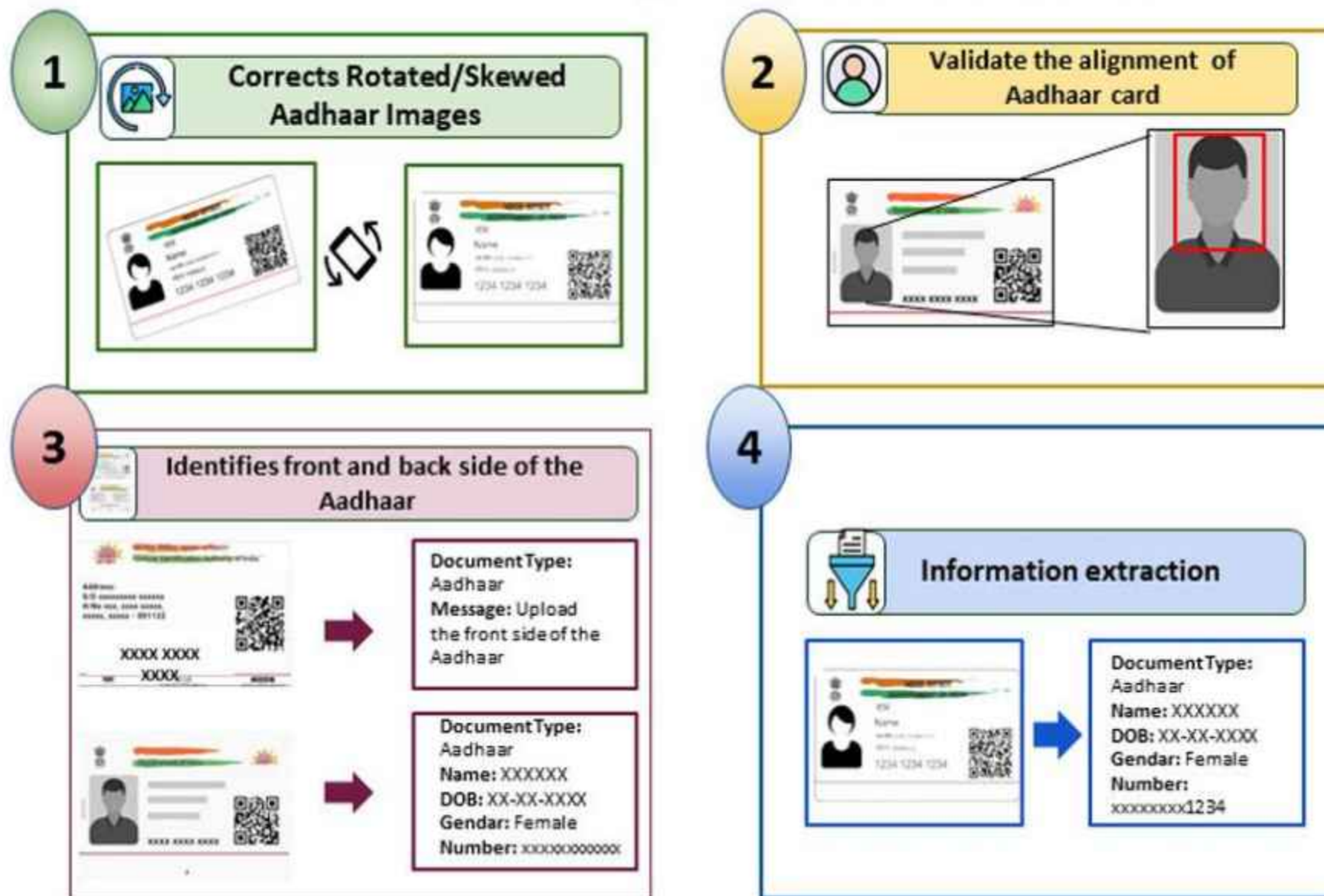
1.36 crore API hit Generated for marking Attendance in March, 2026

AI Abhigyan - AADHAAR

(Specialised Service for Information Extraction from Aadhaar Card)

G2G

Technology Stack : Python, Ultraletix, Paddle OCR 8, ONNX



1.37 Crore API hits recorded Since inception

90,359 API hits recorded in March, 2026



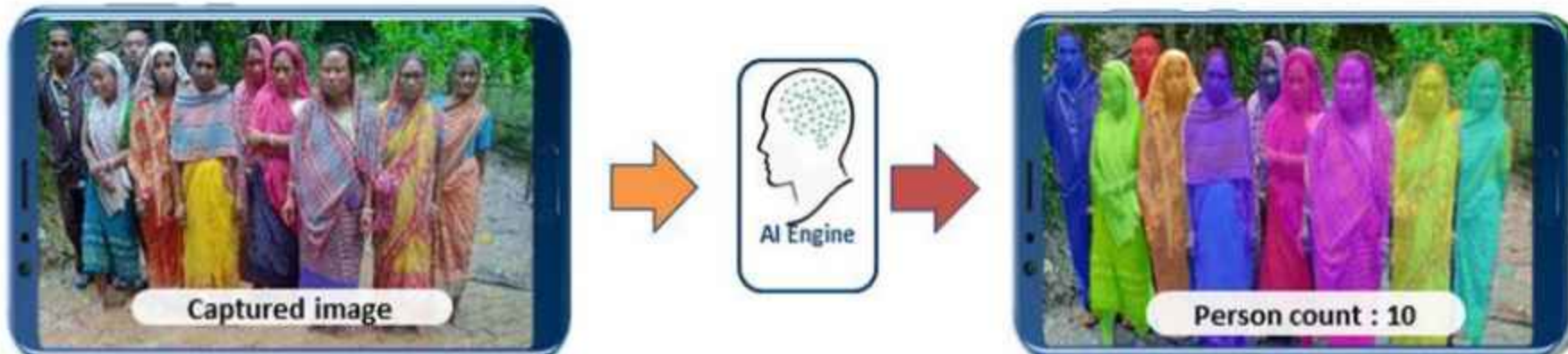
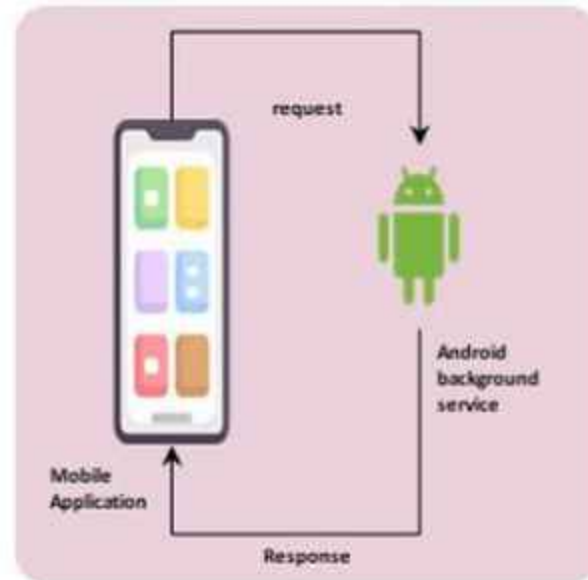
AI Shirshankh (AI-enabled Person Count Services of NIC)

G2G
G2C

Technology Stack : Java, Android, PHP, Postgres, Python, Tensorflow, ONNX, Opencv, Torch

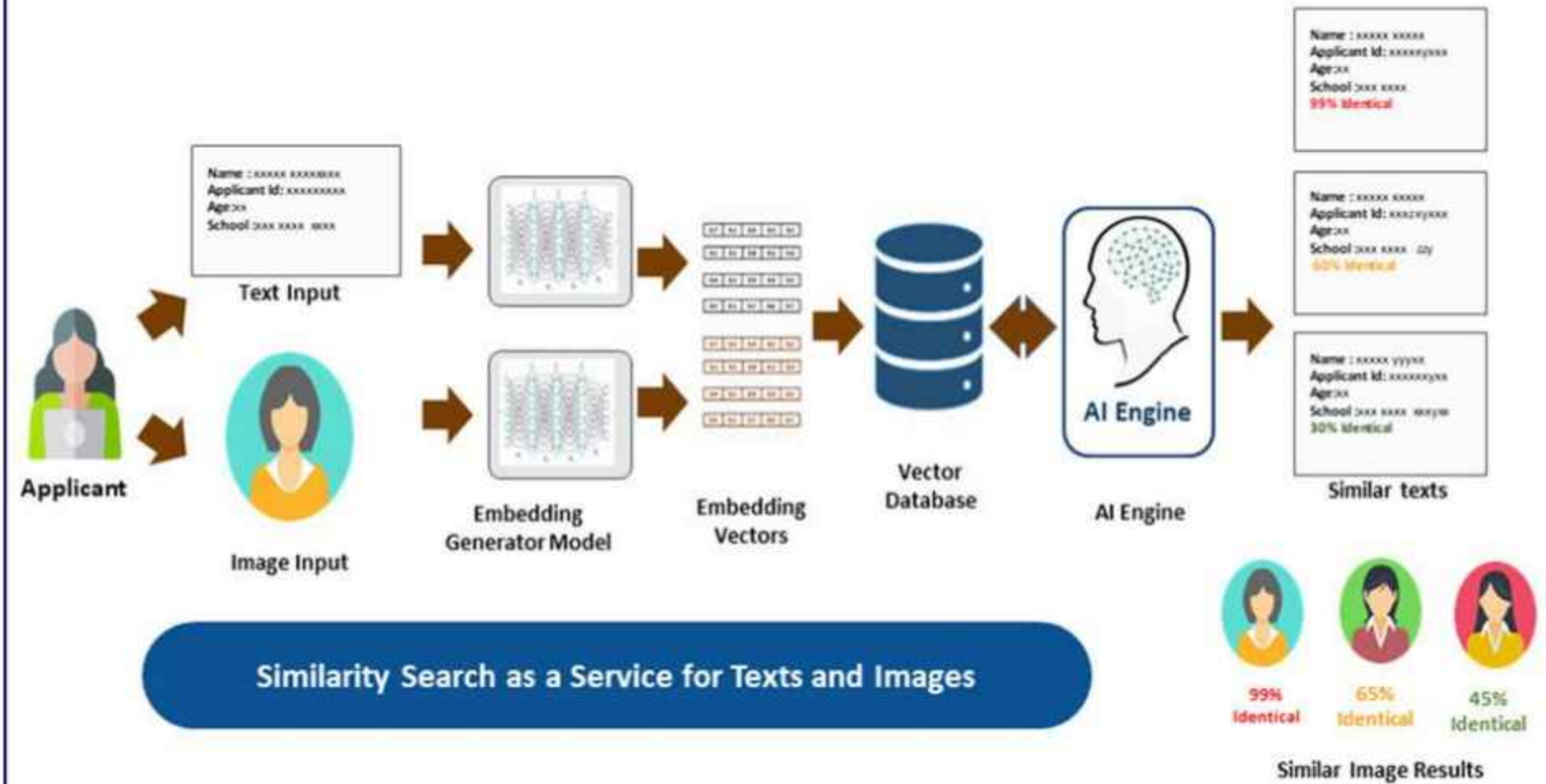
HIGHLIGHTS

Being implemented in NREGA Mobile Monitoring System (NMMS) under the MGNREGA Project, initiated by the Ministry of Rural Development in both online & offline mode.



