



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.

December, 2025



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) | 22. NextGen Kanyashree Online 9.0 |
| 2. Integrated Financial Management system (IFMS) | 23. NextGen Rupashree Online 3.0 |
| 3. Unified Project Management System (UPMS) | 24. Child Marriage Reporting & Tracking System |
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| 8. Tourism Department Website and Mobile App of Kalimpong district Tourism | 29. DGX A100: Universal System for AI Infrastructure |
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| 10. Directorate of Registration and Stamp Revenue | 30. Facial Recognition Based Attendance System (FRBAS) |
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| 12. Shilpasathi | 32. AI-enabled Services for NextGen Kanyashree Online 9.0 |
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| 14. COALRR (Consolidation of Accountable Land, Resettlement & Rehabilitation) | 34. AI Sanlaap : Conversational AI-based Chat & Voicebot Framework |
| 15. OSCAR (Online Caste Application Registration System) | 35. AI Anurup : AI-based Name Matching Service |
| 16. Khadyasathi | 36. AI Abhigyan : AI-based Text Extraction System |
| 17. IT initiatives at Calcutta High Court | 37. AI-enabled Services for Property Registration |
| 18. West Bengal Social Registry | 38. AI-enabled Cardamom Leaf Disease Detection System |
| 19. Integrated Online Salary Management System (i-OSMS DVET) Version 2.0 | 39. AI-based Crop Image Anti-spoofing System |
| 20. Medical Counselling | |
| 21. eAbkari for NCT Delhi | |

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Following Projects are developed and implemented in West Bengal :-

- 40. Swami Vivekananda Merit-cum-Means Scholarship
- 41. Student Credit Card Scheme
- 42. Marriage Registration in West Bengal
- 43. Directorate of commercial taxes
- 44. GePNIC in West Bengal (e-Procurement Portal)
- 45. eGovernance Portal of Govt. Polytechnics

CENTRAL PROJECTS:-

- 46. Online Indian Citizenship
- 47. Arms License Issuance System (ALIS)
- 48. IVFRT (Immigration, VISA, Foreigner's Registration & Tracking)

National port Projects

- 49. Enterprise Business Application System (EBAS)
- 50. Port Operation Management System (POMS)

e-Transport Projects

- 51. e-Challan
- 52. iRAD (Integrated Road Accident Database)
- 53. PUCC (Pollution Under Control Certificate)
- 54. SARATHI
- 55. VAHAN
- 56. e-Detection
- 57. Content Management System

- 58. ServicePlus
- 59. eOffice – Government of West Bengal
- 60. e-Prison
- 61. e-Prosecution
- 62. e-FSL (Forensic Labs)
- 63. e-Court
- 64. National Knowledge Network (NKN)
- 65. NICNET
- 66. Video Conferencing Services (PRAGATI)

District Portals

- 67. Kolkata District Portal
- 68. Malda District portal
- 69. Purba Medinipur District Portal
- 70. Nadia District Portal
- 71. Jhargram District Portal
- 72. Murshidabad District Portal
- 73. Birbhum District Portal
- 74. Darjeeling District Portal
- 75. Kalimpong District Portal
- 76. Jalpaiguri District Portal
- 77. Uttar Dinajpur District Portal

State Projects (G2G and G2C)

West Bengal Just-in-Time (WBJIT)

URL :<https://ifms.wb.gov.in/wbjit/login>



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.)

Integrated Financial Management System (IFMS)

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



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

- Solution for entire financial management system of GoWB
- Five Modules namely e-Bill, e-Treasury, User Management, Master Management are presently in use for SNA-SPARSH Just-in-Time implementation
- Being developed in Microservices Architecture
- TR-26 Billing with User Management, e-Bantan, e-Bill, CTS are in production but implementation on hold.
- GRIPS, AAFS, LF/PL modules are available in UAT

FY 25-26 : Cumulative JIT Bill Voucher: 56332, Amount : Rs. 4186.53 Crores (Approx.)

Unified Project Management System (UPMS)

G2G and G2CServices Features URL : <https://upms.wb.gov.in>**Technology Stack :** Laravel, RabbitMQ, Redis, GitLab, DevSecOps, PostgreSQL

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.

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

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)

Number of Projects created/modified: 2778 , Number of Requisitions created/modified: 1304,

Number of Estimates created/modified: 1320 Total Cost of Estimates: Rs. 59,31,80,07,050 (~ 5931 Cr.)

West Bengal Direct Benefit Transfer (WBDBT)

URL : <https://dbt.wb.gov.in>**Direct Benefit Transfer**

Government Of West Bengal

G2G**Technology Stack :** Angular, Dot Net Core, RabbitMQ, Redis, GitLab, DevSecOps, PostgreSQL

- 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**



Lakshmir Bhandar

Technology Stack: [Laravel](#), [Kafka](#), [PostgreSQL](#)

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

A scheme of GoWB, which is promised to provide monthly assistance 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. 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.

- Aadhaar is 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

Achievement: Successfully development and running **Lakshmir Bhandar** since August'2021 with present beneficiary around **2.2 Crore (Approx.)** with monthly assistance of **Rs. 2131 Cr. (Approx)** Able to establish an automated pipeline to push all beneficiary and transaction to the Social Registry Portal



Jai Bangla

Technology Stack: [Laravel](#), [Kafka](#), [PostgreSQL](#)

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

- 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

Achievement: Successfully development and running **Jaibangla** since April'2020 with present beneficiary of **80.61 Lakhs** and **Monthly Payment of Rs. 617.54 Cro. (Approx.)**. Able to establish an automated pipeline to push all beneficiary and transaction to the Social Registry Portal

State Projects (G2G and G2C)

Candidate Expenditure Monitoring System

A unified portal to monitor Contesting Candidate related election expenditure as per ECI guidelines for Parliamentary and Assembly Elections.

[Get Started](#)



DEMOMMS

HOME SERVICES FEATURE CONTACT DOCUMENTATION

Transparent & Secure Elections

Empowering Democracy with Smart Election Management

A one-stop solution for managing every aspect of the election process — from voter registration, manpower deployment, to secure results.

[Get Started](#) [Office Registration](#)

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



Technology Stack: [Laravel](#), [RabbitMQ](#), [Redis](#), [GitLab](#), [DevSecOps](#), [PostgreSQL](#)

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

Election Manpower Management System (EMMS) and Candidate Expenditure 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 (SOR)



DEPARTMENT OF TOURISM
GOVERNMENT OF WEST BENGAL

About Us • Tourism Properties • Other WBTDL Properties • Destinations • Gallery • Homestay • Pothasathi • E-Passes • Tourist Corner • Online Package Booking • Join The Tourism Family • MICE • River Tourism

Technology Stack: [Laravel](#), [MongoDB](#), [PostgreSQL](#)

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



Technology Stack: [Laravel](#), [MongoDB](#), [PostgreSQL](#)

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

Tourism Department Website and Mobile App of Kalimpong District Tourism

Integrated configurable web portal which serves as one-stop solution for Tourists. Stakeholders are allowed to login to 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.

State Projects (G2G and G2C)



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.



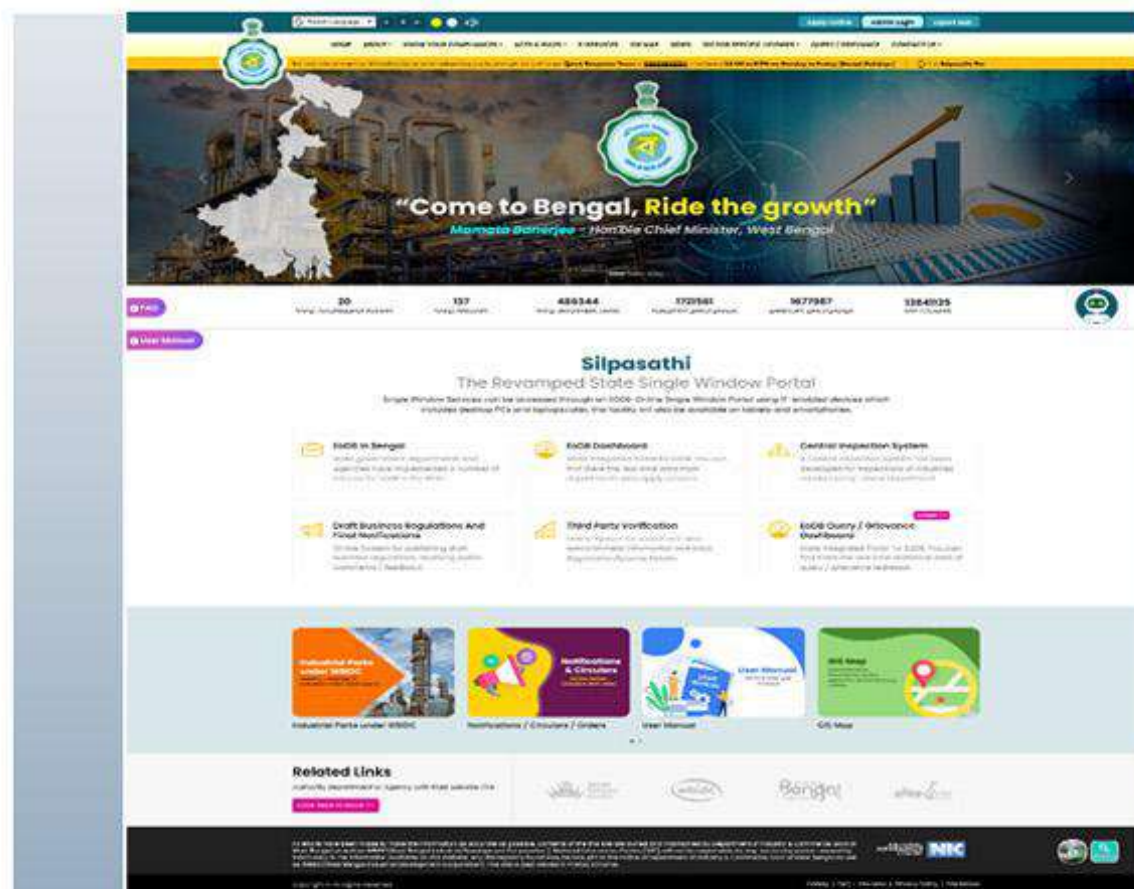
Technology Stack : J2EE, Struts 2 framework, Hibernate, SQL Server
URL : <https://banglarbhumi.gov.in/>

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.



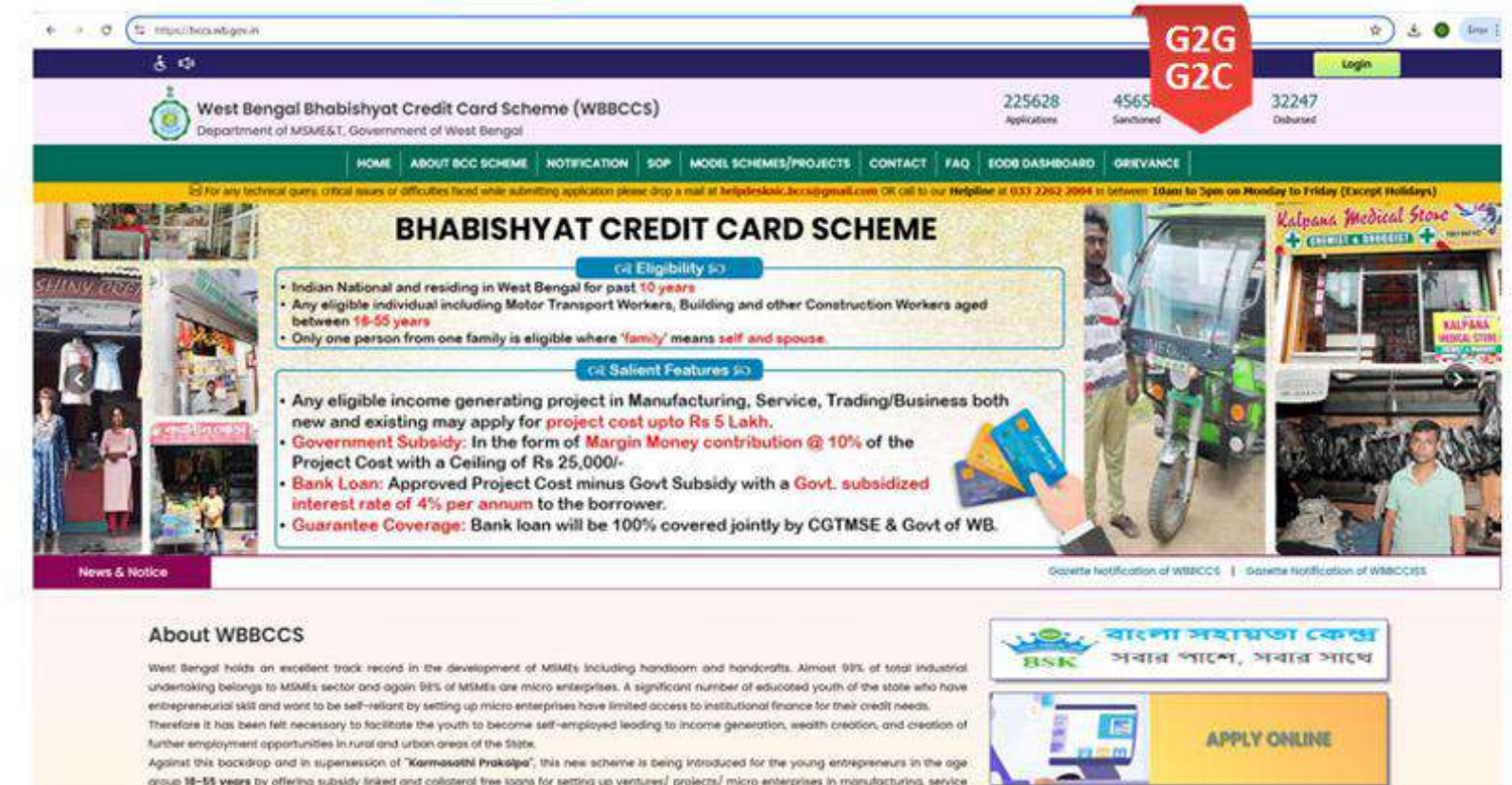


Technology Stack : Drupal, PHP, REST API, PostgreSQL URL : <https://silpasathi.wb.gov.in/>

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.



Technology Stack : CodeIgniter, Linux, REST API, PostgreSQL
URL : <https://banglarbhumii.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.

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



HIGHLIGHTS

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

The 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.

