

Ladakh UT

Empowering Ladakh through Digital Innovation driven by Technology

Edited by **VINOD KUMAR GARG**

NIC Ladakh serves as the central technical authority and digital backbone for the Union Territory of Ladakh, enabling the design, deployment, and operation of mission-critical ICT systems for governance. Established in the aftermath of Ladakh's formation as a Union Territory, the centre is responsible for building and managing a secure, scalable, and resilient technology ecosystem tailored to the region's unique geographical, climatic, and administrative challenges.

NIC Ladakh plays a pivotal role in implementing national e-Governance platforms, developing UT-specific applications, and maintaining core ICT infrastructure including networks, data services, secure communication systems, and video conferencing facilities. The centre provides end-to-end technical support covering application development, system integration, cybersecurity, data management, and operational continuity for government departments across Leh and Kargil.

By leveraging modern web technologies, workflow-based systems, cloud-enabled services, and interoperable platforms, NIC Ladakh enables automation of government processes, real-time service delivery, and data-driven decision-making. Its technology-led approach ensures high availability of services, compliance with national digital standards, and secure handling of sensitive government and citizen data. Through contin-



Ladakh, India's northernmost and newest Union Territory, blends cultural richness with technological progress. Since its bi-furcation from the state of Jammu & Kashmir in 2019, NIC Ladakh has driven digital transformation, offering over 100+ e-services. It has played an important role in setting up the key ICT infrastructure to bridge the gap between citizens and government. The services by NIC Ladakh include user requirement analysis, system design, development, implementation, training, network and technical support.



uous innovation and infrastructure strengthening, NIC Ladakh UT Centre acts as the cornerstone of Ladakh's digital governance framework, driving efficiency, transparency, and technology-enabled public service delivery.

ICT Initiatives in the State

OBPOS

<https://obps.ladakh.gov.in>

On the occasion of the Union Territory Foundation Day on 31 October 2025, the Hon'ble Lieutenant Governor of Ladakh unveiled the Online Building Permission and Occupancy System (OB-

POS), an end-to-end digital platform designed and developed by the National Informatics Centre (NIC) Ladakh UT Centre. The system has been implemented to modernize, standardize, and expedite the issuance of Building Construction Permits and Occupancy Certificates for the Municipal Committees of Leh and Kargil.

OBPOS is a workflow-driven e-Governance solution that replaces manual, paper-based processes with a transparent, accountable, and time-bound digital mechanism. It enables seamless coordination among citizens, architects, municipal officials, and approving authorities through a single online interface. By digitizing the entire approval lifecycle—from application submission to issuance of digitally signed certificates—the platform significantly reduces processing time, minimizes manual intervention, and enhances transparency in municipal administration.

Designed in alignment with prescribed service timelines and regulatory frameworks, OBPOS offers real-time application tracking, automated notifications, secure online payments, and analytical dashboards for effective administrative monitoring and decision-making. The platform strengthens predictable service delivery and builds greater trust between citizens and municipal authorities.

Key Features

- End-to-end workflow-based digital processing
- Role-Based Access Control (RBAC) for secure and accountable access
- Real-time application tracking through user dashboards
- Automated SMS and e-mail notifications at each stage
- Secure online fee payment integration
- Time-bound service delivery with monitoring and escalation
- Management dashboards and MIS analytics
- Issuance of digitally signed, legally valid certificates

Through OBPOS, NIC Ladakh has delivered a scalable, secure, and citizen-centric digital solution, setting a benchmark for municipal e-services



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e-SEVA Portal

<https://eseva.ladakh.gov.in>

e-SEVA Portal is a unified, citizen-centric digital service delivery platform launched by the Hon'ble Lieutenant Governor of Ladakh and developed by the National Informatics Centre (NIC) Ladakh UT Centre. Conceived as a single digital gateway, the portal streamlines and standardizes government service delivery across the Union Territory through transparent, paperless, and time-bound workflows.

e-SEVA integrates multiple departmental services on a secure and scalable platform, significantly reducing physical visits and manual processes. The first service onboarded is the Online Water Connection Service of the Public Health Engineering (PHE) Department for both domestic and commercial users, enabling online application submission, document upload, fee payment, real-time tracking, and digital approvals. Built on a modular architecture, the portal supports phased onboarding of additional services, ensuring long-term scalability.

