

**"Happiness is when what you think, what you say, and what you do are in harmony."  
- Mahatma Gandhi**

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## Happening Hon. President of India confers the National Awards to teachers through Video conferencing.

Hon'ble President of India Shri Ram Nath Kovind on September 5 2021, presented the national teacher award to 44 teachers on the occasion of Teachers' Day. This day will also mark the beginning of Shikshak Parv-2021 under the Ministry of Education. Shri Pramod Kumar Shukla, Lecturer, Eklavya Model Residential School, Karpawand, Bakawand, Bastar, Chhattisgarh received National Awards to Teachers from President of India.



## State level Workshop on Unified Workers monitoring initiative for effective governance

State-level workshop was organized by Complex, Nava Raipur with guidance and Labour Department, Govt. of technical support from NIC Chhattisgarh for Chhattisgarh in HOD Building, Capital smooth implementation of new eGovernance



initiatives by the department. The workshop was chaired by Shri Alex Paul Menon (IAS), Labour Commissioner. Programme was attended by Labour Officers and Industrial Health & Safety Officers from all districts. Other dignitaries present on the occasion include Additional Labour Commissioner, Chairman - BOC Board, Chairman - Labour Welfare Board and senior officers of the department. Labour Commissioner highlighted salient features of the newly launched Unified online registration portal. He discussed the issues faced by district officials and asked for wide spread usage of this registration portal in generating online labour profiles / cards.

## Honourable District and Sessions Judge launched District Website of Mahasamund Police, Chhattisgarh

District Police website was inaugurated by Honourable District and Sessions Judge Shri B. P. Pandey on 25<sup>th</sup> August 2021, in the



gracious presence of District Collector Shri Doman Singh, IAS and Superintendent of Police Shri Divyang Patel, IPS. Honourable District and Sessions Judge inaugurating the website went through various features of the portal and appreciated the effort of NIC team for bringing it up in a month's time. He requested the district police to make use of this website to reach the citizen by adding valuable and essential information. Speaking on the occasion the Superintendent of Police added that enough care should be taken to regularly update the site so that the citizen can get the latest information about district police on a click.

## Virtual Distribution of District Governance Mobile apps Challenges (DGMC) Certificates

Shri Sonmoni Borah, IAS, Secretary, Parliamentary Affairs, joined on 2nd August 2021 to distribute Certificates of Appreciation to



the participating DIOs in District Governance Mobile apps Challenges (DGMC). SIO welcoming the Secretary addressed him as the 'Man of Initiatives' and highlighted his contributions in different capacity including Labour management during Covid pandemic. Eighteen DIOs of Chhattisgarh have developed Mobile Apps under DGMC. To encourage the DIOs each App interface was presented, and certificates were distributed by the Secretary. Shri Bohra appreciating the effort put in by DIOs asked to combine apps of similar services and develop four to five standardized apps which can be implemented across the state.

## ➤ Happening Release of District eGovernance profile by the Collector, Dhamtari, Chhattisgarh

District eGovernance profile book covering various projects under 19 domains with statistical achievements was released on 28<sup>th</sup> August by Shri P. S. Alma, IAS, Collector and DM, in presence of SIO and ASIO(Dist.), NIC and Smt. Priyanka Mahobiya, IAS, CEO Zila Panchayat, Shri Dillip Agrawal, ADM. A detailed presentation on over thirty e-Governance applications being implemented in Dhamtari District was given by Shri Upendra S. Chandel, Senior Systems Analyst & DIO. During the presentation, other district-level officers also interacted and shared their thoughts on the concerned applications being used in their departments.



## ➤ New Approach Integration Document between e-Kosh and e-works/FDS

### Objective of integration between e-Kosh and e-works/FDS :

Public Works Department (PWD), Public Health Engineering Department (PHED), Water Resource Department (WRD), Rural Engineering Service (RES) and Forest Department do not make use

integration was required between ekosh and works. e-works will check the budget availability in ekosh server before passing the bill and request for bill passing to the ekosh server, ekosh server check the availability, pass the bills and book the expenditure and expenditure is displayed on ekoshonline.

### Steps for integration between e-Kosh and e-works/FDS :

1. Allotment of Budget: ekosh provide the API to eworks department so that department can view the Allotment expenditure and Available Budget in real time basis.

