



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.

January, 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. NextGen Kanyashree Online 9.0
3. Land & Land Reforms and Refugee Relief & Rehabilitation Department
4. Directorate of Registration and Stamp Revenue
5. Khadyasathi
6. Election Manpower Management System (EMMS) and Candidate Expenditure Management System (CEMS)
7. Lakshmir Bhandar
8. Jai Bangla
9. NextGen Rupashree Online 3.0
10. Shilpasathi
11. Unified Project Management System (UPMS)
12. West Bengal Social Registry
13. OSCAR (Online Caste Application Registration System)
14. Banglar Shiksha
15. Banglar Uccha Shiksha
16. Unified District Information System for Education Plus (UDISE)
17. Swami Vivekananda Merit-cum-Means Scholarship
18. West Bengal Bhabishyat Credit Card Scheme
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. SARATHI
27. VAHAN
28. PUCC (Pollution Under Control Certificate)
29. e-Detection
30. iRAD (Integrated Road Accident Database)
31. e-Challan
32. Content Management System
33. e-Court
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. West Bengal Textile Incentive Scheme for Directorate of Textile
39. E-Services for 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

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Following Projects are developed and implemented in West Bengal :-

COE AI (Centre of Excellence in Artificial Intelligence) Lab, Kolkata

48. Facial Recognition Based Attendance System (FRBAS)

49. AI Shirshank (AI-enabled Person Count Services)

50. AI-enabled Services for NextGen Kanyashree Online 9.0

51. AI-enabled Services for NextGen Rupashree Online 3.0

52. AI Sanlaap : Conversational AI-based Chat & Voicebot Framework

53. AI Anurup : AI-based Name Matching Service

54. AI Abhigyan : AI-based Text Extraction System

55. AI-enabled Services for Property Registration

56. AI-enabled Cardamom Leaf Disease Detection System

57. AI-based Crop Image Anti-spoofing System

58. ServicePlus

59. Comprehensive Portal for Deptt. of Women & Child Development and Social Welfare

60. IT initiatives at Calcutta High Court

61. e-Prison

62. e-Prosecution

63. e-FSL (Forensic Labs)

64. NICNET

65. Video Conferencing Services (PRAGATI)

66. National Knowledge Network (NKN)

67. West Bengal Data Centre (Mini-Cloud, Kolkata)

68. NAPIX Service in West Bengal

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

70. DGXA100: Universal System for AI Infrastructure
Kubernetes Administration – Super Computing

Other CENTRAL PROJECTS :-

71. Online Indian Citizenship

72. Arms License Issuance System (ALIS)

73. IVFRT (Immigration, VISA, Foreigner's Registration & Tracking)

National Port Projects :-

74. Enterprise Business Application System (EBAS)

75. Port Operation Management System (POMS)

District Portals :-

76. Kolkata District Portal

77. Malda District portal

78. Purba Medinipur District Portal

79. Nadia District Portal

80. Jhargram District Portal

81. Murshidabad District Portal

82. Birbhum District Portal

83. Darjeeling District Portal

84. Kalimpong District Portal

85. Jalpaiguri District Portal

86. Uttar Dinajpur District Portal

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

- Solution for Just-in-time Payment for Centrally Sponsored Schemes (CSS) mapped with State level Scheme (SLS) implemented by Government of West Bengal (GoWB) following mandate of SNA-SPARSH Mandate of Government of India (GoI). 38 CSS, and 91 SLS implemented as on date
- **5 modules: User Management, WBJIT, JIT-Bill, JIT-Treasury, Third Party Integration (TPI)**
Development based on **Microservices Architecture, Generic Template and API-based integration of external portal**
- 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. External Integration NPCI, JJM, PMGSY, NREGA Soft, Gram Nidhi, PMAY, PMMVY

Achievement: WBJIT Implemented Since 7th January '2025

Statistics : FY 25-26 : FTO prepared : 73323, Amount : Rs. 4369 Crores (Approx.)



G2G G2C



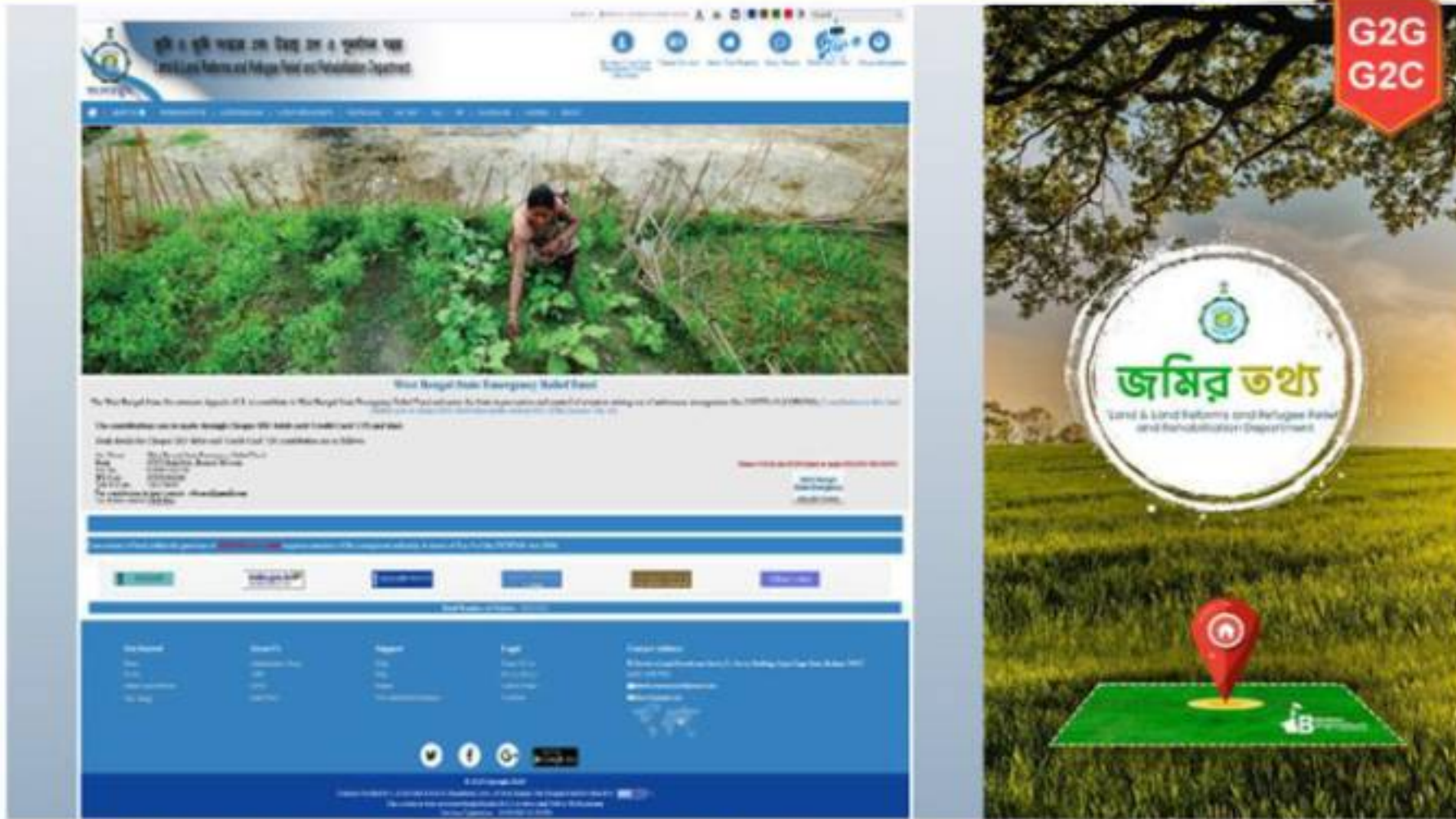
Technology Stack : Laravel 10, PHP 8.1, Apache2.4, PostgreSql 17

NextGen Kanyashree Online 9.0

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

- ICT driven Conditional Cash Transfer programme
- aims at improving lives of millions of adolescent girls having poor socio-economic background
- Around 97.46 lakh Girls are already enrolled in the programme and 95.936 lakh already sanctioned. (Unique Girls)

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)

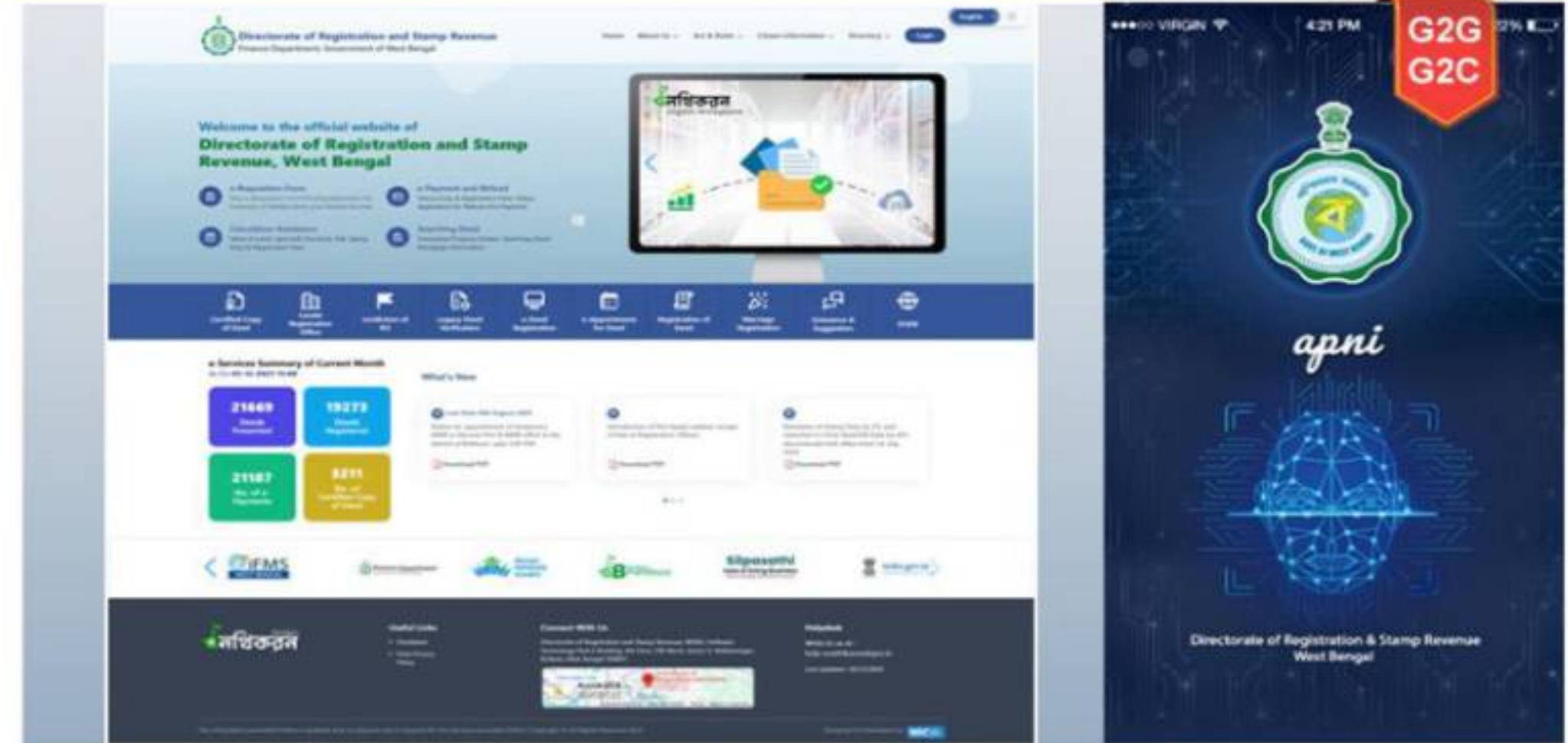


Technology Stack : J2EE, Struts 2 framework, Hibernate, SQL Server
URL : <https://banglarbhumi.gov.in/>

Land And Land Reforms And Refugee Relief And Rehabilitation Department

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

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.



Technology Stack : .NET Framework, C#, SQL Server, Angular
URL : <http://wbregistration.gov.in/>

Directorate of Registration and Stamp Revenue

- 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.

PROJECT NAME	PRISM ID	PROJECT URL G2G G2C
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)

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

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



Technology Stack :

Laravel, RabbitMQ, Redis, GitLab, DevSecOps

Type of Application : G2G, and G2C

Achievement: Successfully development and implemented in the last Parliament Election'2024 and subsequent Bye-Elections held time to time. Implementation for Assembly Election'2026 already started. Office Registration is in progress.

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.

Type of Application : G2G, and G2C

Achievement: Successfully development and running Lakshmir Bhandar since August'2021 with present **beneficiary around 2.21 Crore** and monthly assistance of Rs. 2116.44 Cr. (Approx) disbursed in January '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 : 2.21 Crores (Approx) Amount Disbursed : 2116.44 Cr.

Technology Stack :

Laravel ,Kafka Database : PostgreSQL

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

Type of Application : G2G, and G2C

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 : 80.78 Lakhs (Approx)
- Amount Disbursed in Dec'2025 : Rs 623.35 Crore (Approx)

Training : Continuous Online Training to stakeholders with SOP

Technology Stack :

Laravel ,Kafka Database : PostgreSQL

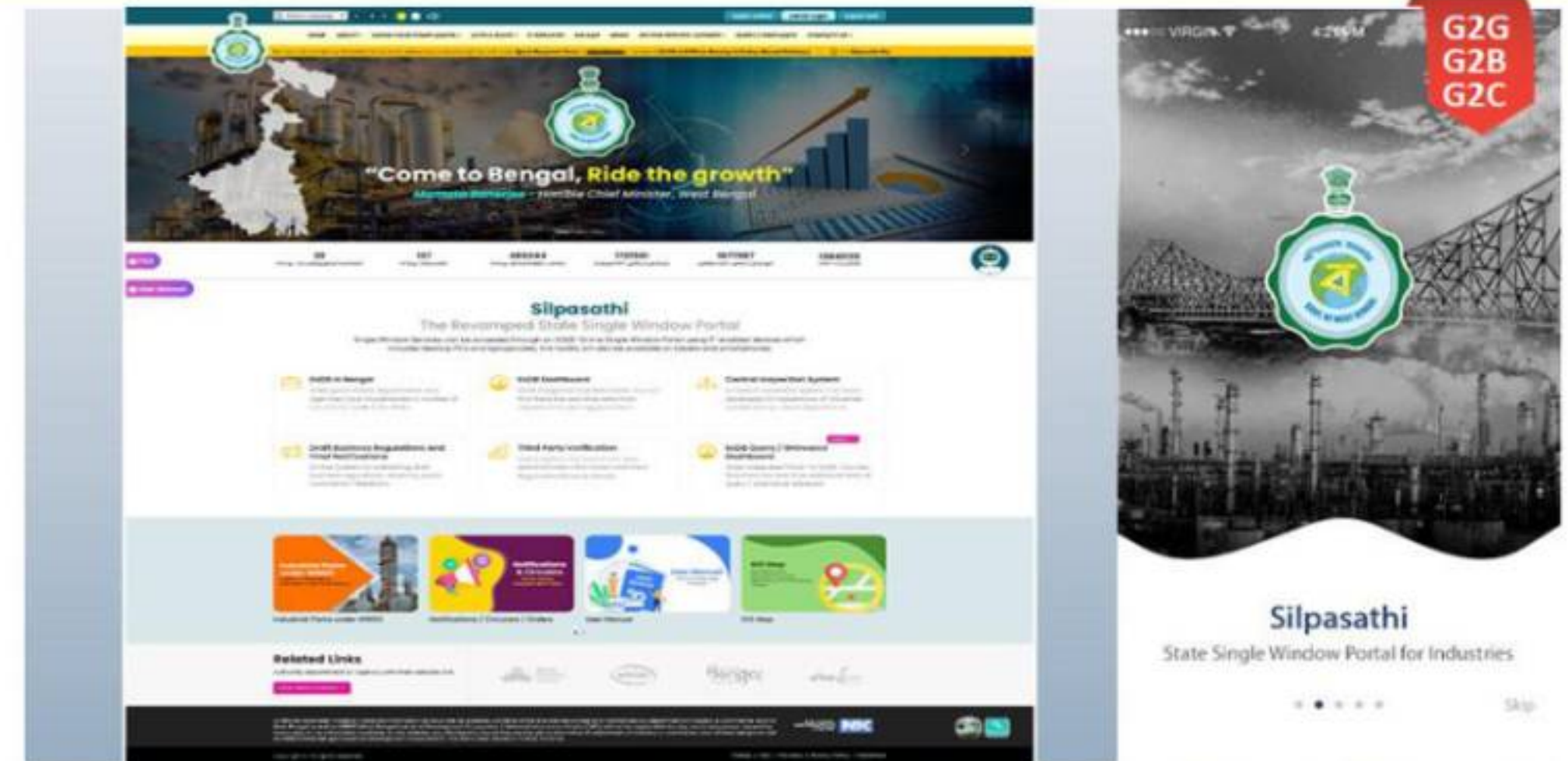


Technology Stack : Laravel 10, PHP 8.1, Apache2.4, PostgreSql 17

NextGen Rupashree Online 3.0

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

- Economically stressed families to provide cash assistance is Rs.25,000 at the time of their adult daughters' marriages.
- End-to-end ICT enablement from beneficiary enrolment to direct benefit transfer.
- Covered District – 24
- Covered Block/Municipality – 473
- Total Beneficiary – 21.31 lakh (Since Inception)



Technology Stack : Drupal, PHP, REST API, PostgreSQL URL : <https://silpasathi.wb.gov.in/>

Silpasathi – State Single Window Portal

“Unified Single-window Portal for Businesses To Apply For Approvals, Licenses & Clearances Without Physical Touch-point”

- 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 the Silpasathi portal.
- Online wizard to guide citizen for availing applicable licenses or certificate for setting up of industries.