By enforcing defined workflows and timelines, e-SEVA enhances accessibility, accountability, and efficiency, bringing governance closer to citizens.

Key Features

- **Single Sign-On:** One-time registration enabling citizens to access multiple departmental services through a single user account.
- **End-to-End Online Processing:** Complete digital lifecycle of services including application submission, scrutiny, approvals, and service delivery.
- **Secure Online Fee Payment:** Integrated digital payment mechanisms ensuring safe and convenient transactions.
- **Real-Time Application Tracking:** User dashboards provide visibility into application status at every stage of processing.
- **Automated SMS Notifications:** System-generated alerts to keep applicants informed of application progress, queries, and final decisions.
- **Transparent and Time-Bound Service Delivery:** Workflow-driven processing with defined timelines to ensure accountability and timely service delivery.

The e-SEVA Portal serves as a foundational digital platform for the Union Territory, enabling integrated service delivery, improving administrative efficiency, and reinforcing the commitment of the Ladakh UT Administration towards citizen-first, technology-driven governance.

LSSSSB Portal

<https://lssssb.ladakh.gov.in>

The Ladakh Subordinate Services Staff Selection Board (LSSSSB) Portal is a comprehensive, end-to-end digital recruitment platform designed and developed to automate and manage the entire lifecycle of recruitment for subordinate services in the Union Territory of Ladakh. The portal has been developed by NIC Ladakh with the objective of ensuring transparency, efficiency,

NIC has been instrumental in transforming digital governance in the Union Territory of Ladakh. Their efforts in implementation of e-Office, web portals and online services like SMART-PDS, LIFMS, OBPS, LSSSSB Portal, e-Seva, NGDRS, Online Consent Management and Monitoring System, Vahan, Sarathi, NIC/NKN network connectivity and video conferencing services have enhanced the operational efficiency of our e-Governance initiatives aimed at enhancing public service delivery, ensuring transparency, and promote digital inclusivity.



Dr. Pawan Kotwal, IAS

Chief Secretary, Union Territory of Ladakh

accuracy, and standardization in the recruitment process.

The system replaces manual and fragmented recruitment procedures with a fully online, workflow-driven mechanism covering all stages—from advertisement to final result declaration. It provides a seamless interface for both candidates and the recruiting authority, significantly reducing administrative overhead, processing time, and scope for human error.

For candidates, the portal enables online registration, submission of applications for one or multiple posts, uploading of documents, and secure online fee payment. It supports automated allocation of roll numbers and examination centres, generation and download of admit cards, and online publication of results. Candidates receive timely system-generated notifications, ensuring clarity and predictability throughout the recruitment cycle.

From an administrative and examination management perspective, the portal digitizes all critical internal processes, including creation of posts, publication of advertisements, online scrutiny and validation of applications, roll number generation, and examination centre allocation. It also

supports exam-day logistics management, such as seating plan generation and centre-wise candidate mapping, enabling smooth and well-coordinated conduct of examinations.

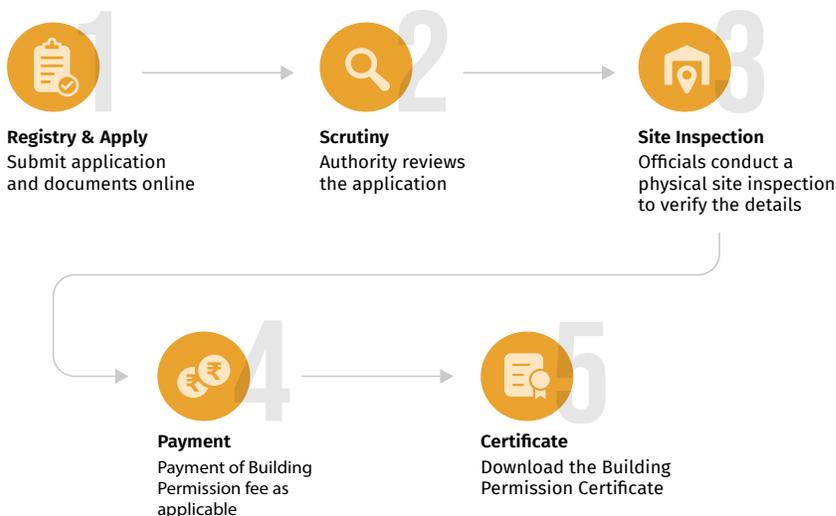
To further strengthen examination integrity and identity verification, a dedicated mobile application for LSSSSB Exam Day Photo Verification and Capture has been developed. The mobile app is used at examination centres to:

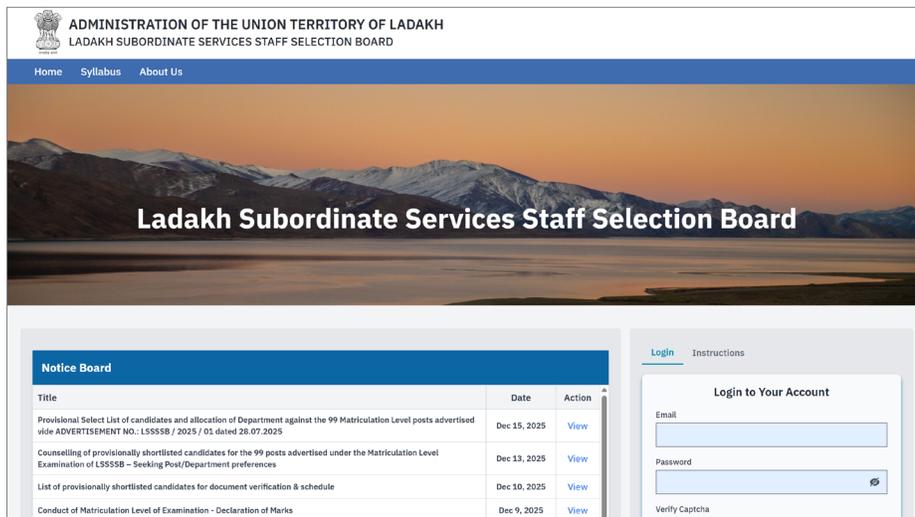
- Verify the candidate's photograph against the application data
- Capture a live photograph of the candidate on the day of examination
- Create a secure, time-stamped digital record for post-exam verification and audit

The LSSSSB Portal and its integrated mobile application together form a robust, secure, and scalable digital recruitment ecosystem. By leveraging technology to ensure fairness, transparency, and operational efficiency, the platform significantly enhances the credibility and effectiveness of recruitment processes in the Union Territory.

- **Candidates Registered -** 15265
- **Post advertised -** 22
- **Applications received -** 47705

▼ Fig.3.1 Workflow of OBPOS





▲ Fig 3.2 : LSSSSB Portal Home Page

- Exam Centres - 19
- Candidates appeared for Exam - 4364
- MobileApp Photo verification - 100%

Ladakh Employee Transfer Portal

<https://transferportal.ladakh.gov.in>

The Ladakh Employee Transfer Portal is an integrated, web-based application designed and developed by NIC to digitize and streamline the internal employee transfer process within key departments of the Union Territory of Ladakh. The portal has been implemented for the Health & Medical Education Department, Public Works Department (PWD), and Public Health Engineering (PHE) Department.

The system replaces manual, paper-based transfer procedures with a transparent, rule-based, and user-friendly digital workflow. It enables employees to submit transfer applications online and track their status in real time, thereby improving accessibility, reducing administrative delays, and ensuring consistency in transfer processing across departments.

Key Features

- **One-Time Employee Registration:** Healthcare workers, doctors, and engineers can register on the portal using a single profile. Based on eligibility criteria defined by departmental transfer

policies, employees can apply for inter-district or intra-district transfers.

- **Vacancy Visibility and Preference Selection:** Employees can view post-wise and location-wise vacancy details and submit transfer applications by selecting up to three preferred locations.
- **Transparent Application Tracking:** Applicants can monitor the status of their transfer requests at each stage through the online dashboard.
- **Policy-Based Administrative Processing:** Department administrators have access to a consolidated view of all transfer applications and can process requests in accordance with prescribed policies, considering factors such as employee preferences, tenure at current and previous postings, and vacancy position.

