

# ODISHA STATE

## Empowering Digital Odisha with 5Ts Mantra

The advent of National Data Centre (NDC) in Bhubaneswar by the Government of India and the adoption of 5Ts (Technology, Teamwork, Time, Transparency and Transformation), the new concept of service delivery by the Government of Odisha, jointly give a tremendous thrust on e-Governance service delivery in the State. Being the leading technology partner and ICT solution provider to the Government, NIC Odisha is determined to bring the best ICT solution for citizens.



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Since its inception in 1985, NIC Odisha State Centre in Bhubaneswar (designated for many years as one of the four regional centres of NIC) has been working with firm commitment to deliver and match the expectation of people of Odisha to maintain its top-slot in ICT technology and its implementation in the country. The inception of National Data Centre in Bhubaneswar by the Government of India and the adoption of 5Ts (Technology, Teamwork, Time, Transparency and Transformation), the new citizen-centric service delivery concept, by the Government of Odisha brought NIC Odisha to set its new voyage with all vigor to help the State in its ICT endeavors.

### STATE PROJECTS

#### Agriculture Sector

NIC, being the technology partner of the Department of Agriculture and Farmers' Empowerment, Government of Odisha, started a complete process re-engineering for all of its schemes that has streamlined various agricultural processes involving multifarious activities of agricultural inputs. A centralized Farmer Registration System has been developed having 24+lakh registered bank account validated farmers.

ICT applications related to Direct Benefit Transfer (DBT) of incentives developed by NIC Odisha in domains like Farm Mechanization, Solar Pumps Set Distribution, Cluster River Lift, Jalanidhi (Shallow Tube Well, Bore Well), Mukhya Mantri Krushi Udyoga Yojana etc., are integrated with the centralized Farmer Registration System for farmer's identification and subsidy disbursement. A licensing system has been designed for seed, pesticide and fertilizer for facilitating the sale of all notified seeds, Central Insecticide Board (CIB) registered pesticides and Fertiliser Control Order (FCO) notified fertiliser at GP level. A mobile-based pest advisory

with e-Pest surveillance and crop weather watch-group system has been designed for rendering better services to farmers. NIC Odisha has developed a complete end-to-end integrated system covering all the six verticals of seed arena providing a holistic ecosystem to the seed domain. NIC Odisha team also rendered support to replicate two verticals of the seed system to other states such as Uttarakhand.

#### Mobile Apps Developed

- Odisha State Seeds and Organic Products Certification Agency (OSSOPCA) Inspection Mobile App



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The contribution of NIC Odisha in the realm of the State's e-Governance space has been significant and to a great measure, it has been instrumental in overall growth of ICT in the State. With ever increasing surge in demand for digital services, the capability of NIC and its recalibrated effort as per the State's mandate both in service delivery and underlying automation would be of immense help.

The State Administration is pushing technology as part of 5T Mantras in every sphere of governance. With adoption of NextGen Technologies in governance such as Data Analytics, Security, Cloud and Mobile Computing, Odisha is sure to leap frog to a different league. I am sure NIC would continue to play a pivotal partnership role with Odisha Government in its efforts to perform, reform and transform.”

**ASIT TRIPATHY, IAS**  
Chief Secretary  
Government of Odisha

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- Automation System of Seed Certification for Uttarakhand (ASSCU) Inspection Mobile App
- Farm Mechanisation
- Solar Pump Set Distribution
- Jalanidhi
- e-Pest Surveillance

### Awards and Accolades

- CSI Nihilent e-Governance award
- National e-Governance (Silver) award

## Education Sector

### School Monitoring

A School Monitoring Application has been launched to achieve five objectives, namely Monitor schools based on parameters covering remediation, academics, school operations, infrastructure, attendance and assessment, Resolve issues identified during monitoring, Regular reviews at Block, District, State level to ensure objectives are met and solve at scale the common issues across schools, Conduct real-time assessment to gauge learning levels of students to track improvement, and provide real-time feedback.