Unified Project Management System (UPMS)

G2G
G2C

Highlights

PRISM ID : 3158

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

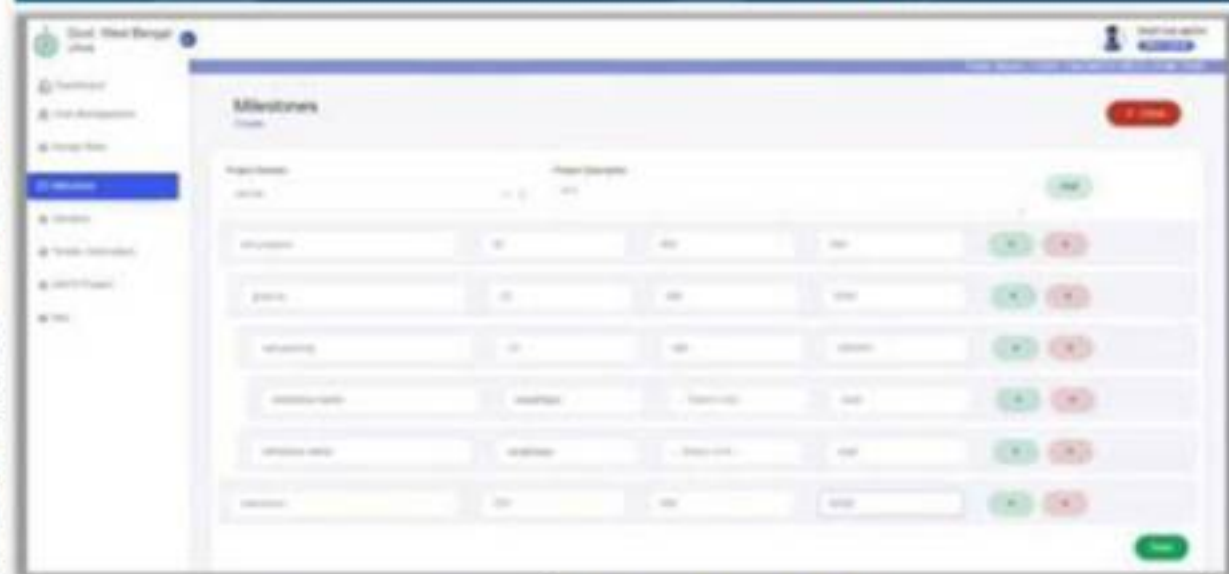
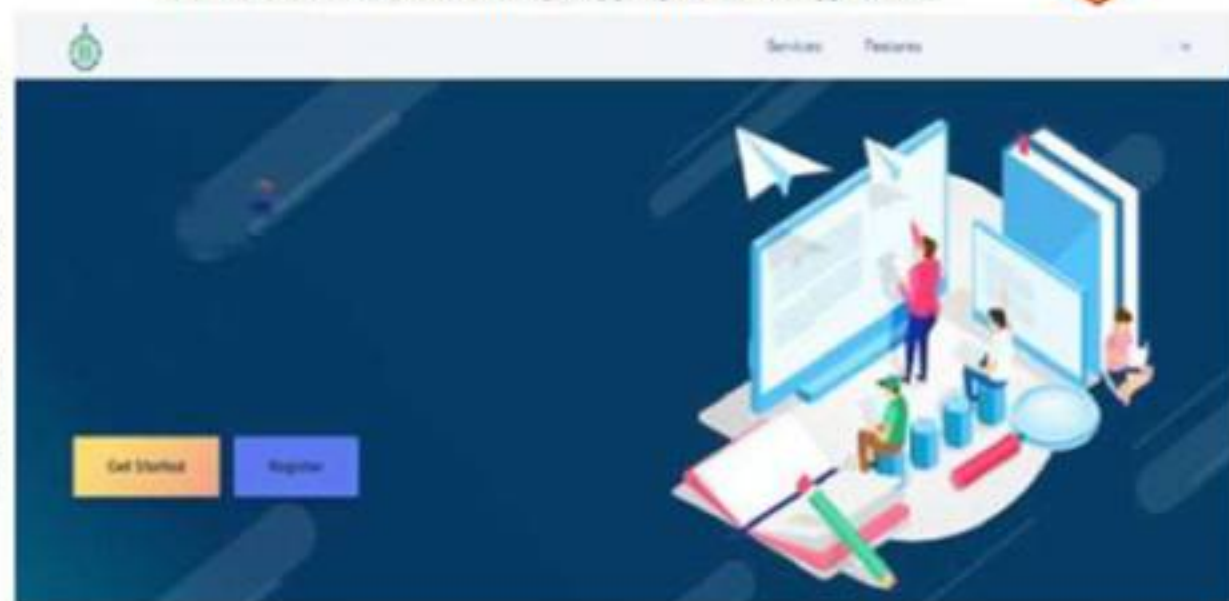
The Unified Project management System (UPMS) web based application has been developed to cover the areas of Proposal, Requisition, Planning, Design, Estimation following Schedule of Rates (SOR) and Non Schedule Items Rates, Sanction Approval, Administrative Approval, Tender, and monitoring physical and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

Type of Application : G2G, and G2C

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

Technology Stack :

Laravel , RabbitMQ, Redis, GitLab,
DevSecOps Database: PostgreSQL

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

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

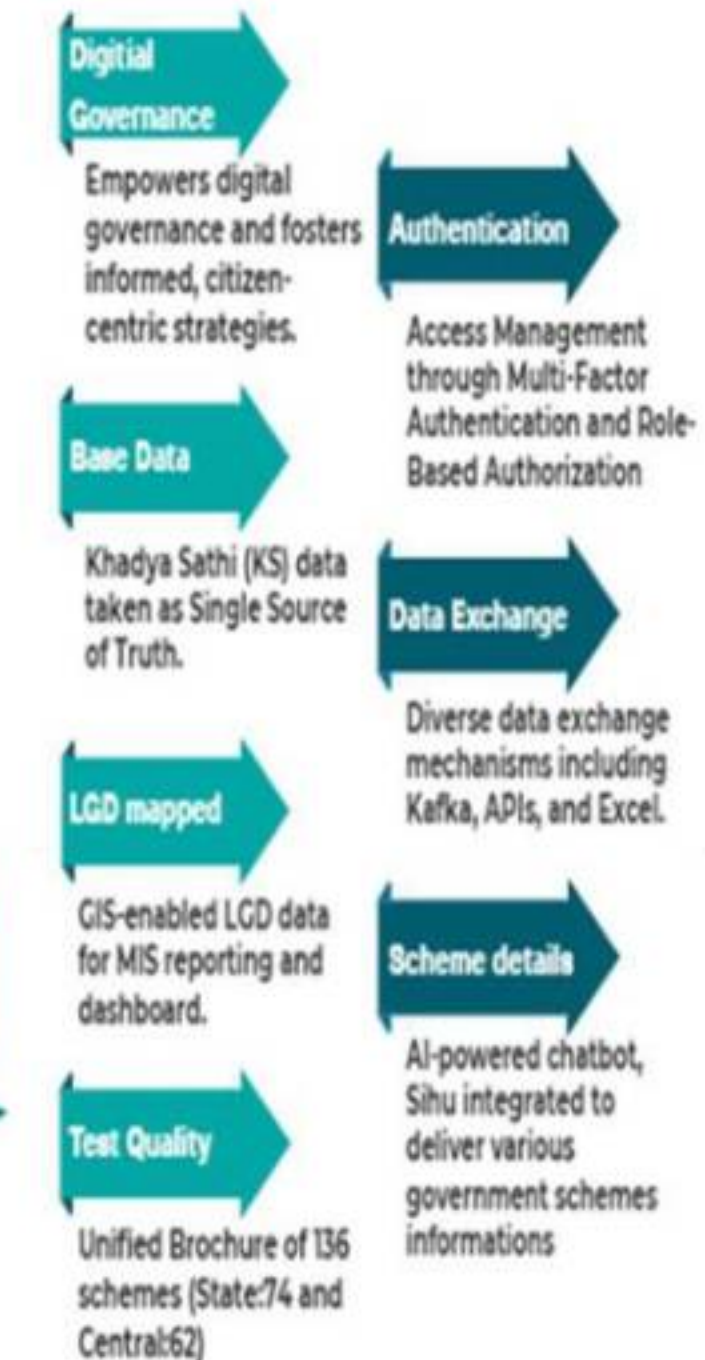
West Bengal Social Registry

G2G

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



The West Bengal Social Registry System (WBSRS), managed by the Finance Department, is a centralized platform for monitoring welfare scheme delivery across the state. It is currently integrated with 67 of 136 schemes (53 state and 14 central), with data synchronization enabled through Kafka-based real-time streaming, APIs, and Excel uploads for manually managed schemes. Planned enhancements include NPCI integration for beneficiary account verification to support benefit transfers, a chatbot for scheme-related information, and the inclusion of additional citizen welfare services.



Statistics as on: January 2026

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



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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- **SC,ST,OBC Application:** 1,96,69,287
- **SC,ST,OBC Certificates:** 1,73,82,379
- **EWS Applications:** 77,986
- **EWS Certificates :** 64,954

KEY FEATURES

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

TECHNICAL STACK

1. React
2. PHP
3. Laravel
4. Node JS
5. PostgreSQL
6. Java
7. 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>

HIGHLIGHTS

The Banglar Shiksha portal ensures real-time, accurate data flow between schools and education authorities.

Head of Institution (HOI):
Responsible for student data entry and academic record maintenance. Manages class-wise enrolment for all grades, from Pre-Primary to Class XII. Oversees data submission for various types of schools: Government schools, Government-aided schools, Private schools.

Sub-Inspector of Schools (SI):
Supervises academic and administrative activities at the cluster level. Monitors data submitted by schools within their jurisdiction. Ensures timely updates and data validation in the system.

District Inspector of Schools (DI):
Coordinates with Sub-Inspectors and HOIs at the district level. Reviews and verifies district-wide school data for planning and reporting.

Directorate of School Education (DSE):
Analyses data trends for decision-making at the state level. Integrates feedback and monitoring mechanisms into the system.

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.



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

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

Banglar Uchha Shiksha

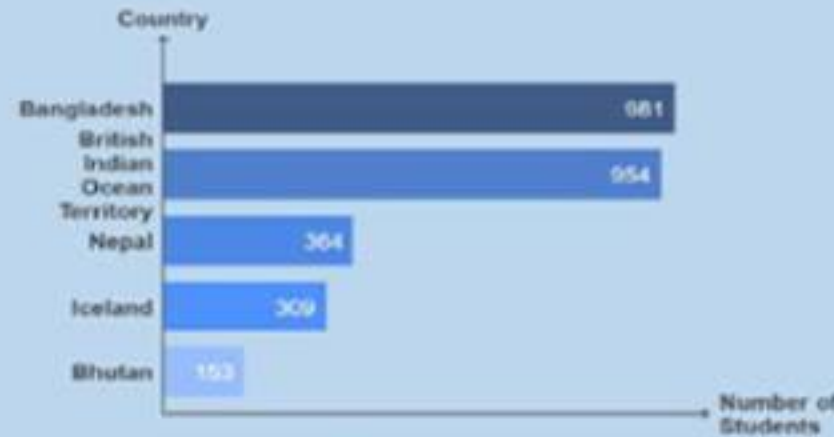
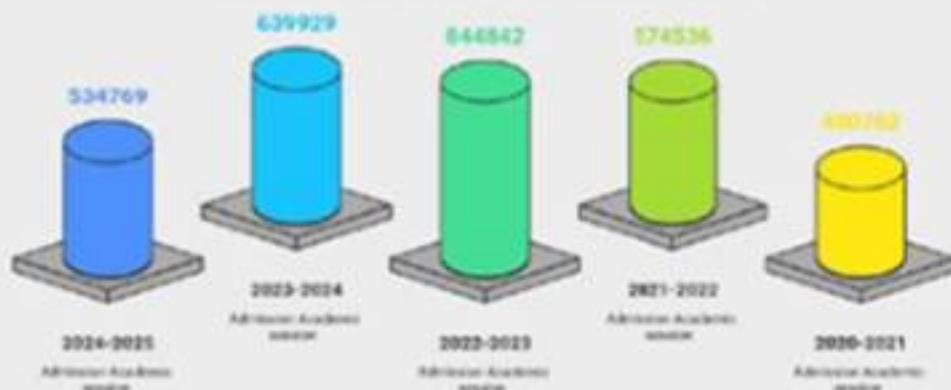
G2G
G2C

Banglar Uchha 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 gov. Engineering Institution. The portal also holds individual student profile data from 1411 institutions within West



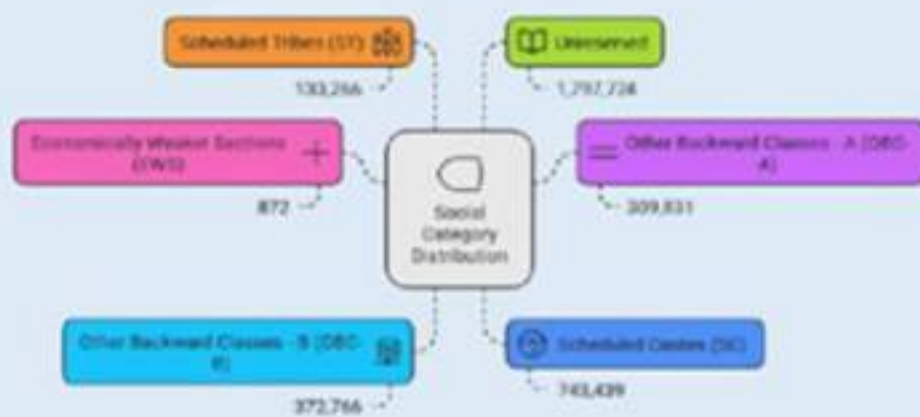
SUCCESS STORY AND STATISTICS

STUDENT ADMISSIONS BY ACADEMIC SESSION

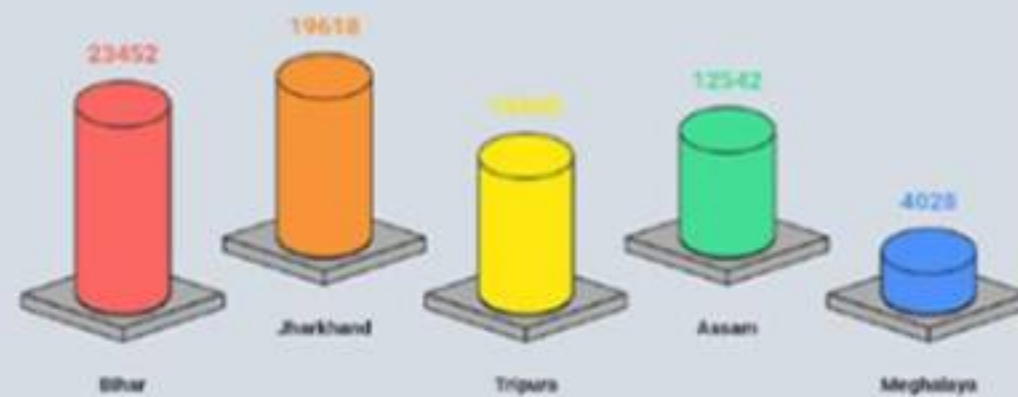


STUDENT DISTRIBUTION OF TOP 5 COUNTRIES APART FROM INDIA

SOCIAL CATEGORY DISTRIBUTION IN POPULATION



STUDENT ENROLLMENT FROM TOP STATES OUTSIDE BENGAL



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, 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).



G2G
G2C

- ✓ We have also started working on the new Laravel framework for the UDISE application.
- ✓ We are working on the new school insertion and approval process in CI framework of the application.
- ✓ We shared bulk data with the BBSK project after filtering it from the live server.

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



Renewal Application(2023-24) will be closed on 18.09.2023

1800-102-8014 | helpdesk.svmcm-wb@gov.in

"Education is the manifestation of the perfection already in the man."

- Swami Vivekananda



Technology Stack : Bootstrap, HTML-5, CSS-3, JavaScript, JQuery, PHP, NGINX, REDIS, PostgreSQL

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

Swami Vivekananda Merit-cum-Means Scholarship

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

BENEFICIARY DISTRIBUTION BY SOCIAL



Technology Stack : CodeIgniter, Linux, REST API, PostgreSQL
URL : <https://banglarbhumi.gov.in/>

West Bengal Bhabishyat Credit Card Scheme

"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.

West Bengal Direct Benefit Transfer (WBDBT) G2G G2C

PRISM ID : 3052 Production URL : <https://dbt.wb.gov.in>



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**

Type of Application : G2G, and G2C

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 Portal is an integrated online system to manage end-to-end salary and service-related operations for school employees. The platform facilitates key functionalities such as:

- Salary preparation and disbursement
- Increment processing
- Arrear calculation and management
- Bonus computation
- Online bill submission to IFMS
- Maintenance of employee service and personal details in a fully paperless environment

The system caters to **DPSCs, DDOs, circles, schools, and senior authorities**, enabling them to:

- Streamline and automate payroll workflows
- Ensure timely and accurate release of salaries
- Maintain updated and error-free employee records

Designed with transparency and efficiency at its core, the iOSMS Portal ensures smooth, secure, and accountable management of salary-related operations for school staff across the state

PROJECT DASHBOARD



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



WBSCC
Department of Higher Education
Govt. of West Bengal

1800-102-8014
contactwbcc@gmail.com
support-wbcc@bangla.gov.in

Administrator Login SR A+ G2G G2C

Home About the Scheme How to Apply Gallery Downloads FAQ User Manual Grievance Contact Us Student Registration Student Login

Student Credit Card Scheme

Collateral security free loan up to ₹10 Lakhs
@ Nominal Simple Annual Interest.

