Visit of Union Secretary, MeitY to NDC , Bhubaneswar

Shri Alkesh Kumar Sharma, IAS, Secretary, MeitY visited National Data Centre (NDC), Bhubaneswar, Odisha on 27th April, 2023. Welcoming Secretary, Head, NDC and SIO, OSC presented the detailed activities of their respective units in the presence of other senior officers of NIC, Odisha. During interaction with NIC Officers from the State, Secretary lauded the innovative works being done by NIC team on projects like SAATHI, e-Panchayat Sabha, PBox, Land Acquisition, EV Subsidy & eDetection etc. He advised the officers to take more such projects which can be replicated in the entire country.

Secretary, MeitY being received by SIO and ASIO, OSC

" Visited Data Centre, BBSR and interacted with officers & staffs. It is good to see new initiatives, solutions, applications developed by team which need to be replicated pan India. Keep up good work team Odisha. "

Alkesh Sharma

Encouraging Remarks by Secretary, MeitY in the Visitor's Book

NIC Odisha welcomes new State Coordinator

Smt. Rachna Srivastava, DDG took over the responsibility of State Coordinator for NIC, Odisha. All Officers joined virtually to welcome her. She is known for her technical proficiency as HoG for eOffice, Office Automation Division (OAD) and eHRMS. She has won top 10 women Tech Leaders India Awards -2022 given by REVA academy for Corporate Excellence.

National Panchayat Awards 2023 for Ganjam

Ganjam District received Six National awards at the National Panchayat Awards function 2023. The awards were given, based on the achievements in different parameters like Poverty free and enhanced livelihoods, Healthy, Child Friendly, Water Sufficient, Clean and Green, Self-sufficient infrastructure, Socially Secured, Women-Friendly and Panchayats with Good Governance. The said data is collected from each panchayat through the NIC developed web Portal.

Ms. Alka Misra, DDG, NIC Hqrs. reviewed end to end eProcurement and GePNIC-NeSL integration

Ms. Alka Misra, DDG and HOG (India datasets Platform, eGovernment Procurement System, Open Data, Web Technology, User Experience Design and Technology (UxDT) Division) on her visit to NIC, Odisha reviewed the progress of National eVidhan Project and had meeting with EIC - Works, CM-Technical (SPC) and other Senior Officers of State Procurement Cell . The process for GePNIC-NeSl integration for eBG-Bid and eBG-LOI/ LOA were discussed. eLottery modalities and the criticality in its implementation to initiate the module was explained by NIC Chennai and NIC Delhi team joining over VC. It was appreciated that process for end to end integration with WAMIS is almost complete and its testing completion and availability in production would be taken up soon.

On this occasion she joined with other Senior Officers of NIC and NIU to release 'The Ascender', April, 2023 edition of the monthly newsletter of Odisha State Centre

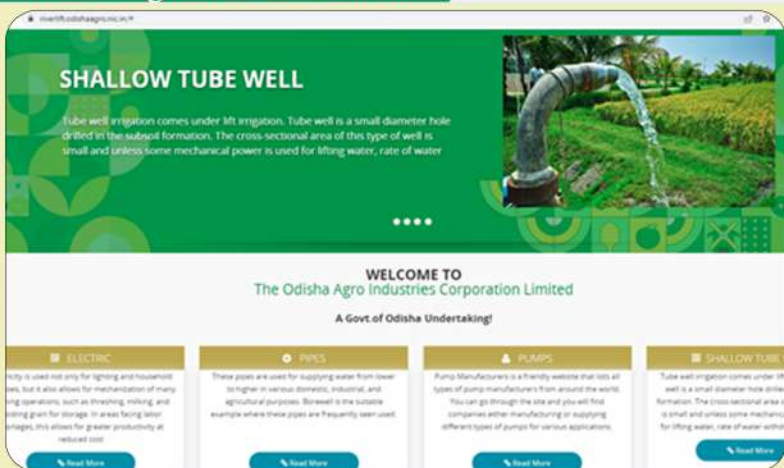## DRMs Meet -2023 in collaboration with Road Safety Cell of STA,

Under iRAD (Integrated Road Accident Database) Project of Odisha, District Roll-out Managers (DRMs) play pivotal role to co-ordinate, manage, support and execute capacity building program to all the stake holders responsible for Road Safety such as Police, Transport, Highway authorities, Health etc.