**Mobile App:** School Monitoring App

### e-Counseling

NIC Odisha extends ICT support to Odisha Joint Entrance Examination (OJEE) Committee on conducting entrance examination and counseling-cum-admission for all undergraduate and postgraduate technical/ professional courses. In addition to OJEE, NIC is providing technical support to the Directorate of Technical Education and Training for counseling-cum-admission to Post-Diploma in Industrial Safety (PDIS), and Swami Vivekananda National Institute of Rehabilitation Training & Research (SVNIRTAR) for counseling-cum-admission to undergraduate and postgraduate courses.

## Energy Sector

### EDSoft

Ensuring transparency at all levels, EDSoft is developed for online collection and monitoring of Electricity Duty (ED) of Captive Power Plants (CPP), which radically enhanced collection of electrici-

ty duty. The system deals with consumer database, calculates electricity duty, facilitates e-payment, monitors arrears, exemption, export grants etc. For the financial year 2018-19, Rs. 2723,17,68,337 have been collected through e-Challan.

### ELBSoft

This web-based system equips Electrical Licensing Board of Odisha with an appropriate ICT tool to develop contractors, supervisors and electrical workmen database, issue/ renew/ cancel licenses, facilitate e-payment, conduct examinations and publish result over the portal bringing in transparency, enable various organizations to validate/ cross check the licenses etc.

## Excise Sector

### ExciseSoft

Real-time automation of Liquor Supply Chain Management System of Odisha State Beverages Corporation Limited (OSBCL), Department of Excise, Government of Odisha, is an integrated web-based platform to regulate the distribution of liquor in the State.

### Achievements

Number of permits generated: 88,013  
Excise Duty collected:  
Rs. 9705,16,57,032  
Sale: Rs. 99,55,73,12,616  
Value Added Tax: Rs. 33,70,20,99,170  
Tax Collected at Source:  
Rs. 1,32,00,05,775

## Finance Sector

### Automation of Local Fund Audit (ALFA)

The system undertakes audit of the government/ all government recognized/ elective bodies, aided schools and colleges and endowment etc. The system has been implemented in 26 District Audit Offices functioning for 30 revenue districts of the State, each headed by a District Audit Officer.

### Budget Execution Technique Automation (BETA)

Annual budget, supplementary budget and re-appropriation activities of Odisha are being executed through this application.

All statutory documents are being generated in PDF format (bilingual), which are put at the floor of Legislative Assembly for voting. This application has been integrated with Integrated Financial Management System (IFMS) for re-appropriation process as well as for getting data for annual and supplementary budget.

### Automation of Small Savings Activities (ASSA)

It is implemented in all the 30 districts of the State under the Directorate of Small



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I am extremely glad to say that application of Information Technologies in the agriculture and allied sectors has been exceptional in Odisha. Starting from Input Management and Input Licensing System to Pest surveillance and Agri-processing have been automated end to end, and thus, giving much-awaited impetus for sustained agriculture development as per the State Agriculture Policy. It is indeed our pride that some of these efforts in transformational change in agriculture have been adopted by other states such as Seed Certification Automation System in Uttarakhand, with visible impact at the national level as well.

As a predominantly agrarian state, I look forward to working with the NIC team to continue using Information Technology tools with an integrated and holistic approach for overall rejuvenation of the agriculture sector.

**DR. SAURABH GARG, IAS**

Principal Secretary  
Dept. of Agriculture & Farmers' Empowerment  
Government of Odisha

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## From the States



Six integrated verticals of Seed Ecosystem

Savings, Finance Department, Government of Odisha for the automation of small savings activities across the state.

## GA Sector

### e-Quarters System

This automated service has been implemented with a view to allot quarters from Type-I to Type-VI in a time-bound and transparent manner. GA Rent, HRMS and e-Quarters system are integrated through web services. Total 76947 choices have been received in the financial year 2018-19 and 1008 quarters have been allotted in the system.