Important Message: [Download Me!](#)

Technology Stack :Bootstrap,HTML-5, CSS-3, JavaScript, JQuery, PHP, CodeIgniter, Apache, PostgreSQL

Student Credit Card Scheme

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

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].



HOUSING DEPARTMENT
Government of West Bengal

Platform: Drupal 7(PHP-8.0.30), Postgres- 15

e-Allotment of Rental Housing Estates, Housing Department

Prism ID: 20968

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

Enhancement done in brief

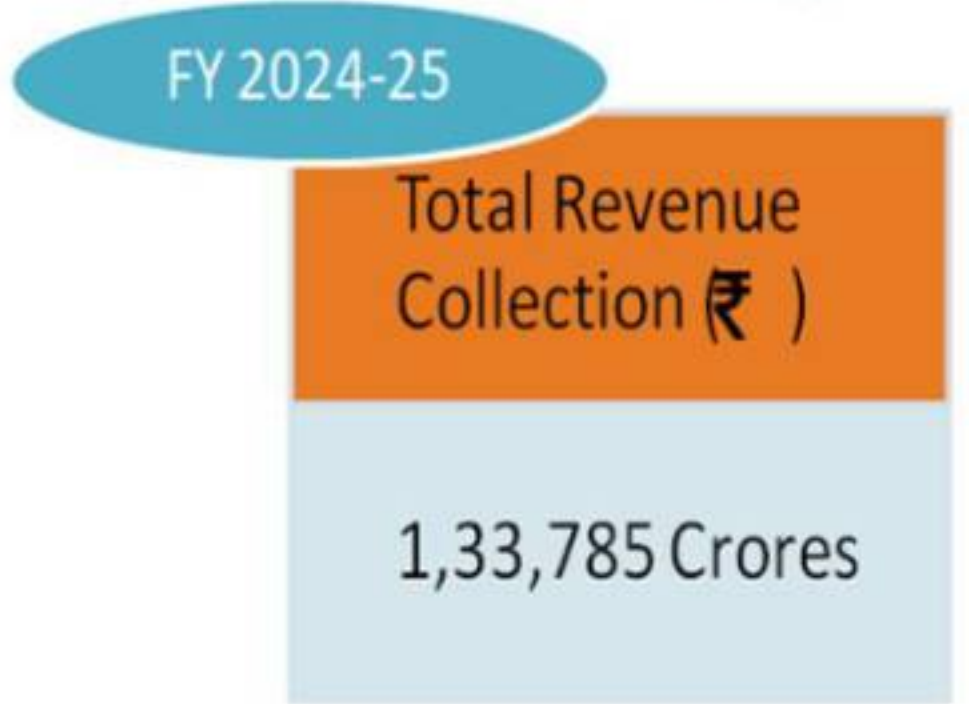
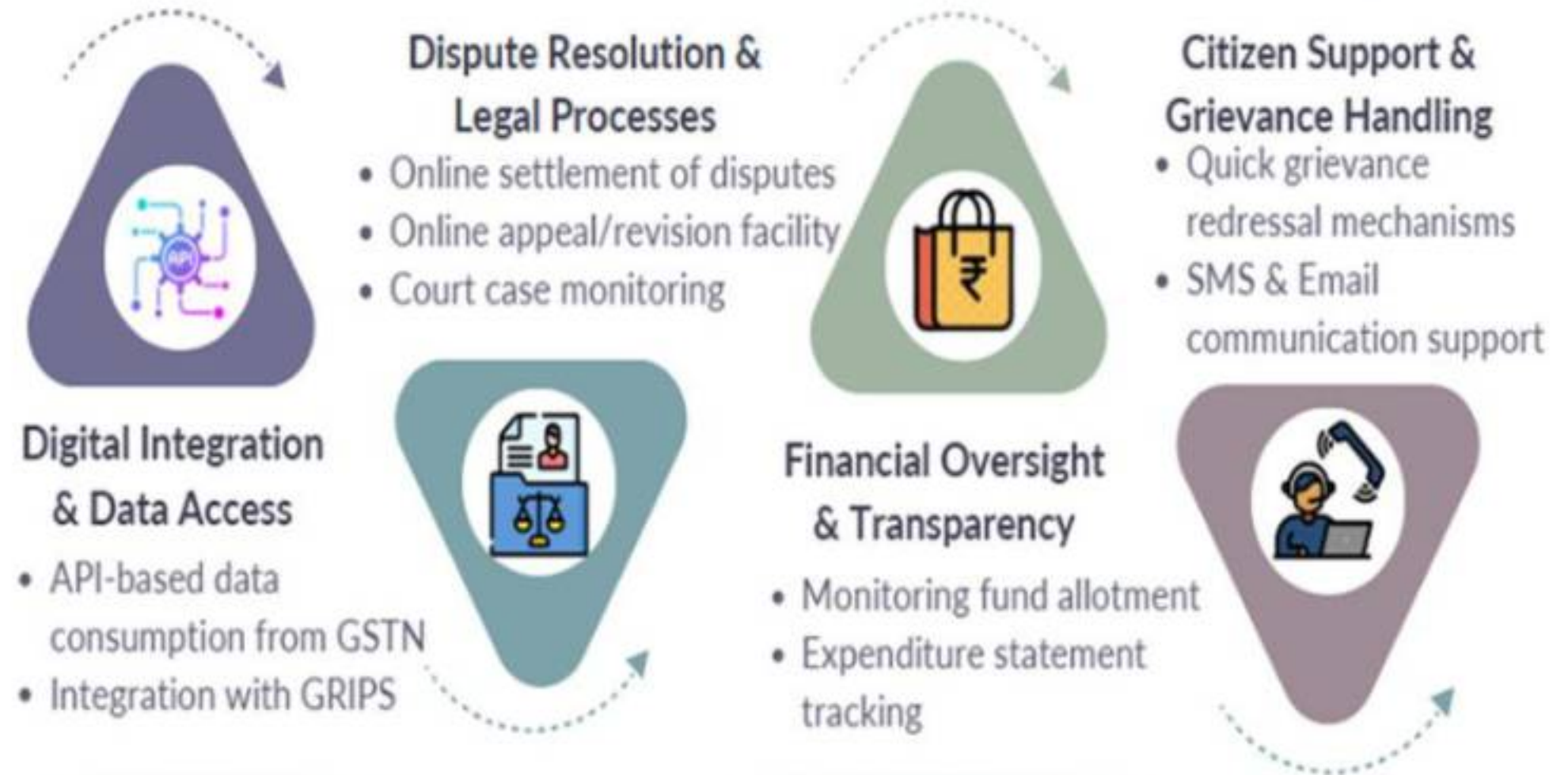
1. The entire process has been revamped, from new applications to allotment license generation, with added functionalities like Treasury-Estate mapping, RHE add, update, delete etc.
2. A new feature for No Objection Certificate (NOC) generation has been developed and implemented as per the requirements of the user department.
3. Offer letter extension updated.
4. Maintenance of live portal to support the user department.

The Department of Housing, West Bengal, offers accommodation through 13,800 RHE flats across 23 districts, with 35 government RHEs (types A, B, C, D, VIP) available in Kolkata. To enhance transparency and efficiency, NIC developed the e-Allotment portal, providing end-to-end digital service from application to QR-based license generation and flat occupancy.

- > No. of Total RHE Flats Across West Bengal : **13,800**
- > No. of Government RHEs Available in Kolkata Region : **35**
- > No. of Flat Types: **A, B, C, D & VIP**

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.

Directorate of Commercial Taxes <https://comtax.wb.gov.in>



Tourism Department Website and 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.



Technology Stack:

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

Type of Application : G2G, and G2C

Achievement : Successfully development and implemented

PROJECT NAME	PRISM ID	PROJECT URL
eGovernance Portal of Govt. Polytechnics	17832	https://polytechnic.wbtetsd.gov.in

HIGHLIGHTS

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.

- ❖ Centralized 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 utilization.



246 Routine Creation	59,322 Class Execution Submission
12 Transfer Application	176 Inventory Management
357 Course File	



Central Project

Project Name	Prism Id	Project URL
e-Transport (SARATHI)		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) Jan.2026 : 9,14,391
- ✓ No. of transactions (SARATHI) cumulative : 4,04,40,448
- ✓ No. of DL issued (SARATHI) Jan.2026 : 48,271
- ✓ No. of DL issued (SARATHI) cumulative : 1,00,92,956

Project Name	Prism Id	Project URL
e-Transport (VAHAN)		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) Jan.2026 : 4,34,349
- ✓ No. of transactions (VAHAN) cumulative : 12,83,25,362
- ✓ Vehicle Registration (VAHAN) Jan.2026 : 1,21,075
- ✓ Vehicle Registration (VAHAN) cumulative : 1,81,38,681



Central Project

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

Highlights

The PUCC Project covers the core activities :

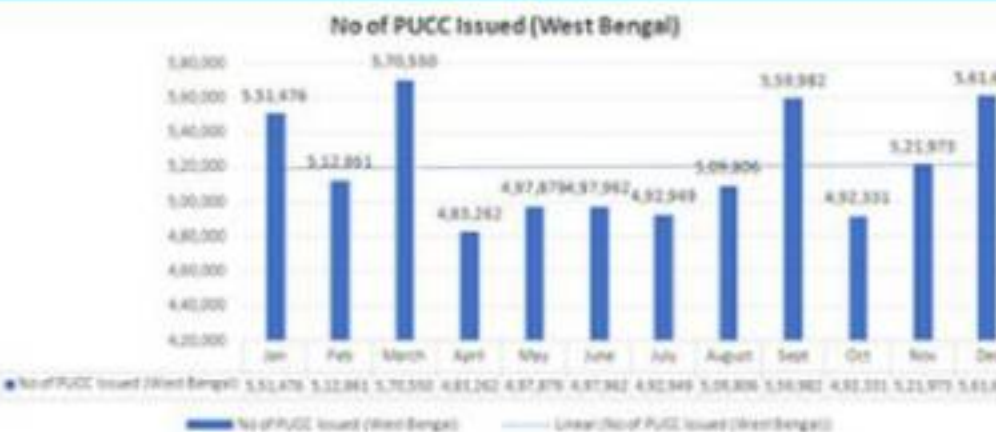
- Pollution Under Control Certificate (PUCC) is a centralized application designed to connect all Vehicle Pollution Checking Centres which issues Pollution Under Control Certificates to vehicles as per Motor Vehicle Act. It facilitates mandatory linking of PUCC status of vehicles with the Centralized 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) Jan.2026 : 91,34,313
- ✓ No. of PUCC issued (All India) cumulative : 41,61,02,899
- ✓ No. of PUCC issued (West Bengal) Jan.2026 : 5,86,708
- ✓ No. of PUCC issued (West Bengal) cumulative: 3,26,36,749



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)		https://vahan.parivahan.gov.in/eDetection

Highlights

The e-Detection Project covers the core activities :

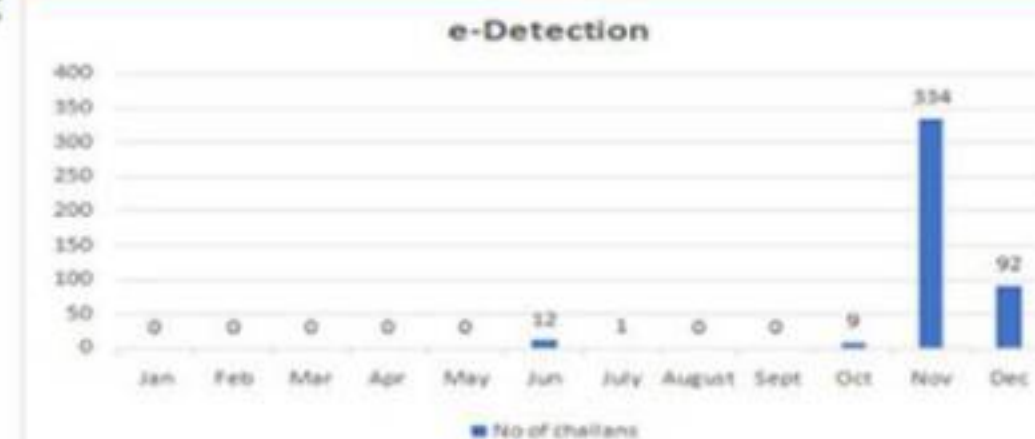
- e-Detection portal detects defaulters (Tax, fitness of vehicle, Insurance) vehicles while passing through toll plaza and then take necessary actions by Transport Department. In West Bengal pilot project has been just started (June-2025) at Debra toll plaza and inaugurated by West Bengal Transport Officials 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.



Technical Stack

Centrally developed

Graph



Statistics

- ✓ No. of challans (e-Detection) Jan.2026 : 223
- ✓ No. of challans (e-Detection) cumulative : 784

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.

Implementation / Benefits of Citizen:

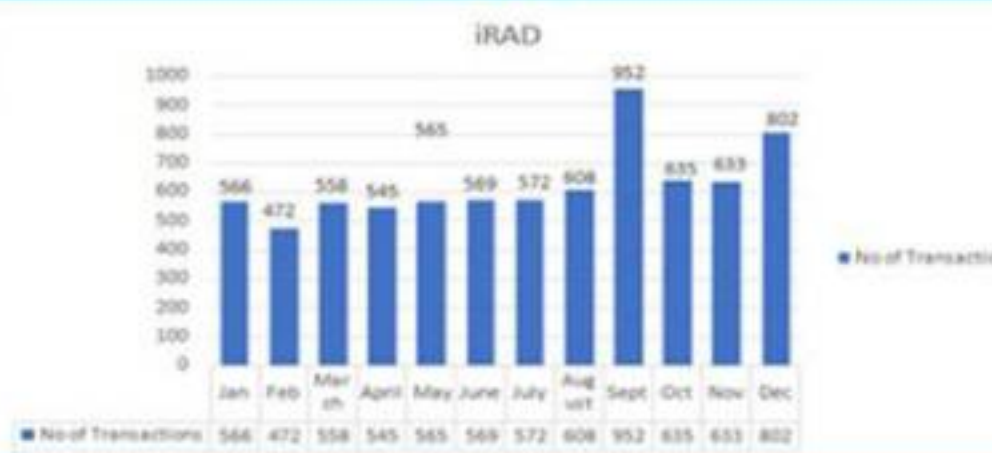
- The insights gained from iRAD are used to inform policy decisions, road safety campaigns, and engineering improvements aimed at reducing accidents.
- iRad/eDAR enhances the value proposition for citizens by making the road accident claims process more efficient, transparent, and less burdensome, ultimately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



Technical Stack

Centrally Developed

Graph



Statistics

- ✓ No. of accidents recorded Jan.2026 : 671
- ✓ No. of accidents cumulative : 18,120

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.

Implementation / Benefits of Citizen:

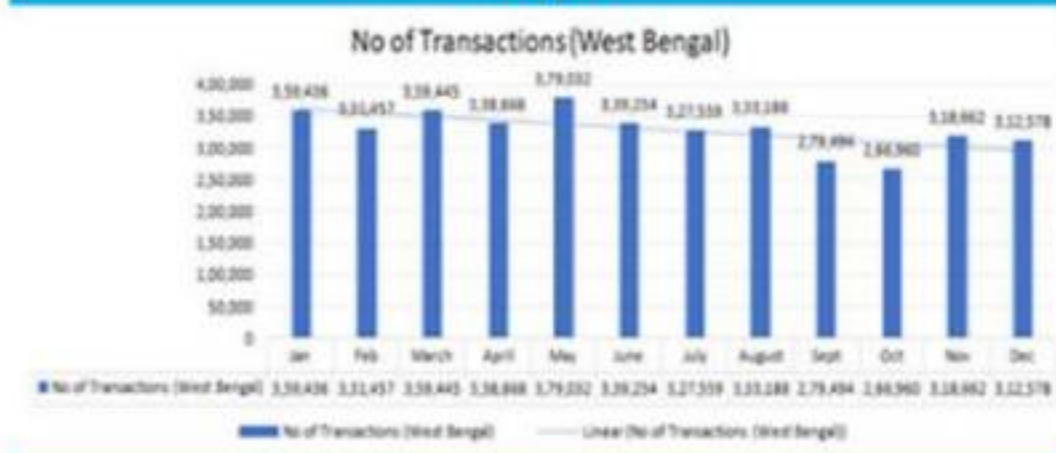
- This is an end-to-end automated system with digital interface for all the stakeholders in purview of challan eco-system. The application offers customized interfaces for the following stakeholders:
- Connecting all the stakeholders through a common system will ensure data integrity, reliability and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



Technical Stack



Graph



Statistics

- ✓ No. of e-Challans Jan.2026 (All India) : 77,61,455
- ✓ No. of e-Challans cumulative (All India) : 36,40,39,634
- ✓ No. of e-Challans Jan.2026 (West Bengal) : 2,81,912
- ✓ No. of e-Challans cumulative (West Bengal) : 1,03,01,365

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
- Demonstration to The Transport Department



Technical Stack



Graph

In development stage

Statistics

✓ In development stage

Implementation / Benefits of Citizen:

✓ In development stage

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 e-Mails

District Courts at a glance



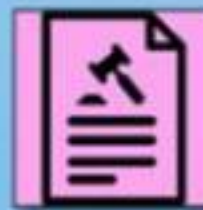
Court Complexes:
92



Cases in DB (pending & disposed): **10042742**



Court Establishments:
277



Orders: **14354172**

• Till 05th Jan.. 2026 morning

High Court at Calcutta

Bench	Institution (In Dec. 2025)	Disposal (In Dec. 2025)
Principal Bench , Original Side	510	470
Principal Bench , Appellate Side	2332	5965
Circuit Bench at Jalpaiguri	922	460
Circuit Bench at Port Blair	70	115

E-filing count (as on 31st Dec.,2025): 350 Main Case & 906 Applications

(Hon'ble High Court at Calcutta)

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

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.