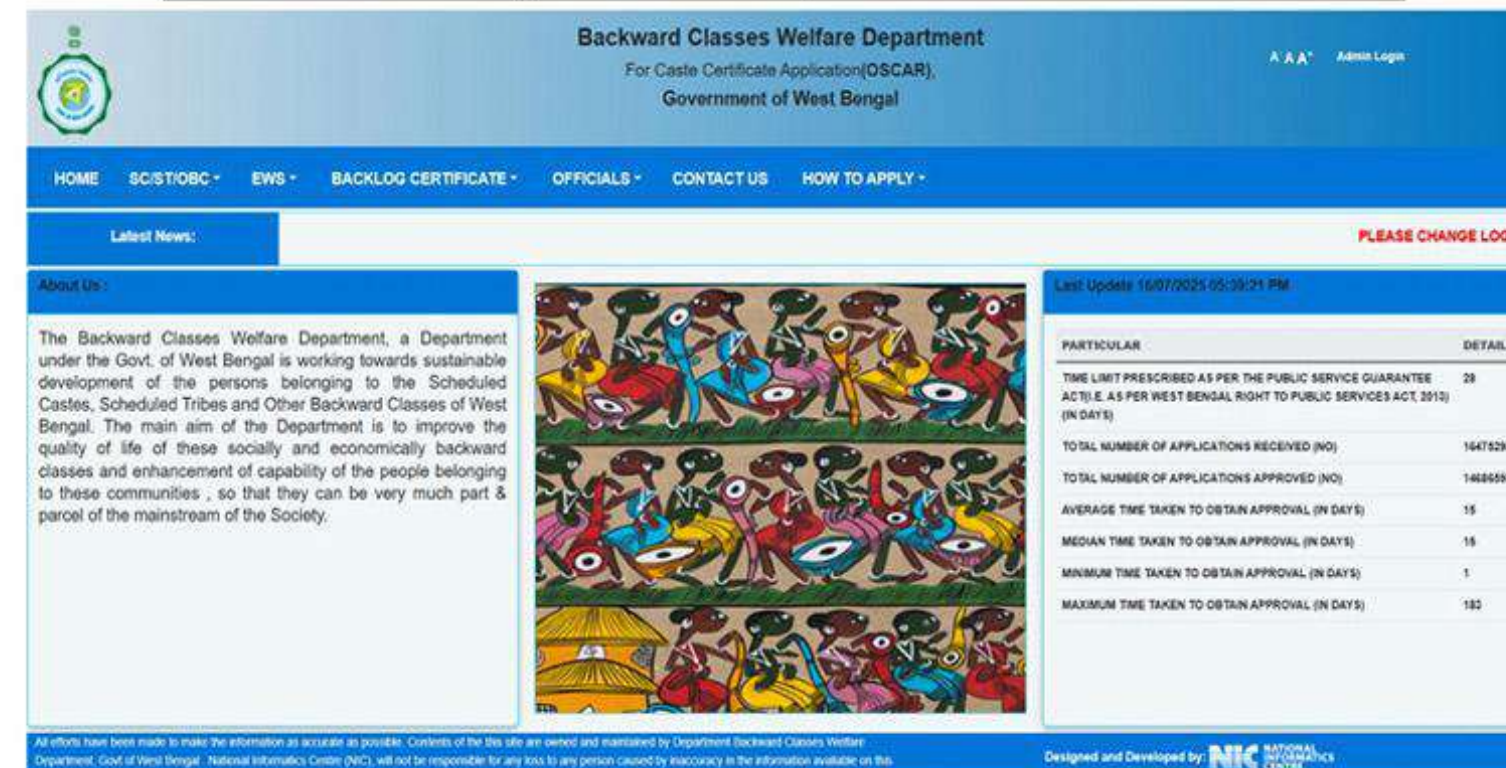
The COALRR portal is designed to simplify the land acquisition process by providing a transparent and accountable digital platform to stakeholders. It facilitates Compensation, R&R benefits, GIS Mapping and better monitoring and reporting.

- **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
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.

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.

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.

- **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

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

HIGHLIGHTS

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



.Net Core
.Net
MSSQL DB

STATISTICS

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

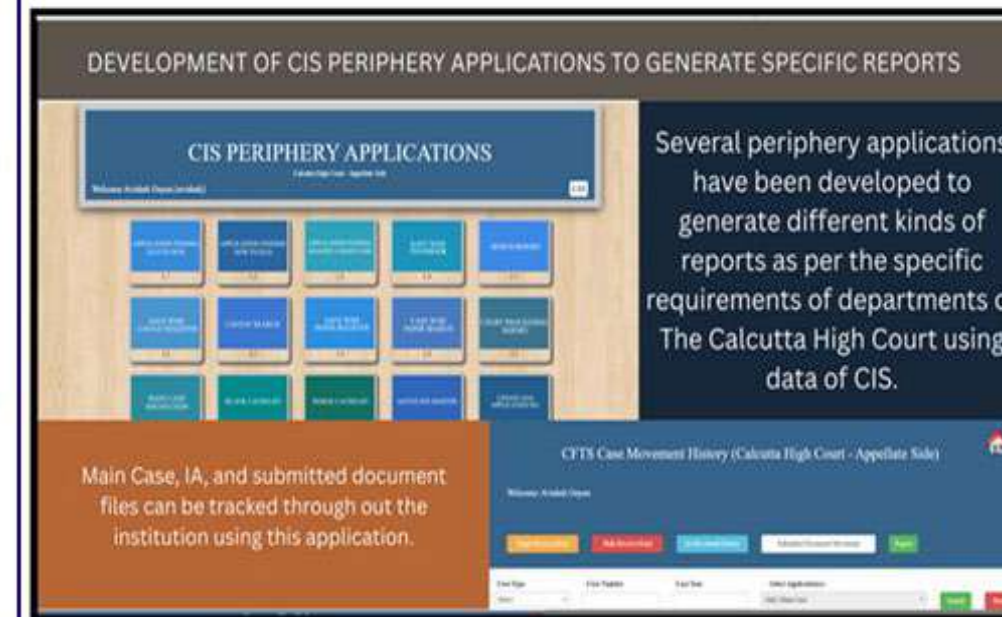
IT initiatives at Calcutta High Court



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



West Bengal Social Registry

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



The West Bengal Social Registry System (WBSRS) is a centralized platform developed to monitor welfare scheme delivery across the state. Managed by the Finance Department, it currently integrated with 67 of 136 schemes—including 53 state and 14 central schemes. Data synchronization is enabled via Kafka (real-time streaming), APIs (system integration), and Excel uploads (for manually maintained schemes), ensuring flexible and comprehensive coverage.



Digital Governance

Empowers digital governance and fosters informed, citizen-centric strategies.

Base Data

Khadya Sathi (KS) data taken as Single Source of Truth.

LGD mapped

GIS-enabled LGD data for MIS reporting and dashboard.

Test Quality

Unified Brochure of 136 schemes (State:74 and Central:62)

Authentication

Access Management through Multi-Factor Authentication and Role-Based Authorization

Data Exchange

Diverse data exchange mechanisms including Kafka, APIs, and Excel.

Scheme details

AI-powered chatbot, SiHu integrated to deliver various government schemes informations

PROJECT NAME

Integrated Online Salary Management System (i-OSMS DVET) Version 2.0

PRISM ID

18086

PROJECT URL

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

HIGHLIGHTS

Seamless Salary Management:

Automated salary processing with IFMS integration.

Recurring Grant Management:

Recurring grant disbursement for VTC with IFMS.

Taruner Swapna:

Disbursement of amount RS-10000 for each student under Taruner Swapna Scheme.

Online P-TAX Processing.

Profile Management: Secure profile updates for employees.

Barcode Based Report Authentication System.

Employee Benefits: Timely processing of bonuses, Appraisal and other benefits.
FAQ SYSTEM Related to VTC with Maps.



- No of VTC – 2586
- No of Teacher/ Instructor – 11110
- Monthly Remuneration Disbursement – RS 117586246
- Late Drawl Disbursement – RS 1264153
- Monthly Recurring Grant Disbursement – RS 13178754
- Number of active beneficiaries under Taruner Swapna Scheme – 42764 (F.Y – 2025-2026)
- Disbursement of Tab fund under Taruner Swapna scheme RS – 494940000 (F.Y -2024-2025)

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 G2C

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, Govt. WB.

AREAS OF ACTIVITIES

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

WBMCC

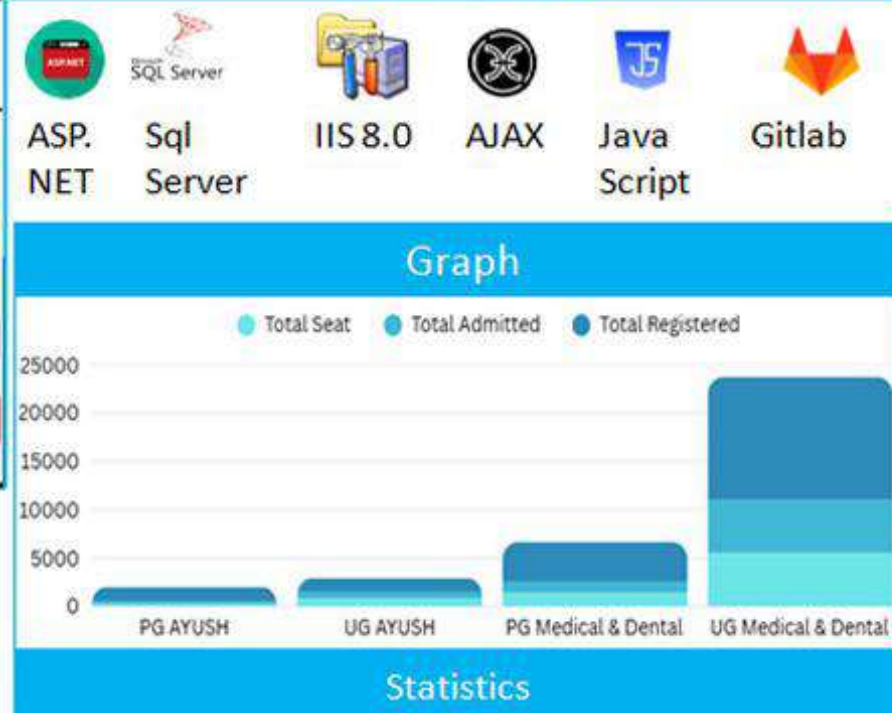
Implementation / Benefits of Citizen:

- ✓ 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.

West Bengal Medical Counselling Committee
Admission and eCounselling Services

Technical Stack

ASP.NET, SQL Server, IIS 8.0, AJAX, JavaScript, Gitlab



Project Name	Prism Id	Project URL
eAbkari (NCT Delhi)	3490 G2G & G2B	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.

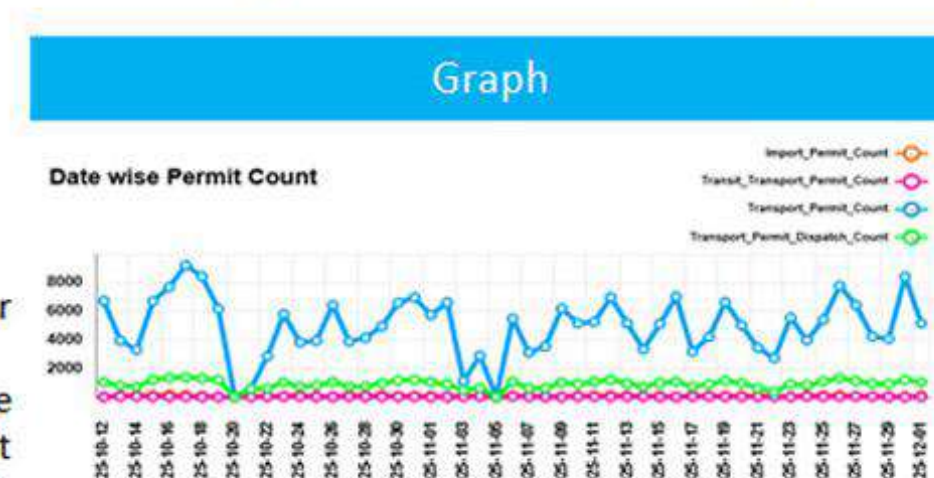
Statistics

- ✓ 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.

Delhi eABKARI
Workflow Based eServices

Technical Stack

ASP.NET, SQL Server, IIS 8.0, AJAX, JavaScript, Gitlab





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 : 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)

G2G

G2C

Child Marriage Reporting and Tracking System V 1.0

CMRTS Online 1.0

Username

Password

[Forgot Password?](#)

CMRTS Online 1.0 © Copyright 2023-24, All Right Reserved

Designed & Developed By 

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

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

Child Marriage Reporting and Tracking System

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



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

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

❖ **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**.

Management Tools

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

Other Infrastructure in mini Data Center, Kolkata

◇ Hyper-V Failover Cluster

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

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

Technology Stack

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

◇ RHEL Pacemaker Cluster

Linux-based high availability cluster for critical applications.

- Nodes store state & config
- SAN-based shared storage
- Interconnected via reliable network
- **Fencing** for node isolation, **stickiness** to avoid unnecessary migration, and **manual migration** support

❖ **A total of 10 CUCs** from the NDC infrastructure are maintained from the Kolkata Data Centre.

Among them, **66 sites are currently running** or operating under **extended services** due to their **ongoing migration process**.

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

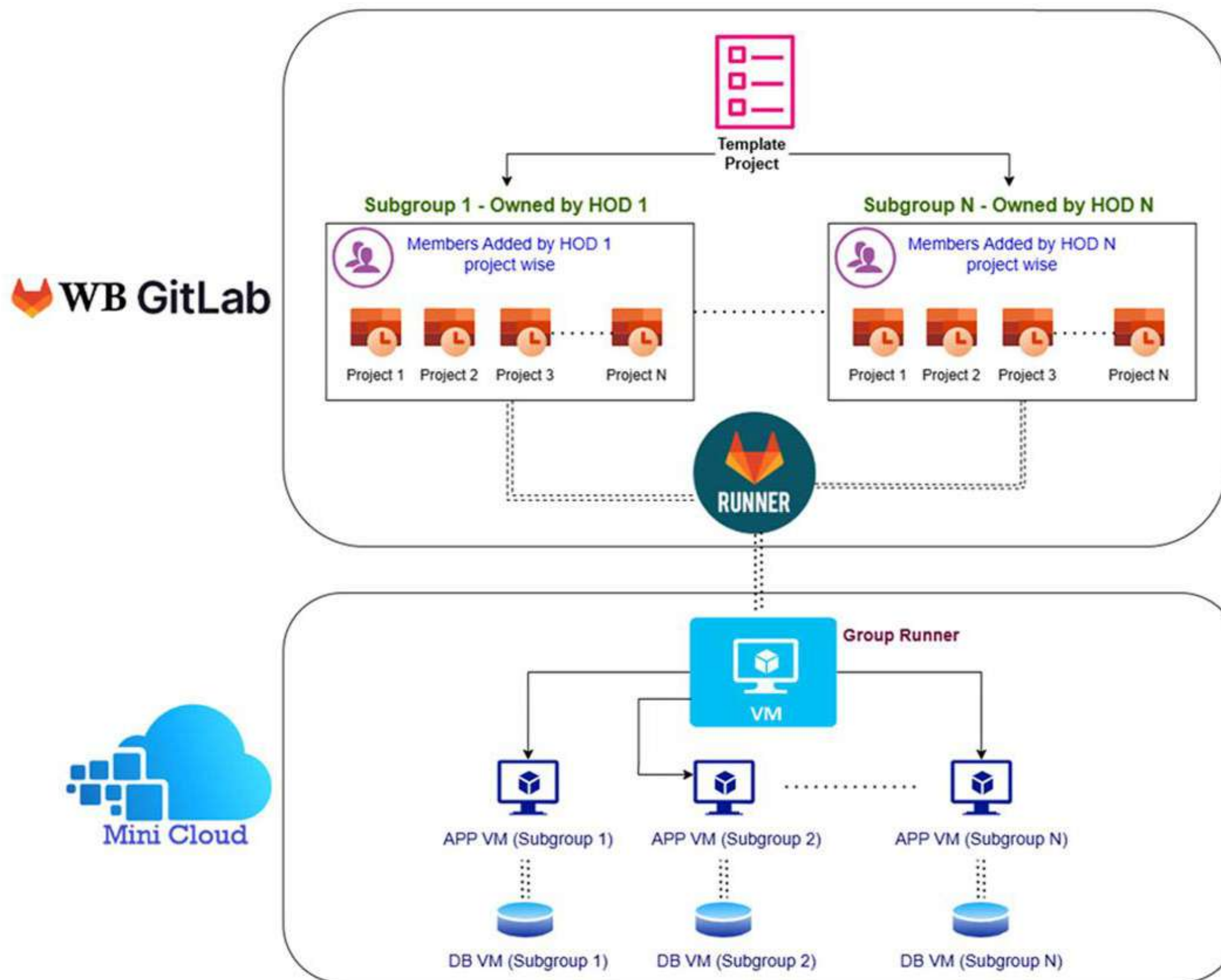
- 1. Infrastructure** - The subsystems of Gateway and Analytics have been deployed. The gateway has been constructed with a comprehensive architecture to provide centralized management. The NAPIX Sandbox public IP was allocated for the purpose of establishing connections between the SDC/outside NICNET 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