### eAbhijog (<https://cmgcodisha.gov.in>)

This is a State Grievance Redress portal that received 279705 grievances. It is also noteworthy that 275474 grievances have been processed through the portal. The total number of offices in the portal is 5686 for receiving/ forwarding/ redressing applications.

## GIS services

### Odisha Geo-Portal

This portal (<https://gisodisha.nic.in>) is a multi-layered Geographic Information System (GIS) platform comprising of 37 seamless state-wide base maps, satellite images of varying scales and resolutions aligned as per the global geo-spatial standards. It is an essential component of Digital India Programme to ensure easy, effective and economical governance. These rich data sets are also published in National GIS Portal called BHARAT MAPS using NICMAPs Services (<https://bharatmaps.gov.in/>), which could be used as service for asset mapping and to provide GIS based decision support system to State Government Departments and District Adminis-

trations for delivering citizen-centric services. Using these layers as service, following projects have been successfully developed and implemented:

- District Geo-Portal
- GIS for bore well mapping
- Digital Gender Atlas
- GIS based AAHAR scheme monitoring system
- GIS based Left Wing Extremism (LWE) project for infrastructure mapping

## Housing & Urban Development

To support e-Governance activities in Housing & Urban Development Department of the Government of Odisha, NIC Odisha has undertaken many sectors such as Public Health Engineering Organisation (PHEO) and Odisha Water Supply and Sewerage Board (OWSSB) covering all the 117 Urban Local Bodies (ULBs) of Odisha. Among the e-Governance applications for PHEO, key applications are Customizable Water Tariff Billing and Payment (WTBP) Application, Acquisition of Water Quality Data And Surveillance (AWQDAS) System for Nine AMRUT Cities of Odisha, Smart Water Information Management (SWIMS) System, Automatic Meter Reading (AMR) based Water Tariff Billing, Estimation of Rates for Evaluation of Water Works and PH Complaint Registration & Management System (CRMS). The strong customizability option of WTBP application has been successfully replicated in Guwahati Jal Board, Government of Assam. Similarly, various relevant implementation of e-Governance application has been taken up for OWSSB. Initiation in IOT integration in water supply utilities and Data Acquisition System for energy consumption, water and pressure level monitoring has been made to make the

processes automatic without any human intervention.

## Land Record Project

### Land Records Management System (LRMS)

There are many notable citizen-centric services being rendered.

•No. of Districts: 30 •Sub-divisions: 58  
•Tahasils: 317 •Revenue Inspector Circles: 2274 •Revenue Villages: 51,701 •No. of Khatiyans (Record of Rights): 1,61,84,823 •No. of Plots: 5,53,07,787 •No. of Tenants: 3,44,53,077

eMutation is a transaction-based complete role-based work flow system, catering to 15 different types of mutations. Corresponding cadastral map is updated using BhuNaksha software. After successful Record of Rights (RoR) preparation, it is delivered to tenant by speed post, with recording the transit details in LRMS. Public View of RoR is available in Bhulekh Portal.

### Achievements

Total no. of cases executed: 19,63,758  
Total RoRs prepared: 13,78,399

### BhuNaksha

The Government of Odisha made it compulsory to update the Maps using BhuNaksha in every type of mutation.

### Achievements

Total no. of plots created using BhuNaksha: 18,69,229

### Bhulekh Portal

This portal is meant for public view of textual record linked with Cadastral Maps.

### Achievements

Number of hits per day: 80,000+

Other notable activities in Land Record and Revenue sector are:

- Revenue Court Case Monitoring System (RCCMS)
- Online Land Revenue
- Document Management System (DMS)

## OSSCC

Integrated Recruitment Management System (IRMS) has been implemented in





Shri Naveen Patnaik, Hon'ble CM, Odisha, launching online land revenue payment application

DARPAN being inaugurated at Jagatsinghpur

Odisha Sub-ordinate Staff Selection Commission (OSSSC) in order to help the Commission to carry out direct recruitment to various Group B & C District Cadre posts in the Government of Odisha. IRMS is a web portal that provides back-to-back automation solution across all the pre & post examination and post selection recruitment processes of the Commission. It helps the Commission in accomplishing all the recruitment related activities and supports multilingual features such as display, entry and reporting in English, Odia and any other unicode languages. Data identified as sensitive by the Commission can be stored in encrypted form to maintain its confidentiality and secrecy.