- **Total Plots:** 76,986
- **Acquired Area:** 35,734.4927 Acre
- **Total Khatians:** 15,738
- **Total Owners:** 8,508

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



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, GoWB.

AREAS OF ACTIVITIES

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

Implementation / Benefits of Citizen:

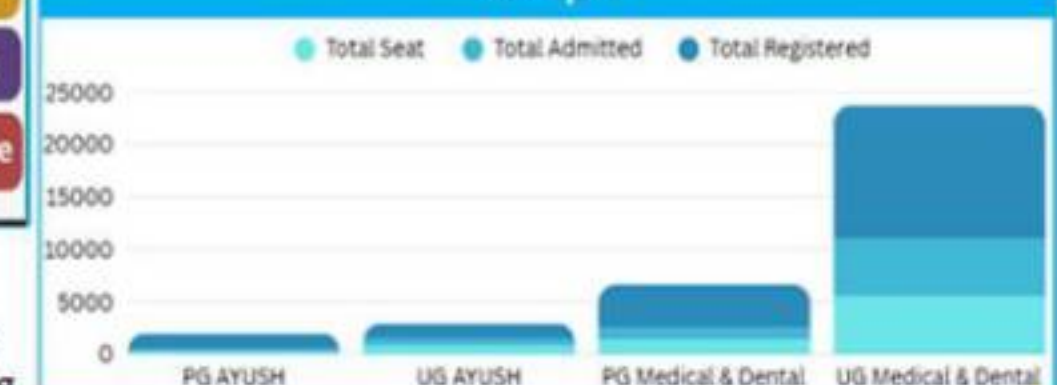
- ✓ Ensures fare and real time allocation of medical seats through a centralized, rule-based system, eliminating manual errors
- ✓ Enables student to complete registration, choice filling, document verification, and admission tracking entirely online – saving time and travel
- ✓ Providing dynamic vacancy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



Technical Stack



Graph



Statistics

- ✓ No. of Counselling Projects: 5
- ✓ Total Seats : 8,589
- ✓ Total candidates : 26.44 Lakhs
- ✓ Total Registered Candidates: 20,363
- ✓ Total Revenue: 3.78Cr.
- ✓ Total Admitted: 7,719



Platform: Word Press(PHP: 5.6),PostgreSQL: 15.10

Web Application of the Department of Power

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

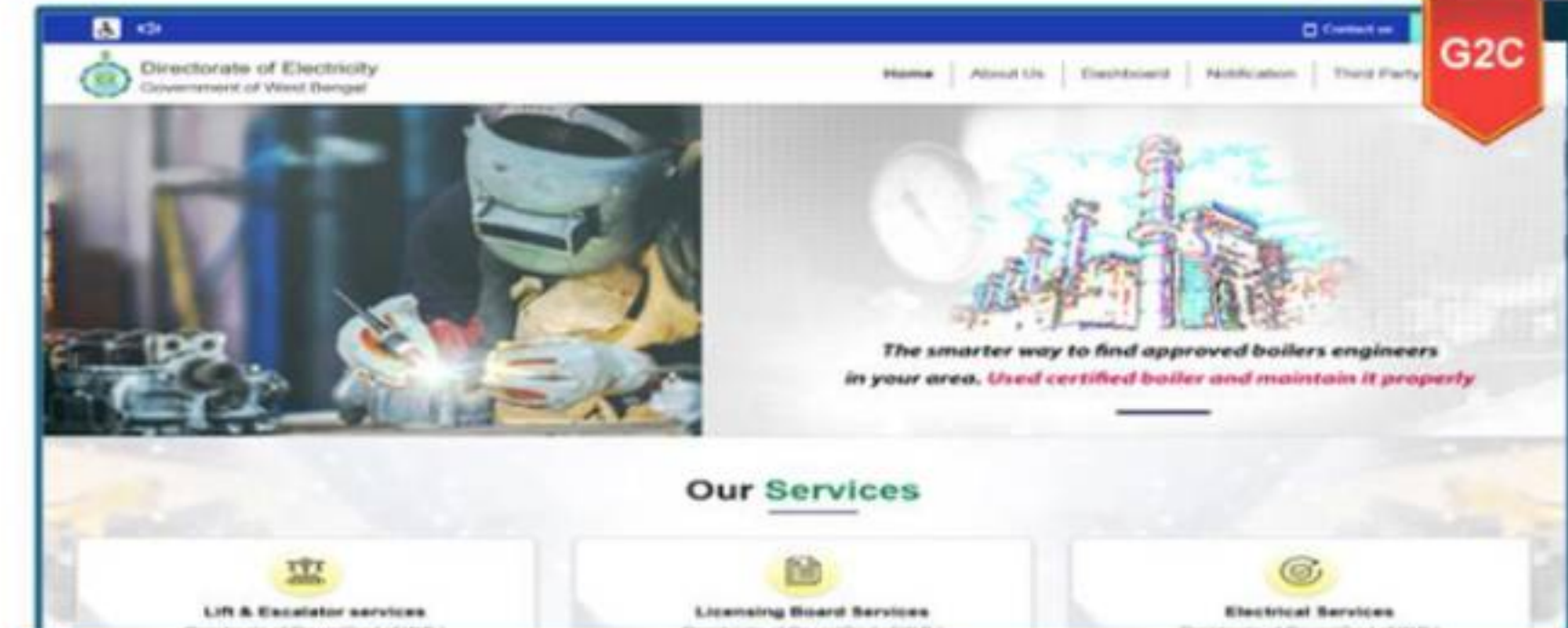
Prism ID: 21203

The Department of Power, Govt. of West Bengal, manages electricity generation, distribution, and regulation. Its portal offers online services like licensing, new connections, and grievance redressal. The ICT platform ensures transparency with digital applications, payments, and certificate issuance.

- No. of Consumers across West Bengal : **1.8 Crore+**
- No. of renewable energy projects under implementation : **100 MW+**
- No. of Major Utilities : **4 (WBSEDCL, WBSETCL, WBPDC & CEI)**

Enhancement done in brief

1. Website revamp in progress
2. The revamped website has been submitted for audit.



Platform: CodeIgniter 3(PHP 8.2.29), PostgreSQL: 15.10

e-Services of Directorate of Electricity, Department of Power

<https://doepower.wb.gov.in> * <https://tathyasathi.bangla.gov.in>

Prism ID: 21203

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.

Enhancement done in brief

1. Working on Maintenance of Lift services
2. Modification of workman services.
3. Special report generated.
4. **Total no. of License Delivered for Lift & Escalator Services - 63364+**
Total no. of License Delivered for Licensing Board Services - 67231+
Total no. of License Delivered for Inspection Services - 4112+



Modified West Bengal Textile Incentive Scheme, Directorate of Textile

Prism ID: 21257

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

The Directorate of Textiles, West Bengal, oversees development across handloom, powerloom, hosiery, silk weaving, and garment sectors. Through the WBTIS portal, the government extends fiscal incentives to bolster the entire textile value chain—from raw fiber to finished garments.

Enhancement done in brief

1. Development of user module.
2. Regular maintenance and fix bugs.
3. **Total no. of Registered Users: 135**
Total no. of Applications: 158
Total no. of Approved Application: 23
Total no. of Approved Amount: 3.947378 crores



e-Services for Marketing Incentive, Directorate of Textile

Prism ID: 21211

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

The Marketing Incentive Scheme supports West Bengal's handloom sector by promoting sales, improving competitiveness, and boosting productivity. Jointly funded by the Government of India and Government of West Bengal (50:50), the scheme offers 10% incentive on average sales turnover to eligible handloom agencies for up to 3 years. This helps handloom cooperatives upgrade infrastructure, attract customers, and grow sustainably. The project is under development.

Enhancement done in brief

1. Reviewed existing UI layouts and identified alignment, spacing, and responsiveness issues across multiple pages
2. Identified and resolved functional bugs reported during testing and user feedback.
3. Reviewed existing report sections and identified issues in data display and formatting and resolved that.



Portal for Youth Services and Sports, Department of Youth Services & Sports

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

Prism ID: 21226

To create scope and opportunities for the overall benefit of the youth in order to lead them to the right path enabling them to serve the nation and to promote and inculcate sports culture among the youth of the state through competitive spirit, camaraderie and sportsmanship.

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

Enhancement done in brief

1. Maintenance work.
2. Validation changes as per requirements
3. Database update
4. Static image updates



e-PBGSBS Management System, Department of Animal Resource Development

<https://pbgsbs.gov.in>

Prism ID: 21228

Paschim Banga Go-Sampad Bikash Sanstha is a state initiative for breed improvement, cattle health, and livestock development. It enables scientific cattle breeding, AI services, insurance, and farmer support through digital monitoring systems.

Enhancement done in brief

1. Prepared and uploaded the report to the Social Registry on beneficiaries and transactions for two schemes for the 2025–26 session (up to January 2026).
2. Developed and deployed the Support Ticket Module (live).
3. Completed modifications in the Calf Born Verification module.
4. Currently working on modifications to the AI Activity Module to include ABIP-SS scheme AI and CB.
5. Module-specific template modifications are ongoing.
6. Working on modification of Summary report modules to include new features.
7. Prepared departmental reports and handled other related work.

- Total AI Workers & Pranimitras registered: **22,004**
- Total calves born reported: **1,835,661**
- Total cattle tagged in the system: **8,144,967**
- Total SMS pulled into the system: **24,327,663**
- Total artificial inseminations performed: **9,964,839**
- Total SMS pushed from the system: **29,319,547**



<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.

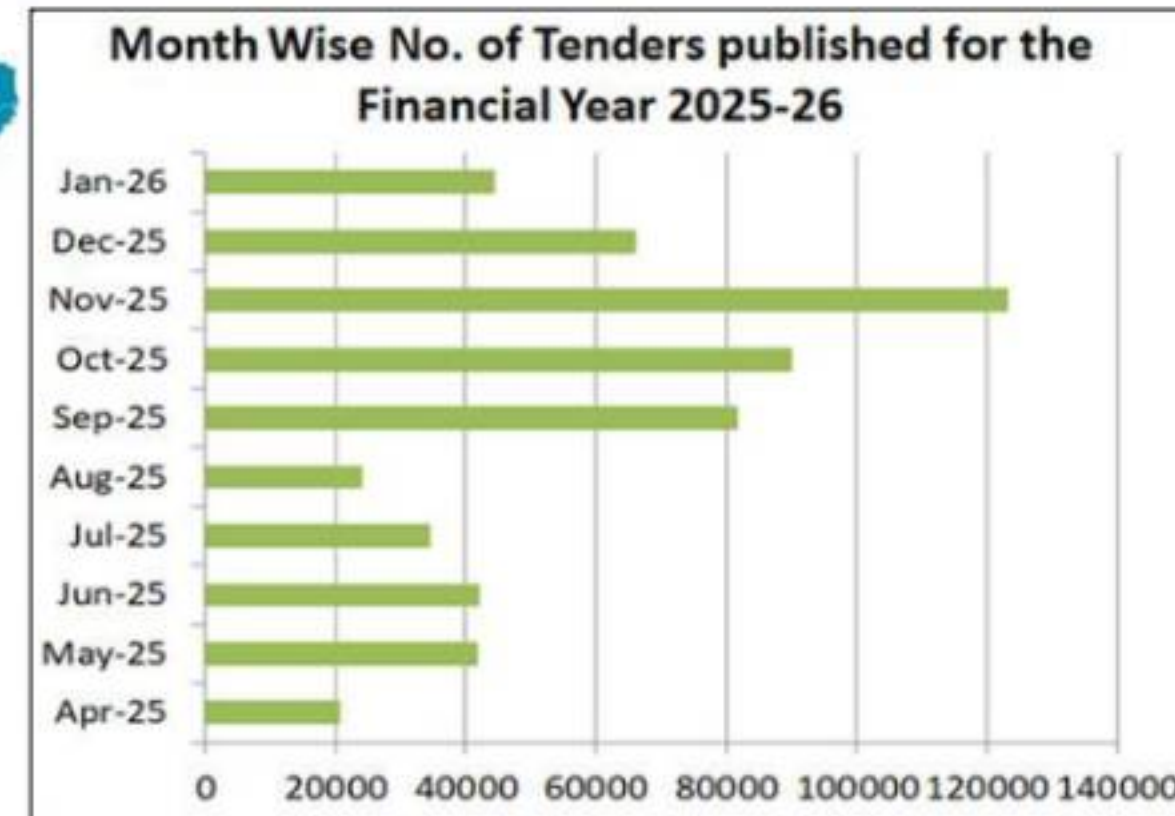
TRAINING SESSIONS IN DECEMBER 2025

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

G2G
G2C

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





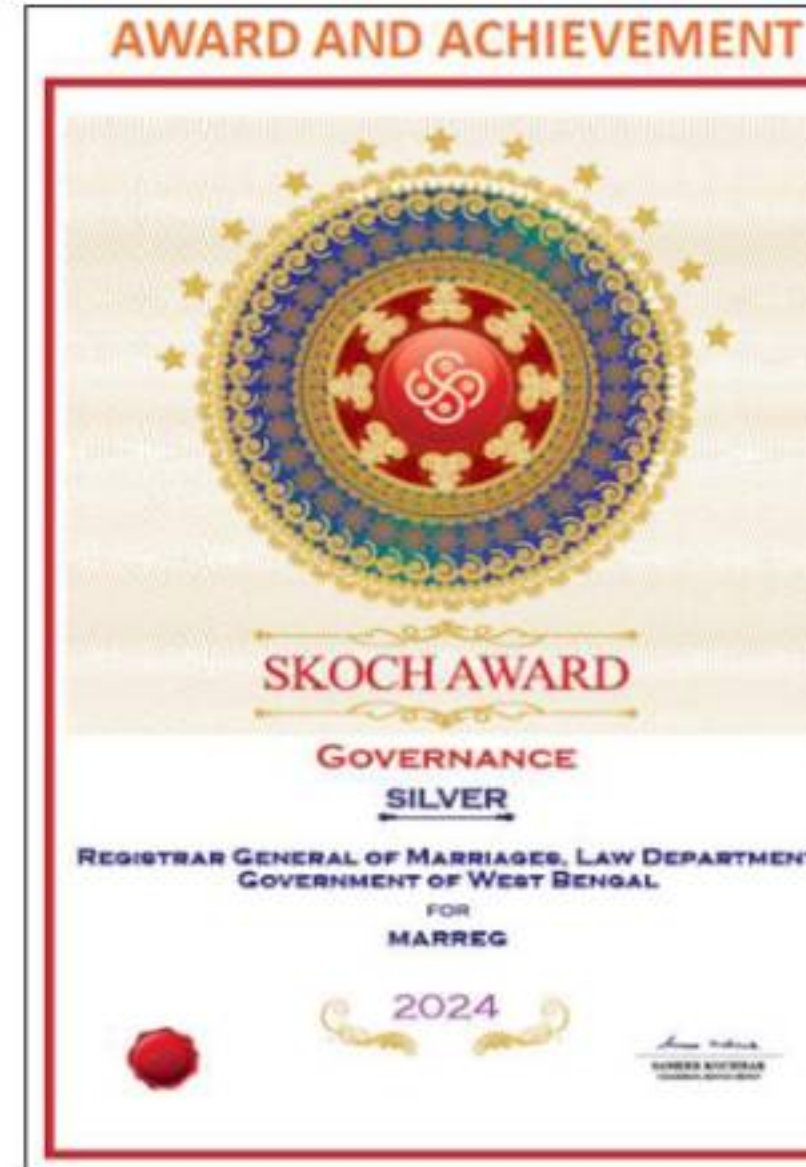
MARRIAGE REGISTRATION IN WEST BENGAL

<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



Government of West Bengal
Law Department
Registrar General of Marriages

MARREG

Register Your Marriage

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

Statistics:

- Certificates Generated from 01 January of Current Year: **114460**
- Certificates Generated from 01 of Current Month: **150**
- Service Fee: **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)

Child Marriage Reporting and Tracking System V 1.0

G2G



The screenshot shows the login interface for CMRTS Online 1.0. It includes a title 'CMRTS Online 1.0', a 'Username' field, a 'Password' field, a 'Sign In' button, and a 'Forgot Password?' link. A captcha verification system is also present.

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

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

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

Impact:

- Total No. of Interventions reported in CMRTS portal: 12602
- Home Enquiry Done: 10499
- Followup Done: 42215

Appcoms and Dynamic Web site of West Bengal Information Commission

G2G
G2C

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

Type of Application : G2G, and G2C

Achievement: Successfully development and implemented since the Year 2023.

eOffice - Government of West Bengal

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

G2G



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
- ✓ WBSEDCL

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.

Statistics

Product	Parameters	Dec., 2025	Jan., 2026	Cumulative since inception
eOffice for Govt. of West Bengal +Districts_KP+WBP	Total No. of Users	66	2350	49709
	eFile Created	28402	22703	1648966
(NICS1 Project ID: S170963E0WB)	eReceipt Created	176358	147314	9079244
	eFile Moved	896078	776225	40554741
	eReceipt Moved	14501289	12679150	378006624

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.