AI-enabled Beneficiary De-duplication Service

G2G



Similarity Search as a Service for Texts and Images

Statistics since inception
 AI Transaction in Kanyashree – 3.27 Crore
 AI Transaction in Rupashree – 59 Lakhs

Statistics March, 2026
 AI Transaction in Kanyashree – 34,967



Technology Stack : Alma Linux 8.6(64 bit)/RHEL 9.5, PHP 8.0, Apache 2.4.53,PyTorch Container 22.03, Python 3.10, Docker 26.1.3, Android Oreo (Android 8.0) or higher, Android Studio

AI-enabled Services for NextGen Kanyashree Online 9.0

PRISM ID: 4652

URL : <https://wbkanyashree.gov.in>
<https://admin-kanyashree.wb.gov.in>

- NextGen Kanyashree Online 9.0 has been integrated with various AI/ML API services for following processes :
 - Image based de-duplication (3.24 Crores API hits recorded till date)
 - Text based de-duplication
 - AI Abhigyan integration
 - AI Sanlaap (integrated issue resolution system)
 - Automatic Reading of Bank Passbooks

Statistics: March, 2026

Enrolled Applications – 39,229
Sanctioned Applications – 24,771
Unique Beneficiaries – 11,112

Statistics: Since Inception (Oct 2013)

Enrolled Applications – 3.54 Crore
Sanctioned Applications – 3.49 Crore
Unique Beneficiaries – 98.75 Lakh



Technology Stack : Alma Linux 8.6(64 bit)/RHEL 9.5, PHP 8.0, Apache 2.4.53,PyTorch Container 22.03, Python 3.10, Docker 26.1.3, Android Oreo (Android 8.0) or higher,Android Studio

AI-enabled Services for NextGen Rupashree Online 3.0

PRISM ID: 4652

URL : <https://rupashree.wb.gov.in>

- NextGen Rupashree Online 3.0 has been integrated with following AI/ML based API services:
 - Image based de-duplication (58.9 lakh API hits recorded till date)
 - Text based de-duplication
 - AI Abhigyan integration
 - Automatic Reading of Bank Passbooks

Statistics since inception

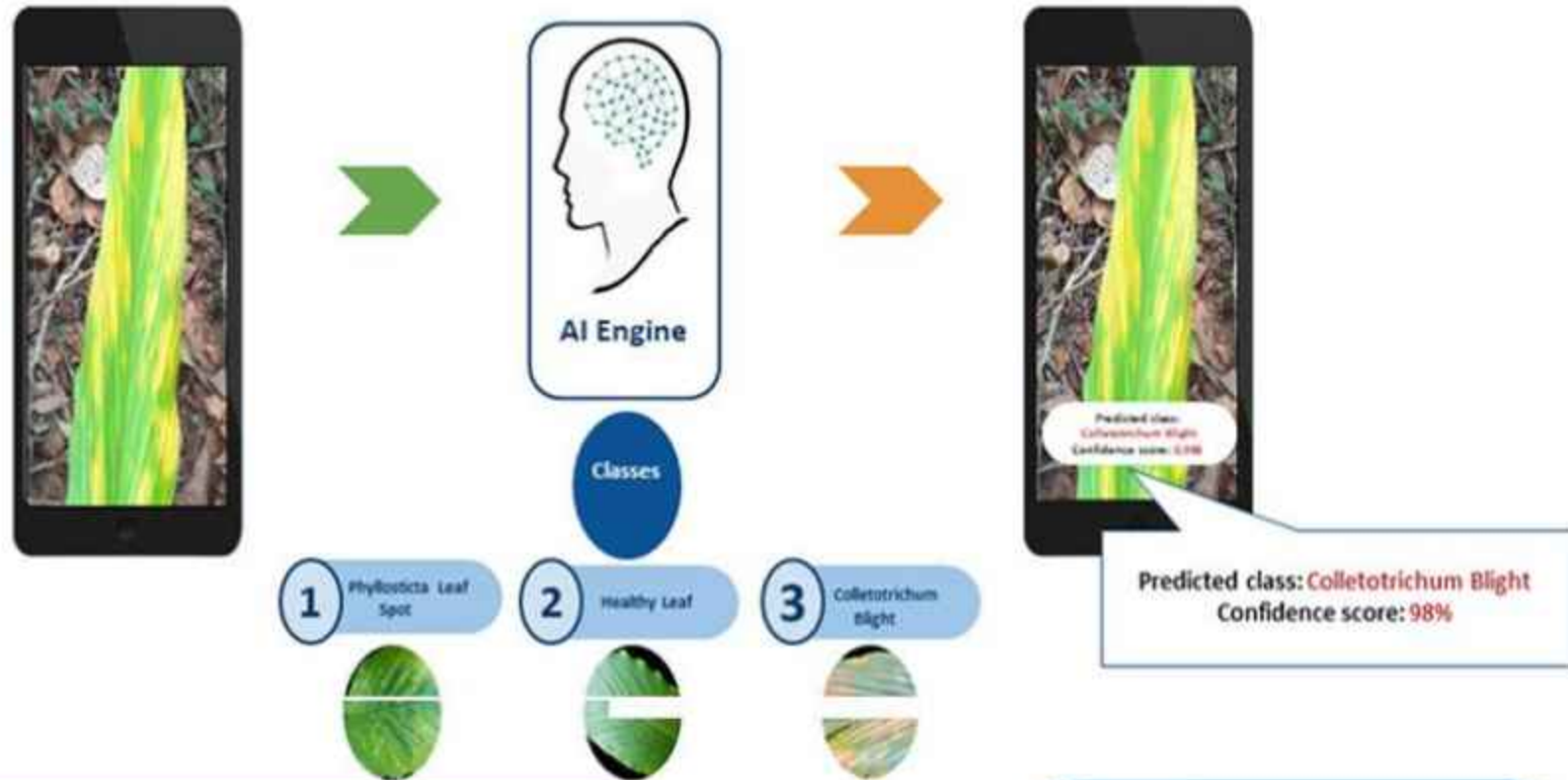
Covered District – 24
Covered Block/Municipality – 479
Total Beneficiary – 22,13,831
Beneficiary – 22,884 (March, 2026)



AI-enabled Cardamom Leaf Disease Classification

G2G
G2C

Technology Stack : Python, Ultraetix, YoloV8



MoU has been signed with Spices Board (Ministry of Commerce and Industry, Government of India) on 03/07/2024

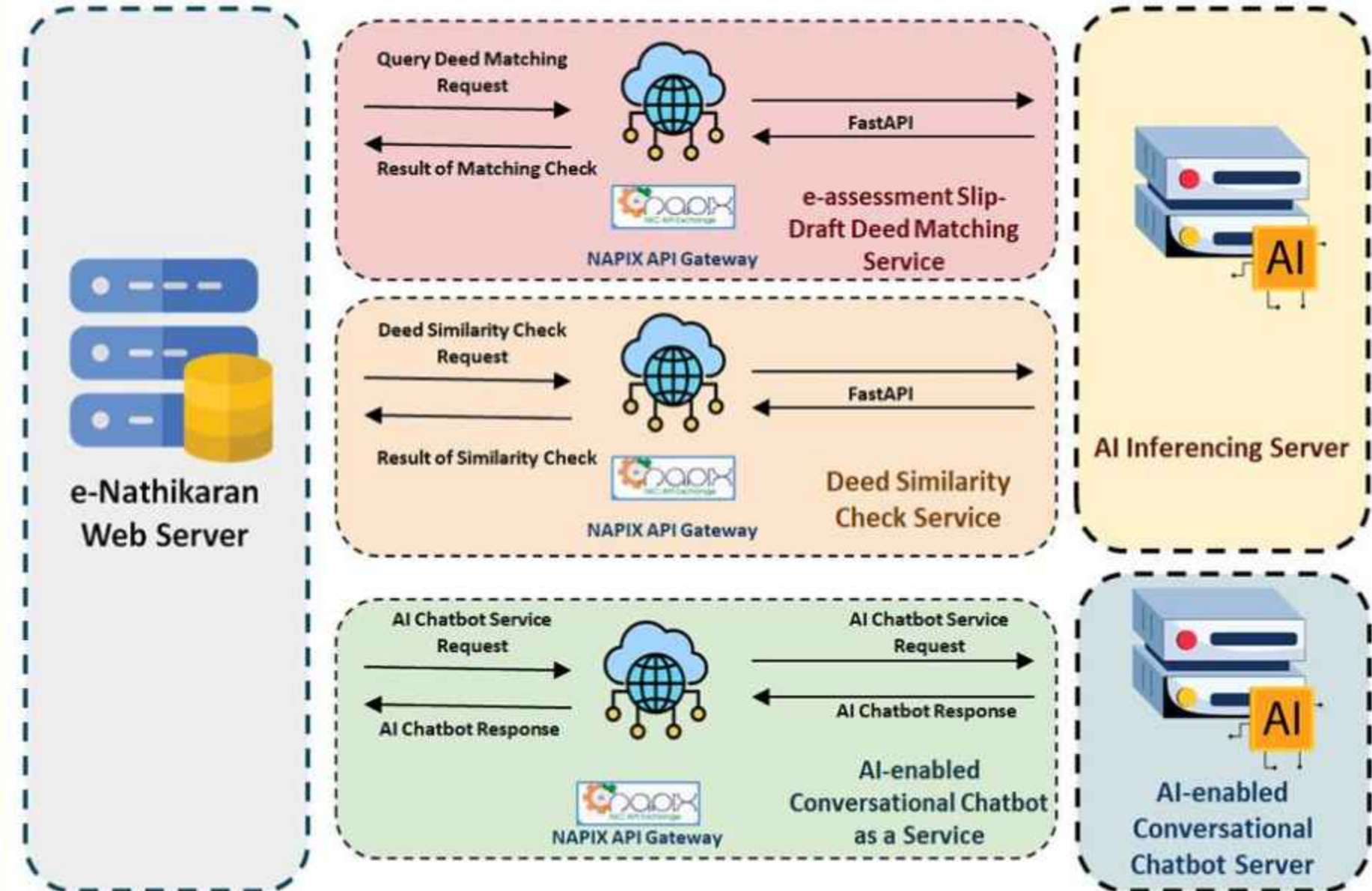
<https://wbgateway.nic.in/cardamom>

- An AI enabled System to detect and identify large cardamom leaf disease.
- An MoU has been signed between Spices Board of India, Indian Cardamom Research Institute (ICRI) and NIC West Bengal on 04/07/2024 for the identification and classification of large cardamom leaf diseases.

AI Services for e-Nathikaran

G2G
G2C

PRISM ID : 3792





AI Sanlaap

(Conversational AI-based Multimodal Multilingual Chatbot Framework of NIC)

G2G
G2C

Technology Stack : Python, Milvus Vector DB

Multilingual

- English
- Bengali
- Hindi

Multimodal

- Text to Speech
- Speech to Text
- Translation
- Transliteration

Hybrid Architecture

- Knowledge-base Based
- RAG Based
- Rule Based



- Customizable Knowledge Base (KB)
- Knowledge Base Creation using RAG
- Hybrid Answering system : RAG and KB
- Rule based customized chat features
- Statistical Report
- Feedback

Proposed to

WCD & SW EoDB
SRS DORSR

- An AI-enabled multilingual, multimodal conversational chat & voice bot with hybrid RAG and rule-based intelligence, designed to support citizens and departmental stakeholders.
- Customizable, configurable, and integrable with APIs, Knowledgebase (KB), workflows, and analytics. Developed with secure DevOps CI/CD pipeline.
- Implemented across major GoWB platforms, including Rupashree Portal (WCD), Ease of Doing Business Portal (MSME), Social Registry (Finance Dept.), and Integrated Issue Resolution System.