The Ladakh Employee Transfer Portal ensures a fair, data-driven, and transparent transfer mechanism, reduces manual intervention, and supports efficient human resource management across critical departments of the Union Territory.

REWA Portal

<https://socialwelfare.ladakh.gov.in/rewa>

The REWA Portal is a web-based application designed and developed by NIC for the Social & Tribal Welfare Department of the Union Territory of Ladakh. The portal supports the implementa-

tion of REWA (Lt. Governor's Initiative), a flagship scheme aimed at providing financial assistance of up to ₹1.00 lakh to meritorious and aspiring students of Ladakh for pursuing coaching for various national-level competitive examinations such as JEE, NEET, UG-CLAT, and NDA.

The REWA Portal enables eligible students to register online, submit applications, upload required documents, and track their application status through a transparent and streamlined digital process. By eliminating manual procedures, the system ensures fair selection, efficient processing, and timely disbursement of benefits. To date, 189 students from Ladakh have benefited from financial assistance under the REWA scheme, reflecting the portal's role in promoting equitable access to quality educational opportunities for the youth of the Union Territory.

Senior Citizen Card Portal

<https://socialwelfare.ladakh.gov.in/senircitizencard>

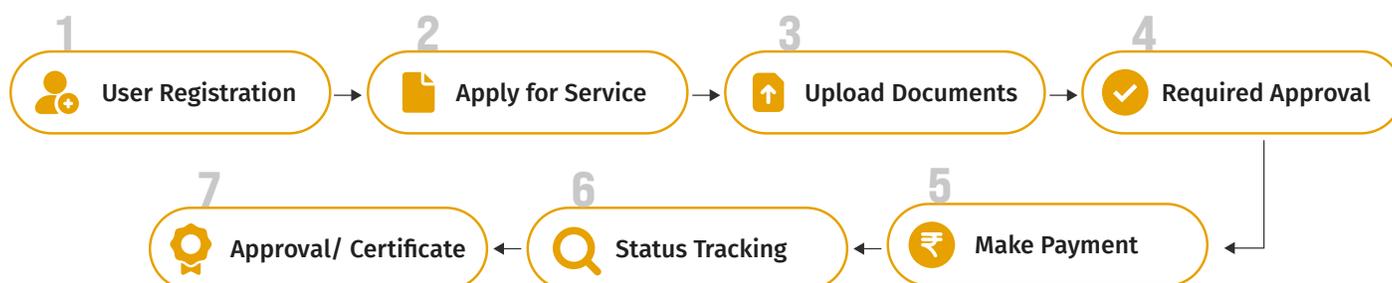
The Senior Citizen Card Portal is a dedicated digital platform developed and implemented by NIC for the Social Welfare Department, Ladakh, to facilitate online registration and issuance of Senior Citizen Cards for eligible residents of the Union Territory. The portal is designed to provide senior citizens with a simple, accessible, and paperless mechanism to apply for and obtain their identity cards without the need for repeated physical visits to government offices.

Key Features

- **Citizen-Friendly Interface:** A simple and intuitive registration process tailored specifically for senior citizens, enabling remote access to services.
- **Eligibility and Document Validation:** Applicants must be 60 years of age or above and possess a valid Ladakh Resident Certificate. Required documents include age proof (such as birth certificate or voter ID), address proof (such as Aadhaar), and recent photographs.
- **Digital and Physical Card Issuance:** Approved applicants can collect physical cards through District Social Welfare Offices (DSWOs) or designated camps, while digitally signed cards are also made available for online download.

The REWA Portal and the Senior Citizen Card Portal together strengthen the delivery of welfare services in Ladakh by ensuring transparency,

▼ Fig 3.3 Workflow of e-Seva service platform



inclusivity, and ease of access through technology-driven solutions.

e-Office Ladakh

<https://eoffice.ladakh.gov.in>

The e-Office system has been successfully implemented across the Union Territory of Ladakh, marking a major transition from manual, paper-based file handling to a fully digital and automated office workflow. The initiative aims to enhance efficiency, transparency, accountability, and inter-departmental coordination in government functioning.

The rollout of e-Office spans UT Secretariat, District Offices, Sub-Divisions, and Block-level offices, enabling seamless electronic file movement, decision-making, and record management across departments. The system has been implemented through close collaboration between the Information Technology Department and NIC.