## Skill Development Project

### Vidyarthi

This is a student Life Cycle for Diploma and ITI courses of Odisha. It is meant for the State Council for Technical Education and Vocational Training (SCTE&VT) under Skill Development Department. The application covers from enrolment of the students to form fill up, pre and post examination activities and result processing of diploma students. Finally, the certificates and mark sheets are signed by Document Signer and pushed to DigiLocker.

#### Achievements

Total no. of Diploma Student Life Cycle maintained: 1,96,605  
Total diploma certificates pushed to DigiLocker: 1,21,847

## Employment Mission under Odisha Skill Development Authority (OSDA)

The Government of Odisha pays more attention to skill development of youths

through a systematic pattern of training. The job seekers register themselves online, undergo training and get employment after successful completion of training. Till to date, 4,16,672 candidates have already registered in employment exchange through this portal.

#### Achievements

87,501 candidates are registered, 75,595 candidates have completed training, and 13,287 youths are employed.

## Water Resources Sector

### IWRCM

Meant for industrial water consumption and monitoring, the Industrial Water Consumption & Revenue Collection Monitoring System (IWRCM) is a web-based solution that enables industrial consumer base creation, online meter reading, automatic bill generation, treasury payment gateway integration, over-draw alert and report generation to help bring in transparency in the entire system in the State. For the financial year 2018-19, Rs. 446,74,24,190 have been collected through e-Challan towards fees for industrial water consumption.

## NATIONAL PROJECTS

### DARPAN

Dashboard for Analytical Review of Projects Across Nation (DARPAN) is used to equip District Administration for real-time and dynamic project monitoring at one centralized platform, consolidating data from multiple sources of various central projects as well as state projects. The projects have been integrated in DM Dashboard through web services for all the 30 districts of Odisha.

## eCourts and Judiciary

Implementation of District Court Case

Information System National Core 3.1 software application has brought automation in case flow and case management in 247 court establishments spread over 119 locations and 583 courts of Odisha. Video conferencing facility has been provided in 57 courts and 58 jails. Information about 2321009 court cases and 311921 orders/ judgments is available on National Judicial Data Grid (NJDG). eCourts Services Mobile App and JustIS Mobile App have been launched. District Courts are equipped with kiosks and electronic display systems. Steps have been taken for the implementation of Interoperable Criminal Justice System (ICJS). IT support is provided to Advocate General, Judicial Academy, Odisha State Legal Services, Odisha Sales Tax Tribunal, Directorate of Public Prosecution and State Forensic Science Laboratory (SFSL) under ICJS.

### Mobile App: eCourts and JustIS

### e-Prisons

This unique national portal for all the prisons of the country facilitates integrated data about crime and criminal history of the prisoners, analysis of various trends and statistics of crime and criminals, secured access to courts, police and other investigating agencies through inmate tracking module, interstate transfer of prisoners etc. e-Prisons has been implemented in 86 jails of Odisha.

### e-Hospital

e-Hospital application has been implemented in 2 major Central Government hospitals in AIIMS, Bhubaneswar and Swami Vivekanand National Institute of Rehabilitation Training and Research (SVNIR-TAR), Cuttack. Total number of patients registered in AIIMS, Bhubaneswar is 16,95,973, with an average number of 1766



Odisha Team receiving National Award for eProcurement in the presence of Shri Ajay Sawhney, Secretary (MeitY), Dr. Neeta Verma, DG (NIC) and other dignitaries

per day. SVNIRTAR has 89629 patients registered since inception.