Kubernetes Administration - Supercomputing

60+
POD(s) are running

320 GB GPU

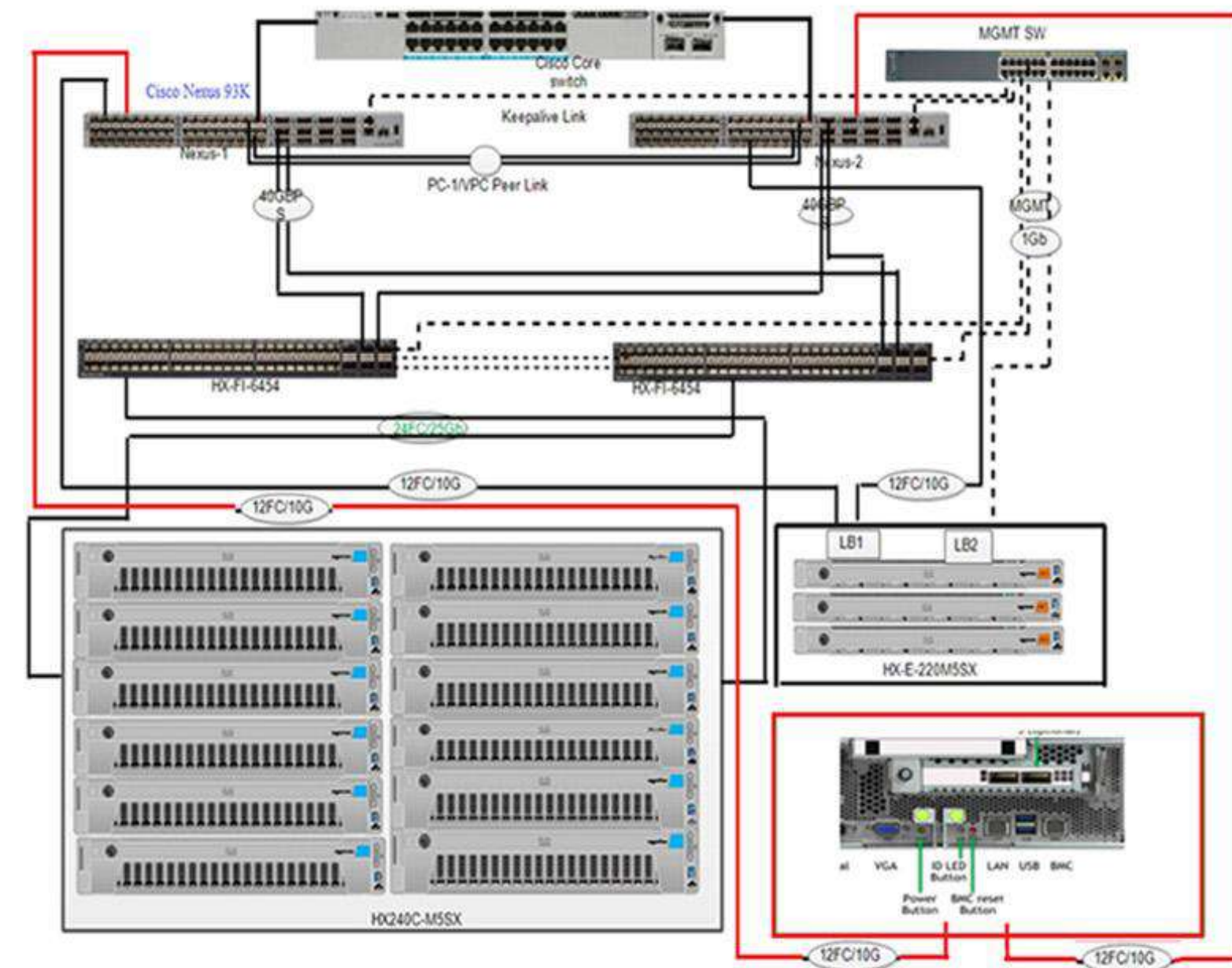
Total of 8 GPUs with
320 GB of GPU
memory.

75+
AI training and
inference services
are operational.

23

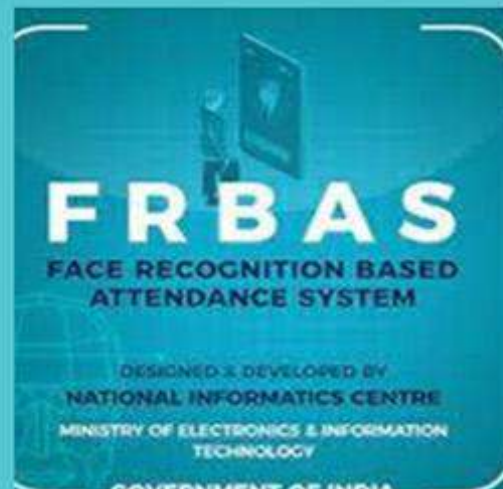
MIG instances have been created on the Kolkata DGX A100 with varying GPU memory.

DGX A100



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

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



11.36 crore API hit Generated for capturing Attendance since inception



3401 Skill Development Training Centre On-boarded



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



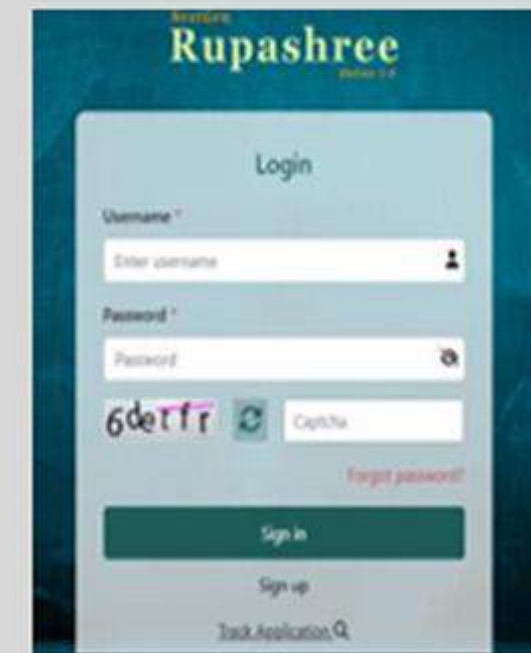
Technology Stack : Alma Linux 8.6(64 bit)/RHEL 9.5, PHP 8.0, Apache 2.4.53,PyTorch Container 22.03, Python 3.10, Docker 26.1.3, Android Oreo (Android 8.0) or higher, Android Studio

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

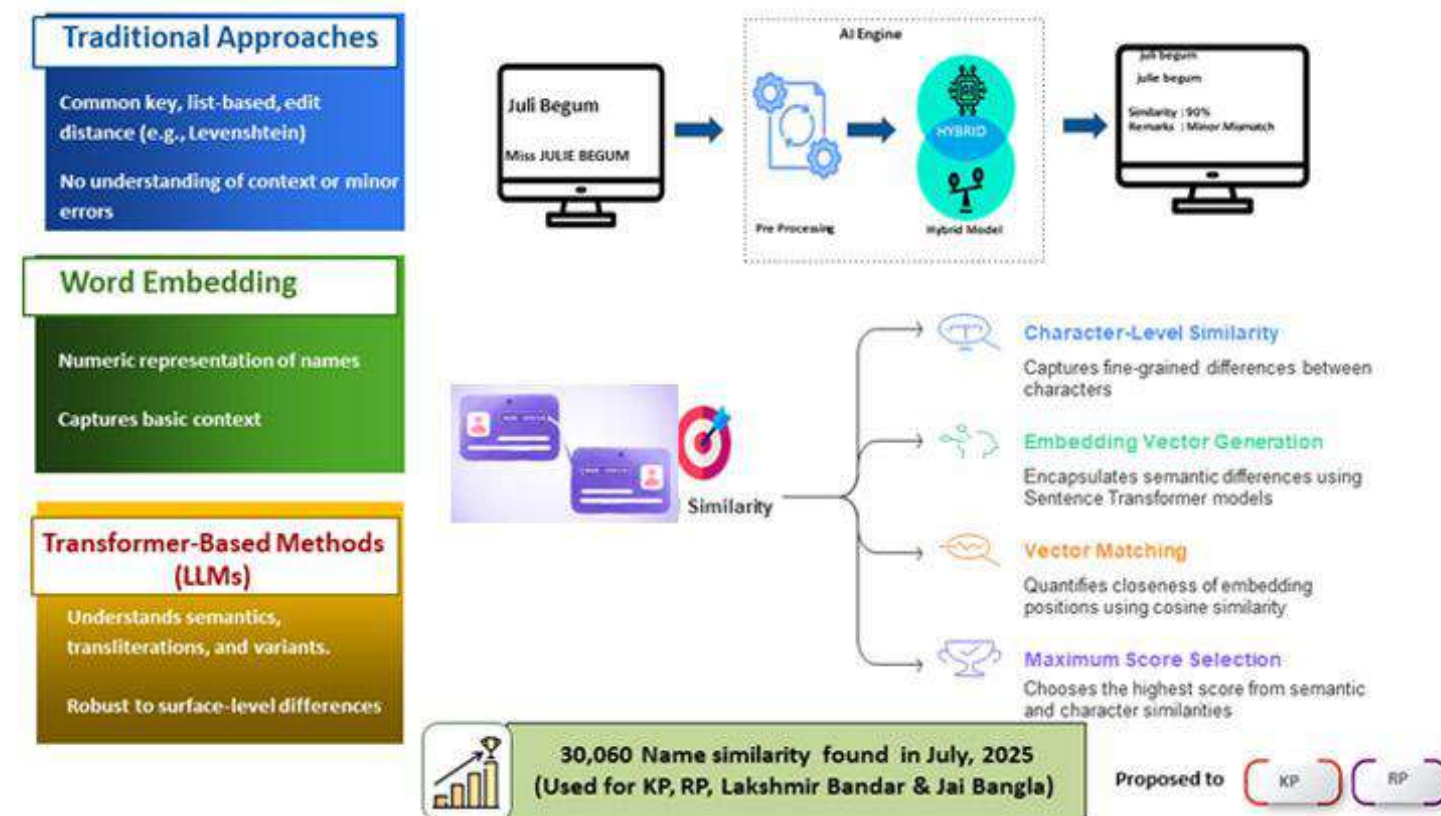


Technology Stack : Python, Milvus Vector DB

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



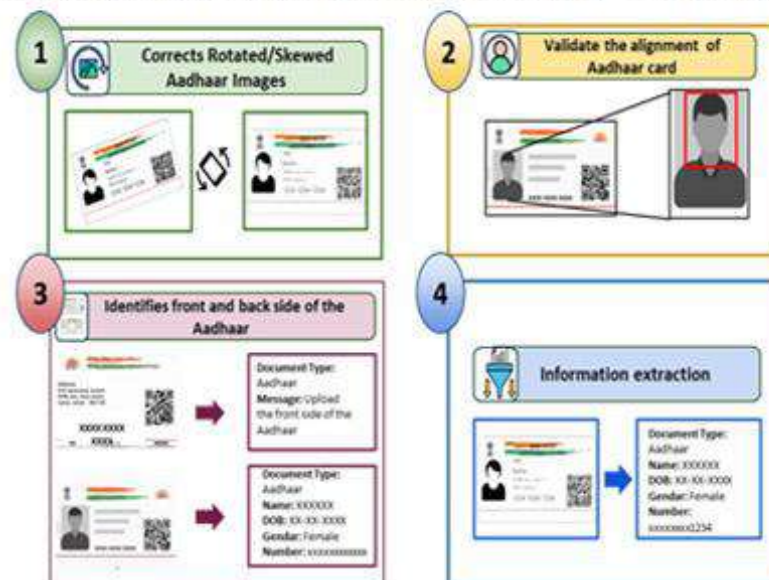
G2G



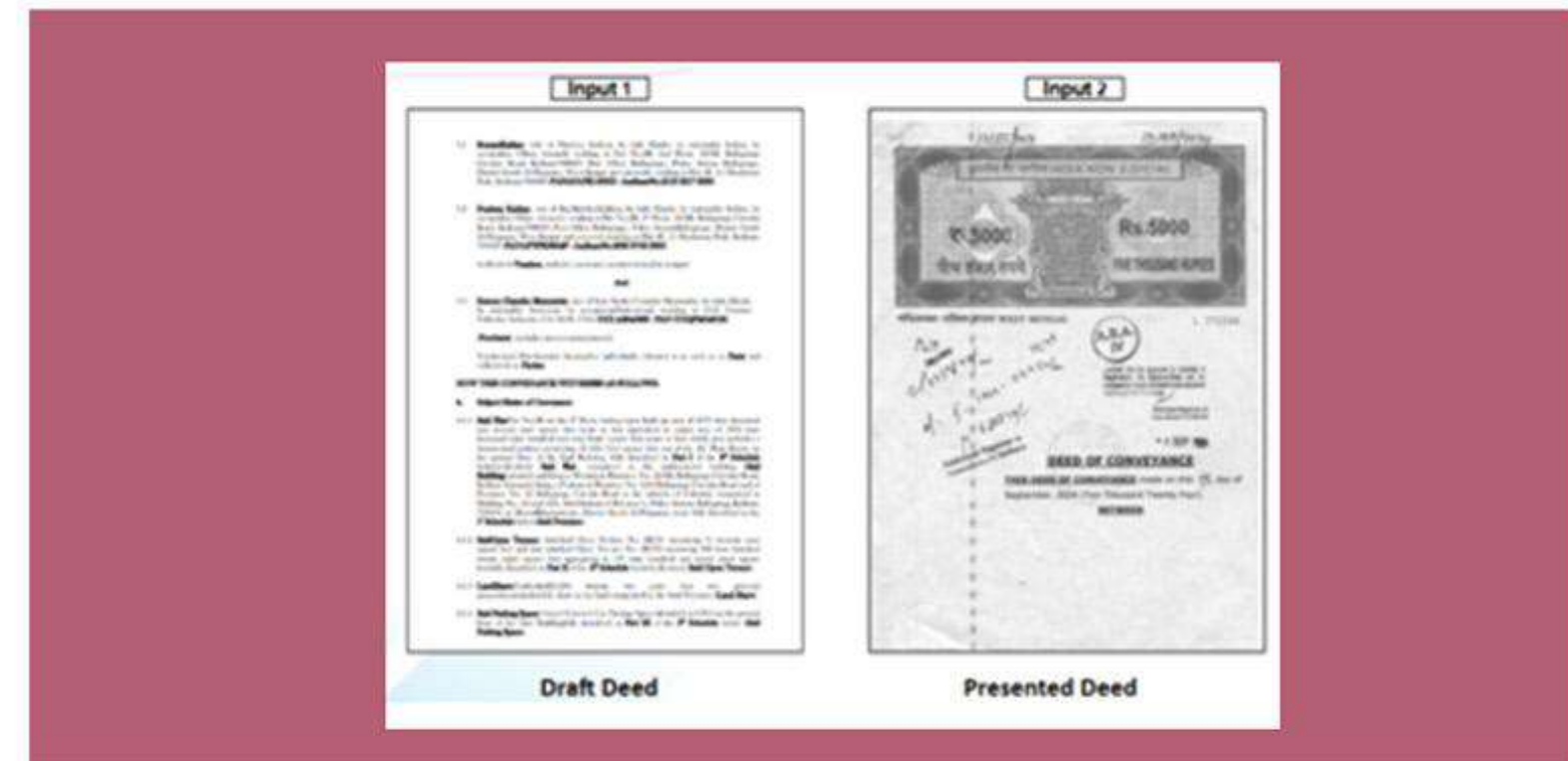
Technology Stack : Python, Ultraetix, Paddle OCR 8, ONNX

AI Abhigyan : An AI based text extrctation 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