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

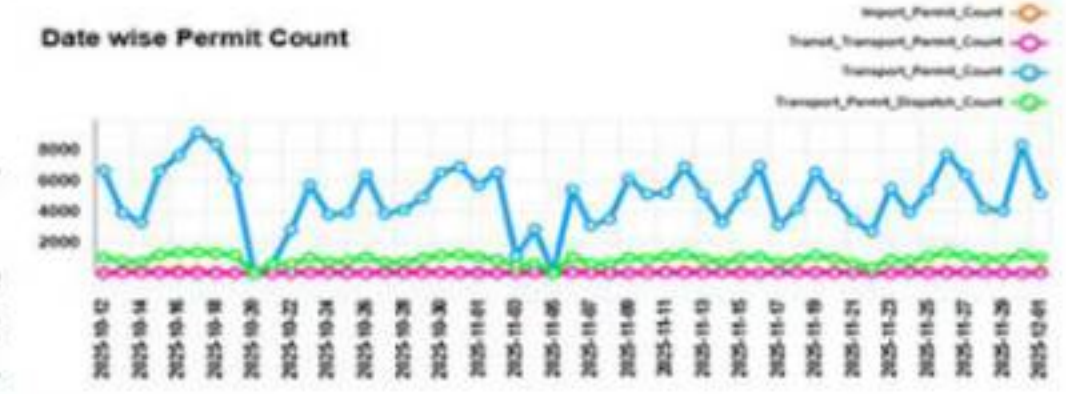
- ✓ No. of Licensees: 4,165
- ✓ No. of Permits : 17,35,619
- ✓ Corporation Bottle Sold : 62.94 Cr.
- ✓ HCR Bottle sales : 5.07 Cr.
- ✓ Country Liquor sales: 2.25 Cr.
- ✓ Total Revenue : 7,152.92 Cr.



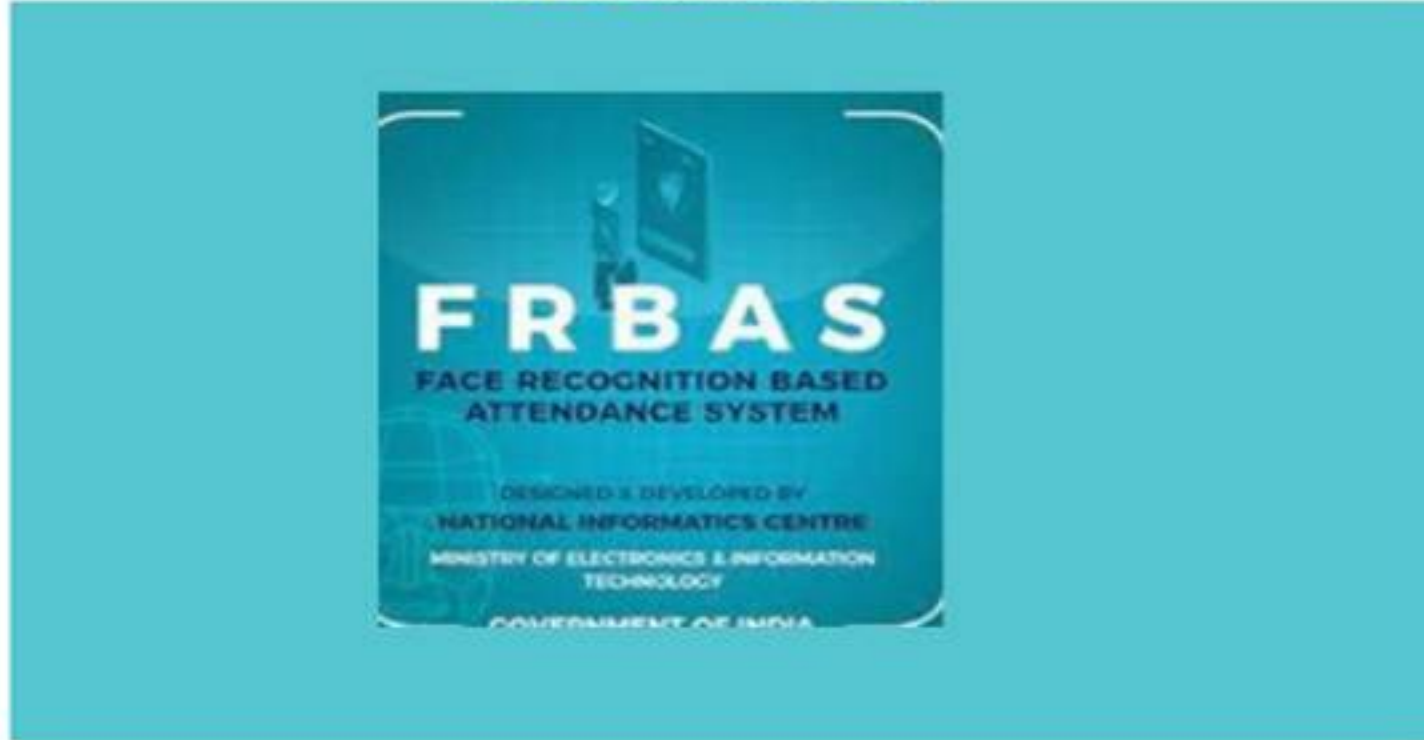
Technical Stack



Graph



G2G and 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.

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

G2G and G2C



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

AI Shirshank

- Facilitates estimation of number of persons present in a photograph using an AI-enabled mobile application in both online and offline mode.
- Being implemented in NREGA Mobile Monitoring System (NMMS) of MoRD.



G2G



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

- 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

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

G2G



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

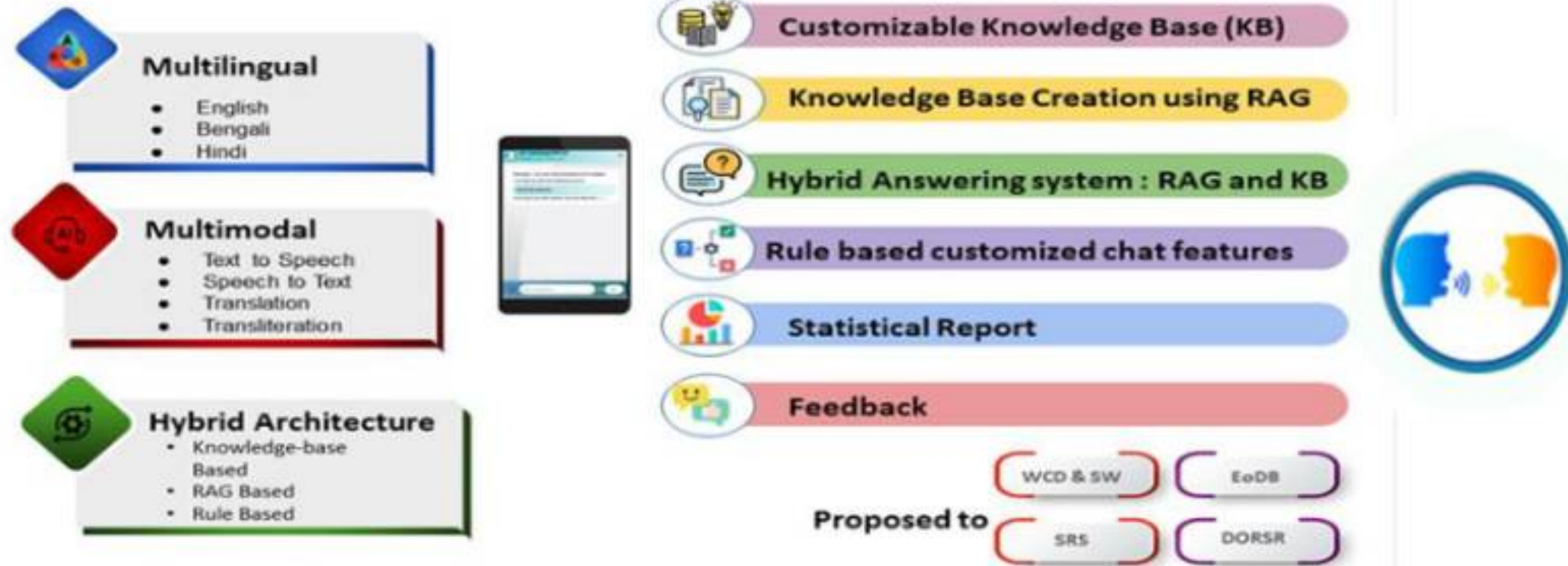
AI-enabled Services for NextGen Rupashree Online 3.0

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



G2G and G2C

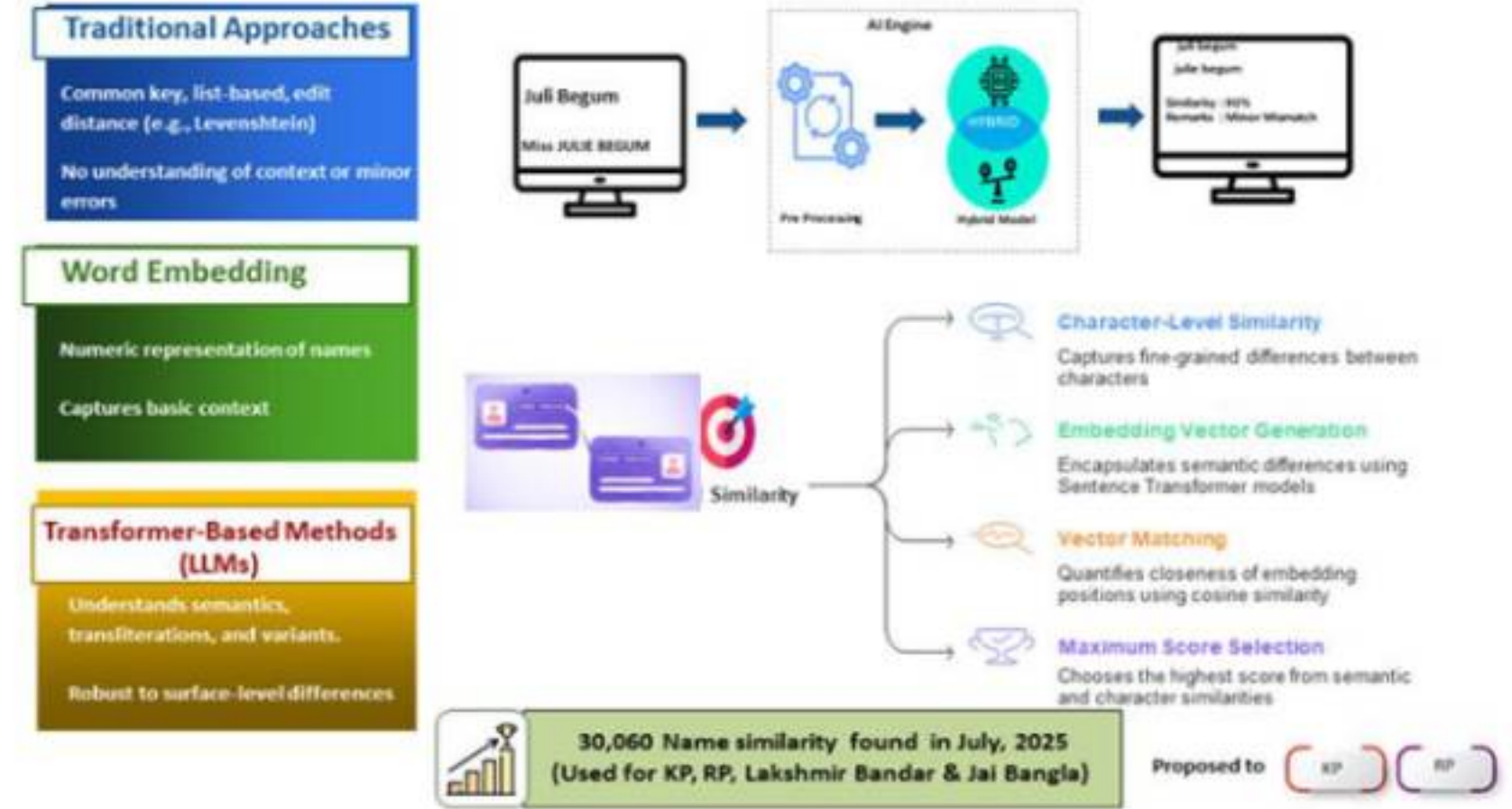


Technology Stack : Python, Milvus Vector DB

AI Sanlaap: Conversational AI-based Multimodal Multilingual RAG-enabled Chat & Voicebot Framework of NIC

- 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.

G2G



Technology Stack : Python, Levenhstein Distance & Cosine Similarity

AI Anurup : An AI based Name Matching Service

- 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.
- 2.85 lakh API hits records till date

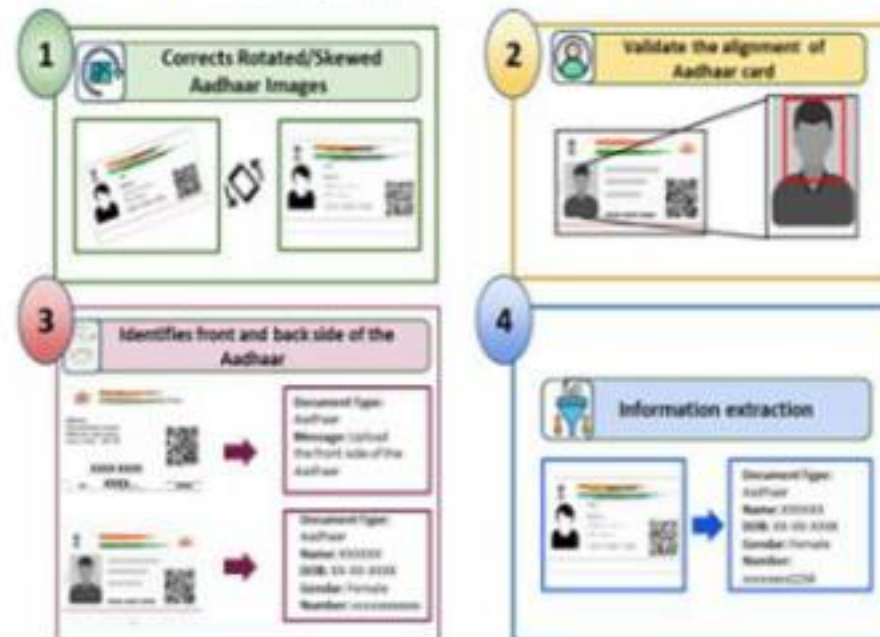
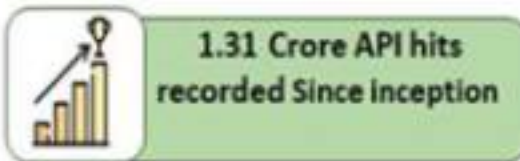
G2G



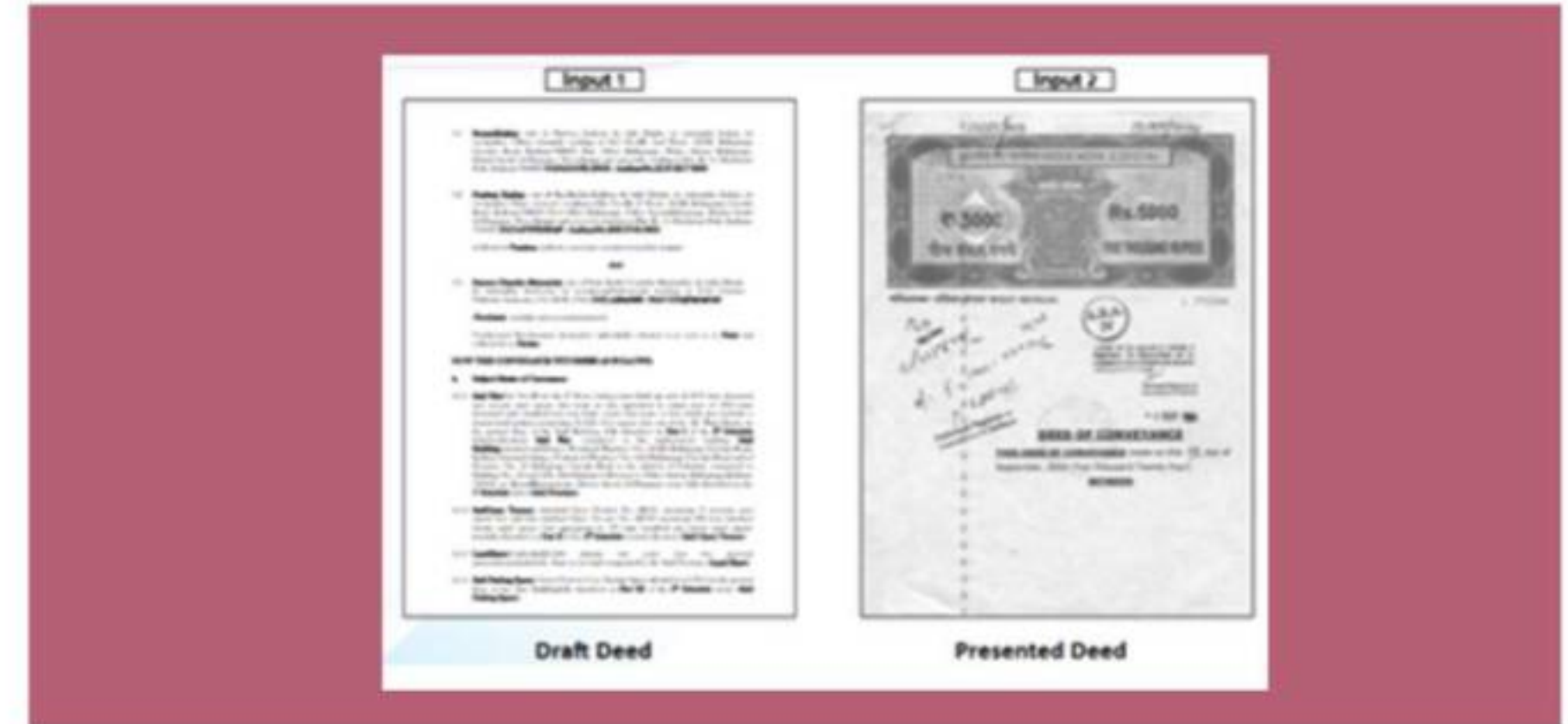
Technology Stack : Python, Ultraletix, Paddle OCR 8, ONNX

AI Abhigyan : An AI based text extrcation system

- Enables automatic extraction of Personal Identifiable Information (PII) from Aadhaar Cards and other Identity Cards like PAN, Voter Card, Passport.
- Implemented in NextGen Kanyashree Online 9.0
- Implemented in NextGen Rupashree Online 3.0
- 3.28 lakh API hits recorded in FY 2025-2026.