AI Anurup

(AI based Beneficiary Name Matching of NIC)

G2G

Technology Stack : Python, Levenhstein Distance & Cosine Similarity

Traditional Approaches

Common key, list-based, edit distance (e.g., Levenshtein)

No understanding of context or minor errors

Word Embedding

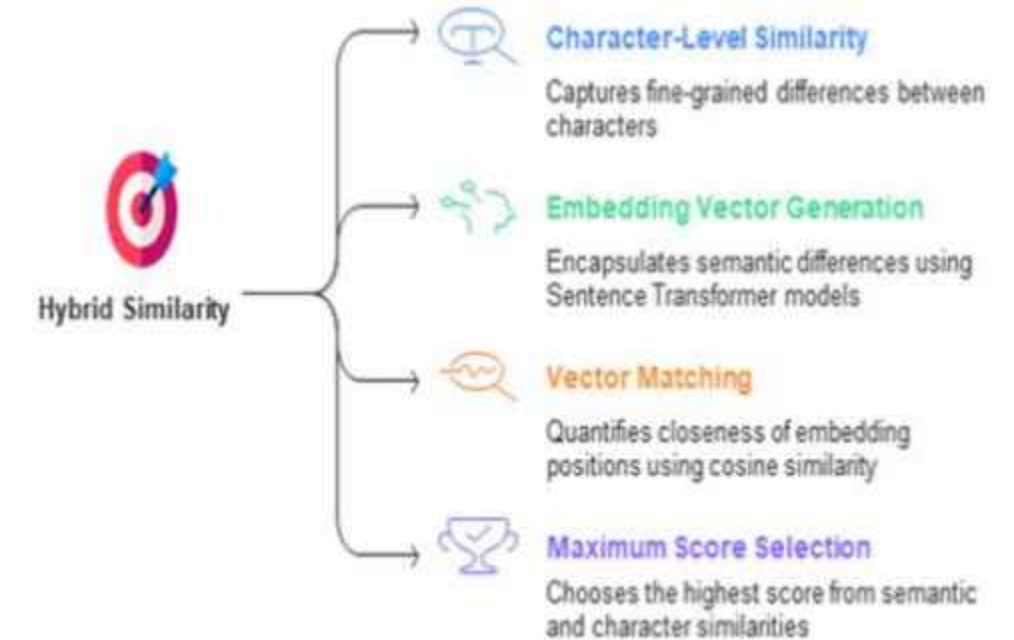
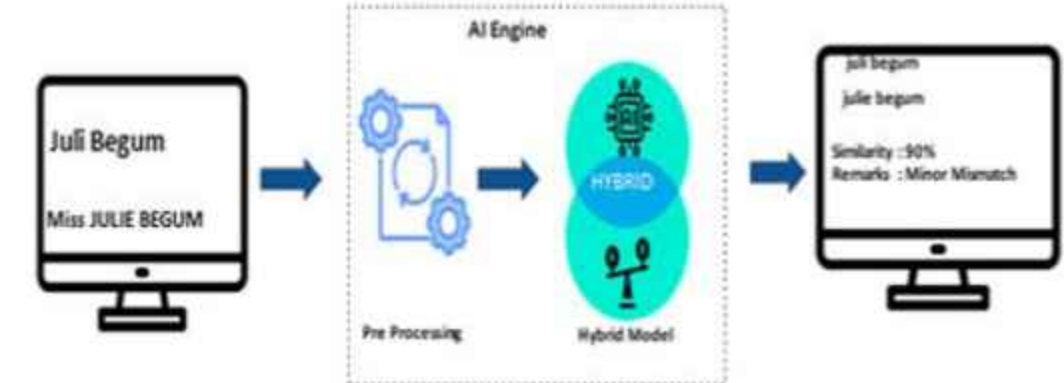
Numeric representation of names

Captures basic context

Transformer-Based Methods (LLMs)

Understands semantics, transliterations, and variants.

Robust to surface-level differences



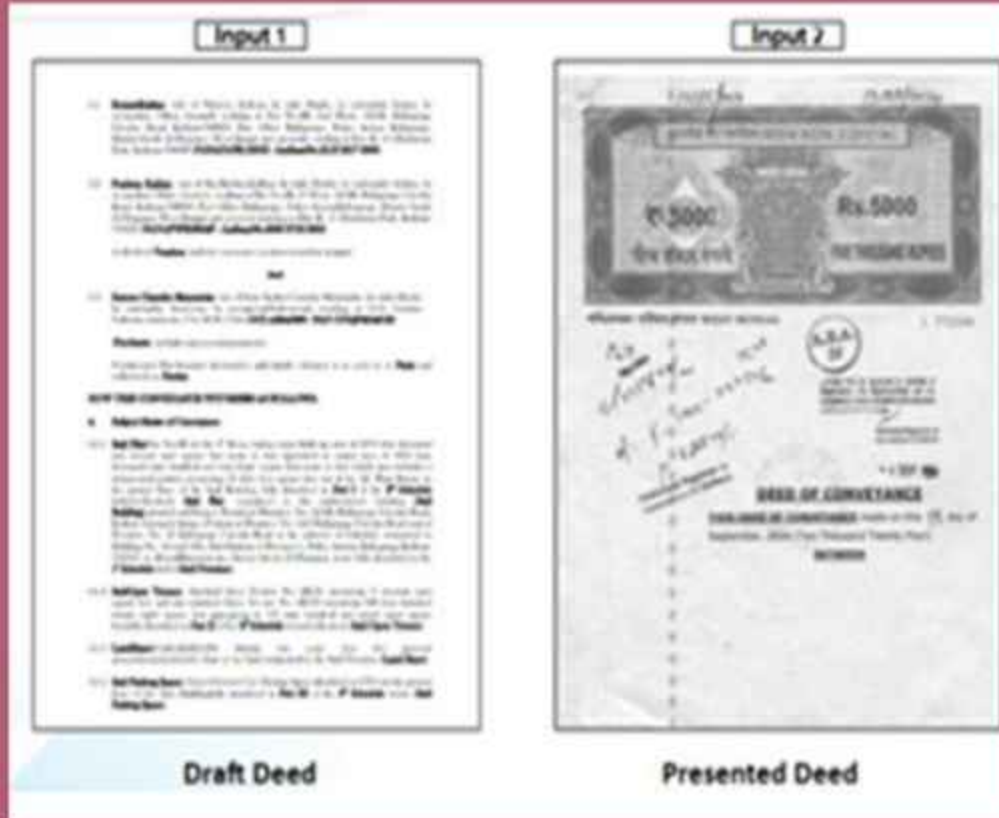
8,071 no of API hits recorded in March, 2026 (Being used for KP, RP, Lakshmir Bandar & Jai Bangla)

Proposed to KP RP

- An AI based name matching service to compare pair of names.
- The service has been developed by CoE AI Lab for comparing beneficiary names as stored in scheme portal and the name associated with the beneficiary bank account.
- AI Anurup has been implemented for name matching in Kanyashree, Rupashree, Lakshmir Bhandar, Jai Bangla Schemes of Department of WCD and SW, GoWB.

AI enabled Services for Property Registration

G2G



Technology Stack : Python, Langchan, Ollama, Faiss, Tesseract OCR

- Following AI-based Proof of Concepts and Services have been developed and implemented by CoE AI Lab for Directorate of Registration and Stamp Revenue (DoRSR) :
- AI-enabled eVerification system of Deeds
- AI-Enabled Deed Similarity Check
- AI Nibhrit (implemented)
- Conversational AI-based multilingual Chat & Voicebot

AI based Crop Image Anti-spoofing System

G2G
G2C



Technology Stack : Python, Kotlin , Huggingface transformer, Fast API

- Enables automatic detection of spoof image of a crop field in offline mode.
- The service has been developed to run as a background service in offline mode.
- It has been developed for Agristack project of Ministry of Agriculture in coordination with NIC Karnataka.



<https://serviceonline.gov.in>
<https://tathyasathi.bangla.gov.in>



HIGHLIGHT

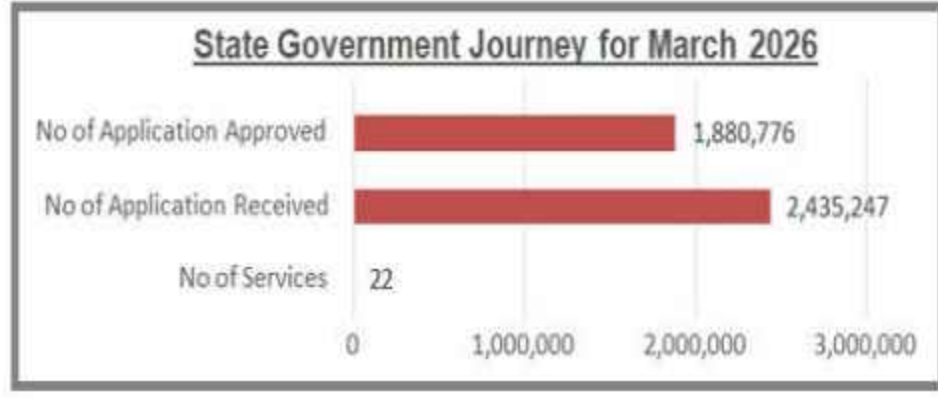
All-in-one citizen engagement platform, used by State Government and Tea Board of India in West Bengal

“Make all Government services accessible to the common man in his locality, through common service delivery outlets, and ensure efficiency, transparency, and reliability of such services at affordable costs to realize the basic needs of the common man”

- **Regulatory Approval Services** : The services like Issuance of Electricity Permission, festival permission, idol immersion are given to the citizens.
- **E-Governance Services** : Around 40 no of e-governances including DBT are being delivered for various schemes of Tea Board of India.
- **Issuance of Certificates Services** : Various certificates like income certificate, Residential Certificate, legal heir certificates etc being generated for Govt of West Bengal.



Features
 Powerful in-built tools enable rapid design, easy configuration, security compliance & roll out of services



Technology Stack : Java, PostgreSQL, Java Script



Technology Stack : Code Igniter 3, PHP 7.4, Apache2.4, PostgreSQL 13

Comprehensive Portal for Department of Women & Child Development and Social Welfare

URL : <https://wcdsw.wb.gov.in>

- Fully customized content management system
- The user interface and navigation is easy to understand, simple and mobile friendly.
- Responsive Web Design

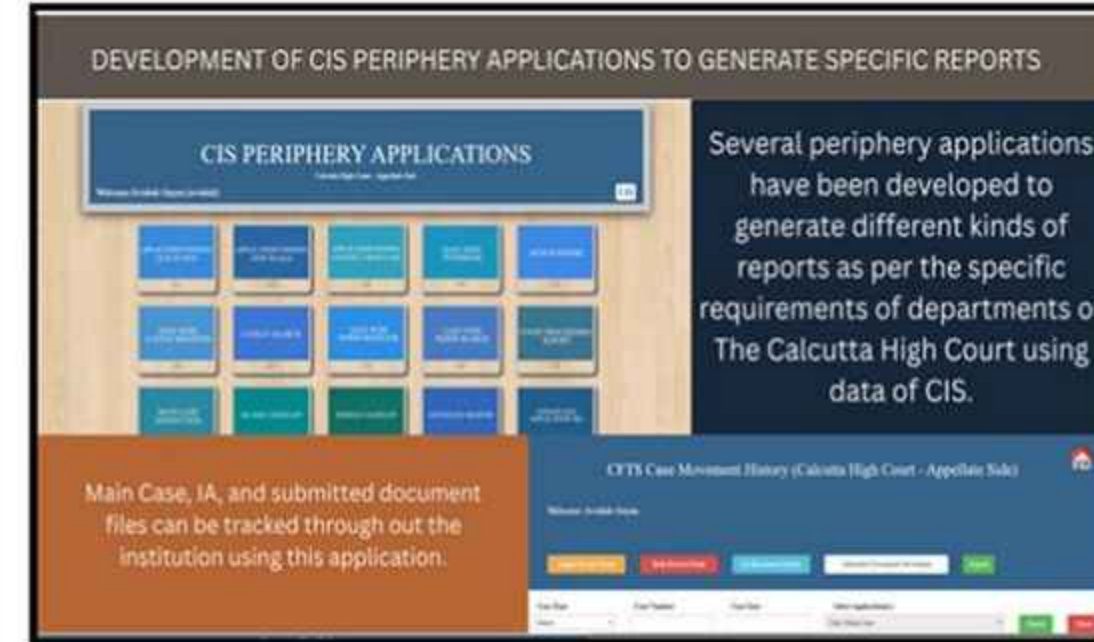
IT initiatives at Calcutta High Court



Calcutta High Court Website
(<https://calcuttahighcourt.gov.in>)