The two days meet was organised at Puri on 15th and 16th April 2023 to deliberate on the achievements so far, practical challenges being faced in the implementation of iRAD and road map ahead. Coordinating the programme Sri Rajiv Mohapatra, SRM presented that 11600 nos of live accident entry has been initiated in Odisha and 3770 officials of all stakeholders have been trained on both mobile App and web application. Sri P K Nayak, Sr. Director(IT) and Transport project coordinator, NIC informed that iRAD is operational at 530 Police stations with 1060 users and at all 38 RTO/ARTOs. 67 users of NHAI, 135 users of NH and 277 users of State Highway are using the application. Sri Sanjay Kumar Biswal, Joint Commissioner Road Safety of STA, reviewing the progress enthused for coordinated effort of all stakeholders. SIO, NIC Odisha, felicitated the best performing DRMs who have done highest accident entry in iRAD and implemented the four modules with respective stakeholders in a systematic manner.

Department of Agriculture & Farmers Empowerment, Odisha needs to increase the irrigation potential and utilize ground water in the State.

The farmers are encouraged to go for shallow tube well irrigation system. To avoid duplication and to ensure transparency, the JALANIDHI-II software has been implemented (https://riverlift.odishaagro.nic.in).

It has included all the stakeholders like farmers, executing Vendor, District Manager, Admin and the subsidy administering agency including the Bank. Entire operation from the application to the release of subsidy (as per pattern of assistance, envisaged in the State Agriculture Policy) has been implemented through on line mode and the entire data can be accessed at any point of time.

SHALLOW TUBE WELL

WELCOME TO
The Odisha Agro Industries Corporation Limited
A Govt.of Odisha Undertaking!

Resonance

Formation of a National Seed Grid - SATHI

Agriculture is the spine of our Indian economy and it always has a divine link towards the produced. This project deals with one of an energy nerve of agriculture i.e Seed. It is an old saying that finer is the cause and grosser is the effect, really if we take world food security as the effect then a tiny seed is the cause.

In the year 2014 Government of Odisha in technological partnership with National Informatics Centre, developed an integrated seed chain system popularly called as Six Verticals of Seed including Seed production, Seed quality certification, seed dealership license, seed inventory system and seed DBT. This is the first of kind application where seed verticals are not in silos instead integrated in a very well planned manner in such a way that only certified seed can be distributed to licensed dealers and only licensed dealers can sell seed to centrally registered and verified farmers even each farmer gets seed subsidy in their bank account through PFMS integrated DBT module. Department of Administrative Reforms & Public Grievance, Government of India has awarded National e-Governance award 2015-16 to the project louding the initiative.

In the year 2019, a himalayan state Uttarakhand replicated the seed quality certification automation system for complete paperless end to end digital transformation. Subsequently, the Government of India envisioned a more holistic national seed grid covering the entire nation including all the state seed certification agencies, seed testing labs, seed producers, processing plants, research labs of ICAR, breeder seed production centers, seed distributors & retailers etc. on to a single national grid. Keeping eyes on NIC's decade long experience in the seed domain, the Ministry of Agriculture and farmer's welfare partnered with NIC to develop a system called SATHI (Seed Authenticity Traceability and Holistic Inventory) covering the whole generations of seed starting from Nucleus to breeder, foundation and certified seed.

SATHI is developed accordingly and officially launched by the Honorable Minister of Agriculture Shri. Narendra singh Tomar on 19th April 2023 and within few days many states like Odisha, Uttarakhand, Punjab, Chhattisgarh, Maharashtra, Jammu, Kashmir, West Bengal, Assam, Himachal Pradesh etc. got onboarded on this platform whereas all others states are in the process of onboarding.

