"It takes courage to deal with failures. It takes courage to admit when you are wrong."

~R Dooley

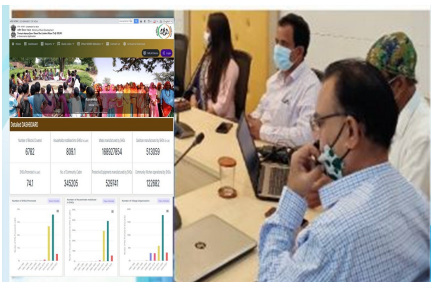**Happening** | **Capacity Building on Post-Matric Scholarship new Portal for the State & Districts**

NIC Chhattisgarh launched its new renovated Post-Matric Scholarship portal on 23rd Oct 2021 by ST and SC Development Department. It was open for students to register from 1st Oct 2021. The main objective of this scheme is to reimburse some non-refundable fees for encouraging students of ST, SC, and OBC category to study in diploma, undergraduate and postgraduate classes.

This new portal facilitates online verification based on Aadhaar. Income Certificate, Caste Certificate and Domicile certificate are being verified online with eDistrict portal.

Stakeholders of the project include State Admin, District Authority (DWO), Institute Authority, Students etc. A virtual training of all stakeholders was organised on 16th Nov 2021 to give clear understanding of the workflow. The issues being faced by stakeholders so far were discussed in detail. Emphasis was given on imparting Training to Nodal Officers of all Institutes, Sensitisation of Students at all institutions of the state, facility to different roles to access the progress and monitor the status, process to avoid duplications, Seamless integration of renewal cases etc.

eFMAS Pilot implementation in State Rural Livelihoods Mission Chhattisgarh

A two day training for pilot districts of Chhattisgarh was organised on Electronic Fund Management cum Accounting Solution (eFMAS), as part of NRLM eGov application (https://nrlm.gov.in), to provide an end to end solution for all Financial and Accounting related activities of its State & District level units i.e. SMMU (State Mission Management Unit) & DMMUs (District Mission Management Units) by Sh.G.V.S.N.Murthy, Scientist E, NIC DRD Informatics Division,

New Delhi on 29th-30th November 2021.

The objective of this is to automate all the Receipts, Expenditure and Advances & its settlement (REA) along with integration of all the payments through PFMS. All accounts related statements like Receipts & Payments, Income & Expenditure, Balance sheet, Cashbook, Ledger along with IUFR formats corresponding to a cost centre can automatically be generated through this module.

Scanner Based Online Audit system in state run Liquor shops

Chhattisgarh state marketing Corporation (CSMCL) is running 662 foreign and country liquor shops throughout state . All shops follow Track and Trace methodology developed by NIC Chhattisgarh wherein stock

arriving in shop is inward with help of scanners and each bottle sold is also scanned resulting into real time inventory of each shop.

But at times shop personnel get involved in dubious practices and sell liquor without scanning resulting into financial loss to CSMCL. In order to curb malpractice and

monitoring financial health of shops 5 divisional audit firms were appointed with a mandate to perform monthly stock audit of each shop. Audit personnel used to ascertain the stock available in shop to be audited based on the online report and would then physically count the number of available boxes as well as individual bottles placed in display shelf assuming that box contains the requisite number of bottles in it . But the shop personnel found a novel way of deceiving audit team wherein they would bring liquor bottles short in stock from neighboring shop also would fill boxes with empty liquor bottles it resulted in false audit of shops resulting into revenue loss to CSMCL.

In order to curb above mentioned illegalities committed by shop personnel   CSMCL requested NIC to develop and implement a foolproof system for monthly shop audit   . NIC using Android studio 2.3.1 has developed a foolproof system which is based on scanning hologram of individual bottle with Zebra Handheld Scanning device running on Android 10.0 . The audit personnel starts his audit by scanning individual holograms affixed on cap of liquor bottle and after each scan the data is authenticated from server

wherein if any bottle not of original inventory is flagged. Duplicate scanning of individual hologram and any bottle accidentally sold are also flagged. This process is completed by using 4-5 handheld device and after completion of audit there is a provision to update shop inventory reflecting real time updated inventory.

This audit is also very important as CSMCL has a policy wherein liquor suppliers have to pay penalty to CSMCL at Retail selling price for any inventory lying unsold at shop for more than 6 months. Now when new system is in place the penalty calculation has become very easy for CSMCL without any dispute with liquor suppliers.

eGOV Product   Post Matric Scholarship Online for OBC, SC and ST students (https://postmatric-scholarship.cg.nic.in)

The product 'Post Matric Scholarship Online' facilitates students of OBC, SC and ST categories, studying in various Diploma, Post Graduate and Under Graduate courses in recognized institutions under AISHE (All-India Survey on Higher Education), to apply for Scholarship and Hostel expenses at the rate fixed by State Tribal Department. This Role based Web enabled e-Governance solution catering to both G2C and G2G domains enables for online Apply/ Renewal/ Disbursal of Scholarship with utmost accuracy, transparency & accountability at every level and promotes timely assistance to the eligible students.