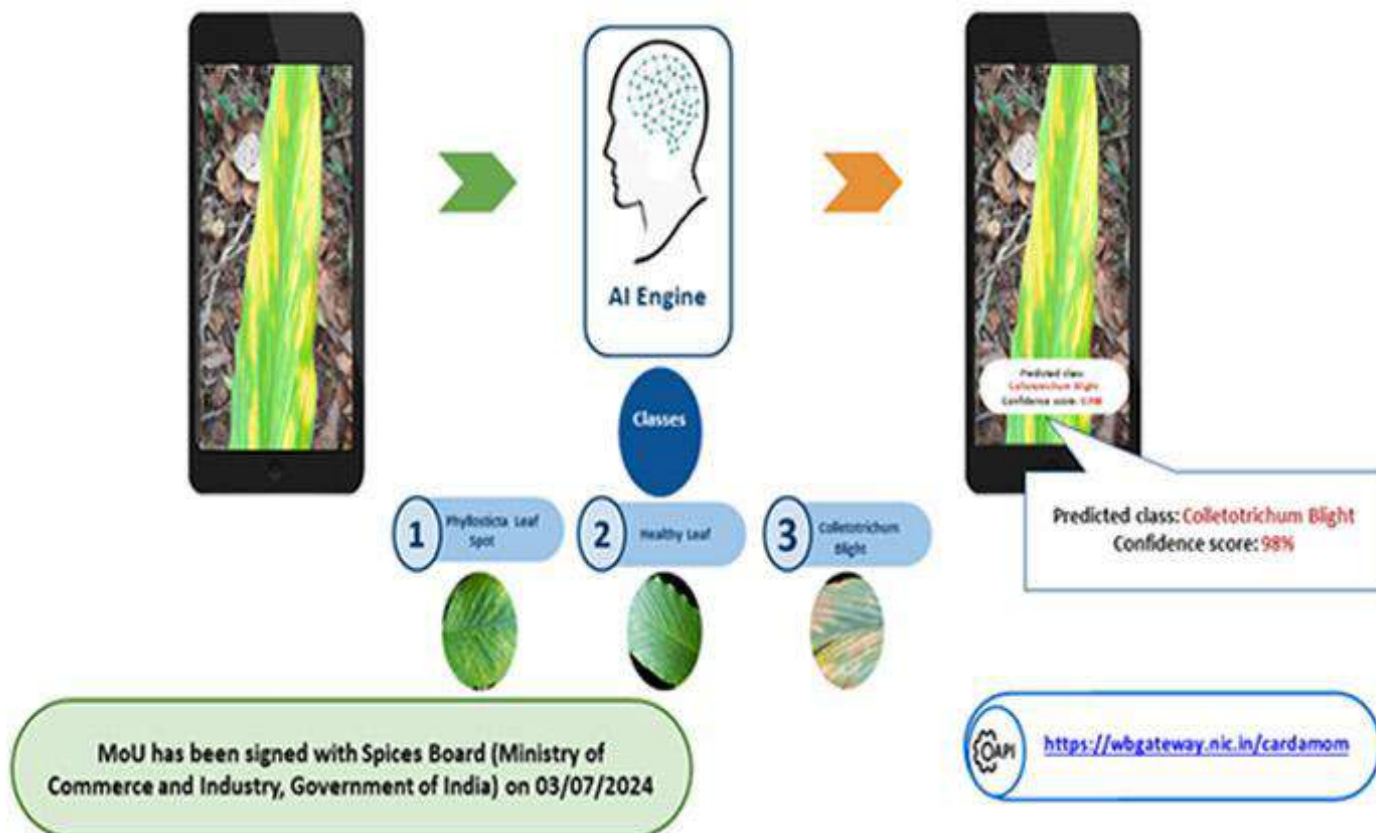


Technology Stack : Python, Langchan, Ollama, Faiss, Tesseract OCR

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.

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



Student Credit Card Scheme

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



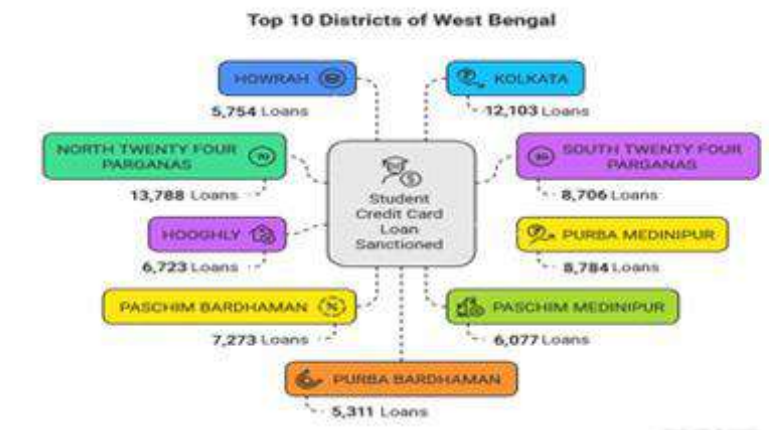
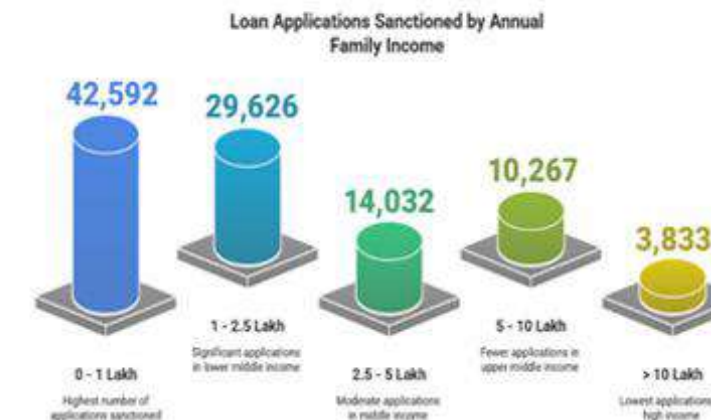
Important Message: [Download Me!](#)

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].



MARRIAGE REGISTRATION IN WEST BENGAL

<https://rgmwb.gov.in>



Yearwise Certificates Generated

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

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 **696615** nos. of marriages under Special Marriage Act 1954 and **441892** 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.



Directorate of Commercial Taxes (eComTax) GoWB - End-to-end ICT solutions of Commercial Taxes

End-to-end ICT solution is provided for transparent, efficient, easily accessible services to the citizens for good governance covering all business functionalities under West Bengal State Tax, Value Added Tax, Central Sales Tax, Entry Tax, Goods & Service Tax <https://wbcomtax.gov.in>. Presented below is a brief of achievements and data for October 2025.

KEY SERVICES

G2C - Return Filing (WBST, VAT, CST, Entry Tax)	G2C - Statutory Form Generation , Uploading Forms by outside States
G2C - Appeal-Revision-Review	G2G Services for Revenue monitoring
GST Analytics system - GST PRIME	G2G Services for better Office Administration

1.	Active Tax payers as on 31st Mar 25	4,38,333
2.	Total Revenue Collection During Financial Year 2024-2025	1,33,785 Cr.

IMPACT

- Service availability anytime & anywhere
- Increased Tax collection & Tax base
- Better detection of Tax Evasion, Revenue Leakage & Frauds

KEY FEATURES

API based Data Consumption from GSTN	On-line 'Settlement of Disputes'	SMS & Email Integration	Online appeal / revision facility
Court Case Monitoring facility	Monitor allotment of fund and Expenditure Statement	Integration with GRIPS	Quick Grievance Redressal

eFiling of Return (VAT, CST, WBST, Sales Tax Deducted at Source-STDS)	Statutory Forms (C, F, EI, EII, F)	Assessment	Tax Recovery	Appeals	Forms uploaded from outside states
37	83	2	0	1	14

Helps in future policy making etc.

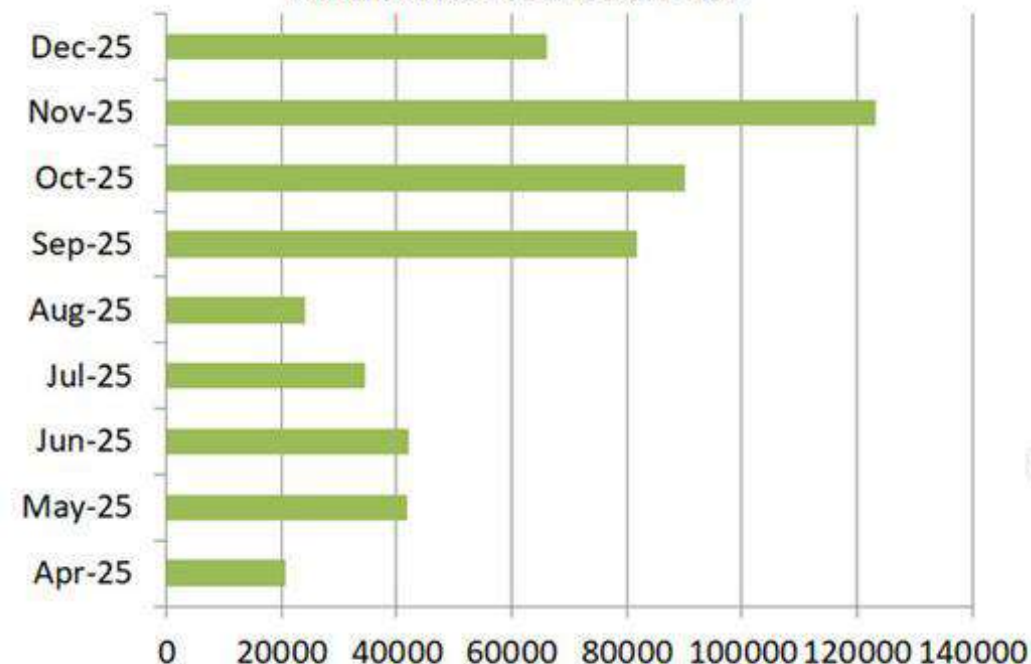

<https://eprocure.gov.in>

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.

Month Wise No. of Tenders published for the Financial Year 2025-26



West Bengal Procurement Portal

<https://wbtenders.gov.in>

&

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

Description	wbtenders.gov.in	tenders.wb.gov.in
Tender Value December 2025 (in ₹ Crores)	6106	3181
Cumulative Value Since Inception (in ₹ Crores)	741272	3181
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



TRAINING SESSIONS IN DECEMBER 2025

1. Training Program was held in the month of December 2025 with 29 participants on WB GePNIC Software, its different modules & workflow, Prerequisites and requirements for onboarding, complete eTender process flow and BoQ types.

In order to ensure effective execution of two Schemes namely, "[Amader Para Amader Samadhan](#)" (APAS) and "Pathashree" in a time bound manner, the Tender Inviting Authorities, vide Finance Department memo [no. 4253-F\(Y\) dt. 03.12.2025](#), are allowed to invite tender either in the existing e-tender platform or using a new e-tender platform in the name of <https://tenders.wb.gov.in> after observing all rules and formalities

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.



Government Polytechnics

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.

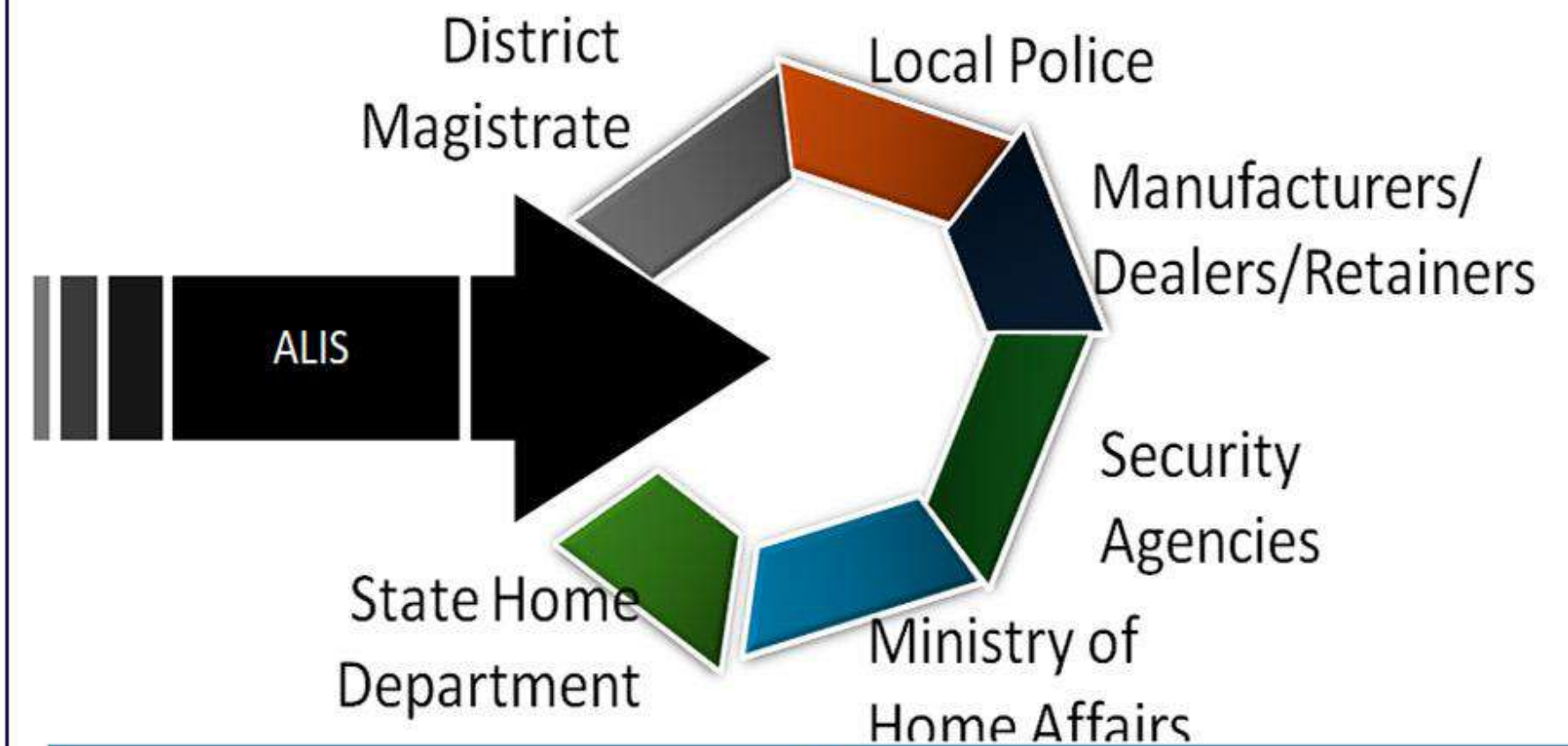




Indian Citizenship G2G & G2C

- 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



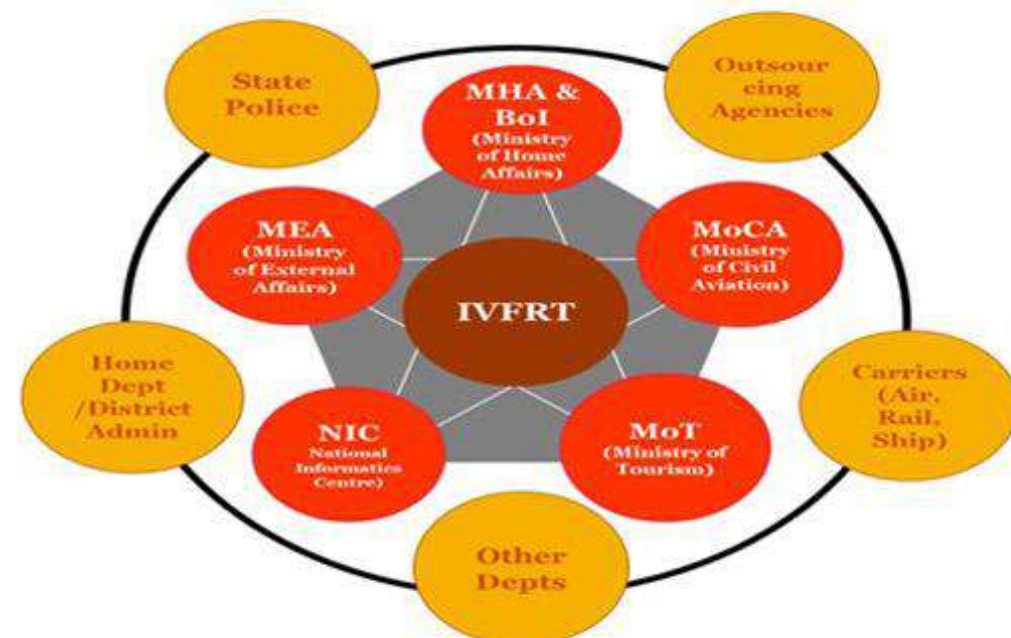
ALIS			
TOTAL APPLICATION	60380	TOTAL PROCESSED APPLICATIONS	58932
NEWARMS LICENSE			
TOTAL APPLICATION	5899	TOTAL PROCESSED APPLICATIONS	5242
RENEWAL OF ARMS LICENSE			
TOTAL APPLICATION	30323	TOTAL PROCESSED APPLICATIONS	29835
CANCELLATION/SUSPENSION/REVOCATION OF ARMS LICENSE			
TOTAL APPLICATION	2930	TOTAL PROCESSED APPLICATIONS	2900