G2G

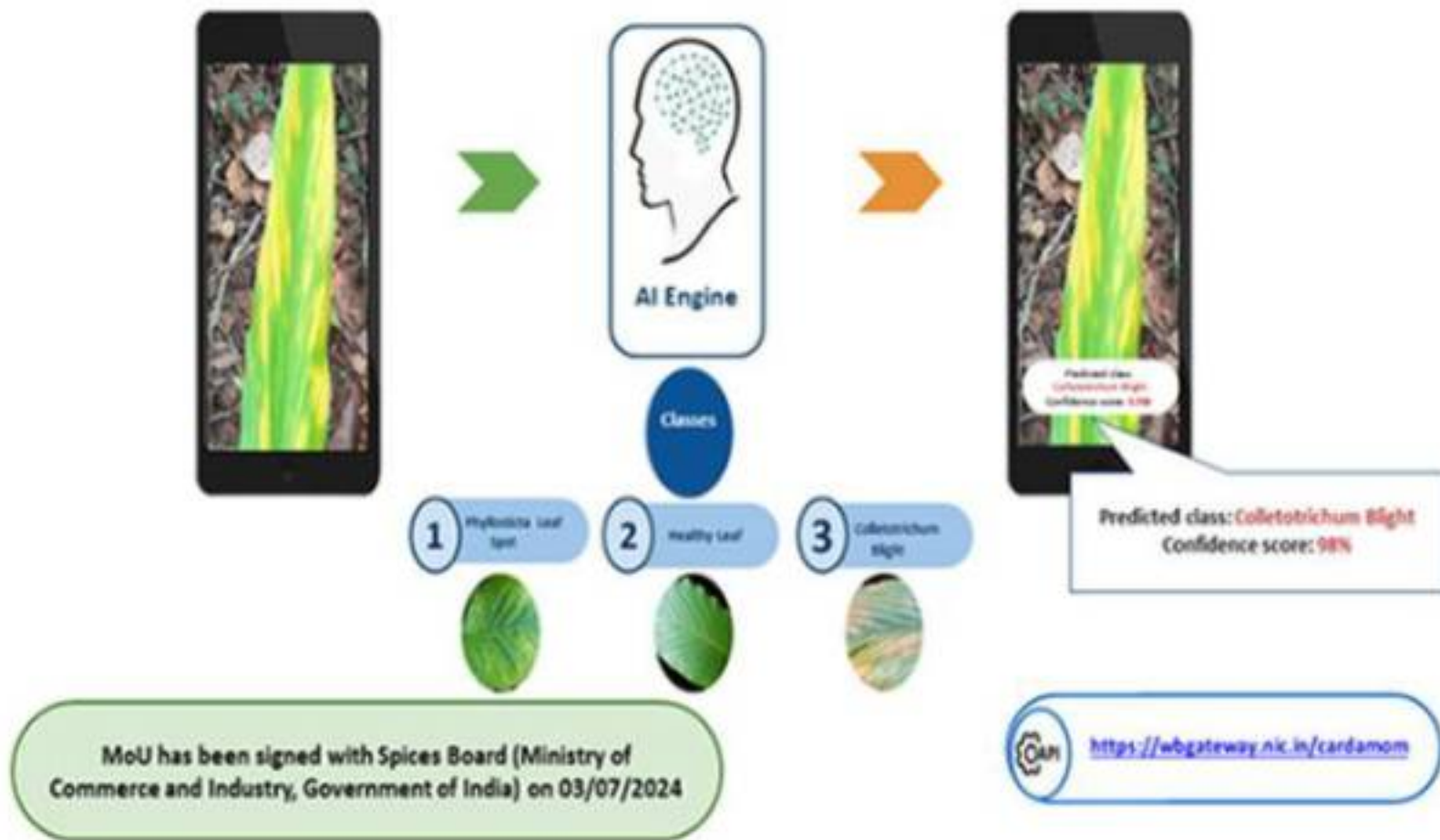


Technology Stack : Python, Langchan, Ollama, Faiss, Tesseract OCR

AI enabled Services for Property Registration

- 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

G2G and G2C



Technology Stack : Python, Ultraetix, YoloV8

AI enabled Cardamom Leaf Disease Detection System

- 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.

G2G and G2C



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

AI based Crop Image Anti-spoofing System

- 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>

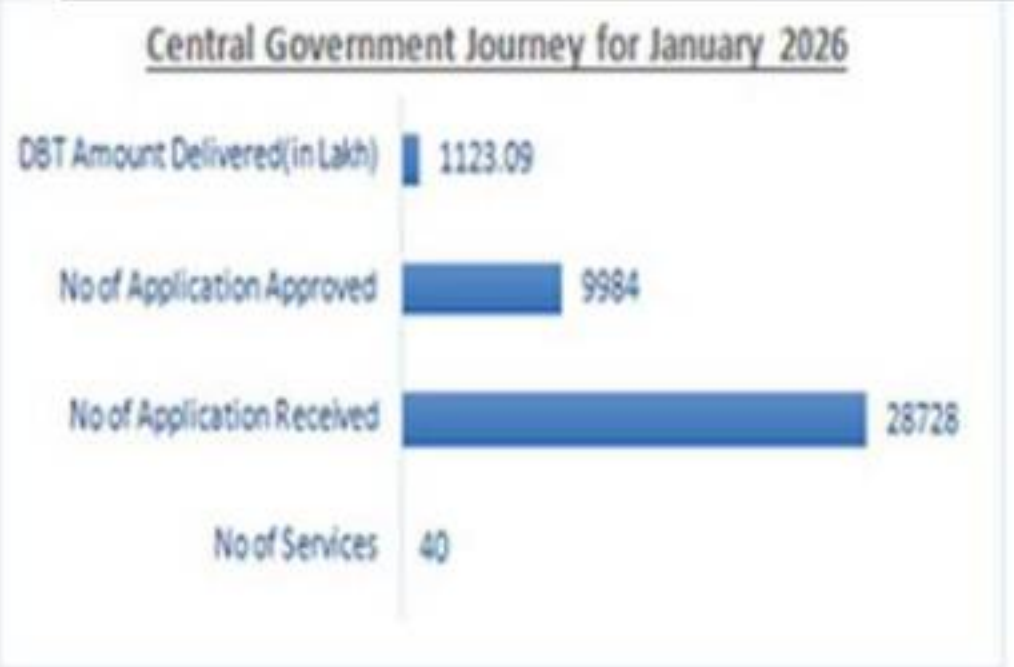


HIGHLIGHT

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.
- **Twenty two (22) E-governance Services for Govt of West Bengal are currently running online.**



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

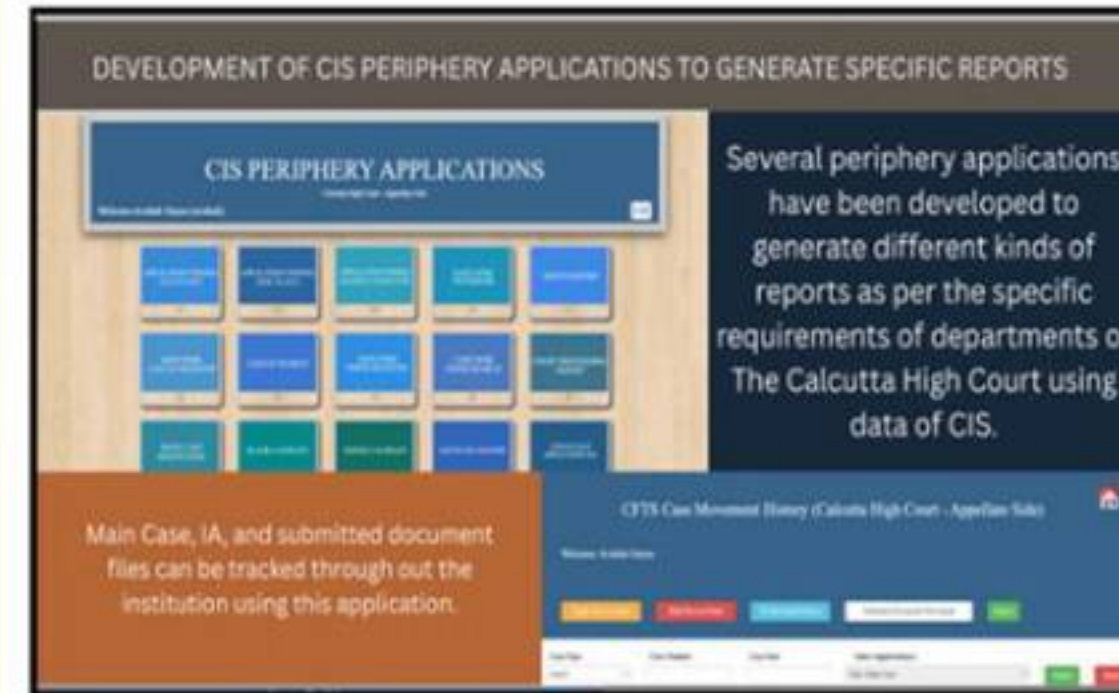
IT initiatives at Calcutta High Court



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



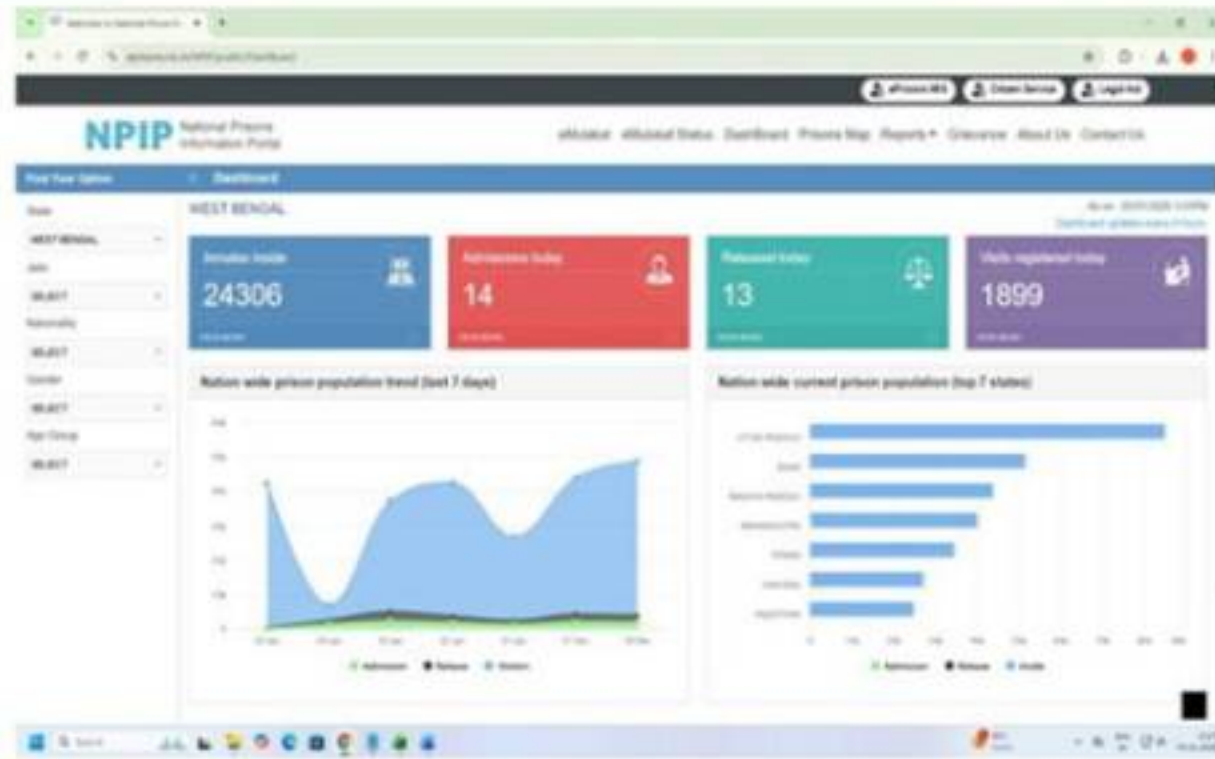
Display board of Calcutta High Court
(<https://display.calcuttahighcourt.gov.in>)



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



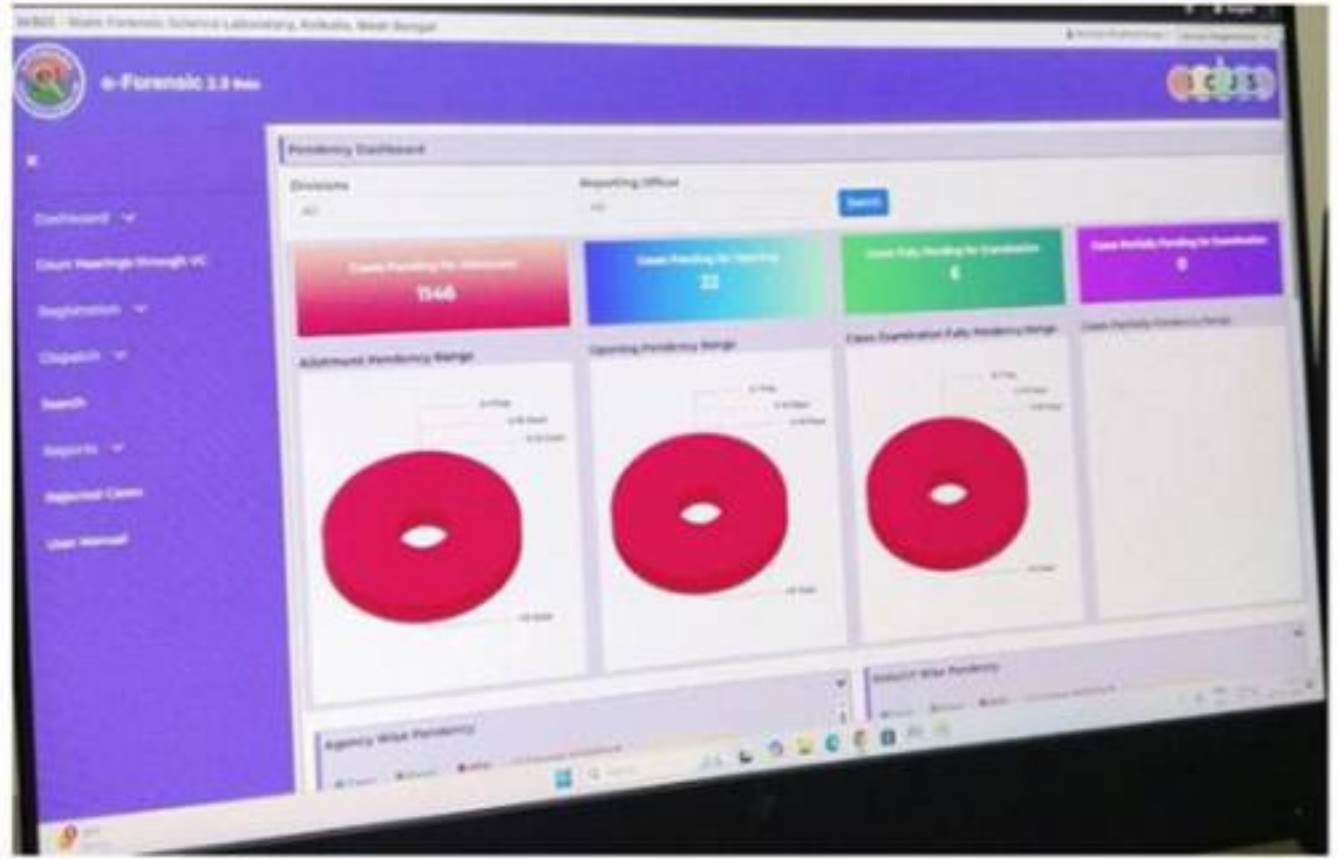
<https://eprosecution.gov.in/eprosecution/>