Implementation Highlights

- Number of Departments/Offices Onboarded: 50
- Total e-Office Users: 1,862
- Total e-Files Created: 36,992

The adoption of e-Office has significantly reduced file processing time, minimized physical movement of documents, improved traceability of decisions, and strengthened institutional memory through secure digital records.

NextGen e-Hospital

<https://nextgen.ehospital.gov.in>

The NextGen e-Hospital Health Management Information System (HMIS) has been implemented in all 35 hospitals and health centres across the Union Territory of Ladakh under the Digital India initiative. The system has transformed healthcare delivery by digitizing core hospital operations and creating a unified digital platform for patient and hospital management.

Key hospital services such as patient registration, appointment scheduling, electronic medical records (EMR), and report management have been fully digitized, significantly improving service efficiency and patient experience.

Advanced Integrations

- **Laboratory Information System (LIS):** Enables seamless handling of laboratory investigations and report generation.
- **Scan & Share Module:** Facilitates secure remote sharing of diagnostic images, supporting faster and more accurate clinical decisions.

The integrated digital ecosystem has enhanced accessibility, transparency, and continuity of care, especially critical in Ladakh's geographically dispersed and remote healthcare settings.

SMART-PDS

<https://ld.smartpds.nic.in>

The Scheme for Modernization and Reform through Technology in Public Distribution System (SMART-PDS) is being implemented in Ladakh to digitally strengthen the Public Distribution System. The initiative leverages technology to improve transparency, efficiency, and accountability

▲ Fig 3.4 : Rewa Portal Home Page

in the distribution of essential commodities.

By reducing manual intervention and automating beneficiary authentication and transaction processes, SMART-PDS ensures timely, accurate, and leak-proof delivery of food grains and other essentials.

Impact

- Beneficiaries Covered: Over 2.15 lakh residents of Ladakh
- Improved operational efficiency and real-time monitoring
- Enhanced trust and service reliability for citizens

RTI Online Portal

<https://rtionline.ladakh.gov.in>

The Right to Information (RTI) Online Portal provides a digital interface for citizens to submit RTI applications, track request status, and receive information electronically. The platform promotes transparency, reduces paperwork, and streamlines the handling of RTI requests by public authorities.

The Hon'ble Lieutenant Governor of Ladakh lauded the initiative, stating that the portal represents a robust and efficient mechanism for

managing RTI applications and reflects the administration's commitment to open and accountable governance.

MedLEaPR

<https://medleapr.ladakh.gov.in>

The MedLEaPR application has been rolled out in Ladakh in compliance with the New Criminal Laws and is integrated with CCTNS under the Inter-Operable Criminal Justice System (ICJS). The system enables seamless digital exchange of medico-legal and post-mortem information among hospitals, forensic laboratories, police, and judiciary.

Key Features

- Graphical and pictorial representation of findings
- Integrated e-Sign for authenticated digital reports
- Real-time data sharing across ICJS pillars
- Faster submission of medico-legal and post-mortem reports

MedLEaPR significantly accelerates investigation processes while ensuring accuracy, integrity, and legal validity of medical documentation.

▼ Fig 3.5 : Launch of Ladakh Senior Citizen Card

Online Fire and Rescue Service NOC Portal

<https://fireservice.ladakh.gov.in>

The Online Fire NOC Portal is a workflow-driven, role-based digital platform for applying and issuing Fire No Objection Certificates (NOCs). The system allows applicants to submit applications and building plans online, eliminating the need for physical visits.

Automated workflows, defined timelines, and SMS notifications at every stage ensure faster processing, transparency, and predictable service delivery, benefiting both citizens and departmental officials.

Ladakh e-Procurement Portal

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

The e-Procurement Portal of UT Administration, Ladakh enables end-to-end digital tendering, allowing bidders to download tender documents free of cost and submit bids online in a secure and transparent manner.

Key Statistics

- Organizations Onboarded: 31
 - Government Officers/Officials: ~500
 - Registered Bidders: 4,695+
 - Tenders Published: 39,715
 - Cumulative Tender Value: ₹25,64,547.57 lakh
- The portal has significantly enhanced transparency, competition, and efficiency in public procurement across the Union Territory.