IVFRT

Immigration,
VISA,
Foreigner's
Registration
and Tracking



G2G, G2C & G2F

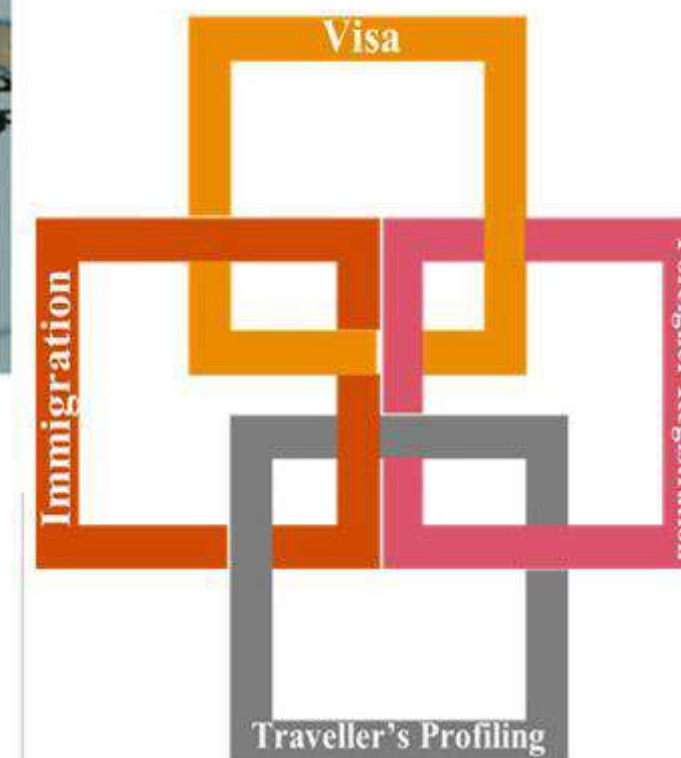


STAKEHOLDERS



COMPONENTS

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



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

West Bengal ICP Statistics At A Glance

West Bengal has highest number of ICPs in India

16

Haridaspur – the biggest Land ICP of India has highest no of daily PAX

7000+

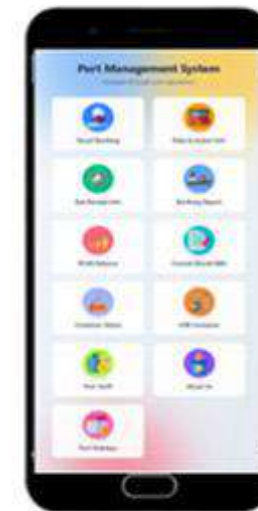
All types of ICPs are present in West Bengal (Air, Land, Rail and Sea)

4

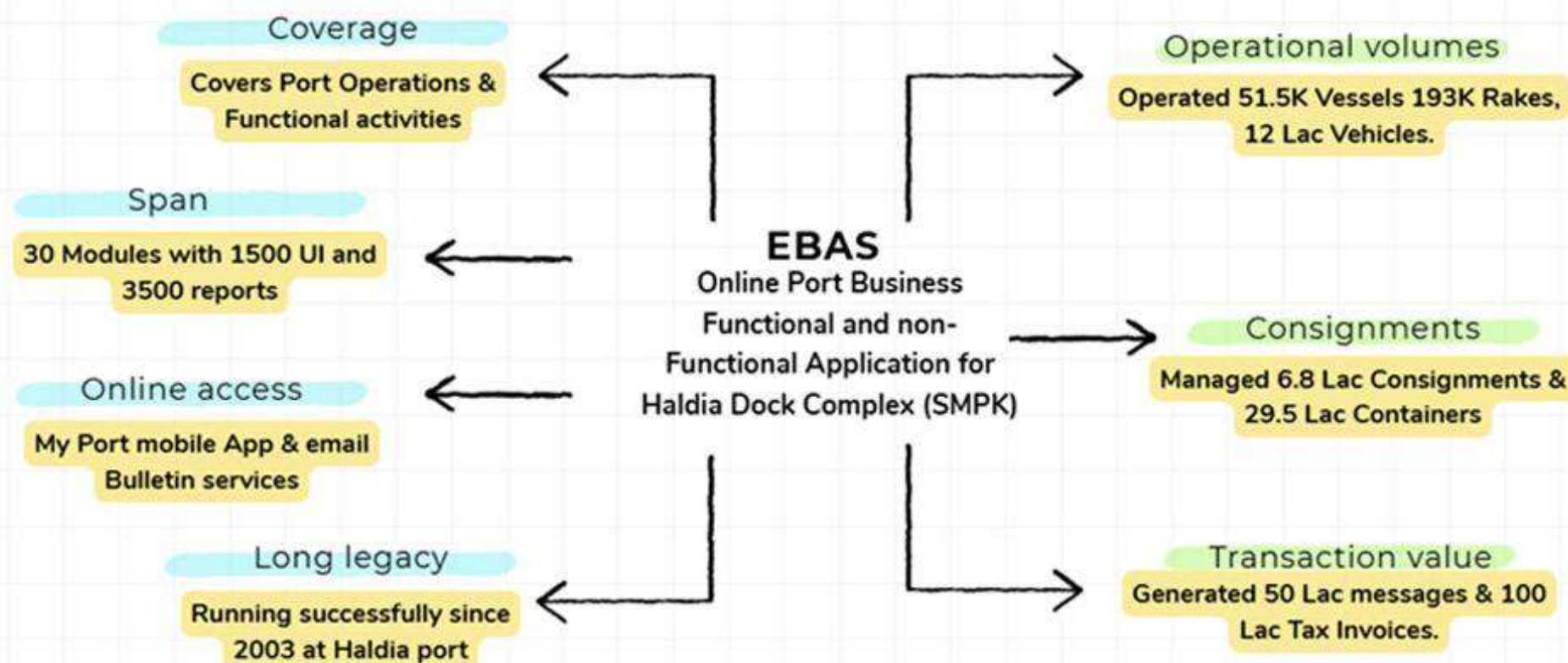
E Gates facility operational for arrival and departure

8

National Port Project developed in West Bengal



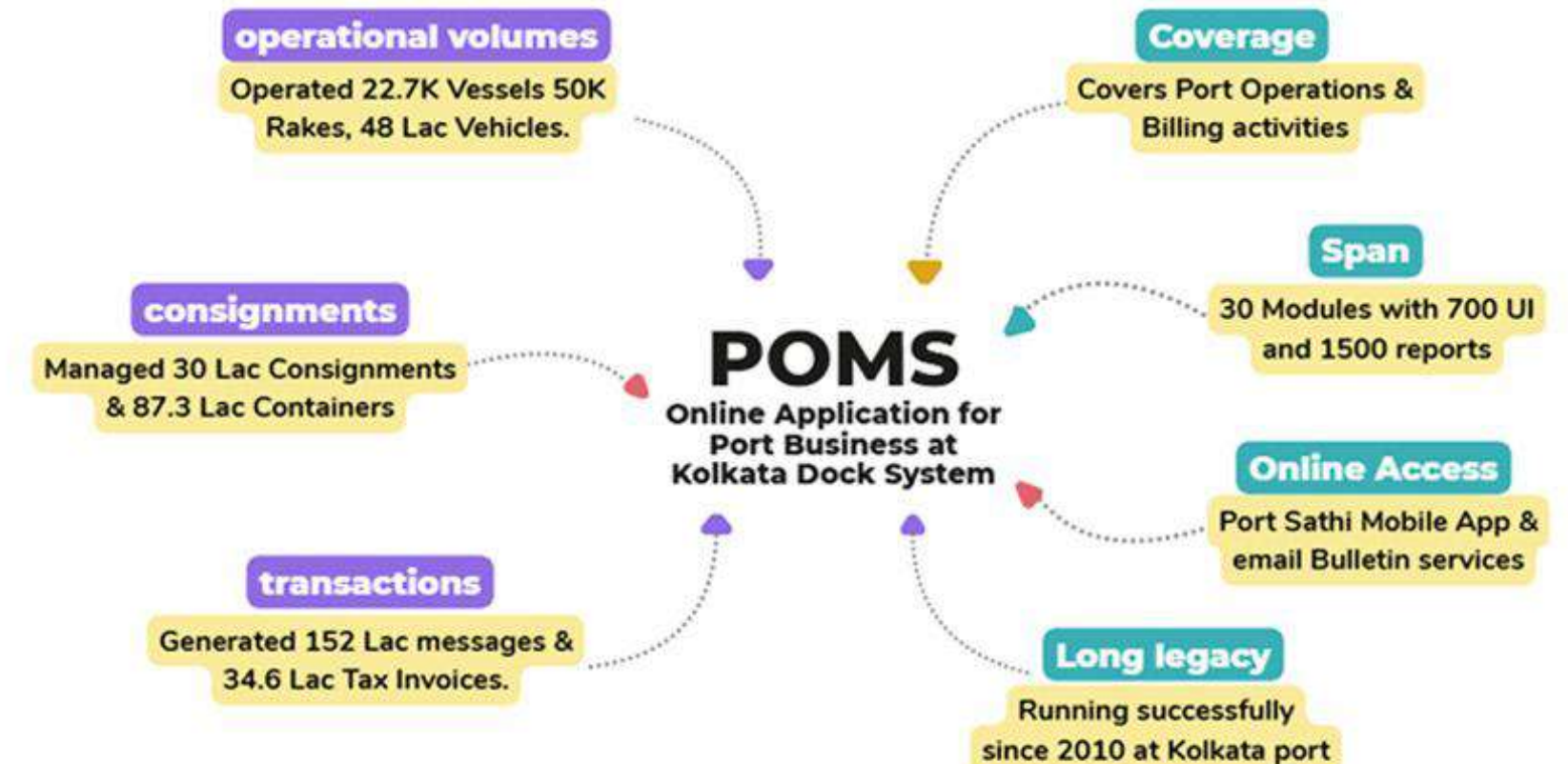
Enterprise Business Application System



<https://hdceodb.smporkolkata.in>



Port Operations Management System



<https://kdseodb.smporkolkata.in>

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

Highlights

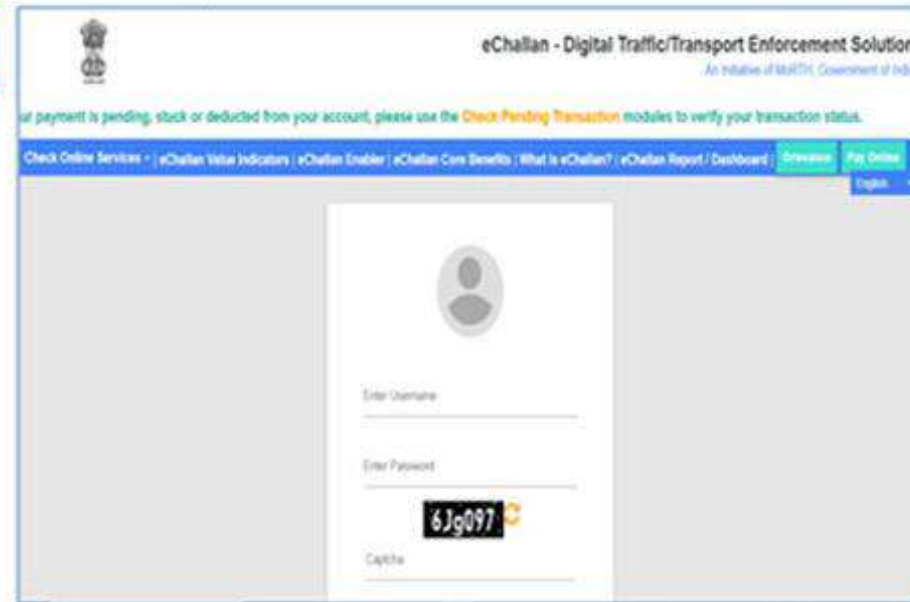
The e-Challan Project covers the core activities :

- 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:

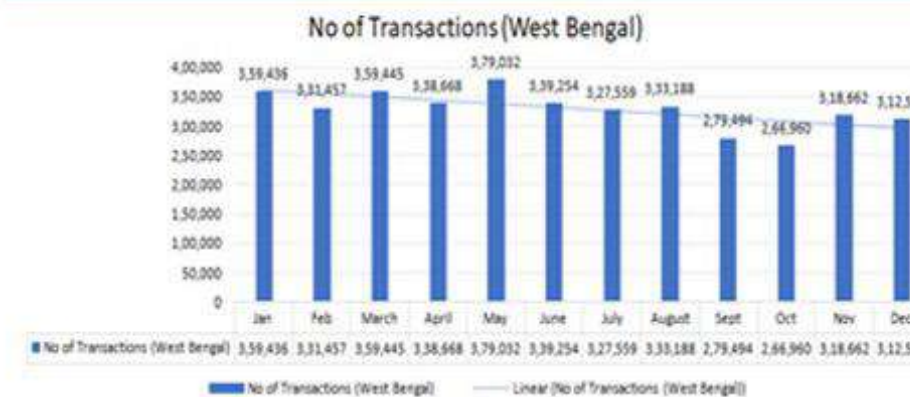
- This is an end-to-end automated system with digital interface for all the stakeholders in purview of challan eco-system. The application offers customized interfaces for the following stakeholders:
- Connecting all the stakeholders through a common system will ensure data integrity, reliability and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



Technical Stack



Graph



Statistics

- ✓ No. of e-Challans Dec'2025 (All India) :73,04,460
- ✓ No. of e-Challans cumulative (All India) : 35,62,78,179
- ✓ No. of e-Challans Nov'2025 (West Bengal) :3,12,578
- ✓ No. of e-Challans cumulative (West Bengal) :1,00,19,453

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

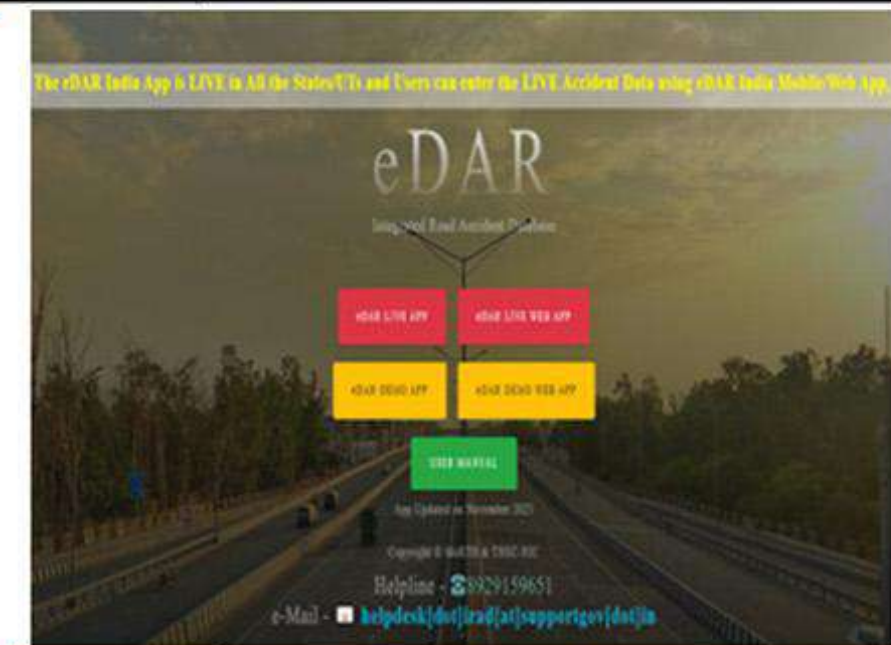
Highlights

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:

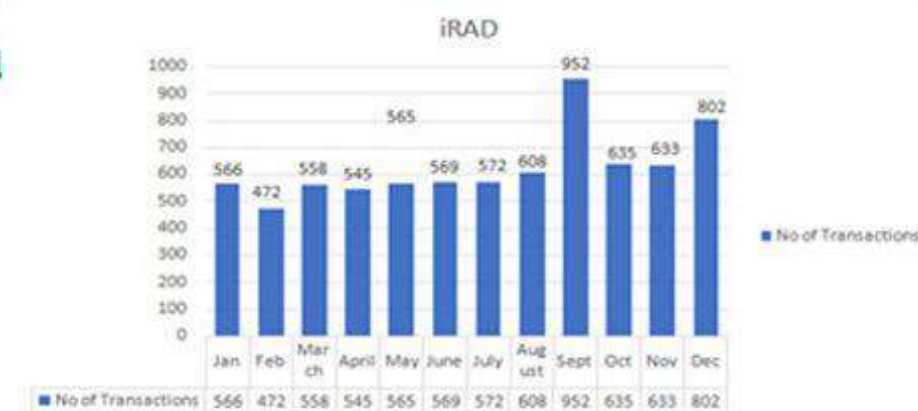
- The insights gained from iRAD are used to inform policy decisions, road safety campaigns, and engineering improvements aimed at reducing accidents.
- iRad/eDAR enhances the value proposition for citizens by making the road accident claims process more efficient, transparent, and less burdensome, ultimately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



Technical Stack

Centrally Developed

Graph



Statistics

- ✓ No. of accidents recorded Dec'2025 : 802
- ✓ No. of accidents cumulative :17,449



Central Project (G2G and G2C)

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

Highlights

The PUCC Project covers the core activities :

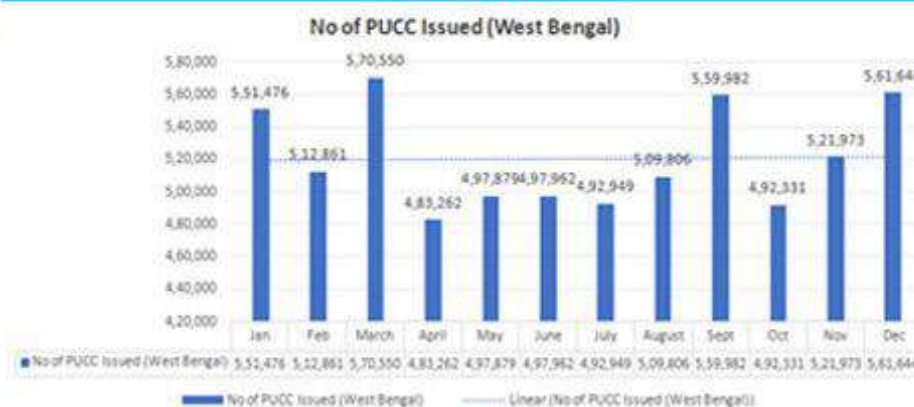
- Pollution Under Control Certificate (PUCC) is a centralized application designed to connect all Vehicle Pollution Checking Centres which issues Pollution Under Control Certificates to vehicles as per Motor Vehicle Act. It facilitates mandatory linking of PUCC status of vehicles with the Centralized 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) Dec' 2025 :90,93,066
- ✓ No. of PUCC issued (All India) cumulative :40,69,68,586
- ✓ No. of PUCC issued (West Bengal) Dec' 2025 :5,61,644
- ✓ No. of PUCC issued (West Bengal) cumulative: 3,20,50,041

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 (SARATHI)		https://sarathi.parivahan.gov.in/sarathiser vice/stateSelectBean.do

Highlights

The SARATHI Project covers the core activities :

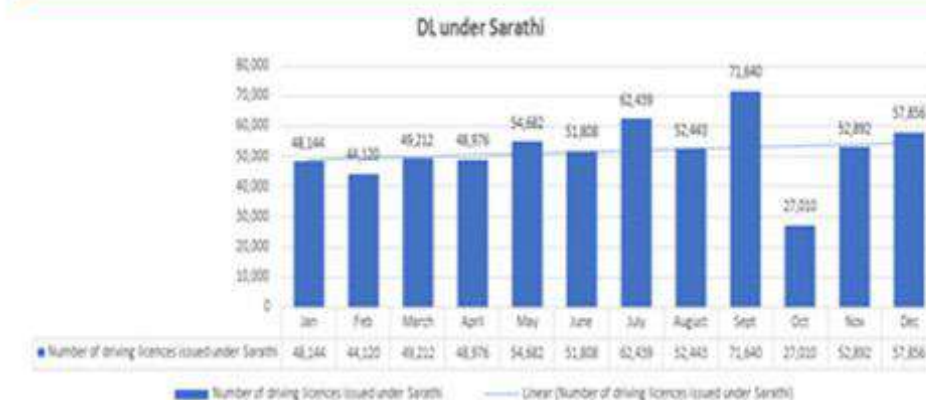
- SARATHI 4.0 is currently providing services throughout 56 RTO/ARTO of 24 districts in West Bengal, for issue of Learner's Licence, issue of Driving Licence, issue of Conductor Licence and issue of Driving School Licence. All the services related with Learner's Licence, Driving Licence, Conductor Licence 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.



Technical Stack

Centrally developed

Graph



Statistics

- ✓ No. of transactions (SARATHI) Dec' 2025 :10,49,531
- ✓ No. of transactions (SARATHI) cumulative :3,95,26,057
- ✓ No. of DL issued (SARATHI) Dec' 2025 :57,856
- ✓ No. of DL issued (SARATHI) cumulative :1,00,44,685

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.



Central Project (G2G and G2C)

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

Highlights

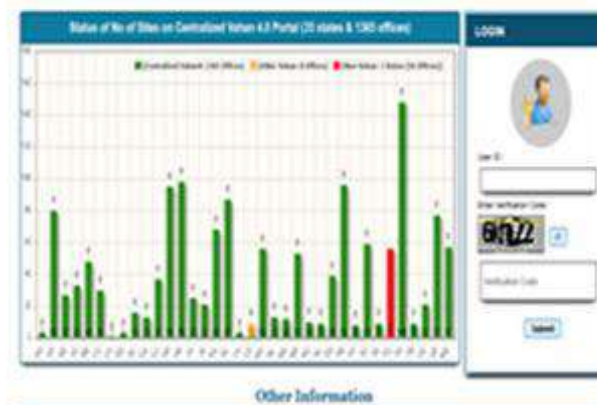
The VAHAN Project covers the core activities :

- 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) Dec'2025 :4,59,172
- ✓ No. of transactions (VAHAN) cumulative :12,78,91,013
- ✓ Vehicle Registration (VAHAN) Dec'2025 :1,31,762
- ✓ Vehicle Registration (VAHAN) cumulative :1,80,17,606

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.



Implementation / Benefits of Citizen:

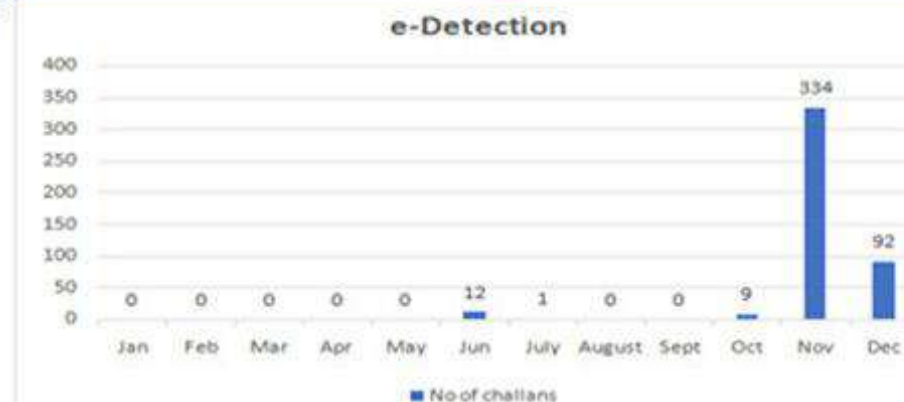
- ✓ Enhances enforcement efficiency and revenue collection by automating detection of defaulting vehicles



Technical Stack

Centrally developed

Graph



Statistics

- ✓ No. of challans (e-Detection) Dec'2025 : 92
- ✓ No. of challans (e-Detection) cumulative : 448

Project Name	Prism Id	Project URL
e-Transport (Content Management System)	3586 G2G & G2C	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

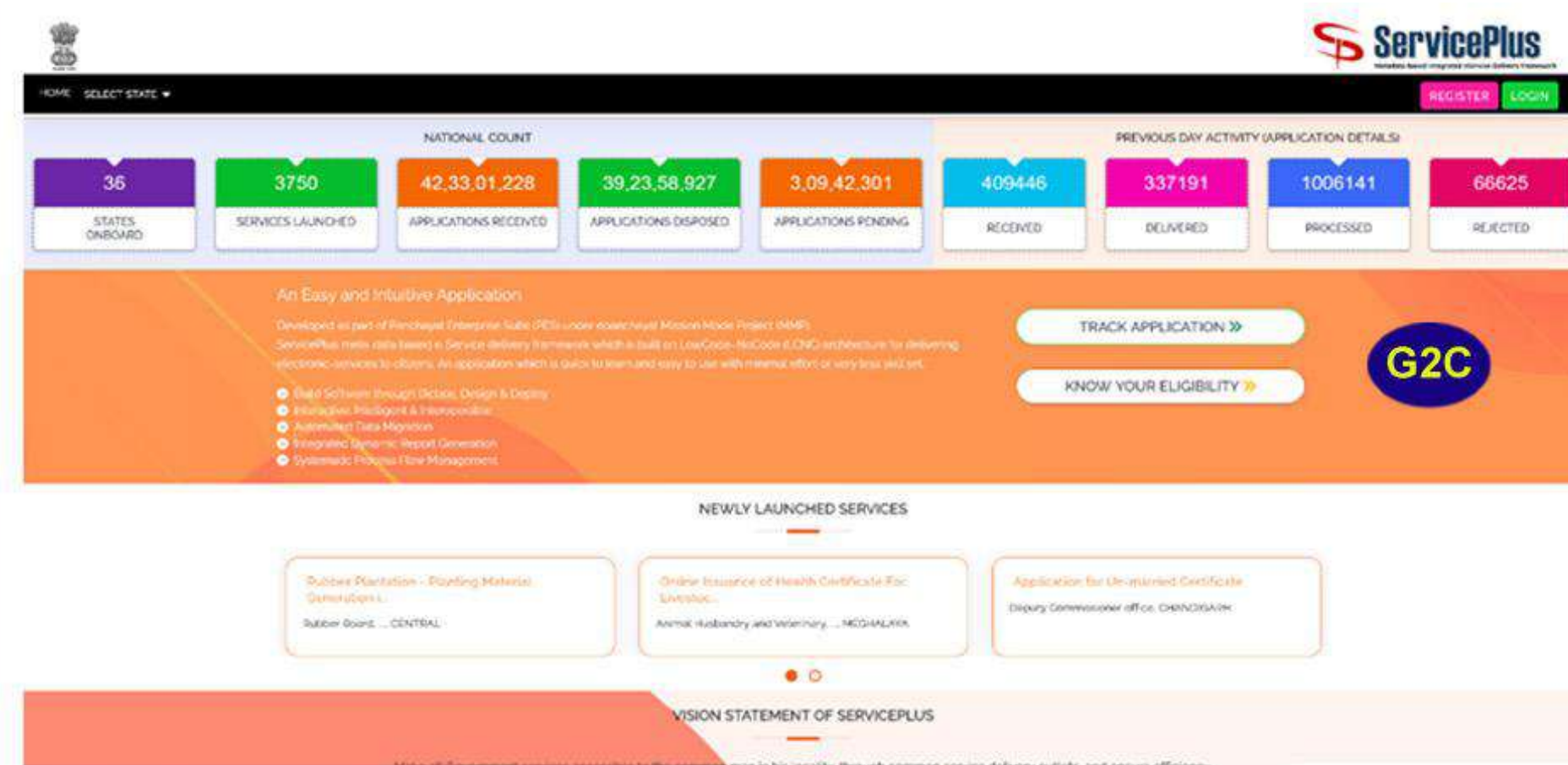
In development stage

Statistics

✓ In development stage

Implementation / Benefits of Citizen:

- ✓ In development stage

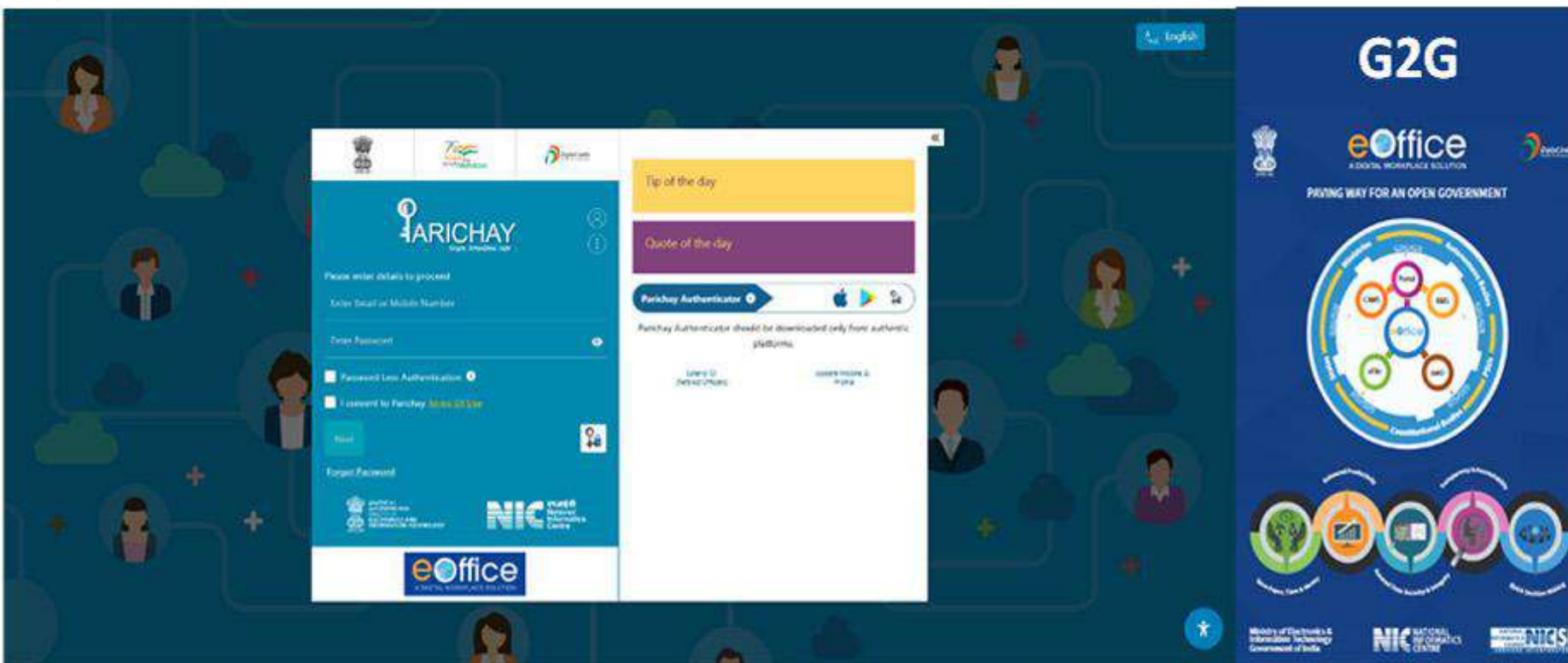


Technology Stack : Java, PostgreSQL, Java Script

Service Plus

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

- Regulatory Approval Services : The services like Issuance of Electricity Permission, festival permission, idol immersion are given to the citizens.
- E-Governance Services : Thirty Nine (39) 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.