### eOffice

NIC has taken up the initiative of improving the inter-government and intra-government functioning in more efficient, effective and transparent manner by way of implementing eOffice Lite in various Directorates/ District Collectorates/ Offices of the Government of Odisha, other Government of India Offices/ Public Sector Units/ Universities in Odisha. eOffice Lite has been implemented in 34 Offices, while other 8 organizations are under process of implementation. More than 40,000 electronic files and 3 lakh receipts have been created.

Smart Performance Appraisal Report Recording Online Window (SPARROW) has been implemented and managed in respect of all the Government of India Group-A Officers in the State of Odisha in order to facilitate the electronic filling and submission of Performance Appraisal Report (PAR)/ Immoveable Annual Property Report (IAPR).

### eProcurement

NIC, as a Technology Partner to the Government of Odisha, undertook this Mission Mode Project in 2006. Being directly supervised by the CM, Odisha, massive Government Process Re-engineering exercises were taken up in simultaneous departments with preparation of AS-IS, TO-BE and G Analysis report by NIC, which became the base for development of a generic web-based eProcurement project. Its very nomenclature was being done by the Mission Team as "Government eProcurement System of National Informatics Centre (GePNIC)". Acclaimed as the first State to implement GePNIC in 2008 and accepted by Asian Development Bank, World Bank,

the project got its wing with acceptance by National Rural Road Development Agency (NRRDA) for national roll-out of Pradhan Mantri Gram Sadak Yojana (PMGSY) tenders across states of India and then to be declared as a Mission Mode Project by the Ministry of Commerce, Government of India with Central Public Procurement Portal (CPPP). More than three lakh tenders of value more than two lakh and fifty thousand crores have been floated as a cumulative figure for the State of Odisha through online mode at [tendersodisha.gov.in](http://tendersodisha.gov.in).

**Major Recent Award:** National Award for Best Performing State on eProcurement.

### IVFRT

Immigration, Visa, Foreigners Registration and Tracking (IVFRT) was implemented at Biju Patnaik International Airport on 10th July 2015. Since then, the system is successfully running at Immigration Check Posts (ICPs), and PAX clearance and managing Unique Case File (UCF) and Centralised Visa (C-Visa) are undertaken by IVFRT system.

### Kaushal Panjee

Kaushal Panjee (<https://kaushalpanjee.nic.in>) is a Mobilization Tool for Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDUGKY), a scheme of the Ministry of Rural Development, Government of India. The application aims to enable unemployed rural youths to register for skill upgradation on various trades. More than 2.3 lakh youths have registered in the State, out of which, 7715 youths have been trained and 14872 youths are undergoing the training.

**Mobile App:** Kausal Panjee

### ServicePlus

Enabling delivery of electronic services to citizens, ServicePlus (<https://serviceonline.gov.in>) is a unified platform based on multi-tenant architecture. Currently, 6 citizen-centric services are delivered on

this platform. The Government of Odisha entrusted NIC to implement eDistrict project on ServicePlus. The defining of 20 services is almost complete and will be launched soon.

### Transport

#### e-Challan

Vehicle Checking Reports (VCR) has been replaced by an Android mobile App called e-Challan using the specially designed device called integrated e-Challan device. The App is integrated with central database of National Register of Vahan & Sarathi to fetch registration records of vehicles and driving licenses of drivers instantly. Transport Commissioner, Odisha, has issued office order to stop issuance of manual challan (VCR) and use the eChallan App from 1st December 2018. Accordingly, sufficient number of eChallan devices has been provided to all Regional Transport Offices (RTOs) to issue to enforcement officers under their control.

**Mobile App:** mParivahan

For best ICT service support, NIC officials have been deputed at the Hon'ble Governor's House, Odisha High Court, State IT Centre and Odisha State Data Centre.

### Summary

NIC extends support to all the major departments and all the 30 districts of Odisha in various IT services and plays a consultation role, in addition to the major initiatives mentioned above. It is the ever-growing urge and expectation of public that brings the mandate of Government to see NIC Odisha going ahead with adoption and perfect implementation of new ICT technologies in defined time-frame to help the Government meet its objective. NIC Odisha is always prepared at its delivery front and optimistic on upholding the Digital India vision. ■

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