NGDRS

<https://ngdrs.ladakh.gov.in>

In the Union Territory of Ladakh, the registration of revenue and property-related documents was traditionally handled by judicial officers. To strengthen institutional capacity and improve service delivery, the UT Administration constituted a dedicated Registration Department under the administrative control of the Revenue Department, thereby separating judicial and executive functions in document registration.

To support this transition, the National Ge-

neric Document Registration System (NGDRS)—a standardized e-Governance solution developed by NIC, Pune—has been implemented across Ladakh. NGDRS enables a shift from a manual, paper-based registration process to a fully digital platform, significantly enhancing transparency, efficiency, accessibility, and regulatory compliance in property and revenue transactions.

The system facilitates online appointment booking, document registration, fee calculation, and real-time tracking of registration processes. Integration with the e-Stamping system eliminates the use of physical stamp papers, reducing fraud, preventing revenue leakage, and ensuring statutory compliance.

Implementation Snapshot

- Number of Sub-Registrar Offices (SROs): 14
- Total Appointments Booked: 3,981
- Documents Registered: 3,636
- Revenue Collected: ₹1,449.97 lakh

NGDRS has streamlined citizen interaction with registration offices, reduced processing time, and strengthened trust in property registration services across the Union Territory.

LIFMS

<https://lifms.ladakh.gov.in>

The Ladakh Integrated Financial Management System (LIFMS) is a comprehensive, web-based financial application developed to support online budgeting, fund authorization, and real-time expenditure monitoring across the UT Administration. The system enables end-to-end digitization of the budgeting lifecycle—from preparation and approval of budgets to continuous monitoring of expenditure.

LIFMS streamlines online budget distribution from the Finance Department to Administrative Departments, and further from Heads of Departments (HoDs) to Drawing and Disbursing Officers (DDOs). By providing real-time financial visibility, the system strengthens fiscal discipline, improves financial planning, and enhances transparency in public fund management.

Ladakh e-Gazette

<https://egazette.ladakh.gov.in>

The Ladakh e-Gazette is a digital platform developed by NIC for the publication of official government notifications, statutory orders, rules, and legal documents. The system has been adopted by the UT Administration to replace traditional print-based gazette publication.

The platform ensures timely dissemination, easy public access, authenticity, and permanent archival of Gazette notifications. By enabling online publication and searchability, the e-Gazette enhances transparency, reduces publication delays, and supports open governance.

Lok Niwas, Ladakh Website

<https://rajniwas.ladakh.gov.in>

On the occasion of Union Territory Foundation Day on 31 October 2025, the Hon'ble Lieutenant Governor of UT of Ladakh, Kavinder Gupta, inaugurated the official Lok Niwas, Ladakh website. The website represents a significant milestone in digital transparency and public engagement at the highest constitutional office in the UT.

The platform is built on a robust Content Management System (CMS) and provides a modern, responsive, and secure digital presence for Lok Niwas, enabling efficient information dissemination and content management.

Key Features

- **Modern, User-Friendly Interface:** Clean and responsive design ensuring seamless access across desktops, tablets, and mobile devices.
- **Fully Managed CMS:** Empowers authorized users to manage website content independently without technical expertise.
- **Dynamic Content Management:** Text, images, announcements, and updates can be added or modified in real time through the CMS.
- **Photo Gallery Management:** Dedicated modules for uploading and updating event photo galleries directly from the admin panel.

The Lok Niwas website strengthens institutional transparency, improves public outreach, and reinforces the UT Administration's commitment to digital-first governance.

ICT Infrastructure in Ladakh

With the formation of Ladakh as a new Union Territory, the establishment of a robust and scalable ICT infrastructure has been a critical prerequisite for enabling effective digital governance. NIC Ladakh is systematically developing and strengthening ICT infrastructure to support the UT Administration's e-Governance initiatives, ensuring seamless communication, secure data management, and reliable digital service delivery to citizens and government departments.