Shri. Tomar in his address asked the agritech leaders to make India prepare not only for the Indian farmer but also to cater the global demand. Principal secretary of Agriculture, Govt of Odisha Shri. Aravinda Padhi, I.A.S on this occasion of SATHI launching expressed his expectation from using this portal to reduce the timeline between the invention of new varieties by the research lab and to make it available for farmers. He also apprised the nation about the step taken by Govt of Odisha to allow online pre-book of popular varieties by farmer much before time to ensure availability of their favorite variety. This will standardize the tag across the nation leading to QR Code traceability and bar code based stock management at the plan as well as sale point level. *Scopes are many, this is just a humble beginning like a seed.*

Bye-Election of Jharsuguda Assembly Constituency-2023 -NIC extended all Technical support

The process for the conduct of Bye-Election to 07-Jharsuguda Assembly Constituency-2023 has been completed with the counting of results on 13th May 2023. The NIC District Centre, Jharsuguda have actively participated in all stages of election process starting with the Polling Personnel Management for randomization of polling staff, EVM Management, cVIGIL and ENCORE system, ETPBS Scanning etc. upto the last step of compilation of results. DIO, NIC, Jharsuguda, designated as nodal officer for IT activities have played the role of master trainer for all applications provided by ECI.

Jagatsinghpur being a very progressive district in the digital transformation, the administration is committed enough to achieve maximum efficiency by rolling out various e-governance initiatives. To make it a reality the NIC is extending all possible effort to district administration for augmentation and strengthening of the digital ecosystem.

NIC Jagatsinghpur plays vital role in extending digital infrastructure, design and implementation of district level e-governance applications, email and video conferencing services, acting as IT adviser, capacity building program, seminars and technical support during various recruitment process.

Ms. Parul Patawari, IAS, Collector & DM with DIO and his team

Jagatsinghpur is the first district in Odisha where e-office is implemented starting from office of the Collector to Gram Panchayat level. The objective is to transform the century old traditional paper based file system into an eco-friendly e-filing system which can ensure transparency, accountability, data security as well as transform the overall government work culture and ethics.

Since 31st January 2020, e-office has played a crucial role in transforming the perception of people towards the government due to improved file tracking facility, reporting of pendency of e-receipt and average response time to a file processing etc. All 32sections of Collectorate as well as other district level offices like ADM, Zilla Parishad, CDMO, RTO, RWSS, Municipalities, Fisheries, Agriculture, Horticulture, District Labour Office, District Education Office, District Employment Office along with filed level offices like all Tehsils, blocks, subregistrar offices,RI offices including 198 Gram Panchayat offices etc. have been integrated with e-office and as a result there is no physical movement of files

Active user	1639
Total e-File created	60350
Total number of times e-File moved	763269
Total e-Receipt created	763269
Total number of times e-Receipt moved	442143

100 Mbps Leased Line NICNET connectivity has been provided to District Administration and extended to Office of Sub-collector and superintendent of police. Video Conferencing studio of NIC is part of one of the largest video conferencing network in the country which has enabled establishing connectivity from anywhere in country like PMO, Cabinet Secretary, ECI and State HQs to District. To implement and smooth running of ICT projects and e-governance application we provide rounds of training, capacity building programme and hands-on practice session for stake holders. Different awareness seminars on emerging technologies, tools and cyber security best practices used to be organized on regular interval of time.

G2C and G2G services implemented:

➢ Issue of e-certificates like Resident, Caste, SEBC, legal heir, Income etc. through e-districts portal.

➢ Tenants can pay their land revenue through e-Pauti application

➢ Department update the ledger through MTA (Manual of Tahsil Accounts) applications.

➢ Bilingual CMS based district website is available for information dissemination.

➢ Bhulekh, Bhunaksha and DWIST portals empowering both citizen and govenment.

➢ The Land Records Management System (LRMS), is interoperable with e-Registration application.

➢ Many G2G applicatios like DAMPS (Disaster Assistance Monitoring & Payment System), e-Abkari, ALIS-NDAL, IVFRT, Harischandra Sahayata Yojana, Automation of Small saving Activities, iRAD etc are also implemented

NIC, with its tech savy team, understanding domain uses appropriate technology and follows patient approach to be the catalyst for grassroots level implementation for various G2C, G2G and G2B services.