Stakeholders

- *State Department*
- *District Nodal Agency*
- *Government / Private Institutions*
- *Applicant Students*
- *Banks*

Process Cycle

- *At the start of academic session, students after enrolling in various graduate / post graduate courses, apply for scholarship through this portal.*
- *Academic institutions verify the student's application and forward the proposal to district nodal agency.*
- *District nodal agency generates sanction for the received proposals after verifying them and send disbursal request to the state nodal agency*
- *State level admin send payment requests to PFMS in fixed data formats*
- *Scholarship transferred to student account*
- *Finally records updation and maintenance activities for the financial year are carried out.*

Features

- Aadhaar based e-KYC verification of student personal details
- Student's Income, Caste and Domicile certificates are fetched from e-District portal
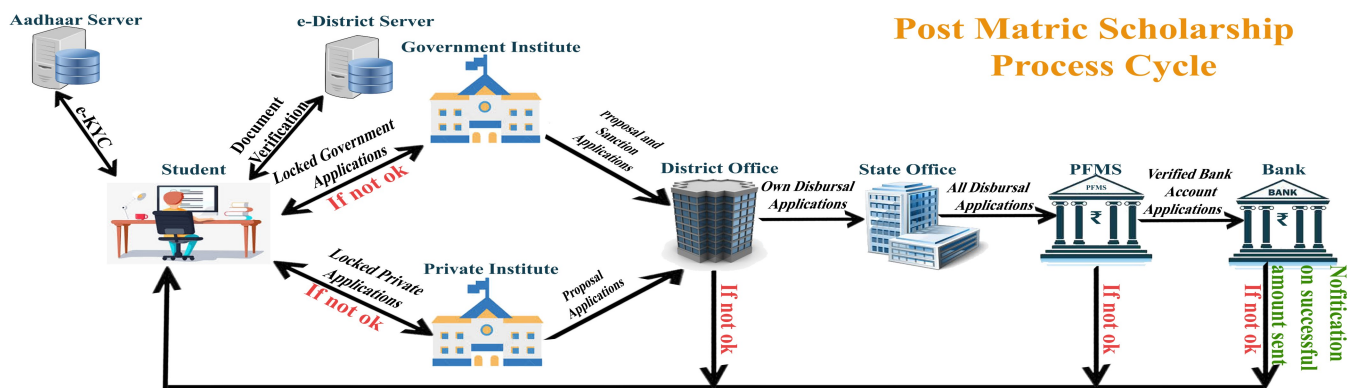- One time registration for student and Institute
- SMS / E-mail alerts to students / nodal authorities at various stages
- Informative reports/dashboards provided to various roles to access the progress and monitor the status.
- 6-digit verification code used to cross check the authenticity of applying students at the academic institution
- PFMS integrated for direct payment transfer to bank accounts of beneficiary students
- Generation of Sanction order, disbursal order, various MIS and accounting reports
- Seamless integration of renewal cases

Offerings underway

- *Sandes (GIMS) integration*
- *Intelligent Chatbot implementation for added help*
- *Smart dashboards for frequently viewed statistical info*

Post Matric Scholarship Process Cycle

TechNICa   Use of ArUco Markers of OpenCV in Education –

OpenCV is a library for image processing, available in Python and Java. OpenCV is an open source project. OpenCV provides ArUco markers recognition, in addition to many image processing functionalities. ArUco markers are binary square fiducial markers that can be used for camera pose estimation. Main benefit is that the detection is robust, fast and simple. The ArUco module includes detection of these types of markers and the tools to employ them for pose estimation and camera calibration.

NIC, Chhattisgarh has used ArUco markers to conduct Multiple Choice Question (MCQ) based Quiz in a class room. A MCQ is displayed on the screen or written on the black board and students can answer the MCQ by placing the ArUco marker in one of the four directions. An App developed for this purpose installed in the teacher's smart phone can capture all the 30 – 40 student's individual answers in one scan. Our experience shows that the ArUco markers placed more than 20 feet distance are also detected correctly. ArUco markers can be used in many ways in different sectors.