Display board of Calcutta High Court
(<https://display.calcuttahighcourt.gov.in>)

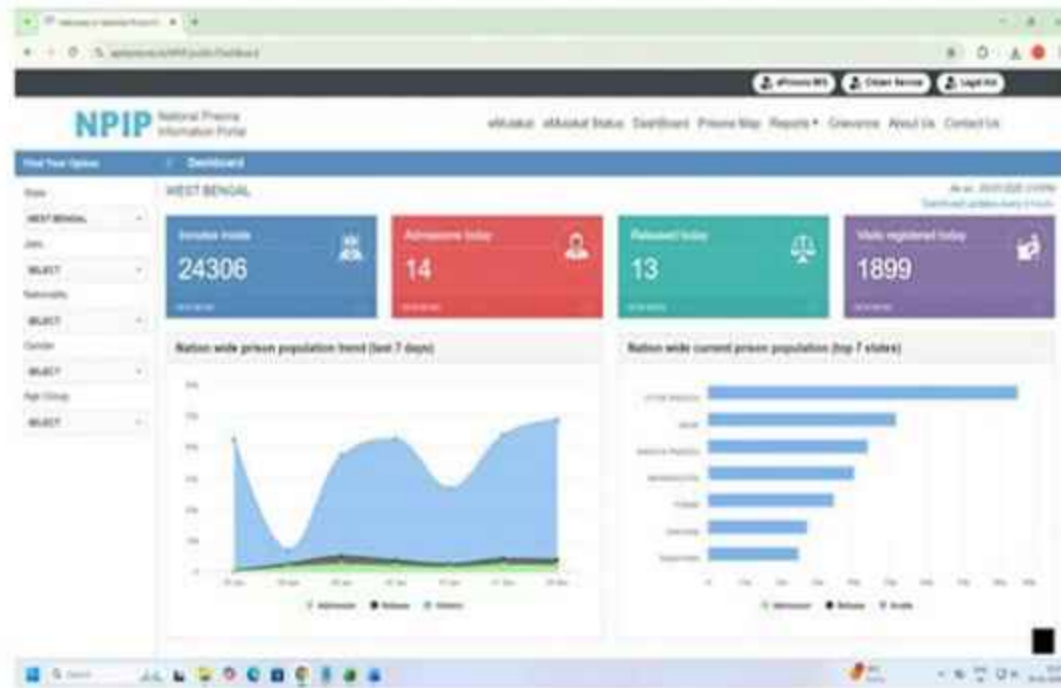


Periphery applications based upon CIS at Calcutta High Court



e-Prison

G2G
G2C



<https://eprisons.nic.in/>

- In December, total number of Prisoners registrations done in ePrison are 18,361 where number of convicted are 839, Under Trial are 16771, casual prisoner is 1, released prisoner are 91, opposite party are 659 under prisoner management system.
- Total 41176 number of visitors registration are done under visitor management system

This portal is designed to enhance efficiency in the management of prisons. It Provides centralized repository of information related related prison administration, Inmate Welfare, inmate search, prison statistics, ePrison service which allow visitors to register themselves and book an appointment to see an inmate and many more. By leveraging technology the Prison Portal aims to promote accountability, improve inmate care and support effective rehabilitation in the Indian Prison System.

eProsecution

G2G



<https://eprosecution.gov.in/eprosecution/>

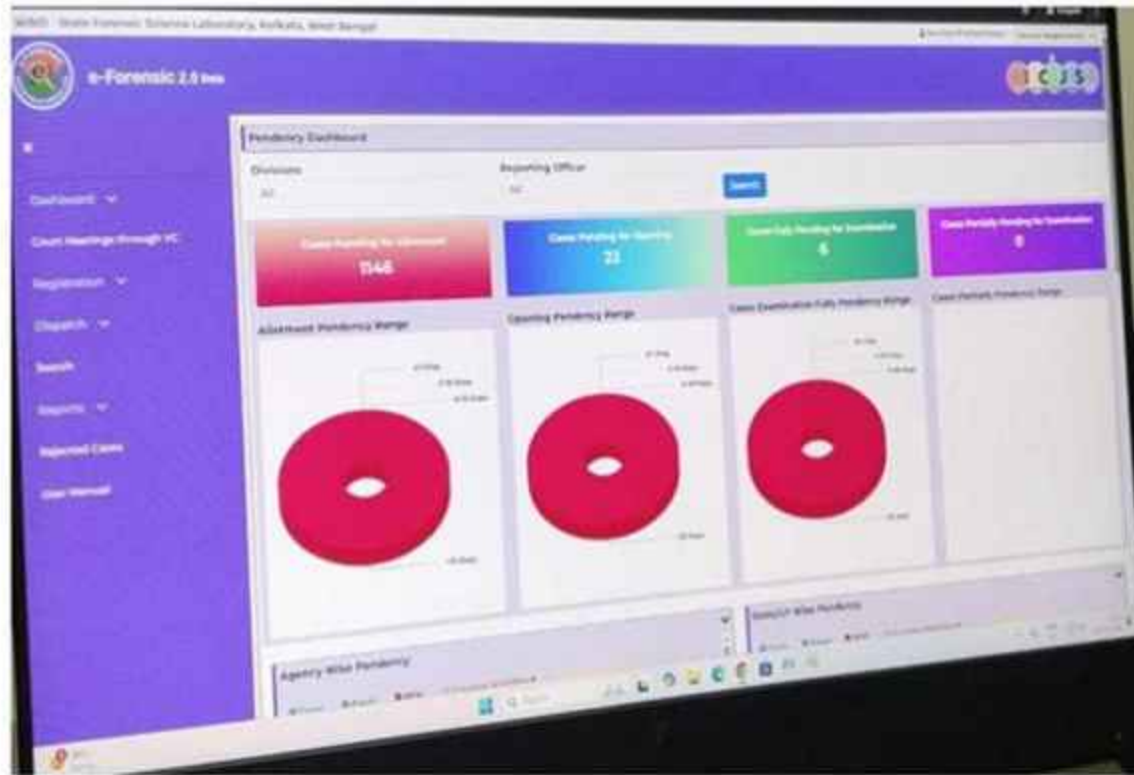
- In December, Number Of Legal opinion are issued – 2413
- Number of Draft Charge Sheet- 1225
- Number of case registration- 113
- Number of case Disposal- 4
- Number of DUTR Entry-191

• e-Prosecution application is a platform which provides electronic communication between Police department and Prosecution department. Platform enables police dept. users to request to prosecution dept. users for legal opinion on various types of cases and scrutiny against the draft charge sheet.

• The main objective of the application is to create a platform which makes the communication speedy and transparent between the Prosecutors and Police Officers. Since, the project has been developed under ICJS system it is integrated with CCTNS (FIR Data) and e-Courts systems (CNR Data).

e-FSL

G2G



The objective of this portal is to automate the complete work flow of forensics Labs from registration to dispatch of reports. Data and report sharing with other pillars like police and courts, Provides statistical and status information about the registration, report readiness and dispatch of reports

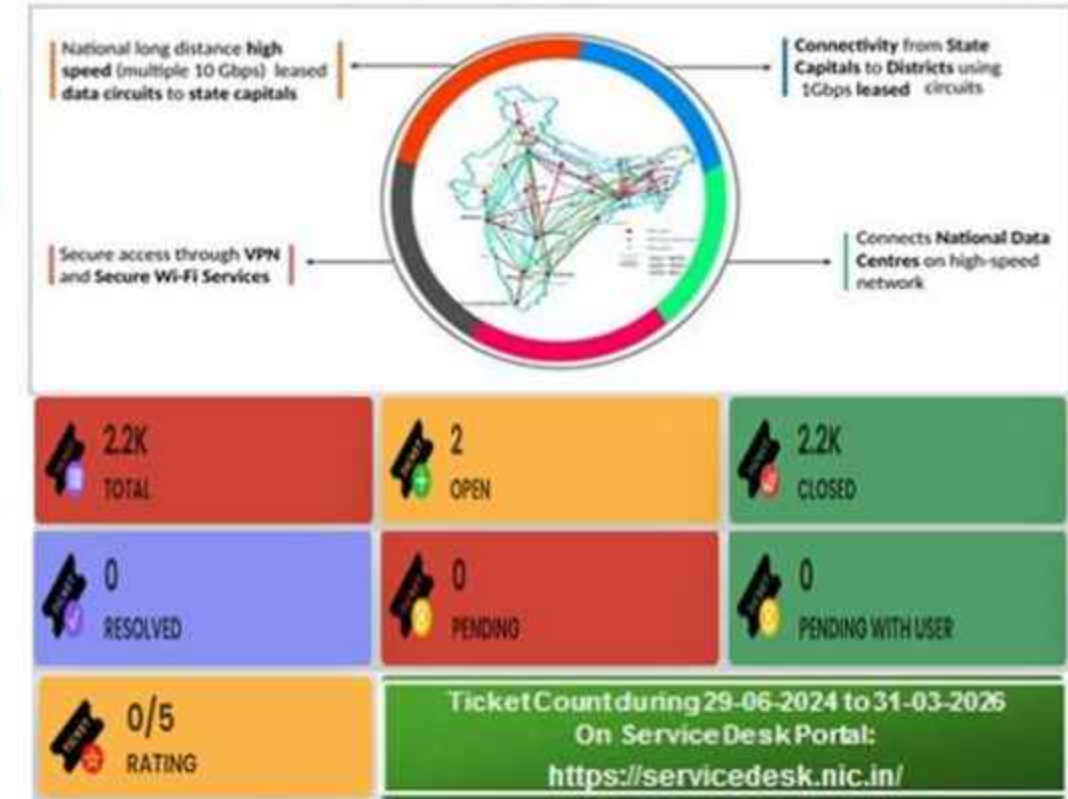
<https://eforensics.gov.in/fslall/>

In December, 1 case has been registered in the portal

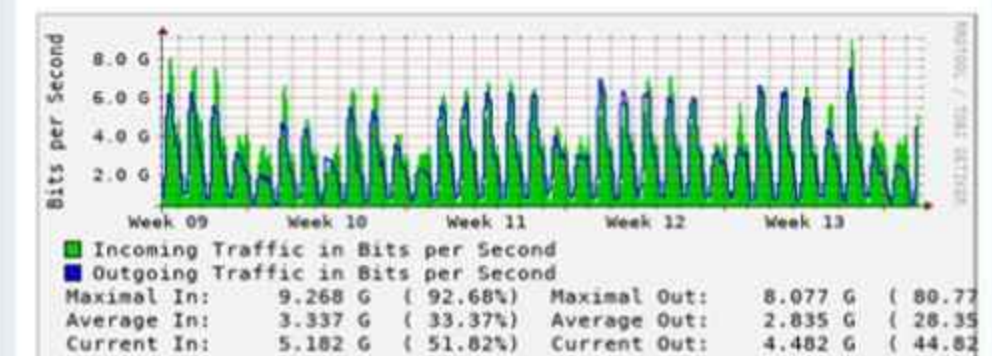
PROJECT NAME	PRISM ID	PROJECT URL	G2G
NICNET (Internet & Intranet Backbone for Government Machinery)		https://www.nic.in/service/nicnet	

HIGHLIGHTS

The National Informatics Centre (NIC) has established a robust Information and Communication Technology (ICT) network known as NICNET, which connects all Central and State Government Ministries, Departments, Union Territories, and District administrations across India. NICNET has played a key role in driving e-Governance across multiple levels of government, improving transparency, efficiency, and accountability. In West Bengal, NICNET has been operational since 2003, connecting over 325 government offices and serving as the primary backbone for data sharing within the state government. The network also facilitates fast access to various services through peering with BSNL, PGCIL, Railtel, and international content delivery networks like Google, Microsoft, and Akamai



'Monthly' graph (2 Hour Average)





Central Project

PROJECT NAME	PRISM ID	PROJECT URL
Video Conferencing Services (PRAGATI)		URL: https://reserve.nic.in

PROJECT NAME	PRISM ID	PROJECT URL
National Knowledge Network (NKN)		URL: https://nkn.gov.in

HIGHLIGHTS

NIC West Bengal Video Conferencing facility plays a vital role in supporting the hierarchical departments of the Government of West Bengal i.e. Governor, Chief Minister Office, Chief Secretary Office, Council of Ministers, Departments, Secretariat, Directorate, District Administration, Co-District Commissioner Office, Block and Panchayat Level.