- 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

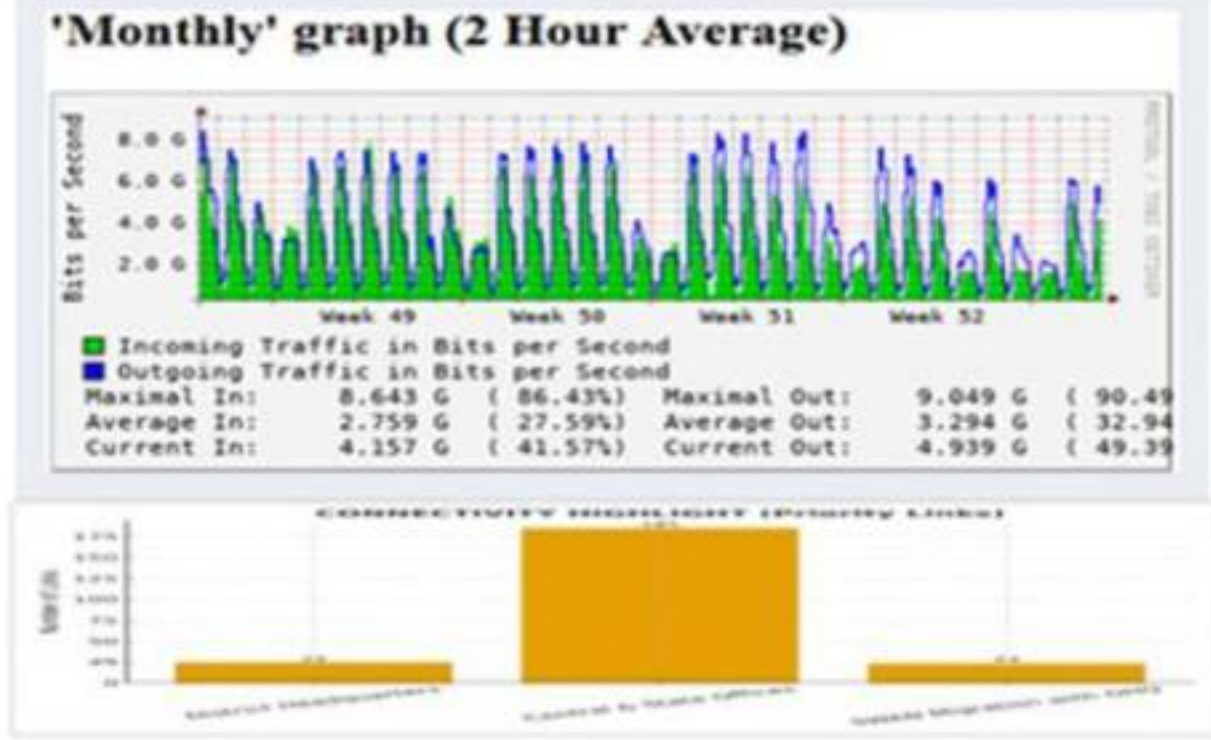
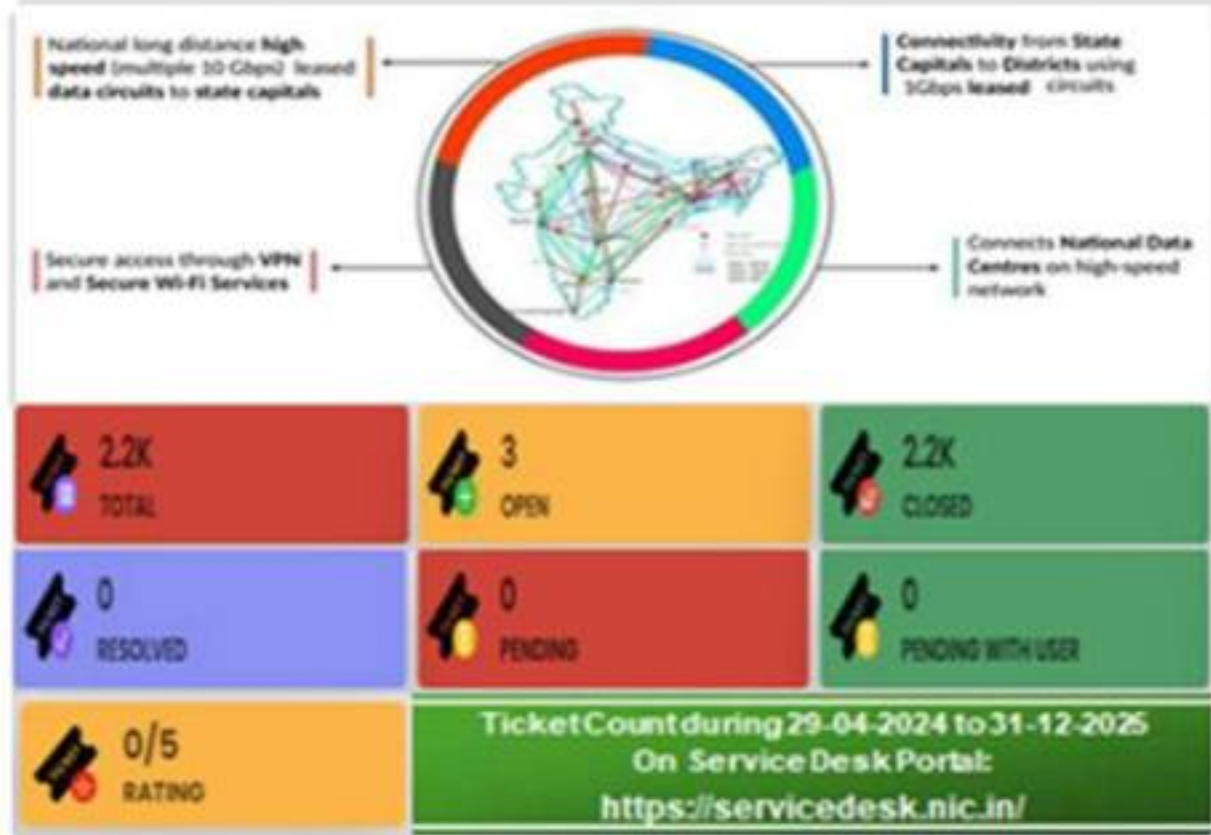
<https://eforensics.gov.in/fslall/>

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





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.	20	401	236
VC meetings of Central Govt.	19	27	20
VC meetings of CIC	26	7	32
Total	65	436	288

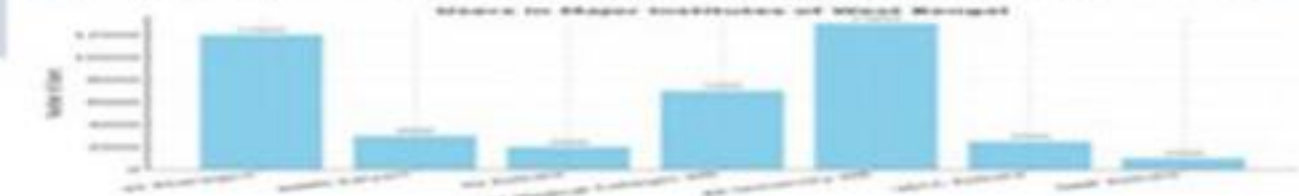
Total VC Meetings of West Bengal



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.



Mini-Cloud Kolkata Summary

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

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 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**.

❖ **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**.



9.09+ Crore
API calls so far

102+
APIs published
on NIC West
Bengal gateway
so far

16+
Forms received
for Sandbox
Tenant account
so far

50+
Products
published on NIC
West Bengal
gateway so far

- 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.



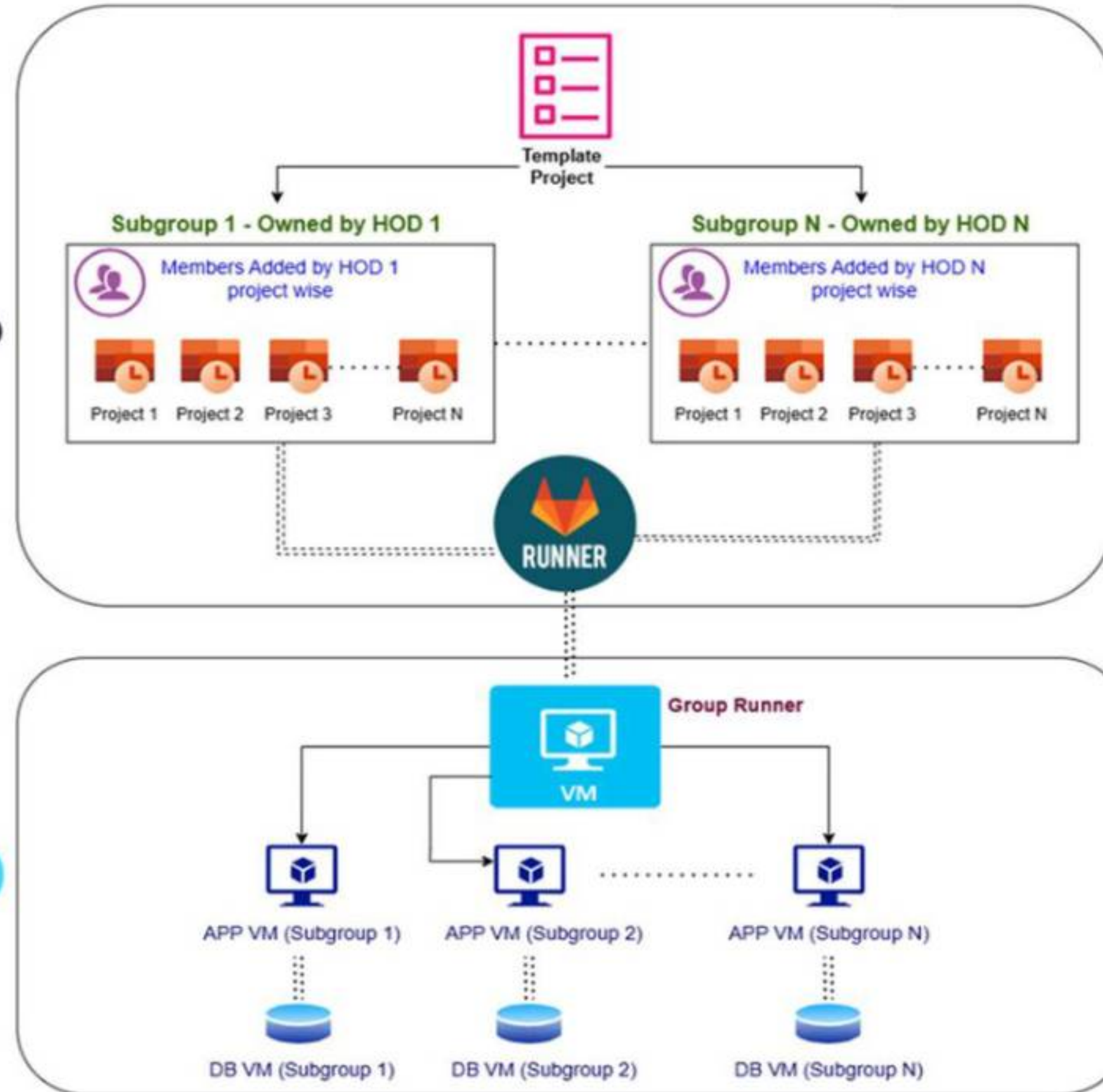
(State Project)

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

Architecture

 **WB GitLab**


Mini Cloud





Kubernetes Administration - Supercomputing

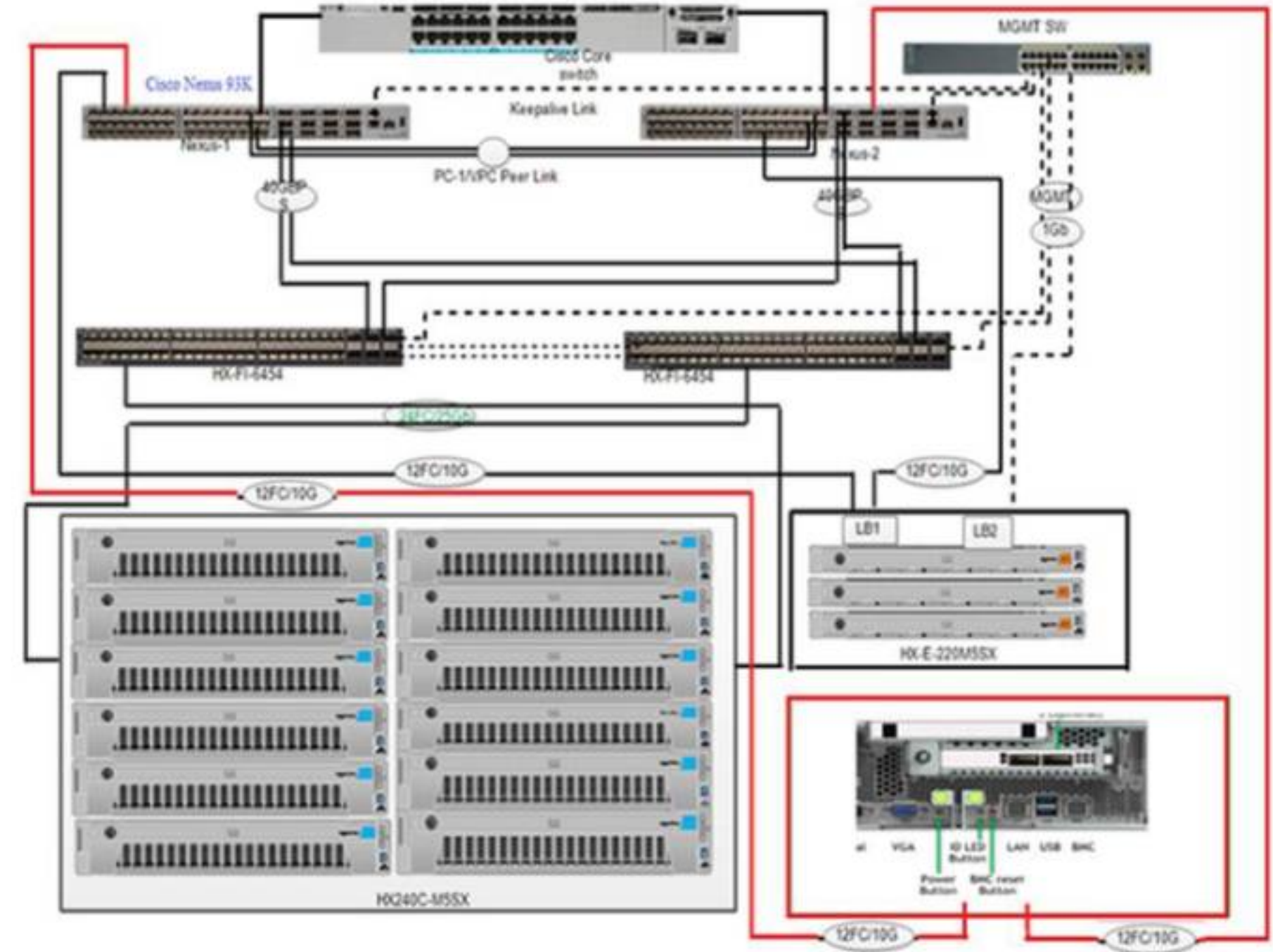
DGX A100

60+
POD(s) are running

320 GB GPU
Total of 8 GPUs with
320 GB of GPU
memory.

75+
AI training and
inference services
are operational.

23
MIG instances have
been created on the
Kolkata DGX A100
with varying GPU
memory.



Architecture of Kubernetes master and DGX A100 worker node are housed within a mini-cloud network.

Online Indian Citizenship

G2G
G2C

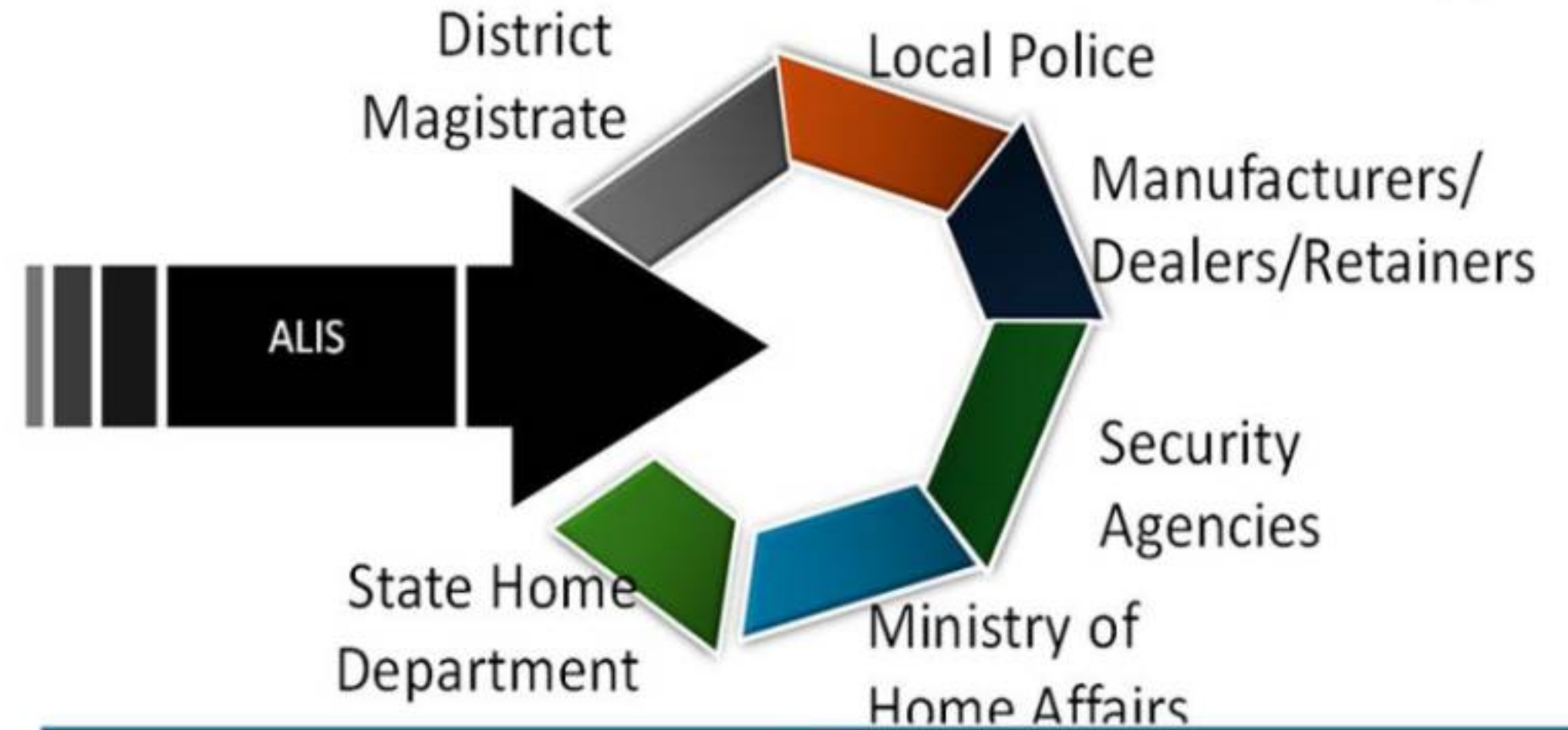


Indian Citizenship G2G & G2C

- 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

Arms License Issuance System

G2G
G2C



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/REVOCATION OF ARM'S LICENSE			
TOTAL APPLICATION	2930	TOTAL PROCESSED APPLICATIONS	2900