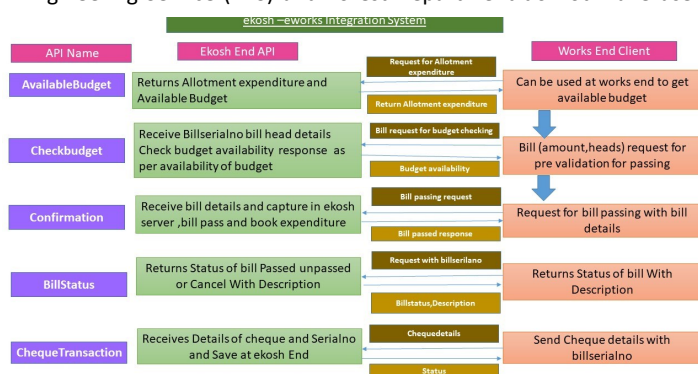
2. Bill Processing:

- Check budget availability
- Capture bill information to ekosh server
- Pass the bill
- Book expenditure in respective budget heads
- Response send to eworks

For bill passing in eworks department, request is sent to ekosh server for bill passing with amount and head details, ekosh server checks the availability, pass the bill, book the expenditure and send response to eworks server. When Bill is passed in ekosh server, expenditure, will display in all the reports of ekoshonline.

3 View Bill status: Works department can view and check the status of bills in any time using API.

4 Issue Cheque: Works department sends the details of cheque to the ekosh server and ekosh server captures the details of cheque and sends the response.



of e-kosh for budget allocation or processing payment. These departments make use of their own contract management applications (e-works/FDS) for the same. Works expenditure details are captured only in eworks system. Finance department does not have expenditure details of these departments on real time basis. Works department provide expenditure data to finance on request. To have the visibility on expenditure of Works Departments

## ➤ TechNica Docker for deploying applications

Our programmers often complain that the code is running in their development machine but not running in production server. The reason may be software version mismatch, one or more files missing or different configuration setting. To solve this problem docker comes into the picture, Docker provides the ability to package and run an application in a loosely isolated environment called a container. The isolation and security allow you to run many containers simultaneously on a given host. Containers are lightweight and contain everything needed to run the application, so you do not need to rely on what is currently installed on the host.

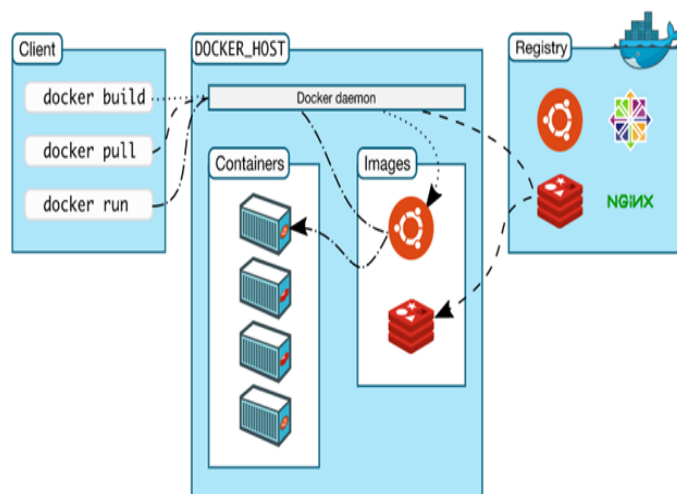
### Docker architecture

Docker uses a client-server architecture. The Docker *client* talks to the Docker *daemon*, which does the heavy lifting of building, running, and distributing your Docker containers. The Docker client and daemon *can* run on the same system, or you can connect a Docker client to a remote Docker daemon. The Docker client and daemon communicate using a REST API, over UNIX sockets or a network interface. Another Docker client is Docker Compose, that lets you work with applications consisting of a set of containers.

Docker is similar in concept to Virtual Machines, except it's much more lightweight. Instead of running an entire separate operating system (which is a massive overhead), Docker runs containers, which

use the same host operating system, and only virtualize at a software level.

We are using docker in Next-Gen eHospital project as it is developed using microservice architecture with different technologies stack for different modules so that there will be no problem at the time of deployment in production.







## Spotlight

## Keynote Address of DG,NIC during National Governance Virtual summit hosted by ETGovernment

A keynote address on “Digital Transformation in Times of Pandemic” was delivered by Dr. Neeta Verma, Director General, NIC at the National Governance Virtual Summit held on 19th June 2020, hosted by ETGovernment. It is a one-stop platform for key government officials, industry, and academia to discuss how to continue the public services in the time of the pandemic.

In the address, Dr. Verma described how technology has played a significant role in planning, management, and execution of measures related to the COVID-19 pandemic. She further highlighted the role of NIC as a technology partner of the Government providing state-of-the-art ICT infrastructure, digital platforms, and services connecting citizens to the Government. NIC has established a holistic digital landscape to extend ICT support systems to the Government and Citizens.

NIC's robust and scalable cloud infrastructure has supported most of the platform and services function seamlessly during the COVID-19 period. During the lockdown period, many of the services provided by NIC such as eOffice, VPN, messaging, and video conferencing witnessed an exponential rise in their demand and usages. Provisioning strong and scalable infrastructure has helped NIC to cater to the ever-growing need of such services during the lockdown period thereby enabling work from home solutions to

ensure the continuity of business and services provided by Governments at Central, State and District levels.