In December'2025, total 65 No. of VCs has been conducted where 288 sites participated with 436 studio hours

Out of 65 VCs, we have conducted 44 VCs on Bharat VC platform where 1160 participants joined through link.

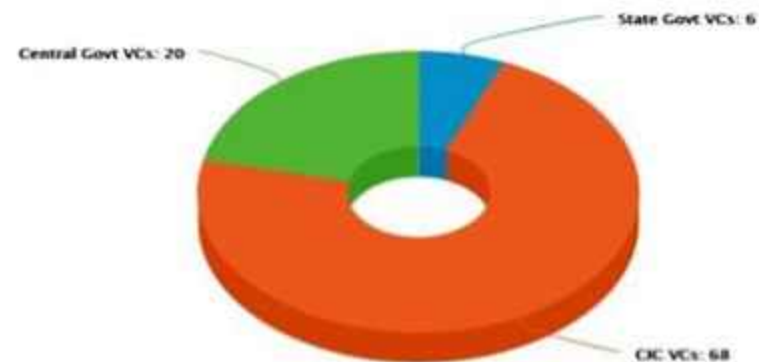
Additionally, Prime Minister 01 VC, Cabinet Secretary 01 VC, Chief Secretary 01 VC, Govt. of India 19 VCs, Election Commission 36 VCs has been conducted successfully.



Summary

	No of VC meetings	Studio hours	Site Participated
VC meetings of State Govt.	6	223	105
VC meetings of Central Govt.	20	467	123
VC meetings of CIC	68	16	78
Total	94	707	306

Total VC Meetings of West Bengal



HIGHLIGHTS

The National Knowledge Network (NKN) project is designed to create a secure and reliable high-speed network across India, connecting universities, research institutions, and healthcare and agricultural institutions. In West Bengal, NKN has been operational since 2010, linking 91 premier educational and research organizations, including IIT Kharagpur and AIIMS Kalyani, IIM Kolkata ,VECC, SINP, ISI to facilitate knowledge sharing, collaborative research, and advanced distance education. NKN Kolkata has maintained zero central downtime since its inception, and it connects to other states via 21 core links with 10/2.5 Gbps bandwidth.

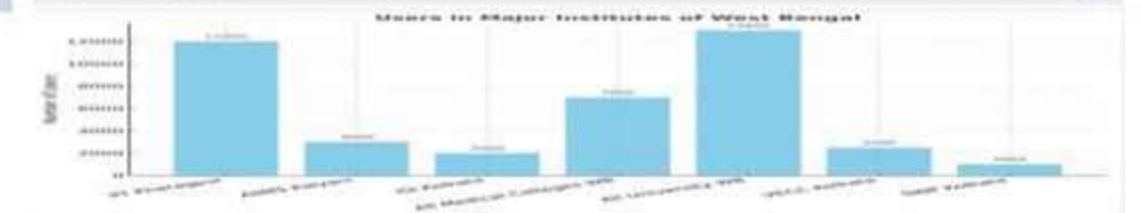
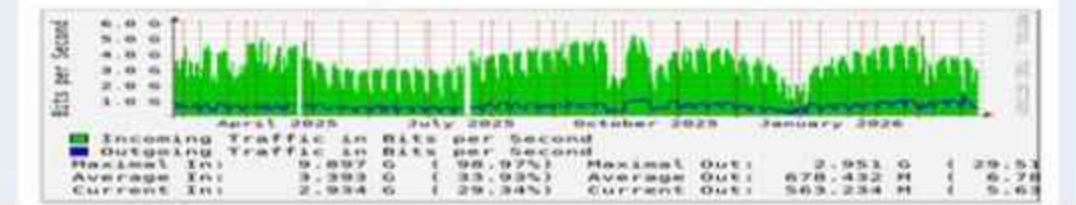
State-of-the-Art NKN Central Super Core PoP at West Bengal with a total 187.5 Gbps backbone bandwidth with High Availability (HA) and ISO Compliant infrastructure backed up by proper power backup.



'Monthly' graph (2 Hour Average)



'Yearly' graph (1 Day Average)



e-COURTS

Objective

- To develop, install and implement decision support system in courts
- To automate judicial processes to provide transparency in accessibility of information to its stakeholders
- To enhance judicial productivity both qualitatively and quantitatively
- To make justice delivery system affordable, accessible, cost effective, predictable, reliable and transparent
- To make policy for managing caseloads for effective court management and case load management.
- To provide interoperability and compatibility with systems like Interoperable Criminal Justice System.
- Installation of video conferencing facility and recording of witness through VC
- Connecting all courts in the country to National Judicial Data Grid (NJDG)
- Providing citizen-centric services through various platforms for service delivery such etc. as web portal, Mobile App, judicial service center, kiosks, SMS, automated emails.



District Courts at a glance



Court Complexes:

92



Cases in DB (pending & disposed): **10340083**



Court Establishments:

277



Orders: **15072638**

• Till 06th April. 2026 morning

High Court at Calcutta

Bench	Institution (in Mar. 2026)	Disposal (in Mar. 2026)
Principal Bench , Original Side	408	322
Principal Bench , Appellate Side	2499	3973
Circuit Bench at Jalpaiguri	430	703
Circuit Bench at Port Blair	126	125

E-filing count (as on 31st March, 2026): 297 Main Cases & 721 Applications

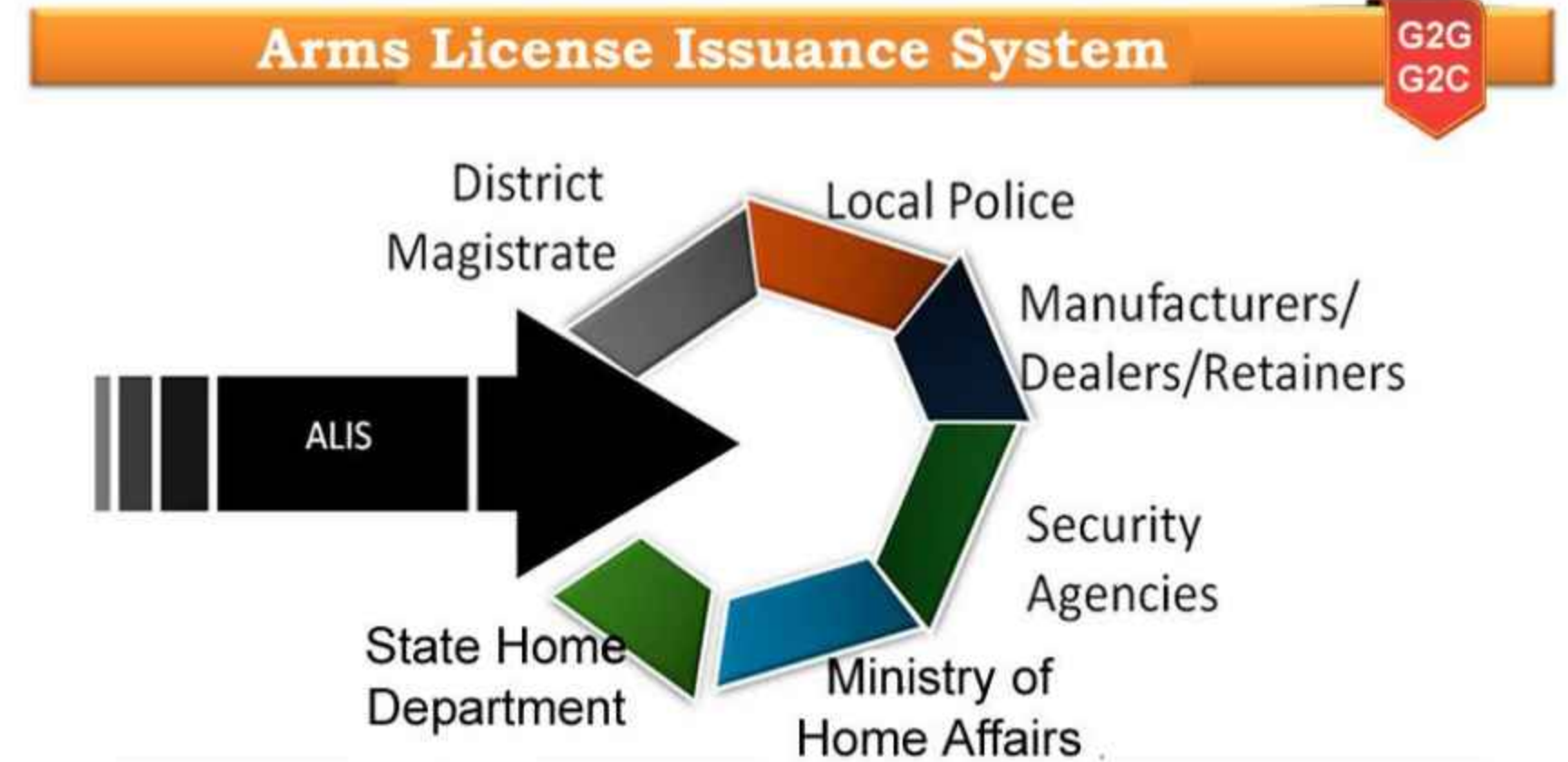
(Hon'ble High Court at Calcutta)