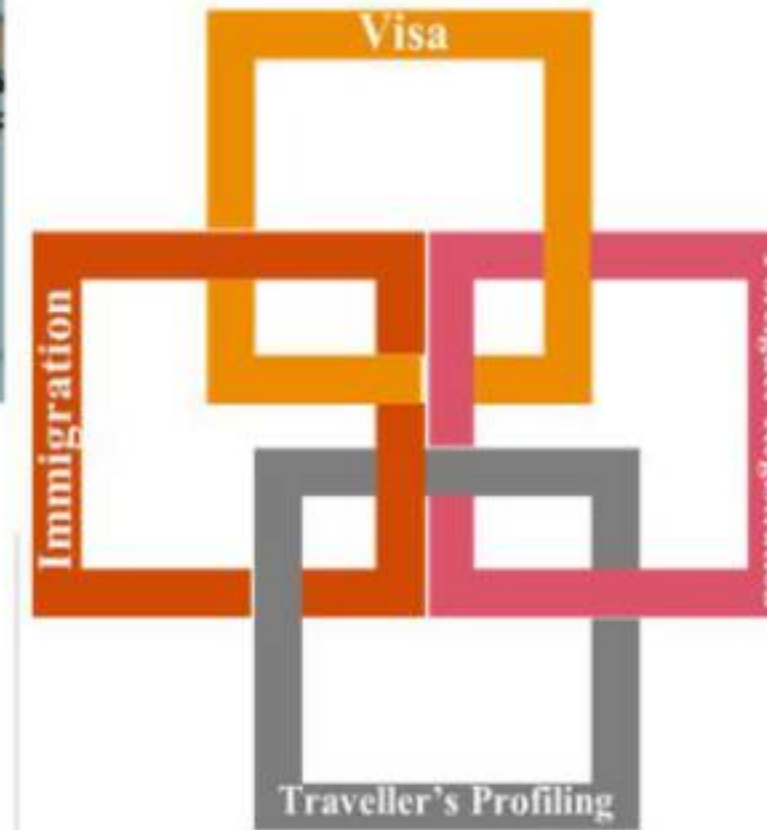
IVFRT

Immigration,
VISA,
Foreigner's
Registration
and Tracking



G2G, G2C & G2F

“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.



STAKEHOLDERS

- 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)

COMPONENTS

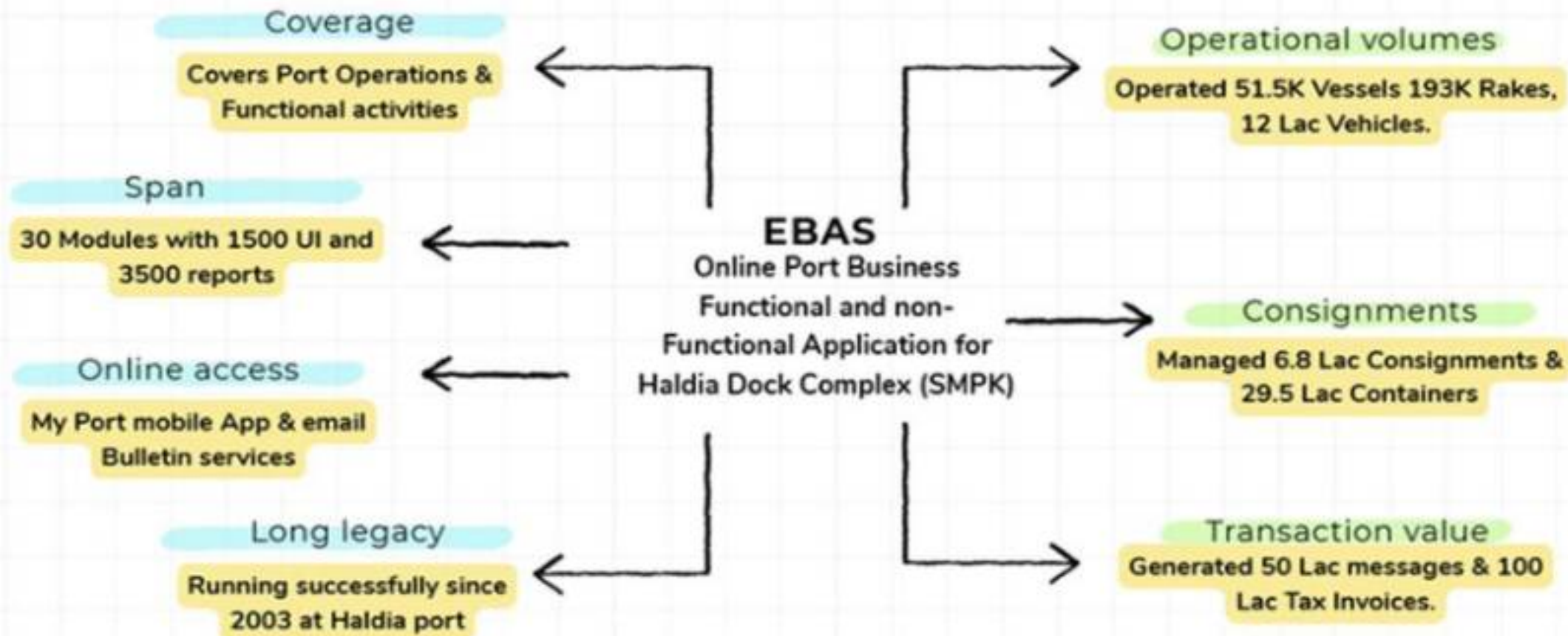
West Bengal ICP Statistics At A Glance

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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National Port Project developed in West Bengal



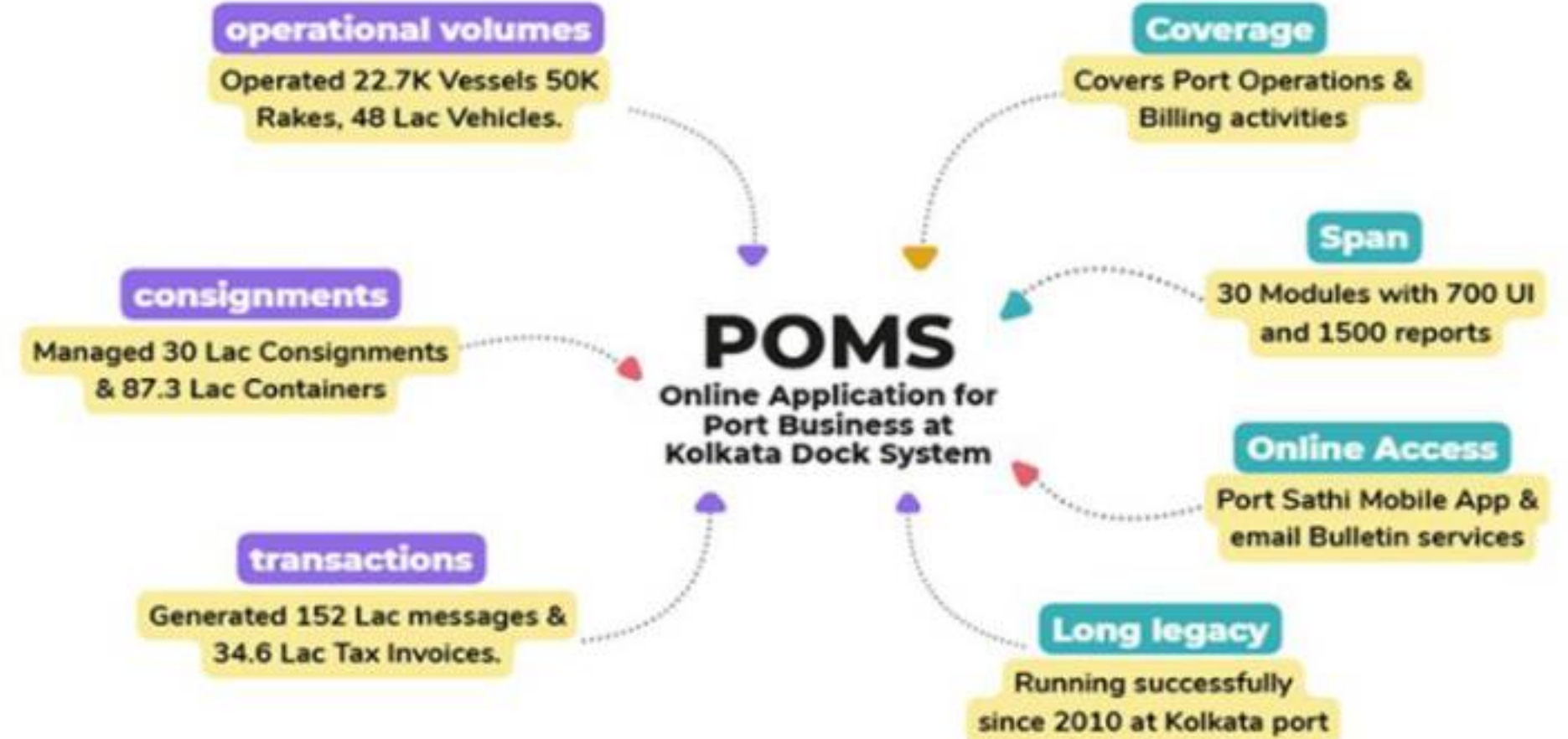
Enterprise Business Application System



<https://hdceodb.smporkolkata.in>



Port Operations Management System



<https://kdseodb.smporkolkata.in>



Kolkata District Portal

Domain Allotted: <https://kolkatacollectorate.gov.in>

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

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.

District Specific Activities

- **Kolkata Collectorate Website(S3WAAS)**
 - The migration of the Kolkata Collectorate District website to the S3WAAS platform has been approved and is now awaiting registration of the fourth-level domain (kolkatacollectorate.wb.gov.in). The domain request is currently pending with the User Department and the State IT Department.
- **eAbgari - End-to-End Online Solution for Comprehensive Transformation of State Excise**
 - Ongoing change requests are being addressed in the Country Liquor and M&TP modules. Integration of Object Storage across all project modules is in progress. Final UAT approval from the department is awaited.
- **DevSecOps- Multi-Stack DevSecOps Platform as a Service for NIC, West Bengal**
 - Several new HODs have onboarded their teams and projects onto the new DevSecOps platform of NIC-WB. Continuous support and guidance are being provided to facilitate initial deployments within the NIC WB Mini Data Centre infrastructure.
- **AI Sanlaap –AI-powered conversational platform or chatbot**
 - Development of the AI-based Sanlaap Chatbot for the EODB Department using a newly designed modern, scalable architecture that ensures high availability and restricts data access to the respective departments through structured data segregation.



Malda District Portal

URL: <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

District Specific Activities

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



Purba Medinipur District Portal

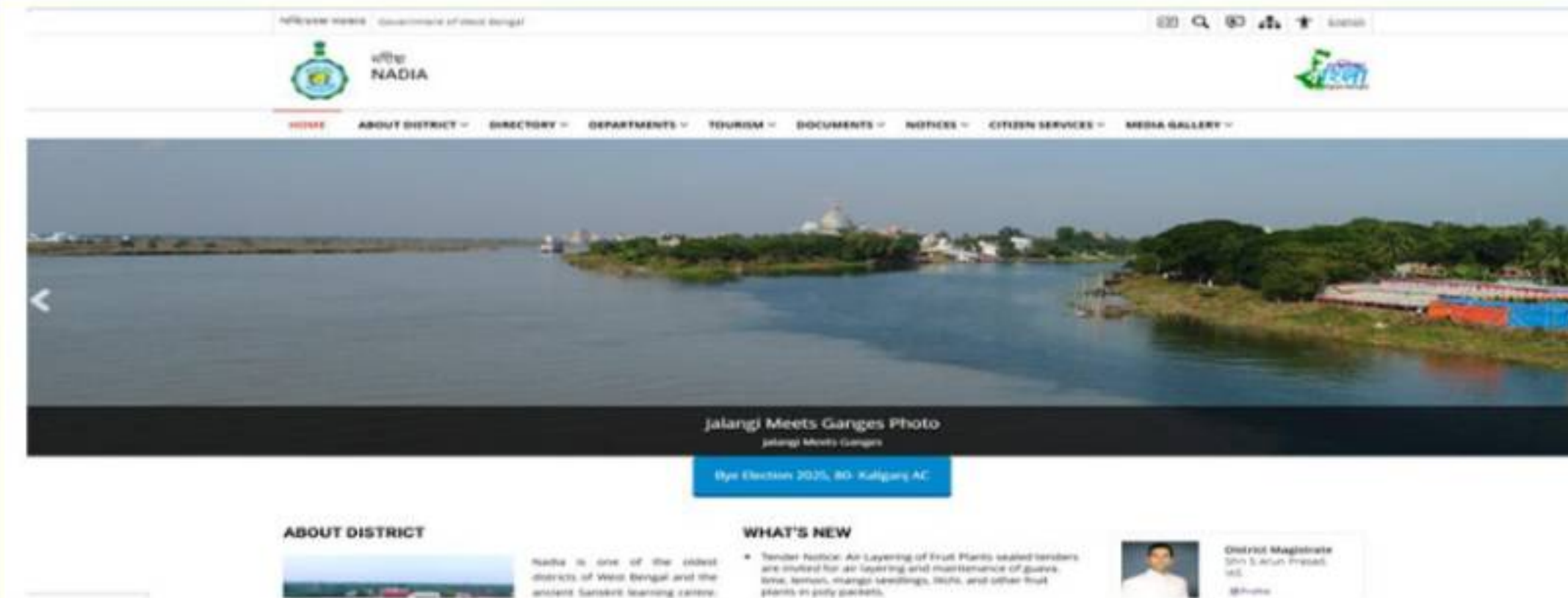
URL: <https://purbamedinipur.gov.in/>

District Specific Activities

- Online Festival Permission (Service Plus) with training.
- 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.

Achievements

- Festival permission through Service Plus provided to 2000 clubs in the district
- All departments successfully using e-Office
- Active participation in state projects: IFMS e-pension , EES



Nadia District Portal

URL: <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.

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.

The secure internet connection from NIC to the DM Chamber has been successfully set up as per the requirement of District Magistrate. The connection is now fully functional, and necessary configurations and testing have been completed.



Jhargram District Portal

URL: <https://jhargram.gov.in>

Highlights

- 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.

Training

- Training provided to Kolkata district administration for S3WAAS based district website design and development.
- Training in various election related activities.



Murshidabad District Portal

URL: <https://murshidabad.gov.in/>

District Specific Activities

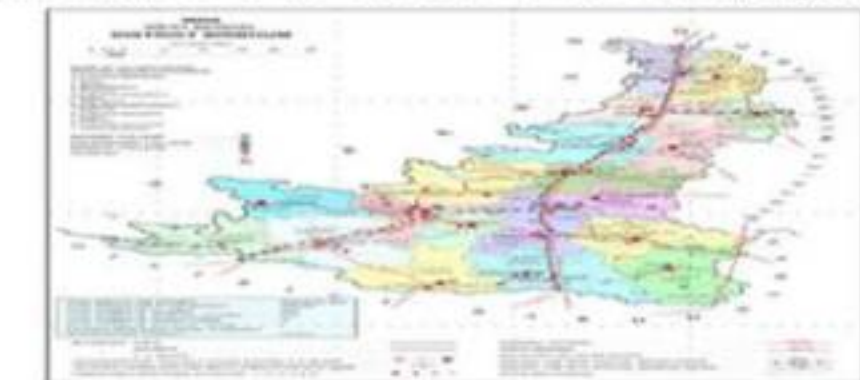
- Maintenance of Official District Website regularly (S3WAAS) platform
- VC Support of NIC, State and District level meeting.
- Technical help for E-Prosecution, Vahan, Sarathi
- IRAD Technical Support for all stake holders.
- Emms Portal support.
- Support for flagship schemes: Jai Bangla, Lakshmir 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 Amader Para Amader Samadhan
- DA Admin support and follow up for Admin creation
- Email migration support for district Officers.



Birbhum

<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

URL: <https://darjeeling.gov.in/>

Highlights

District Specific Activities

- CAA hearing for 31 applications at Darjeeling Post Office.
- 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

URL: <https://kalimpong.gov.in/>

Highlights

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. Training regarding registration, employee updation, verification, etc. on emms portal is given to heads of offices, admin users and others

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

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



Jalpaiguri District Portal

URL: <https://jalpaiguri.gov.in/>

Highlights

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

URL: <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