NIC PANORAMA

Padmabhushan Dr. N. Seshagiri remembered

10th of May is the Birth Anniversary of Padmabhusan Dr. Narasimaiah Seshagiri, former Special Secretary to the Planning Commission and Information Technology Department, Government of India, Founder Director General of National Informatics Centre and the chief architect of the Nationwide Computer Network (NICNET). This day is an auspicious day for all employees working in National Informatics Centre. NIC Odisha paid tribute to Dr. Seshagiri by organising a blood donation camp, at NIC, Bhubaneswar on his birth anniversary. NIC Employees Association for Recreation and Sports (NEARS), Bhubaneswar organised the Blood Donation camp. Prior to the main event, an awareness session was conducted, in which various aspects on blood donation process were discussed and deliberated by Sri Pradip Tripathy, Vice-President, Federation of Blood Donors organisation of India. An eminent personality who has himself donated more than 140 units of blood in his lifetime. The program started with two minutes silence prayer followed by lighting of auspicious lamp and floral tribute by all the officers to Dr. Seshagiri. Officers recalled the contribution of Padmabhushan Dr. N. Seshagiri and his pioneering efforts, which have left behind a lasting footprint on India's IT scene. The camp was organised under the supervision of Doctors and Staff from State Blood Transfusion Council, Odisha and Bhubaneswar Municipal Corporation Hospital. 82 units of blood were collected in the camp from the volunteers of NIC, Odisha. Certificates of Blood Donation and medals were distributed to the volunteers by Dr A. K. Hota, DDG and SIO, Odisha and other senior officers of NIC, Odisha. Dr. Seshagiri, the founding father of NIC may not be with us, but his inspiring ideas will continue to guide us and the generations to come.

Tech Talk — Backend as a Service (BaaS)

It is a cloud computing service architecture that acts as a middleware, allowing developers to link their Web and mobile apps to cloud services via APIs or SDK. It takes care of all the backend infra, configuration & development effort and let developer focus only upon UI/UX design. It enables managed database services on-demand and exposes the database securely over REST API.
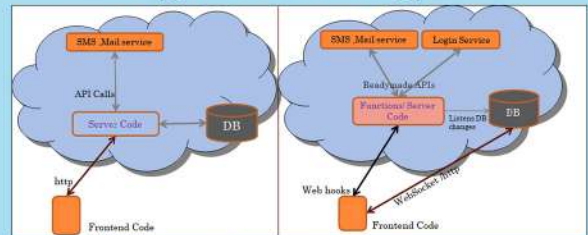
Any application may have two realms viz: Frontend and Backend. While frontend deals with the User interface, the "Backend as a Service" includes database management, cloud storage, user authentication, push notifications, hosting, on-demand API and storage services.

Some of important functionalities covered under the BaaS are :-

(A) Single Sign On (SSO) facility available over the HTTP.
(B) Storage as a Service
(C) Database as a Service & CRUD operation over HTTP
(D) Function as a Service
(E) Payment Gateway integration
(F) SMS/email etc

Note: It completes the loop for BaaS by removing subscriber's engagement for management of servers/VMs. Simultaneously, it creates overlapping between Serverless Computing and BaaS

Traditional approach vs BaaS approach

Some of BaaS vendors at present are

1. Supabase (Open Source)
2. AWS amplify (Amazon)
3. Back4App (Stack of Open Source tools)
4. Backendless
5. built.io Backend

BaaS will help

➤ Efficiency Gains - Delegates web services, auth services, limited business logic to vendor
➤ Faster Times to Market - Developer focuses upon UI only
➤ App Delivery With Fewer Resources
➤ Mobile first compatibility.
➤ Secure and Scalable Infrastructure -

TOONIC

"...Ya..my son is working on it...I told you Sir...the advantage of working from home is the free tech support..."

IT by Tea

Let it be an University, big office campus like Sachivalay or hospitals like AIIMS, the role of GPS and Google map is very limited in the context of navigating any specific department within the campus. In such a scenario even with GPS enabled devices, indoor navigation is not useful For this problem statement a new array of technological solutions are available in the form of Indoor Positioning System or IPS. IPS basically uses anchor nodes with known fixed positions based on WiFi / LiFi access points, Bluetooth beacons, Ultra-Wideband beacons or magnetic positioning etc. Among such technologies for IPS, magnetic positioning is one of the most advanced way to detect the position using earth magnet fingerprints.