Spotlight   Excerpts from the DG NIC's address at Azadi Ka Digital Mahotsav "Use of Emerging Technologies for Social Empowerment"

NIC has set up Centre of Excellence on Artificial Intelligence way back in 2019. And the focus of this was to explore the application of AI in the domain of governance specifically, to explore what could be the possible uses, create pilots out of it, and then hand it over to departments to roll it out. Examples of few initiatives include object detection technology used in Swacch Bharat (Urban), Verify ID to extract and prepopulate information from any ID card uploaded for verification. So, with this now, let us come up with a generic automatic government forms and documents Reading System.

Second aspect is, how can AI be used for enhancing quality of government digital services. We have developed a solution for transport department, where the applicant sitting at home can give his test from the comfort of his home using our proctoring solution and face recognition and face verification system. And all actions are being monitored and his learner license is being given. Already Delhi and perhaps Assam is using, and a couple of more states are in the process of testing.

Another application which we did is life certificate for pensioners. Only they need a smartphone with camera. The app enabled with face verification technology and liveness detection, checks it matching with the Aadhaar. Using the same technology, we have a platform called KhoyaPaya, tracking the missing children. Over 2500 children are helped to reach home, whom application could match using the limited database presently available.

> "When we talk of **AI Governance**, we are primarily focusing on how **AI** can be used to enhance quality of government e-services, reduce waste, and **detect & prevent fraud.**"

Dr. Neeta Verma, DG, NIC

'Use of Emerging Technologies for Social Empowerment' Session

Third aspect was how we can use AI for reducing waste and fraud detection. In Karnataka, we have used this technology of prediction of Drugs requirement at different hospitals, taking care of the season and all different parameters. This is really helping to prevent expiry of medicines. In national scholarship portal, it has been observed that in different ways people are exploiting these systems.Then we have developed the fraud analytics module.

In Blockchain, for CBSE we have introduced the certificate chain for class 10 and class 12 certificates. We have offered the same certificate chain as a service. I would like to close by saying that AI has immense possibilities. A lot of work is being done towards this. But it also needs a lot of research, innovation, skilled personnel, and regulatory support. Therefore to really change the lives of people at the bottom of pyramid, all of us, we in government, industry, start-ups and academia have to work together to make this change happen.

Resonance   Assam on-boards on Jeevan Pramaan Portal

Government of Assam
Pension & Public Grievances Department
In collaboration with
NIC National Informatics Centre

An initiative to make pension disbursement hassle-free with

JEEVAN PRAMAAN
Digital Life Certificate for Pensioners

Download the PC/Mobile/Tablet Application to register for a Life Certificate

PC Windows 7 (or above) OS 32 & 64 bit   **Mobile** Android 4.0 and above   **Office** Central & State Government Offices

Doorstep delivery of DLC Service:
IPPB (Indian Postal Payment Bank) with its extended reach and ability to deliver services at the doorsteps of the pensioners in an assisted mode, is facilitating the generation of digital life certificate, which is based on the application designed and maintained by NIC.

For those who do not have registered device
1. **Mobile Users –**
Open the Post Info app and select service type as "IPPB – Jeevan Pramaan (Digital Life Certificate)", fill all the other details and click on Request OTP. Once the OTP is entered, request is generated which can be tracked by the customer.

2. **Through Web –**
Access the link **https://ccc.cept.gov.in/servicerequest/request.aspx** and select service type as Jeevan Pramaan (Digital Life Certificate)")", fill all the other details and click on Request OTP. Once the OTP is entered, request is generated which can be tracked by the customer.

An appeal by the Assam Government to the Pensioners
Please visit
https://jeevanpramaan.gov.in

Pensioners in Assam having Aadhaar number can now generate Digital Life Certificate through Jeevan Pramaan.
NIC, Assam had taken the initiative to on board Government of Assam onto the Jeevan Praman Portal developed by NIC. The matter was taken up with the P & PG Department and Government of Assam had issued a letter with a request on 16th July 2021 for on boarding Assam onto the Portal for the benefit of Pensioners across Assam. Pensioners having Aadhaar can upload their DLC through their registered devices for further necessary action by the Pension Disbursal Authorities (PDA). Government of Assam has been listed as the Pension Sanctioning Authority (PSA). Recently Government of Assam by its Cabinet Notification instructed all Banks of Assam to accept Digital Life Certificate received through Jeevan Pramaan to reduce the hardship faced by Pensioners. In this connection Government of Assam has given a full page publicity on NIC developed Jeevan Pramaan in leading dailies on 17th November 2021.

District in Focus | Surguja District – Tribal District empowered through e-Governance Solution

Surguja, the tribal district and headquarter of Surguja division is located in the northern part of Chhattisgarh. Among the primitive tribes, Pando and Korwa are still living in forest.

The NIC district centre was established in 1990 and continuously working to improve the quality and adopting new methods to strengthen the ICT based services to be delivered to citizens.

The official website of Surguja District (*https://surguja.gov.in*) is providing information such as profile of the district, key contacts of administration, circulars, recruitment notification, tourism places, news , events etc.