Dr. Neeta Verma emphasized that enabling technology solutions



would help to ensure business continuity during situations like COVID -19. Suggesting on post COVID scenario, she stressed the need of enabling more and more applications on Cloud technology, API interfaces for their easy integration with other systems, use of Artificial Intelligence, and Analytics.



## Resonance

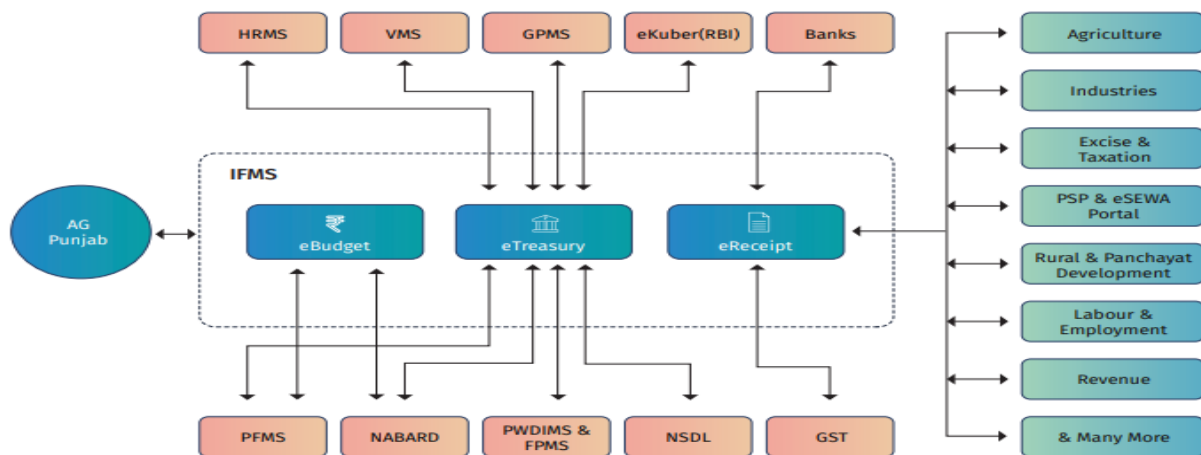
## IFMS Punjab : The Next Gen Integrated Financial Management System

New next gen IFMS was designed to bring efficiency in financial planning and expenditure control in Punjab. This has brought various stakeholders such as Department of Finance, Treasuries, Administrative Departments, Accountant General, RBI and Banks on a single platform.

facilitates a check on POL Bills of State Government vehicles. Every Govt. official (Earmarked) or Vehicle (Pooled) has a POL Limit (on Fuel & Maintenance) assigned by Department of Finance. VMS is keeping track of each limit.

Govt. Property Management System (GPMS) facilitates keeping track

## Software Architecture

**Five modules of new IFMS :**

**eBudget** module facilitates planning, budgeting and allocation of Budget from Department of Finance to Administrative Department and to DDOs thereafter.

**eTreasury** : Facilitates DDOs for creation of bills and Treasuries for passing of bills and payments thereafter. It also facilitates management of Stamps, PLA and EMD accounts at treasuries.

**eReceipt** : Facilitates collection of Tax/ NonTax revenues in both Online [via NetBanking, Debit/ Credit Card, Airtel Payment Bank, UPI Payments (Google Pay, PhonePe, Bhim App, PayTM and Amazon Pay)] as well as Offline mode (via Challans).

**Vehicle Management System (VMS) and Govt. Property Management System (GPMS)** : Vehicle Management System (VMS)

of immovable properties (Land/ Buildings) of Govt. of Punjab.

**Benefits :**

- ◇ Using new eBudget module, State Govt. can assign District Wise Receipt Targets to any Department
- ◇ Using Vehicle Management System (VMS), State Government has saved more than 17 Crore Rupees for State Government
- ◇ Using GPMS, State Government can check availability of vacant office space at a particular location
- ◇ Using Smart Dashboards of eReceipt, State Govt. has recovered more than Rs. 13.50 Crore from banks
- ◇ Linkage between Receipt & Refund, AC & DC Bills, EMD & PD/ PLA Bills has reduced leakage of funds.