**G2G
G2C**

Online Indian Citizenship



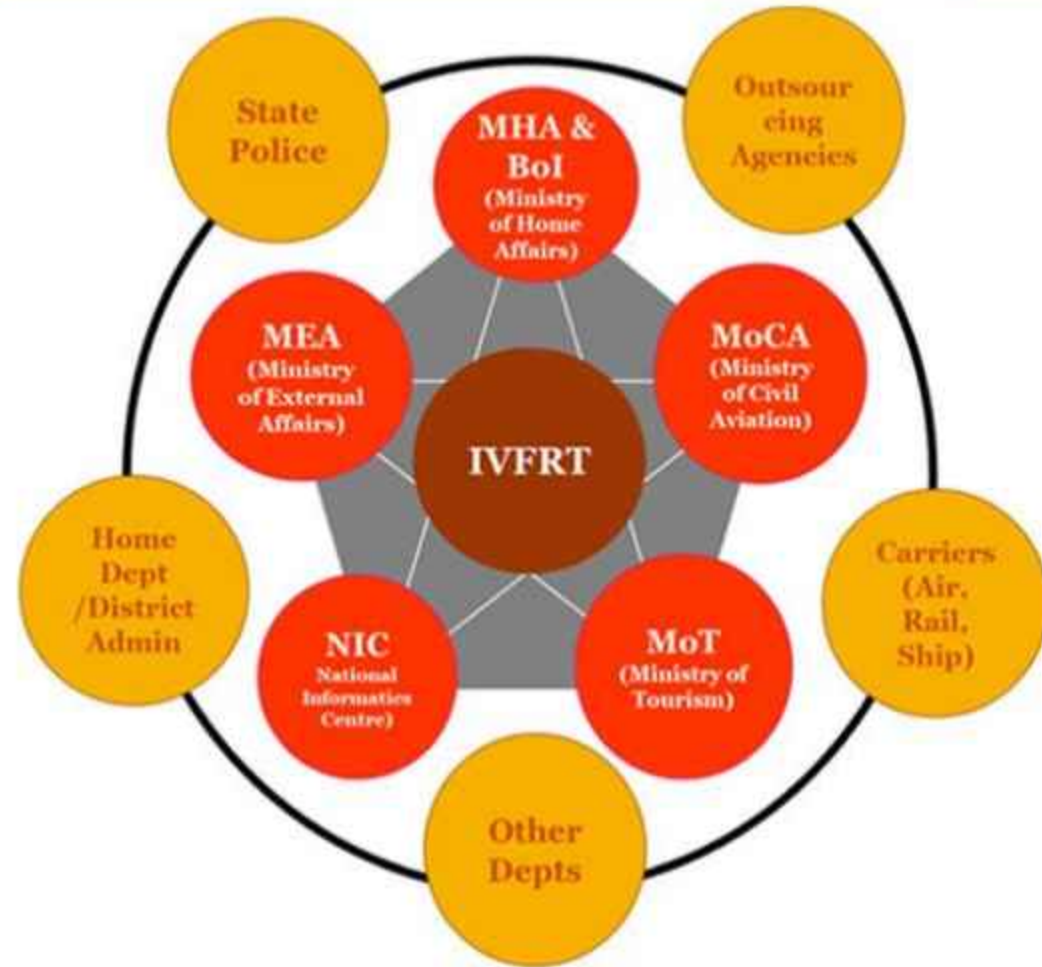
- The Constitution of India provides for single citizenship for the entire country.
- The Citizenship Act, 1955 provides acquisition, renunciation, termination, deprivation and determination of Indian citizenship.
- Acquisition of Indian Citizenship under The Indian Citizenship Act, 1955 can be done by:
 - ✓ Citizenship By Birth
 - ✓ Citizenship By Descent
 - ✓ Citizenship by Naturalization
 - ✓ Citizenship by Registration



ALIS			
TOTAL APPLICATION	60380	TOTAL PROCESSED APPLICATIONS	58932
↓			
NEW ARMS LICENSE			
TOTAL APPLICATION	5899	TOTAL PROCESSED APPLICATIONS	5242
↓			
RENEWAL OF ARMS LICENSE			
TOTAL APPLICATION	30323	TOTAL PROCESSED APPLICATIONS	29835
↓			
CANCELLATION/SUSPENSION/REVOCAION OF ARM'S LICENSE			
TOTAL APPLICATION	2930	TOTAL PROCESSED APPLICATIONS	2900

IVFRT

Immigration,
VISA,
Foreigner's
Registration
and Tracking



- COMPONENTS**
- Centralized Visa System
 - Immigration Control System
 - Foreigners Registration Tracking
 - C Forms
 - S Forms
 - Blacklist(BL)
 - Prior Reference Checks (PRC)
 - Unique Case File (UCF)
 - Look Out Circular (LOC)
 - Deportee Management
 - District Police Module (DPM)
 - Overseas Citizenship of India (OCI)
 - Advance Passenger Profiling system (APIS)
 - E Gates
 - Foreigner's Identification Portal (FIP)

“Implementation of secure & integrated service delivery framework that facilitates legitimate traveler while strengthening security”



- Centralized uniform platform across all Indian Missions for Visa application by Foreigners.
- Strengthen the immigration service across all the Immigration Check Posts (ICPs) with real-time access of traveler's data.
- Uniform platform for providing Immigration services to foreigners staying in the country. (Visa extension/conversion/exit etc..)
- Traveller's profiling and Data analysis.

West Bengal ICP Statistics At A Glance

West Bengal has highest number of ICPs in India	16	Haridaspur – the biggest Land ICP of India has highest no of daily PAX	7000+	All types of ICPs are present in West Bengal (Air, Land, Rail and Sea)	4	E Gates facility operational for arrival and departure	8
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Port Operation Management System (Kolkata Dock System, Shyama Prasad Mookerjee Port)

National Port Project developed in West Bengal

Highlights: (Prism Id:20880) : <https://kdseodb.smpportkolkata.in>

Port Operations Management System (POMS) was developed in 2007 and implemented in 2010 for Syama Prasad Mookerjee Port, Kolkata (Kolkata Dock System). It has continuously supported port operations, including during COVID-19. With evolving technologies and business needs, it is planned for a NextGen upgrade aligned with Government of India's ONOP initiatives to enhance efficiency, transparency, service delivery, and support future port growth.

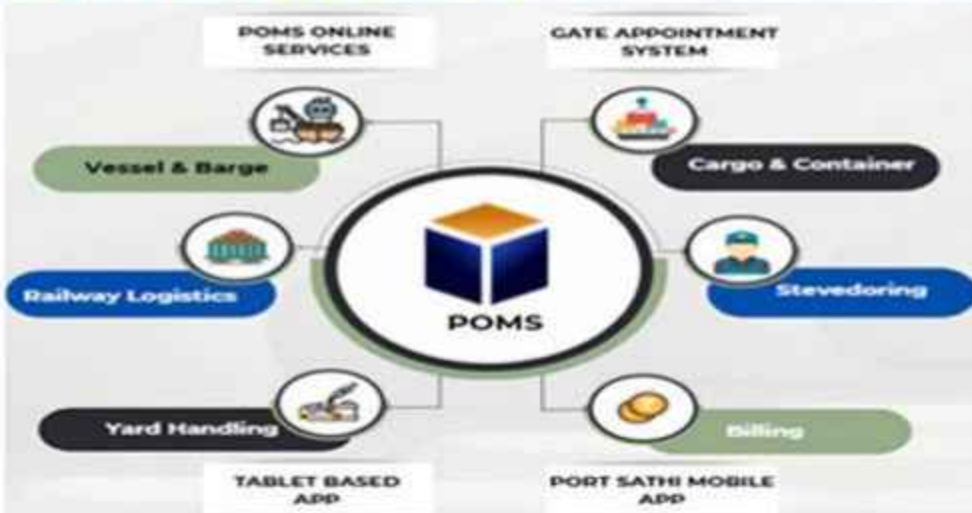
Integrations

- LDB
- IPA-NLP Marine
- Pre-Gate
- RFID
- GST-IRN
- WeighBridge

Key Features:

- Covers Port Operational & Billing
- Role-Based User Access
- Email Bulletin Service for Business Data
- POMS EoDB Portal for Stakeholders
- End-to-End Process Management

Key Functionalities:



Technology Stack:



Port Operations Management System

POMS

Online Application for Port Business at Kolkata Dock System

- operational volumes**
Operated 23K Vessels 51K Rakes, 51.5 Lac Vehicles.
- consignments**
Managed 31 Lac Consignments & 89.5 Lac Containers
- transactions**
Generated 157 Lac messages & 35.3 Lac Tax Invoices.
- Coverage**
Covers Port Operations & Billing activities
- Span**
30 Modules with 700 UI and 1500 reports
- Online Access**
Port Sathi Mobile App & email Bulletin services
- Long legacy**
Running successfully since 2010 at Kolkata port

Recent Activities:

- System Migration & Data Reporting:** Completed migration reports (TCN→GPN, TCG→GPG, TCO→GPO) and compiled NTRS Customs data; prepared monthly MHC and Non-MHC reports.
- Container & Cargo Tracking (Middle East):** Shared details of Middle East containers currently in port and those that have exited.
- Billing, Levy & Financial Enhancements:** Deployed barge blocking in production; enabled container scanning and levy charges, including CUIDL, in the billing system.
- System & Script Enhancements:** Prepared master sequence script for 1 April 2026; POMS Online revamp underway.
- Policy & Compliance Initiatives:** CRC and No Demand Certificate studies in progress; proposed short-term tonnage area application in the Plot Module.
- GIS & Plot Online Digitization:** Completed GIS implementation for Plot Online using yard KML files; shed mapping in progress.
- Integration & ONOP Initiative:** APSEZ-SMPK API: 4 inbound & 8 outbound messages deployed. CPL-POMS integration: 7 inbound & 6 outbound messages live on. One Nation One Port (ONOP) initiative ready for TAB deployment

Usage Statistics:

Operational Statistics	January 2026	February 2026	FY: 2025-26
Vessel	117	98	1012
Rake	278	256	3136
Vehicle	32881	31310	327214
Container	58669	50884	589527
Consignment	14414	14320	166785
Sagar Setu Messages	134380	122938	1388808
Invoice Count	16263	14981	174267

<https://kdseodb.smpportkolkata.in>

Statistics as on: March 2026

Enterprise Business Application System (Haldia Dock Complex, Shyama Prasad Mookerjee Port)

National Port Project developed in West Bengal

Highlights: (Prism Id:20883) : <https://kdseodb.smporkolkata.in>

Developed by NIC/NICSI and implemented in 2003, EBAS at Haldia Port supports key operational and functional divisions. Continuously upgraded, it is now planned for a NextGen overhaul aligned with Government of India's ONOP initiatives to boost efficiency, integration, and future growth through modern technology and streamlined processes.