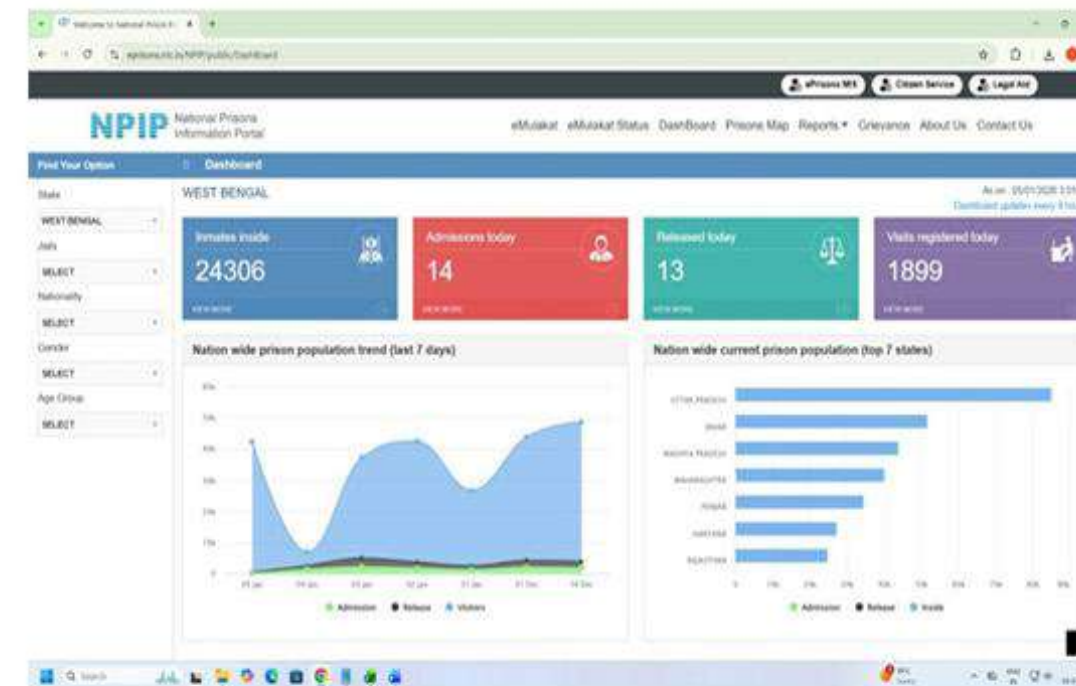


Technology Stack : Java, PHP PostgreSQL, MongoDB, KAFKA, Redis, ELK

eOffice - Government of West Bengal URL : <https://eoffice.wb.gov.in>

- 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.

e-Prison G2G & G2C

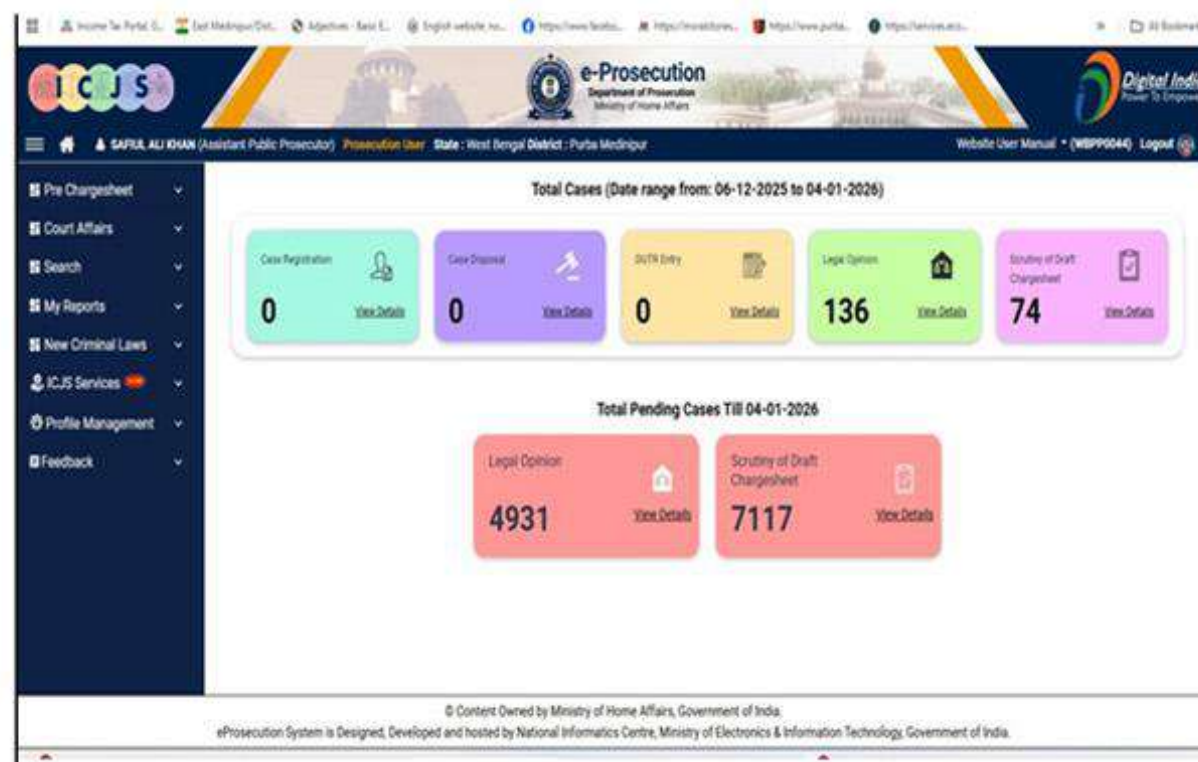


<https://eprisons.nic.in/>

- 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 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.

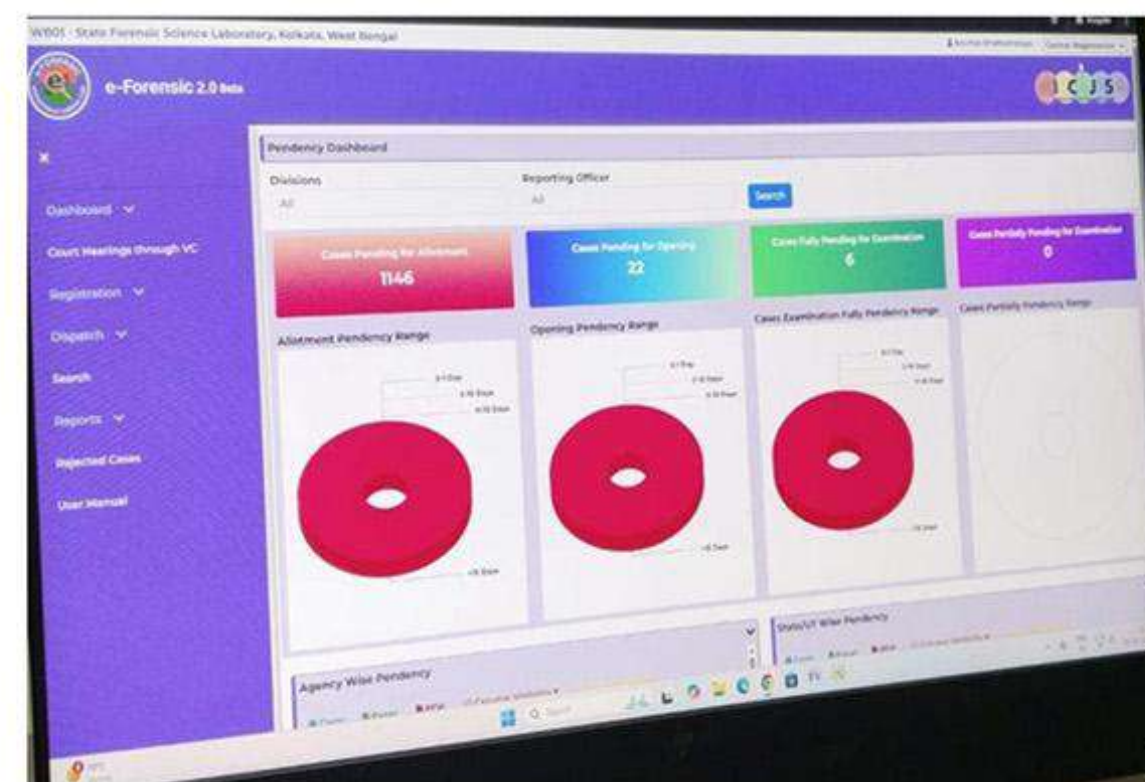
eProsecution



•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



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://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

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

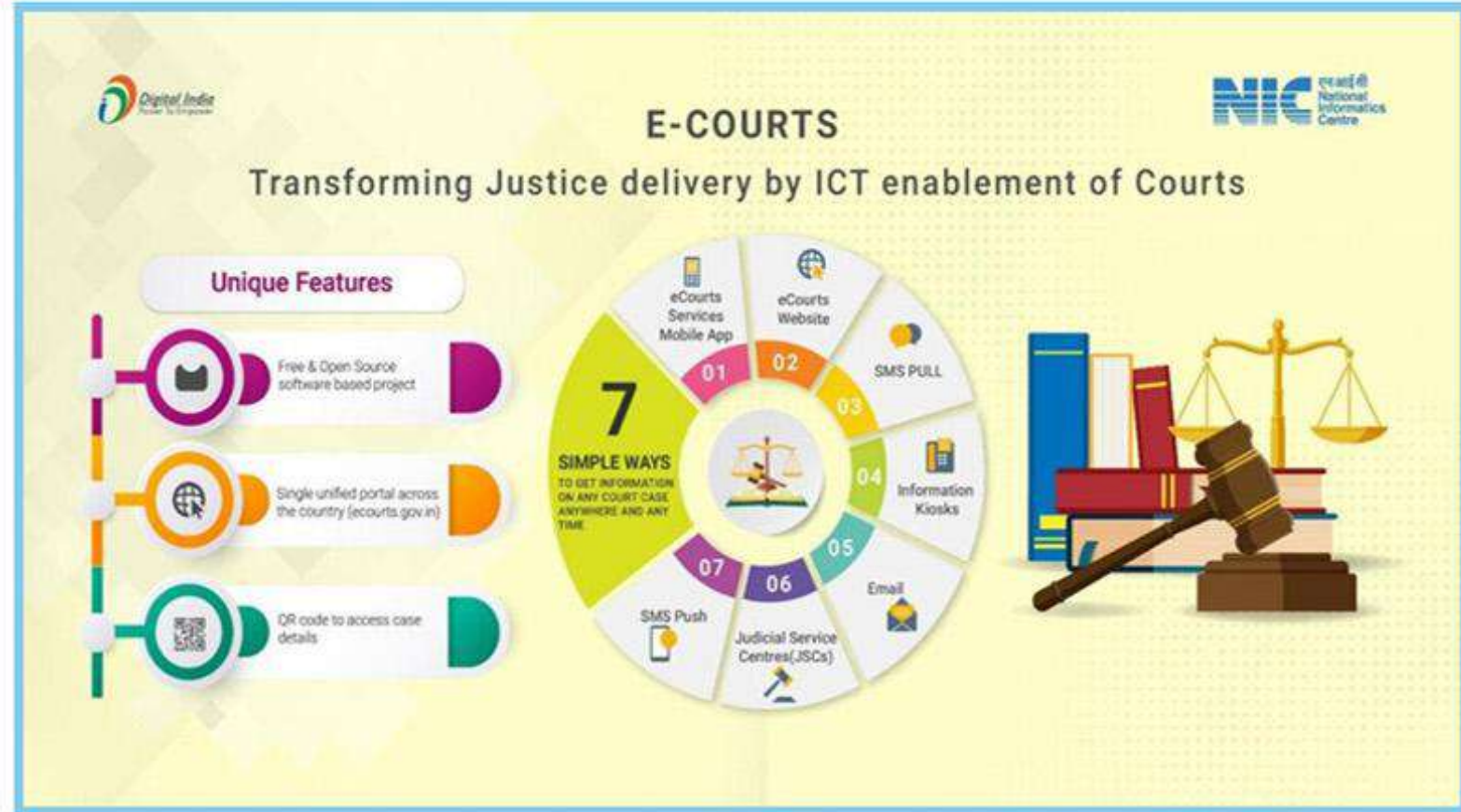
In December, 1 case has been registered in the portal

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)



Central Project (G2G)

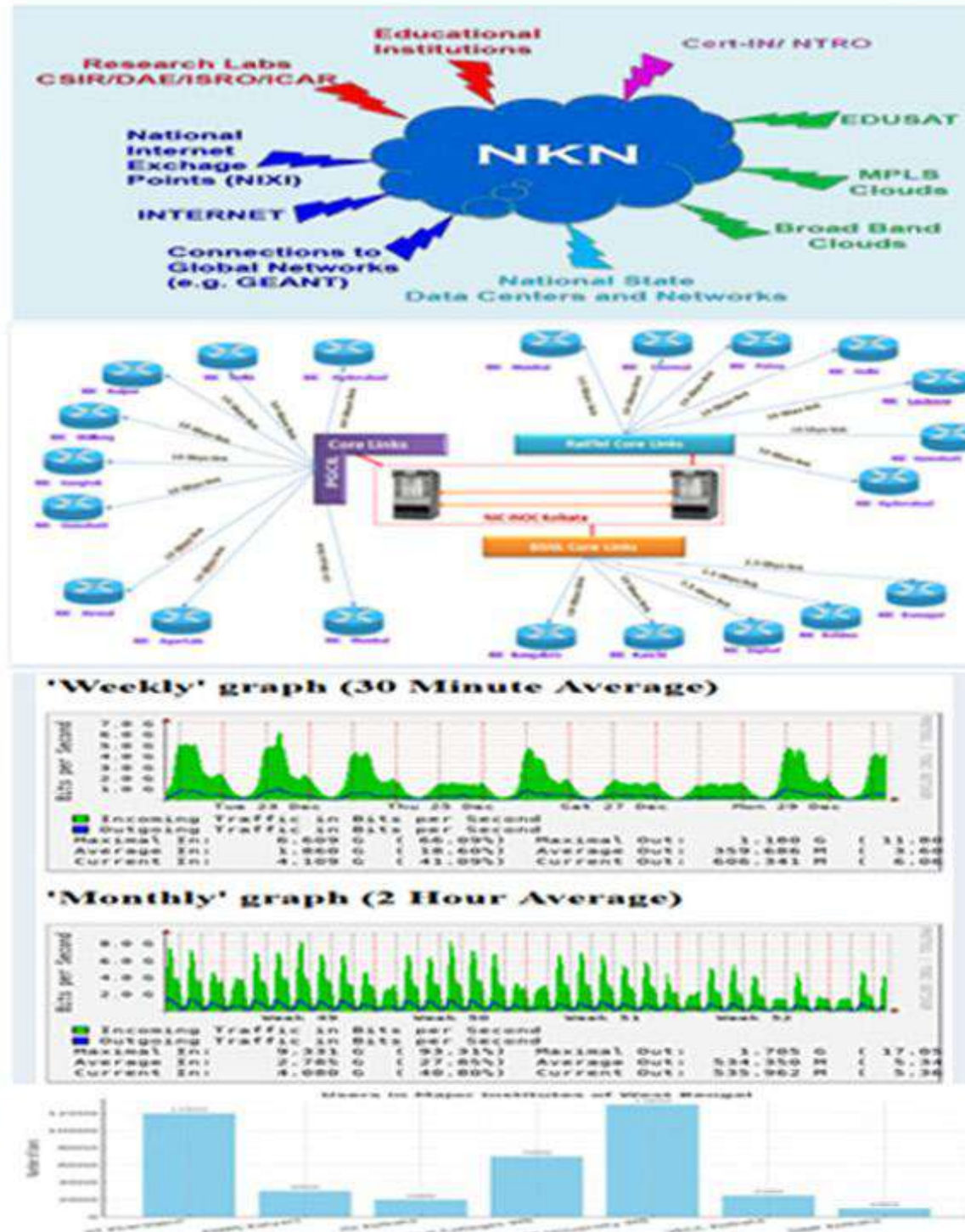
PROJECT NAME	PRISM ID	PROJECT URL
National Knowledge Network (NKN)		URL: https://nkn.gov.in