## District in Focus

District North Bastar Kanker- IT making inroads in the "land of Custard Apple" - <https://kanker.gov.in>

**Chandan Kumar, IAS**  
Collector and District  
Magistrate

## From Collector's Desk:

**N**IC District centre is providing continuous support in implementation of various IT related projects in Kanker District. The support of NIC for operation of high-speed internet services for district administration as well as video conferencing services is truly remarkable. During the pandemic, NIC provided IT support in implementation of Aarogya Setu, Hotspot forecast report, COVID 19-Hospital Bed Status, CM Relief Fund and many more. In the field of education, the district centre helped in setting up virtual classrooms in the district and made more than 2200 education videos and uploaded them on the website <https://cgschool.in>. The mobile application NIC CAD developed at the district centre provides district administration news and information to the citizens of the district, which is very helpful for the public.

I am hopeful that NIC will continue to spread IT awareness to actively support the e-Governance initiatives of the District Administration.

## About Kanker District:

**K**anker district is located in the Southern region of Chhattisgarh. The total area of Kanker district is approximately 5285.01 square kilometres. Main rivers of the district are - Milk, Mahanadi, Hatkul, Sindur and Turu. There are 7 tehsils in district namely Kanker, Charama, Narharpur, Bhanupratapur, Antagarh, Durgukondal and Koyalibeda.

**NIC District Centre, Kanker** has been playing a major role in implementation of various Central, State and District level projects like RATI-RTPCR app, ICMR Portal, e-Hospital, NDAL-ALIS (Arms Licensing Information System, PDS, Vahan and Sarathi, e-Kosh, Indian citizenship application, CPGRAMS (Centralised Public Grievance Redressal and Monitoring System), Arms Licensing System, Bhuiyaan, Bhunaksha, Janchaupal, e-Court etc. Apart from Video Conferencing and round the clock internet services, NIC also renders IT support to District Administration during Lok Sabha, Vidhan Sabha and Local body elections.

## PRAGYA, Diksha and Setu Video Lecture:

The novel project of creating lecture videos of various subjects like Mathematics, English, History, Chemistry, Physics and Biology were created to cope up with the crunch of teachers in the district. More than 1000

lectures in this project of various topics like computer education, mathematics, grammar, e-governance etc are uploaded for public access.

## Chhattisgarh Padhai Tuhar Dwar

(<https://cgschool.in/>)

Under this project NIC centre has uploaded more than 2200 video lectures and helped



the district administration to start virtual class rooms in all the schools in the district.

Software for converting speech to sign language <https://sanket.cg.nic.in>

NIC district centre played a vital role to develop a tool for the persons with speaking

and hearing disability. The Features of application are as follows :

- Application is used to display the sign language video for any speech input in Hindi
- Developed a Database of 4088 commonly used Hindi sign language words
- Provision of input of the Hindi text in case of non-availability of microphone for speech input.

## 'NIC CAD' Mobile Application:

NIC centre developed a mobile application 'NIC CAD' (NIC Connect Anytime Digitally). The features of this app include creation of meeting agenda, action taken details and sharing of news and information of district administration anytime.

## Recognition and Awards to the district NIC

Speech to Sign language translation software has won silver medal in NIC AI Ideathon 2020 and National Elets Award for Digital Excellence.

Chhattisgarh School Education Department received Award of Excellence for Padhai Tuhar Dwar Project on 10th Elets Knowledge Exchange Summit.

DIO received Certificate of Appreciation from State Education Department for contribution in Education.



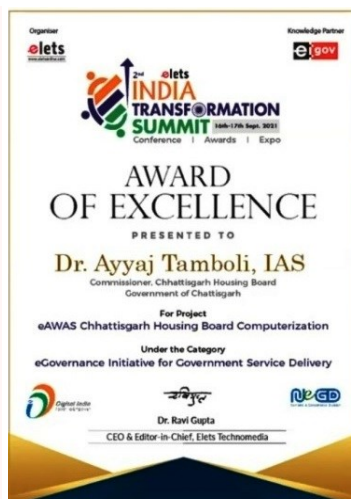
**P. C. Verma**  
DIO



## Awards / Accolades

**I**n 2<sup>nd</sup> Elets India transformation summit held on 16<sup>th</sup>-17<sup>th</sup> Sep'2021 Award of Excellence was presented to 'e Awas -CG Housing Board computerisation' under the category e Governance initiative for Government service delivery. The award was received by Sh. H. K. Verma, Additional Commissioner, Housing Board on behalf of the Commissioner.

E-Awas is complete workflow automation of Chhattisgarh Housing Board developed by NIC Chhattisgarh.



**A**ABHAR - 'Aabhaar Apki Services Ka', the Digital integrated pension system of Chhattisgarh received the Elets Award of Excellence in the category of 'e-Governance Initiative for Government Service Delivery' during India Transformation Summit. AABHAR started by the Finance Department of Govt. of CG for speedy redressal of pension cases of the state's pensioners. Mr. N. K. Tikam, IAS, Director of Funds, Accounts and Pensions Chhattisgarh, received the award in a virtual ceremony held from New Delhi on 16<sup>th</sup> Sep2021.