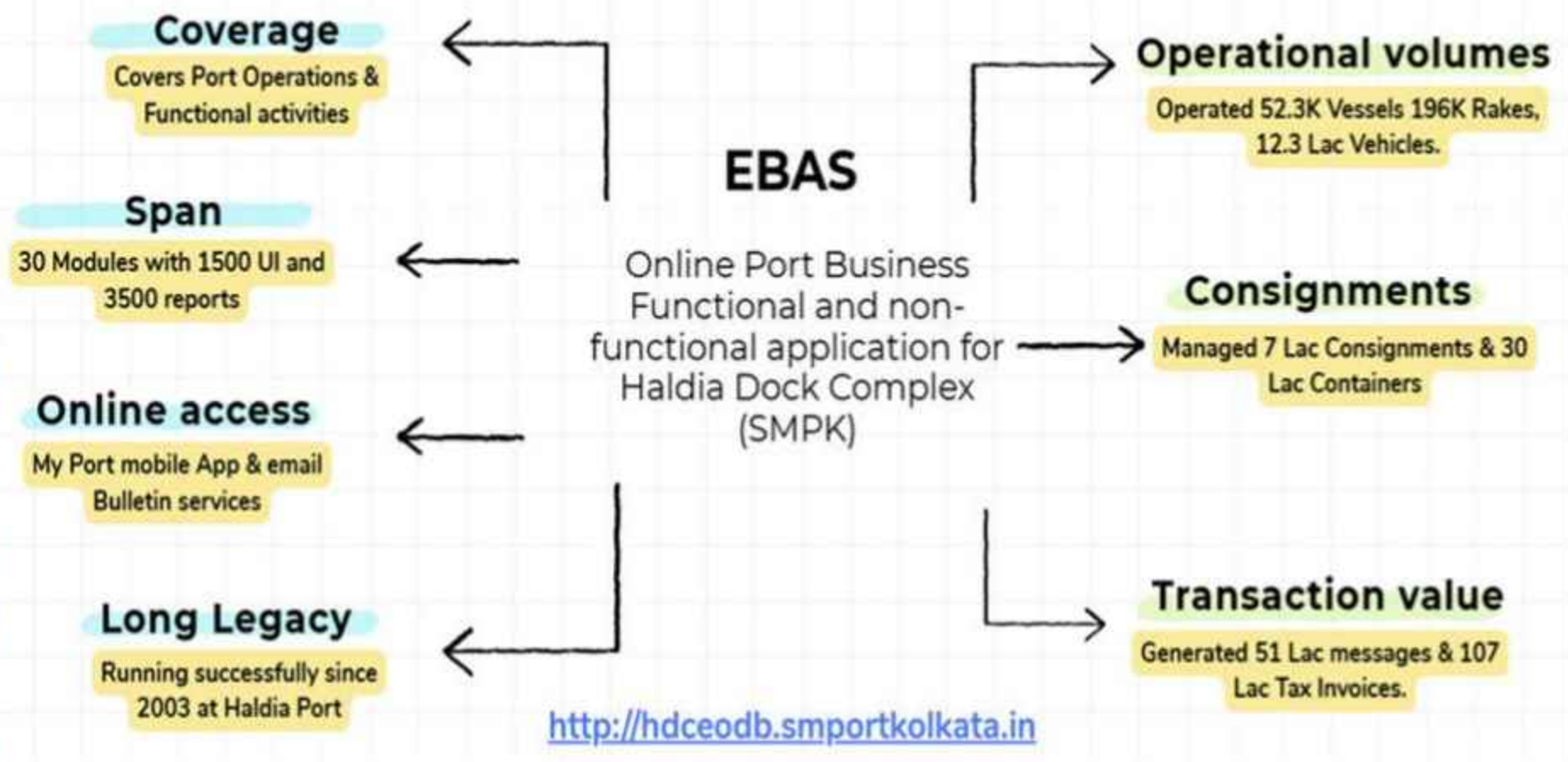
Key Features:



Technology Stack:



Enterprise Business Application System



Usage Statistics:

Operational Statistics	February 2026	March 2026	FY: 2025-26
Vessel	170	189	2140
Rake	756	811	9747
Vehicle	5575	5212	66209
Container	16731	13813	212362
Consignment	3369	2774	48602
Sagar Setu Messages	183979	167528	1952588
Invoice Count	21782	22268	320005

Recent Activities:

- Android App Development:** Developed and deployed Android apps (Gate Sathi, EIR) to streamline gate operations and equipment reporting with improved data accuracy.
- Process Automation:** Created applications for VRC, CRC, RR approvals, and stock cargo management to enhance operational efficiency.
- Vessel Communication Systems:** Implemented the NDC application with automated email notifications for vessel agents.
- Financial & Year-End Operations:** Handled rate updates and financial year-end processes ensuring accuracy and compliance.
- Taxation & Reporting Solutions:** Developing the LAMS TDS application and reports for tax deduction tracking.
- MSME Payment Systems:** Developed applications and reports to ensure timely MSME payments.



Kolkata District Portal

<https://kolkatacollectorate.wb.gov.in>

Highlights NIC service providing to District Administration:

The administrative structure of Kolkata is quite different from that of other districts in West Bengal, rather than as a conventional district with a typical district administration.

Within this administrative framework, the district-level responsibilities include providing end-to-end application support for major electoral processes, including the West Bengal General Elections to the Legislative Assembly and the Parliamentary Elections. Additionally, the work involves developing and maintaining the Kolkata district websites on the S3WAAS platform, as well as undertaking comprehensive project activities—such as planning, analysis, design, development, and testing—for various ICT initiatives implemented by both the State and Central governments.

District Specific Activities

- **DevSecOps & TAIGA - Multi-Stack DevSecOps Platform as a Service for NIC-WB and Open Source Project Management Platform**
 - A Unified DevSecOps GitLab Platform has been developed for NIC-WB as a Multi-Stack DevSecOps Platform-as-a-Service, hosted in the NIC Mini Data Centre. The platform provides centralized repository management, CI/CD automation, security integration, and end-to-end project lifecycle management. Agile project management has been integrated through Taiga.
 - Several HoDs, Project Team Leaders, have been on boarded and are actively using the platform, while others are in the process of onboarding to streamline and monitor IT project progress.
- **Capacity Building & Training Initiatives:**
 - To ensure effective adoption and utilization of the Unified DevSecOps Platform, comprehensive training sessions were conducted for officials of NIC West Bengal State Unit including District's DIOs/ADIOs/DIAs in offline mode, with simultaneous VC broadcast.
 - **Key topics covered:**
 1. Platform architecture and onboarding process
 2. Project creation, member management, and CI/CD pipeline configuration
 3. Agile fundamentals and onboarding to Taiga
- **EMMS 2.0 – Election Manpower Management System**
 - Application support for the upcoming Election to the Legislative Assembly 2026 is ongoing and at an advanced stage, with continuous technical assistance, monitoring, and issue resolution.
- **Safer Internet Day 2026 (10 February 2026) - Workshop**
 - Workshop was successfully conducted with around 70 participants. The session focused on the theme “Smart Tech, Safe Choices,” covering safe and responsible use of AI, awareness about deepfakes and misinformation, ethical use of technology, and protection of personal data and privacy.



Malda District Portal

<https://malda.gov.in>

Highlights

Malda is a district covering an area of 3733 sq Km with Bihar and Uttar Dinajpur at the North, Murshidabad at the South, Bangladesh at the east, and Jharkhand and Bihar at the West. It shares a 165.5 km international border with Bangladesh. Having a central location it is an important junction and entry point to Siliguri from South Bengal. The river Ganga makes its first entry into West Bengal near Manikchak of Malda.

This district was formed out of some portions of outlying areas of the Purnia, Dinajpur, and Rajshahi districts in 1813. At the time of Dr. B. Hamilton (1808 – 09), the presents thanas of Gazole, Malda, Bamongola, and part of Habibpur were included in the district of Dinajpur and the thanas of Harischandrapur, Kharba, Ratua, Manikchak, and Kaliachak were included in the district of Purnia. In 1813, in consequence of the prevalence of serious crimes in the Kaliachak and Sahebganj thanas and also on the rivers, a Joint Magistrate and Deputy Collector were appointed at Englishbazar with jurisdiction over a number of police stations centering that place and taken from the two districts. Thus the district of Malda was born. The year 1832 saw the establishment of a separate treasury and the year 1859 the posting of a full-fledged Magistrate and collector.

Software Development Activities:

EMMS Mobile App Conceptualization:

Led the ideation and prototype design for the EMMS mobile counterpart. The design prioritizes an intuitive user experience tailored specifically for on-the-go manpower training tracking, deployment, and administrative management.

EMMS Infrastructure & Session limiting:

Deployed database replication for the EMMS, establishing robust data redundancy and high availability. Concurrently, implemented strict session limit handling to effectively manage concurrent user scaling.

Comprehensive Observability Implementation:

Integrated a full observability stack into the EMMS architecture to enhance system visibility and debugging capabilities. This involved configuring Open Telemetry to capture granular traces, metrics, and logs across the Laravel application, seamlessly routing the telemetry data to a self-hosted Open Observe backend for centralized, real-time monitoring.

Quality Assurance & Automated Testing:

Established a rigorous automated testing standard for the EMMS. Developed and implemented comprehensive unit and integration tests utilizing the PEST PHP testing framework, significantly improving code reliability, maintaining logic integrity, and mitigating future regressions.

E-Commerce Mobile App Prototyping:

Conceptualized and designed the initial prototype for a new mobile application dedicated to the sale of mango products. This phase focused on mapping out core user journeys, defining feature sets, and crafting a streamlined interface to support efficient mobile transactions.

District Specific Activities

- Official District Website regularly updated (S3WAAS).
- VC Support of NIC, State and District level meeting.
- IRAD Technical Support for all stake holders.
- Email Create/Update Technical Support.
- E-office active in 48 departments with ongoing support.
- IT support for admin review meetings.
- Technical help for E-Prosecution, Vahan, Sarathi.
- Support for flagship schemes: Jai Bangla, Lakshmir Bhandar, Duare Sarkar, Kanyashree, etc.
- Technical support for OBC SC/ST certificate (OSCAR).
- Technical support for various activities of SIR 2026.
- Technical support for WBLA-2026 activities & EMMS.



Purba Medinipur District Portal

<https://purbamedinipur.gov.in>

Highlights NIC service providing to District Administration:

In the district, the work covers advising departments on ICT projects, supervising and managing them through their lifecycle, and handling day-to-day operations, maintenance, and hardware support. It also includes project planning, analysis, design, development, and testing. Key activities involve implementing e-Governance projects, conducting training and workshops, engaging with the community, supporting video conferencing, monitoring government schemes, and providing ICT consultancy. Support is also given to the administration in elections, recruitment processes, and in developing new projects.

District Specific Activities

- Online Festival Permission (Service Plus) with training.
- Awareness Camp on Safer Internet Day
- District website (S3WAAS) updated, e-Office Technical Support.
- Support for GEM, e-Prosecution, eVahan, Sarathi, NDAL & ALIS, IRAD
- Flagship schemes: Jai Bangla, Lakshmir Bhandar, Duare Sarkar, Kanyashree, APAS, Field inspections app.
- e-Tendering, e-Auction, OSCAR (OBC/SC/ST), iRAD.
- Email services & regular Video Conferencing support.
- Election VC Conducting, Election Manpower Management Micro-observer, Polling Officer, Group Creation
- E-office Activities rolling-out through the departments

Summary/Training

1. Regular User Training conducted for new/Changed module.
2. Improved Process flow explained to user of EMMS
3. Organized Event of Safer internet day at Tamluk Head Post office.



Nadia District Portal

<https://nadia.gov.in>

District Specific Activities

Managing the District Website (S3WAAS) content based on requests received from District Officials and various Departments.

Facilitating regular video conferencing, covering both general and election-related meetings. Generation of Micro Observer (MO) appointment letters for the ongoing SIR-2026.

Coordinating with the OC–Polling Personnel for the operation of the EMMS 2.0 software for the upcoming election. Providing doubt-clearance and technical support for all election-related software queries. Conducting training sessions for all BDO and SDO offices on the use of the EMMS 2.0 software.

District NIC provided uninterrupted IT support, effective coordination, and timely deployment of equipment during the ASL activities and the **Hon'ble Home Minister's visit**, including the provision of two Wi-Fi enabled computers and two multifunction printers (Fax/Print/Scan/Copy).

District NIC provided all necessary technical and logistical support for the Hon'ble Home Minister's visit held on **18/02/2026 at ISKCON Mayapur, Nadia**



Jhargram District Portal

<https://jhargram.gov.in>

Highlights

Jhargram is a district in the state of West Bengal, India. It was formed on 4 April 2017, after splitting from the Paschim Medinipur district as the 22nd district of West Bengal. The district has its headquarters at Jhargram. Jhargram is famous for its wooded beauty and topography culminating in the hill ranges of Belpahari, Kankrajhor to the north and Subarnarekha to the south. It is a favorite destination for people who love forests. The ancient temples, royal palaces, and folk tunes and rhythms make this area attractive.

Jhargram district covers an area of 3,037.64 km² and had a population of 1,136,548 in the 2011 census. 96.52% of the total population was rural and only 3.48% was urban population. 20.11% of the total population belonged to scheduled castes and 29.37% belonged to scheduled tribes.