From Collector's Desk………
NIC Surguja has developed and effectively implemented many ICT projects and proposals for the assistance of citizens. The information, data and technical proficiency with innovative ideas has always played a key role in better planning and decision-making in order to deliver public services impeccably. The District NIC Team also ensures the smooth and excellent delivery of ICT services including networking and troubleshooting to connect seamlessly. NICNET connectivity becomes backbone of our all departments in district. Excellent Support of NIC district center, which makes all computerization and information services easy.
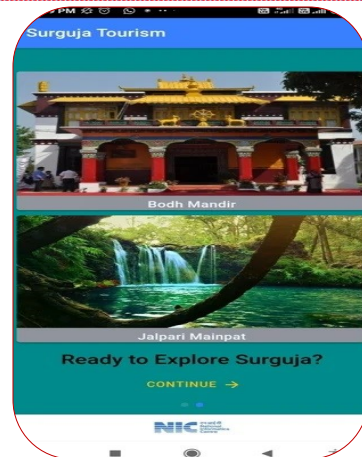
Sh. Sanjeev Kumar Jha, (I.A.S)
Collector & District Magistrate

Network services:

A dedicated 100 Mbps link connects the district centre with the state headquarter at Raipur. LAN connectivity has been extended to offices of District Collectorate, Zila Panchayat, SP Office, District Court, Central Jail, Commercial Tax office up to the block and tehsils.

Video Conferencing Facility

The video conferencing facility available at District and Block Office plays an important role in redressal of public grievances. It also helps the administration to disseminate important information and to monitor important projects. It allows district administration to interact with state, districts, blocks and tehsil level officials.

Citizen Centric Services:

District Jan Darshan Live : To redress the grievances of citizens, Collector/SP Jan Darshan program is being organized in the District Collectorate. Here, by one to one interaction with the Collector and SP, the complaints of the people are being resolved immediately. This is broadcasted live through Facebook using NICNET Connectivity.

Paddy Procurement System

NIC helps the department of Food and Markfed agency in the paddy procurement process. In the district, all 46 paddy procurement centers are connected with broadband, Wi-Fi for smooth data entry of daily purchase. NIC Surguja is providing various reports to district administration related to paddy procurement purchase record.

Under **iRAD (Integrated Road Accident Database)** Project total 137 official users have been trained and getting the continuous support.

Surguja Women's Empowerment Portal

Women self-help groups are an appropriate and successful method of improving the society. District Administration, Surguja is focusing on providing long term solution to the problem of poverty, malnutrition etc. through sensitizing the main target group and making women as a centre for development. The notion is to provide them economic participation, economic opportunity, social empowerment, educational attainment and health and well-being.

e-Court : Court Computerization Project covers 16 courts of the district. Optical fiber based and copper based networking have been done for all nodes. Desktop VC training for court officials and staff members was also conducted by NIC Surguja.

e-Pension: This software has been implemented in district Treasury for calculation, modification, processing and disbursement of pensions of State Government employees.

e-Salary:- The software is used to process monthly salary of employees and disburse it direclty through banks (ECS) to their account.

Surguja tourism-app offers tourists various travel related information including all remote tourist destinations. Initially 28 locations have been covered in this mobile app.

e-Kosh:- e-Kosh is implemented at all treasuries for budget allcotion and online processing of bills.

Other major G2C projects running in the district include Bhuiyan, Bhu-Naksha, CG AWAAS, Vahan, Sarathi, e-Janchaupal, e-Janshikayat, NDAL-ALIS etc.

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Awards/Accolades | eHaat– most innovative mobile App, an online platform for direct marketing

The Chief Minister, Shri Bhupesh Baghel, at the Kisan Summit and Award Ceremony held at Raipur on 6th December 2021, felicitated *Vice Chancellor Dr. S.S. Sengar, Dr. R. R. Saxena of IGKV and Scientist Shri Abhijeet Kaushik of NIC, Chhattisgarh* with citations and prize money cheque for eHaat– most innovative mobile App, an online platform for direct marketing.

e-HAAT is the online Agri-Market where farmers can buy/ sell or advertise fruits, vegetables, agriculture produce or any agriculture machinery, Tools or Tractors etc. The major goal of this mobile app is to act as a catalyst by providing a web based marketing platform to the farmer's especially small, marginal, medium and landless to directly sell to the buyers.

e-HAAT is catering to almost all needs of the agriculture fraternity where they will find all commodities/ items ranging from Tractors, Pump Sets, Farm Implements, Seeds, Cattle feed, Grain storage bins, Water Tankers, Wheel Barrows, Trolleys, Tree Guards, Gardening tools and many more.