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

HIGHLIGHTS

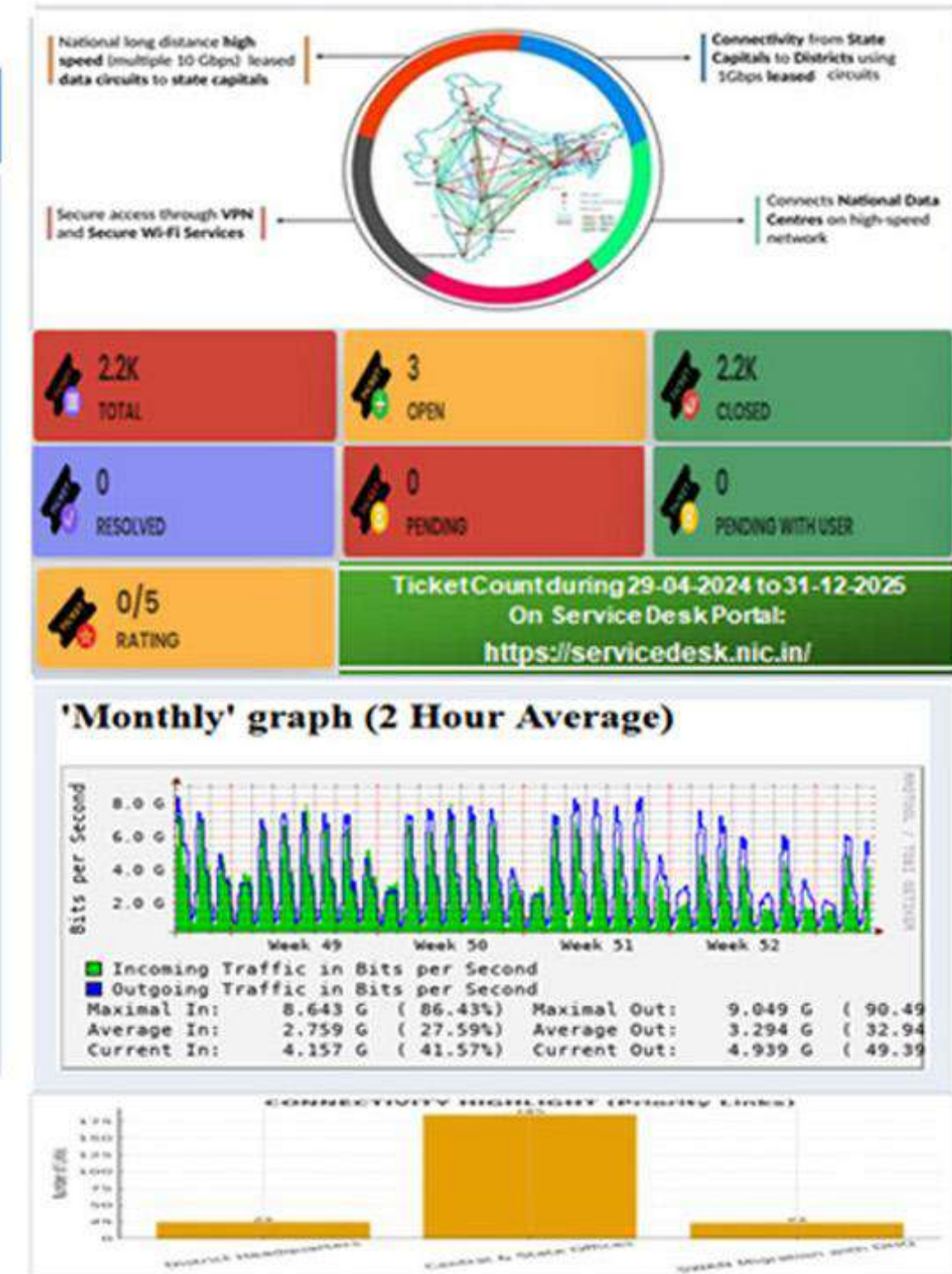
The National Knowledge Network (NKN) project is designed to create a secure and reliable high-speed network across India, connecting universities, research institutions, and healthcare and agricultural institutions. In West Bengal, NKN has been operational since 2010, linking 91 premier educational and 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.



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.



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

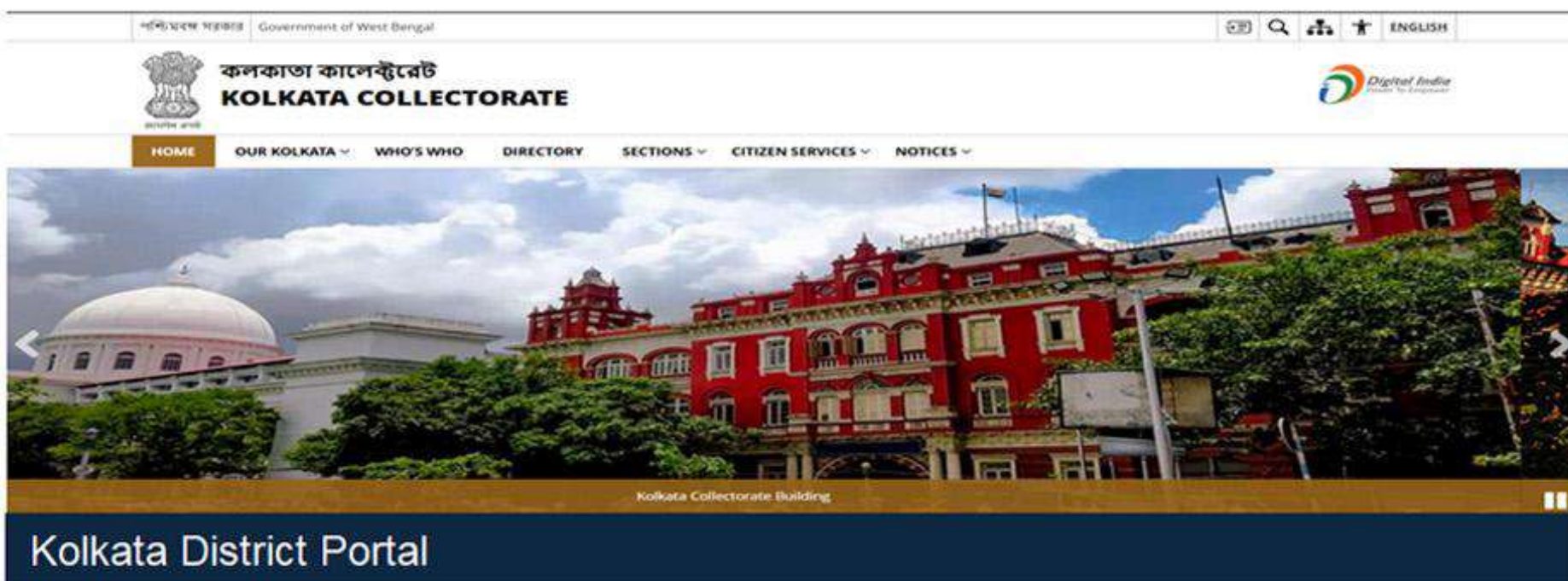


Summary

	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





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

• Kokata 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

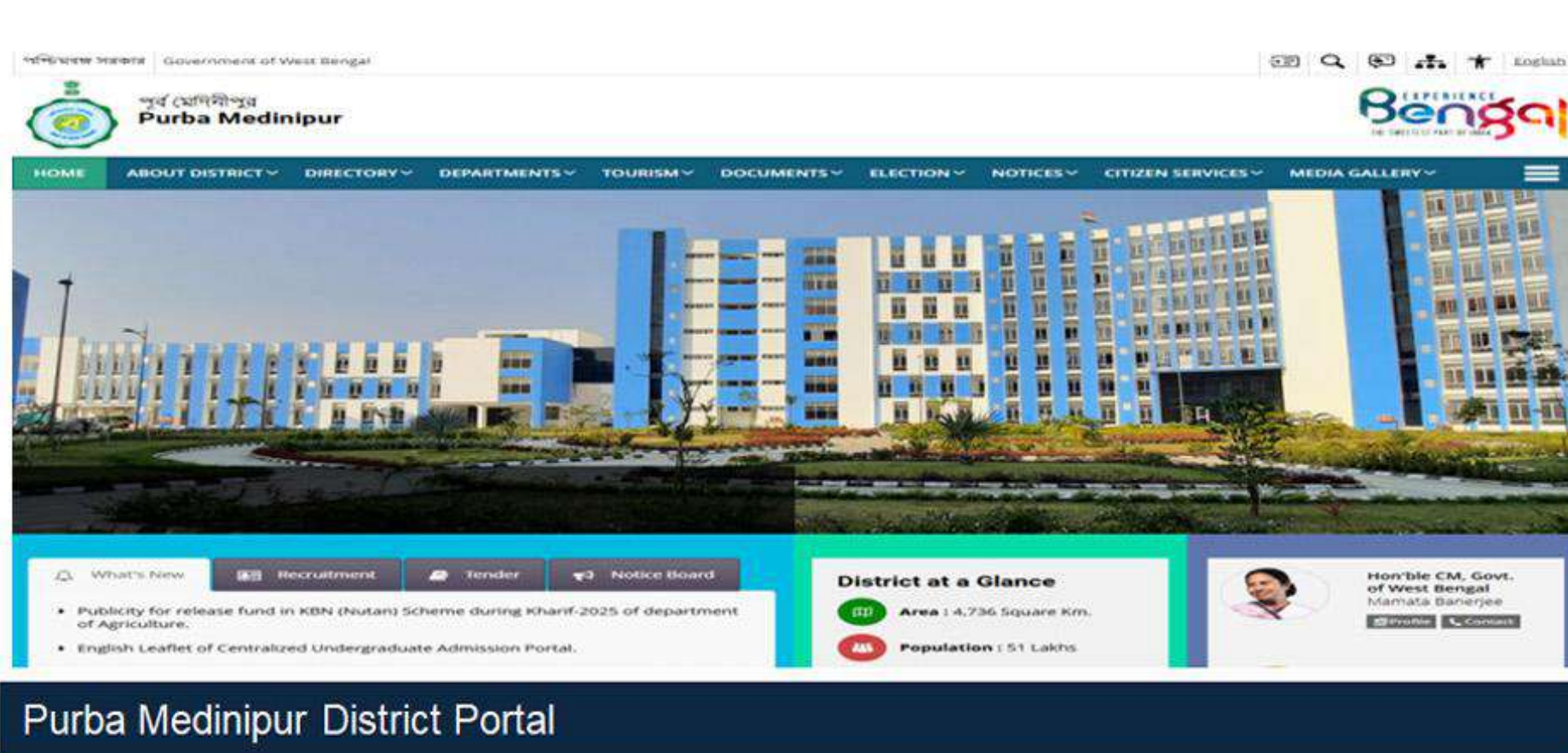
URL: <https://malda.gov.in/>

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.



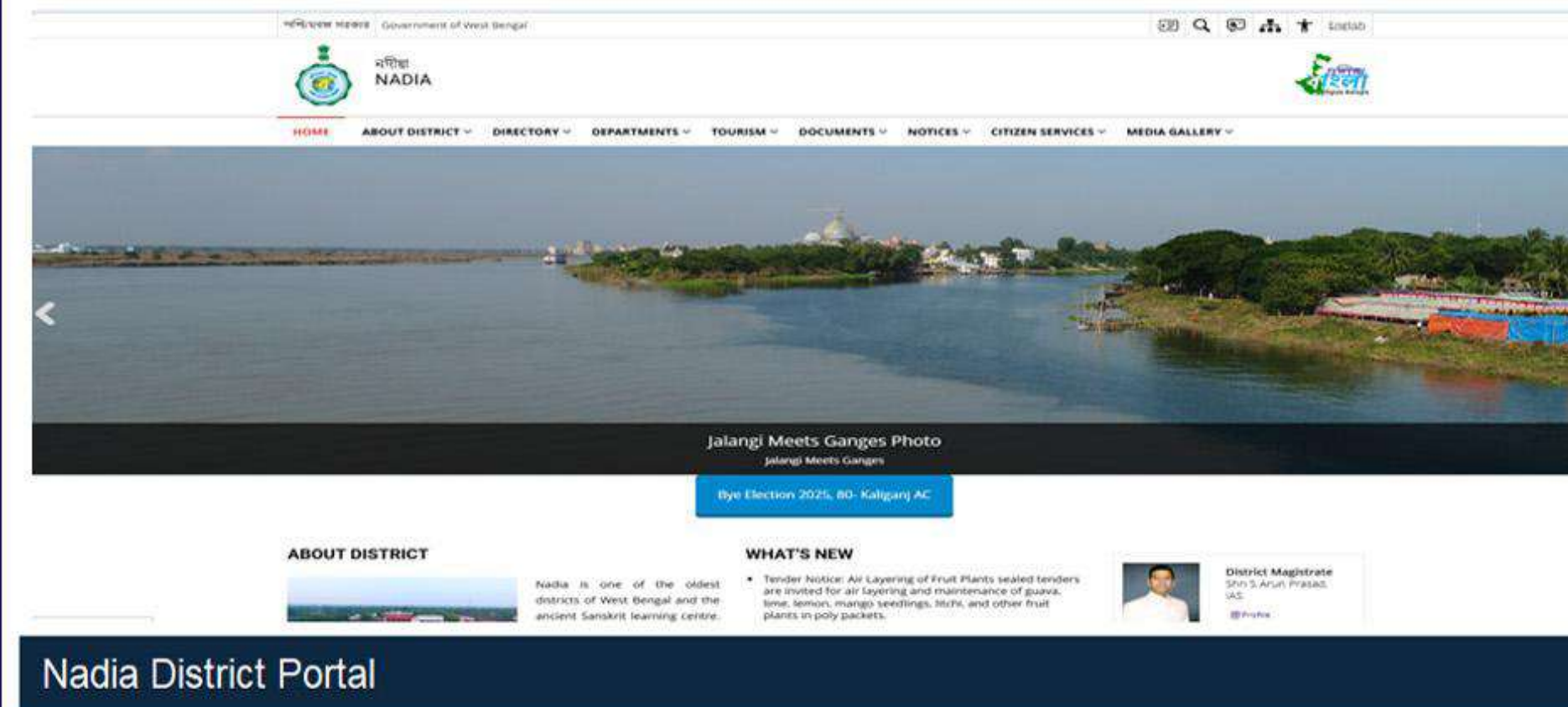
URL: <https://purbamedinipur.gov.in/>

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



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

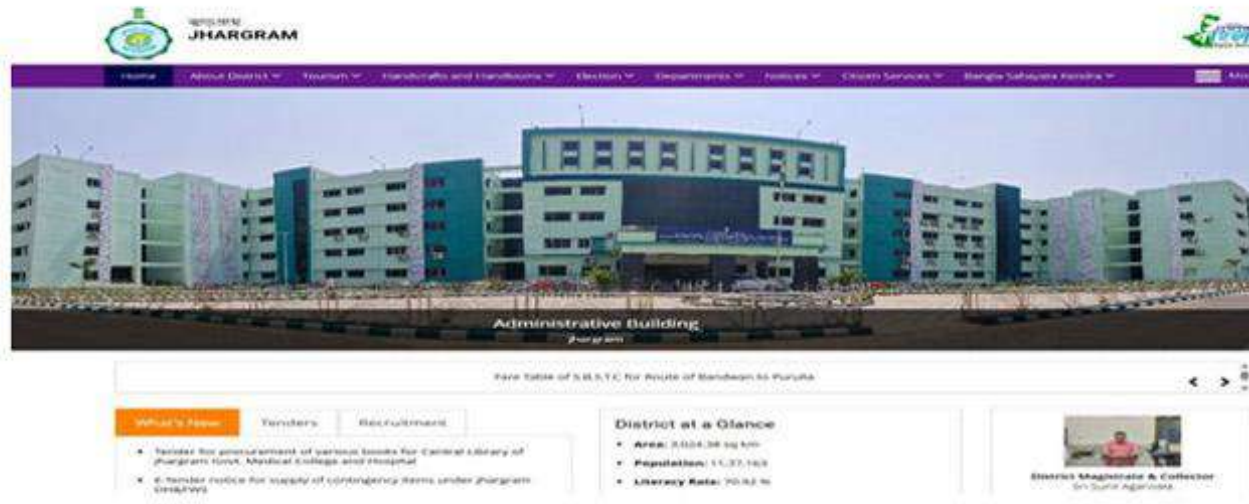
District Specific Activities

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

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

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.
- Video Conference Support.
- NICNET Support.
- Software development and support for various departments within the district.

District Projects



DARJEELING



KALIMPONG DISTRICT



Jalpaiguri



Darjeeling District Portal



Kalimpong District Portal



Jalpaiguri District Portal

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

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

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

Highlights

Highlights

Highlights

District Specific Activities

District Specific Activities

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:

- 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:

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

Summary/Training

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

Summary/Training

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

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

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

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

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



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