District specific activities

- Official District Website regularly Upload and update notices and web pages.
- Update EMD and provided technical support for Jhargram eOffice.
- Technical support and training for i-RAD , e-Prosecution etc.
- NIC VC and NICNET connectivity.
- NIC Email Create/update Technical Support.
- Support for flagship schemes: Jai Bangla, Lakshmir Bhandar , Duare Sarkar, Kanyashree, etc.



Murshidabad District Portal

<https://murshidabad.gov.in>

Highlights

NIC Murshidabad is providing ICT infrastructure to district administration to support e-Governance services through pan india communication network (NICNET), LAN, Videoconference, Webcast facility etc. District Administration with support from NIC is executing and implementing e-governance and Digital India initiatives to the grass root level in achieving transparent, efficient and responsive governance.

District Specific Activities

- Maintenance of Official District Website regularly (S3WAAS) platform
- Technical help for E-Prosecution, Vahan, Sarathi
- VC Support of NIC, State and District level meeting.
- IRAD Technical Support for all stake holders.
- Emms Portal support.
- Support for flagship schemes: Jai Bangla, Lakshmir Bhandar, Duare Sarkar, Kanyashree, etc.
- E-office active in various departments with ongoing support
- Technical help for field inspection app.
- It support of Circuit House.
- Technical support for SIR (Special Intensive Revision)
- DA Admin support and follow up for Admin creation
- Email migration support for district Officers.
- VC System Installation upgradation



Birbhum District Portal

<https://birbhum.gov.in>

The area now known as Birbhum was inhabited from pre-historic times. The name Birbhum comes probably from the term 'land' ('bhumi') of the 'brave' ('bir'). Another theory says that the district bears the name of [Bagdi](#) king [Bir Malla](#), who ruled in the area from 1501 to 1554 CE. *Bir* in the [Santali language](#). Birbhum could also mean a "the land of red soil". Birbhum is the northernmost District of the Burdwan Division. It lies between 23° 32' 30" and 24° 35' 0" north latitude and 88° 1' 40" and 87° 5' 25" east longitude.

District Specific Activities:

- Official District Website regularly updated (S3WAAS).
- E-office active in all section of district administration with ongoing support.
- Provided consultancy & ICT Support to District Administration.
- Support for flagship schemes:
- Email Create/Update Technical Support.
- iRAD Technical Support, CAA Hearing and SIR.
- Video Conference Support.
- NICNET Support.
- Software development and support for various departments within the district.



Darjeeling District Portal

<https://darjeeling.gov.in>

Highlights

Darjeeling District is the northernmost district of the state of West Bengal in eastern India in the foothills of the Himalayas, in the eastern Sivalik Hills. The district is famous for its hill station, Darjeeling tea and tourism. Darjeeling, Kurseong, Siliguri and Mirik, major towns in the district, are the subdivisional headquarters of the district. The district shares international borders with Nepal and Bangladesh. The economy of Darjeeling hill area depends on **tourism**, tea production, horticulture, agriculture and forestry.

District Specific Activities.

- Supported in EMMS related technical issues at field level.
- District Website updated regularly (S3WAAS).
- E-office support to users of District Administration.(along with Siliguri municipal corporation)
- Technical support for Email Creation/Update along with support for DA Admin Console.
- Provided consultancy & ICT Support to District Administration
- Active VC Support Given to DM Office for NIC VC, Bharat VC and others VC Platforms (Google Meet, Zoom, Webex etc.)
- Provided Support to GTA in e-Office and email related activity.
- Support for flagship schemes: Jai Bangla, Lakshmir Bhandar, Duare Sarkar, Kanyashree etc.
- Support for e-Tendering & e-Auction systems.
- Given support to district for Election related activities/BLO etc.
- IRAD Technical Support and Trainings to Police Stations and other stakeholders.
- NICNET Support:
 1. 220 nodes at Office of the District Magistrate, Darjeeling
 2. Office of the Jalapahar Cantonment Board (Ministry of Defence, DGDE)
 3. Office of the Lebong Cantonment Board (Ministry of Defence, DGDE)

Contribution in State project: e-Panchayet Project (PRISM ID : 3661)

Enhanced UI-UX of e-Panchayet portal using DBIM Guidelines.



Kalimpong District Portal

<https://kalimpong.gov.in>

Highlights

Kalimpong is a picturesque hill district in northern West Bengal, nestled in the Eastern Himalayas. Known for its serene landscapes, flower nurseries, Buddhist monasteries, and rich cultural heritage, it offers stunning views of the Kanchenjunga range. The district borders Sikkim and Bhutan and is a center for education, tourism, and horticulture. Kalimpong is also gaining recognition for its eco-tourism and organic farming initiatives.

District Specific Activities

- Official District Website regularly updated (S3WAAS).
- E-office active in all section of district administration with ongoing support.
- Provided consultancy & ICT Support to district Administration.
- Technical help for E-Prosecution, eVahan, Sarathi.NDAL & ALIS
- Support for flagship schemes: Jai Bangla, Lakshmir Bhandar, Duare Sarkar, Kanyashree etc.
- Support for e-Tendering & e-Auction systems.
- Technical support for OBC SC/ST certificate (OSCAR).
- Email Create/Update Technical Support.
- IRAD Technical Support
- Coordination with members of Citizenship Amendment Act (CAA).
- VC Support
- NICNET Support:
 1. 18 nodes at Office of the District Magistrate, Kalimpong

Summary/Training

1. Regular User Training conducted for new/Changed module.
2. Participated in DevSecOps, EMMS 2.0, NAPIX & APISIX, Docker Kubernetes trainings.

Contribution in State project: e-Panchayet Project (PRISM ID : 3661)

Implemented Redis Security by using client side (.NET Core API Client) encryption and decryption of data using AES (128 bit) (Encryption at rest)



Jalpaiguri District Portal

<https://jalpaiguri.gov.in>

Highlights

Jalpaiguri is a district in northern West Bengal, situated in the scenic Dooars region. It is known for its lush tea gardens, forests, and rivers like Teesta and Karala. The district shares borders with Bhutan and Bangladesh. It has rich biodiversity and popular tourist spots like Gorumara. Jalpaiguri is also a hub for agriculture, tourism, and digital governance initiatives.

District Specific Activities

- Official District Website regularly updated (S3WAAS).
- E-office active in all section of district administration with ongoing support.
- Provided consultancy & ICT Support to district Administration.
- Technical help for E-Prosecution, eVahan, Sarathi.NDAL & ALIS
- Support for flagship schemes: Jai Bangla, Lakshmir Bhandar, Duare Sarkar, Kanyashree etc.
- Support for e-Tendering & e-Auction systems.
- Technical support for OBC SC/ST certificate (OSCAR).
- Email Create/Update Technical Support.
- IRAD Technical Support
- Coordination with members of Citizenship Amendment Act (CAA).
- VC Support
- NICNET Support:
 1. 122 nodes at Office of the District Magistrate, Jalpaiguri
 2. Circuit Bench of Kolkata High Court at Jalpaiguri
 3. Office of SSB SHQ Panga Sahebbari
 4. Office of 17 SSB SHQ Falakata
 5. IVFRT Project Haldibari

Summary/Training

1. Regular User Training conducted for new/Changed module.
2. Updated process flow explained to user.



Uttar Dinajpur District Portal

<https://uttardinajpur.gov.in>

Highlights :-

- ❖ ICT consultant and District level ICT Coordinator of several Projects (G2G,G2C, G2E,G2B) for Digital Governance across Sectors and spread over 100 locations.
- ❖ Site Identification, Requirement Analysis, Planning and Preparation, Proposal and Estimate Preparation.

Project :-

Impact :-

- ❖ iRAD/eDAR : 1783 accident cases captured till date.
- ❖ eProsecution : 15249 Court Cases Digitalized under this project.
- ❖ eOffice : Users : 430 Transactions : 54097
- ❖ Arms License Issuance System : approx. 1600 Gun License data digitalized.
- ❖ Vahan-Sarathi : 44,15,81 vehicles have been registered.
- ❖ IVFRT : Indian & Foreigner data Arrival: 26587 , Exit: 26709



Alipurduar District Portal

<https://alipurduar.gov.in>

Highlights

Alipurduar is home to a diverse range of ethnic communities, including the Rajbanshi, Dukpa, Bhutia, Tamang, Gurung, Lepcha, Sherpa, Bhujel, Kami, Damai, Mangar, Newar, Khas, Chettri, Sarki, Rabha, Mech, Santhal, Madasia, Bodo, Toto, and Oraon communities, among others. This cultural diversity adds to the rich tapestry of the district.

Geographically, Alipurduar is a landlocked district, bordered by Jalpaiguri to the west, Assam to the east, and Cooch Behar to the south. To the north, it shares an international border with Bhutan. The district's landscape is characterized by rivers, streams, hills, tea gardens, and forests. The major rivers flowing through the district include the Torsa, Raidak, Kaljani, Sankosh, Jayanti, Dima, Mujnai, and Gadadhar.

District Specific Activities

- Official District Website regularly updated (S3WAAS).
- E-office active in all section of district administration with ongoing support.
- Provided consultancy & ICT Support to district Administration.
- Technical help for E-Prosecution, eVahan, Sarathi.NDAL & ALIS
- Support for flagship schemes: Jai Bangla, Lakshmir Bhandar, Duare Sarkar, Kanyashree etc.
- Support for e-Tendering & e-Auction systems.
- Technical support for OBC SC/ST certificate (OSCAR).
- Email Create/Update Technical Support.
- IRAD Technical Support
- Coordination with members of Citizenship Amendment Act (CAA).
- VC Support
- NICNET Support:

Summary/Training

1. Regular User Training conducted for new/Changed module.
2. Updated process flow explained to user.



South 24 Parganas District Portal

<https://s24pgs.gov.in/>

District Administrative setup

The present district of south 24 Parganas came into existence on 1st March 1986 with five sub divisions viz. Alipore(Sadar), Baruipur, Canning , Diamond Harbour and Kakdwip, 29 Blocks, 7 Municipalities, 31 Assembly Constituencies, 5 Parliamentary Constituencies and one Municipal corporation.

District Specific Activities

- 1) e-Office is implemented in 84 Departments/Section under District Administration with total 5255267 no of e-File moved till date which is highest among the districts of west Bengal.
- 2) Implemented District Official Website in S3WAAS platform with separate webpage for more than 26 departments till date for information regarding details of citizen centric schemes offered by corresponding department.
- 3) Service Plus framework used for digitalization of RTI Case monitoring for Land Acquisition cases and currently in UAT.
- 4) Necessary technical support provided to various National level e-Governance Project ie. e-Tender, GeM, ICJS, iRAD, email Services, NDAL & ALIS , SPARROW, e-Vahan, e-Sarathi , CAA Portal, e-GramSwaraj Portal, APAS Portal etc.
- 5) Necessary technical support provided to various State Level e-Governance Project ie Jaibangla Portal, Lakkhir Bhandar, OSCAR Portal for issuance of Cast Certificate , Field Inspection and Monitoring & Supervision Portal etc.
- 6) Total 10 nos of Video Conference Session conducted through NIC VC setup
- 7) NICNET services provided to district administration with maximum bandwidth utilization more than 190Mbps (in) / 197Mbps (out).

Other Significant Activities

- 1) Involved in assisting district administration for preparation of RFP/Tender documents for various IT initiative .

Summery / Training

- 1) Training conducted on various National and State Level e-Governance initiative ie. EMMS, E-Tender, GeM, ICJS, APAS Portal, Field Inspection and Monitoring Portal, iRAD etc.