NIC/ NKN Network Infrastructure

NIC Ladakh has established a comprehensive Local Area Network (LAN) and connectivity framework linking key government offices to facilitate secure and efficient data exchange. The network extends across UT Secretariat offices, district ad-

▼ Fig 3.6 : Dr. Pawan Kowal, Chief Secretary, inaugurating the MedLEaPR



ministrations, the University of Ladakh, police establishments, and other government institutions, forming the backbone of inter-departmental digital communication.

Through the District Headquarters (DHQ), NIC Ladakh is provisioned with dual 1 Gbps core links (2 × 1 Gbps) from two separate Telecom Service Providers (TSPs). This dual-homing architecture enhances network resilience, ensures high availability, and delivers reliable, high-speed, and cost-effective connectivity across the Union Territory.

VC Infrastructure

NIC Ladakh provides centralized Video Conferencing (VC) services at the Lieutenant Governor's Secretariat, UT Secretariat, and two District Centres. These facilities enable real-time interaction between UT Administration, district authorities, and Central Ministries, significantly reducing the need for physical travel in a geographically challenging region.

- Total VC Sessions Conducted: 4,500+
- Total Participants: 160,500+

The VC infrastructure has become a critical enabler for governance reviews, trainings, inter-governmental coordination, and public engagements.

Government E-mail and Messaging Services

NIC Ladakh delivers secure, reliable, and policy-compliant government e-mail and messaging services to UT Administration officials and staff. Currently, more than:

- 2,500 users are active under the @ladakh.gov.in domain, and
- 2,400 users are active under the @police.ladakh.gov.in domain.

These services support official communication across departments while ensuring data security, authenticity, and continuity of government operations.

Through continuous expansion and modernization of its ICT infrastructure, NIC Ladakh UT Centre plays a foundational role in enabling efficient ad-



▲ Fig 3.8 : Shri Kavinder Gupta, Hon'ble Lieutenant Governor, Ladakh launching several e-Gov services

ministration, resilient digital services, and technology-driven governance in the Union Territory.

Important Events Organised

On the occasion of the Foundation Day of the Union Territory of Ladakh on 31 October 2025, the Hon'ble Lieutenant Governor of Ladakh, Kavinder Gupta, formally launched a series of key e-Governance initiatives developed and implemented by NIC Ladakh. These included the Website of Lok Niwas, Ladakh, the Online Building Permission & Occupancy System (OBPOS), and the onboarding of Lok Niwas on the Swagatam Portal. Collectively, these initiatives marked a significant step towards strengthening transparency, accountability, and administrative efficiency, while expanding citizen access to digital government services.

In another major milestone, the Medico Legal Examination and Post-Mortem Reporting System (MedLEaPR) was inaugurated on 8 April 2025 by the Chief Secretary of the Union Territory of Ladakh. The launch of MedLEaPR represented a critical advancement in the digital integration of healthcare and justice systems, enabling secure, standardized, and time-bound medico-legal reporting in alignment with the new criminal laws and the

Inter-Operable Criminal Justice System (ICJS).

NIC Ladakh also played a pivotal operational role during the Khelo India Winter Games held in Leh, where it was entrusted with the responsibility of ICT and Games Management System (GMS) as a designated functional area. NIC Ladakh provided comprehensive technical support and coordination for the conduct of the National Winter Games, ensuring reliable digital infrastructure, system availability, and seamless technology-enabled event management.

Way Forward

NIC Ladakh envisions a future where emerging and transformative technologies form the backbone of smarter, more responsive, and inclusive governance. The strategic focus is on expanding citizen-centric digital platforms, enabling real-time service delivery, and enhancing user experience through intuitive, accessible applications. Strengthening cybersecurity frameworks remains a priority to safeguard sensitive government and citizen data.

Special emphasis is being placed on digital inclusion, ensuring that citizens in remote and geographically challenging areas of Ladakh can access government services through reliable, secure, and easy-to-use digital interfaces. Capacity building, system scalability, and interoperability across platforms will continue to guide future initiatives.

With a strong foundation of robust ICT infrastructure and proven e-Governance solutions, NIC Ladakh is well-positioned to deliver scalable, secure, and citizen-focused digital systems. The centre remains committed to supporting the UT Administration in establishing Ladakh as a benchmark for digital governance, transparency, and sustainable development.

Contact for more details

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▼ Fig 3.7 : Khelo India Winter Games in Ladakh