

HAPPENING

Single Window System for Government of National Capital Territory of Delhi



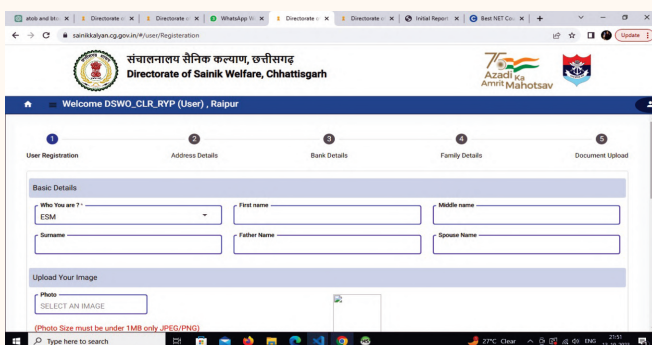
The Government of NCT of Delhi has taken a significant step towards fostering a more investor-friendly environment through the creation of an Integrated Single Window service delivery portal. This portal has been meticulously developed to streamline and expedite the process of obtaining clearances and approvals, with the overarching goal of transforming the business landscape within the Union Territory. The Single Window Portal is designed to

offer a range of services that are not only efficient but also transparent, using cutting-edge open-source technologies. It provides comprehensive support throughout the lifecycle of a business venture, offering Standard Operating Procedures (SOPs) and user manuals to help investors navigate the application process for their proposed projects. Furthermore, it serves as a centralized repository for all business-related transactions and sector-wise investment data in the State/UT. This comprehensive system comprises various modules and services, such as a Citizen Charter, Service Registration, and a Review and Feedback mechanism for government policies, among others. Currently, it hosts 35 services from various departments, with 24 services already live and operational. The training session for eManeC Ver 2.0, which powers this system, was



successfully conducted with the active involvement of the National Informatics Centre (NIC) team. This training showcased the system's functionality, and the NIC team, led by key personnel, effectively addressed queries from participants. The eManeC Ver 2.0 system is now hosted at the National Data Centre in Bhubaneswar, offering a robust and efficient platform to facilitate business operations and investment in the National Capital Territory of Delhi.

Ex-Serviceman Registration and Online Application System for Directorate of Sainik Welfare, Chhattisgarh

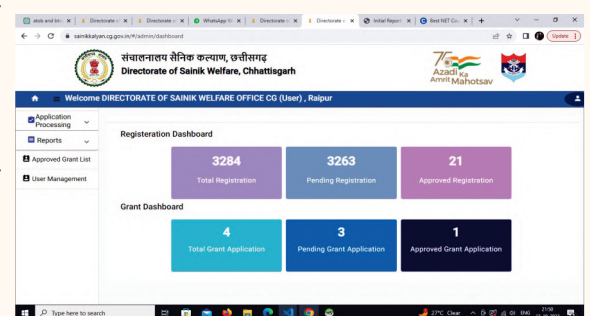


The Directorate of Sainik Welfare and Rajya Sainik Board were established in the state of Chhattisgarh on 1st November'2000, with a permanent office located at Shashtri Chowk, Motibag Road, Raipur. There are 10 District Sainik Welfare Offices in the state. These offices are actively dedicated for every possible help and welfare of Ex-servicemen and their family members at district and state level. The Directorate of Sainik Welfare and district Sainik Welfare Offices presently maintain records of all ex-servicemen

(ESMs) residing in the state, processing their applications manually on paper. To enhance the efficiency and promptness of service delivery, a proposal was initiated to digitize records, allowing for online registration and application processing. This digital transformation aims to expedite the provision of welfare benefits to ex-servicemen and their family members. In response to the requirements of the user department, a web-based portal has been developed and implemented for online registration of ex-servicemen (ESM) and the submission of online applications for welfare grants and financial assistance.

Currently, all district offices of the department utilize this system for the registration of ESMs and their family members.

The implementation of this new system is expected to be immensely beneficial, facilitating the digitization of ex-servicemen records and enabling the online submission of applications for financial assistance and grants under various welfare schemes offered by the department.



<https://sainikkalyan.cg.gov.in>

Chhattisgarh State Electricity Regulatory Commission

On Monday, 31st Aug 2023 at Chhattisgarh State Electricity Regulatory Commission, Raipur Consumer grievance redressal forum online application and finance module was inaugurated by Chairman Shri Hemant Verma in presence of Member (Judicial) and Member (Technical) and other senior designatory of the commission. Now public can track grievances online across the state and follow up the status of their filed complaints.

Payslip generation module was also inaugurated where automated payslip generation and their online dispatch to

employees through e-mail/Sandes app is facilitated.

Application was developed under the guidance of the SIO Sh .T.N.Singh with technical team

comprising of Shri Pradeep Kumar Mishra, Shri Saurabh Dubey, Ms. Jyoti Sharma and Sh. Rajesh Dewangan.



Technical Support for President Visit to Chhattisgarh



The capital city of Chhattisgarh, Raipur, warmly welcomed President Droupadi Murmu on her two-day official visit from 31 Aug 23 to 1 Sep 23. This marks President Droupadi Murmu's maiden visit to State since assuming office.

The visit of the President of India to Chhattisgarh was a momentous occasion, and the technical support provided by

NIC Chhattisgarh State played a crucial role in its success. The technical team was responsible for ensuring that all aspects of communication, security, and logistics were well-coordinated and fully operational at Raj Bhawan Raipur.

The technical team ensured a robust communication infrastructure, including secure and encrypted communication channels to protect sensitive information, a dedicated command center equipped with advanced communication tools to facilitate real-time information exchange and a contingency plan for communication in case of any unexpected technical issues.

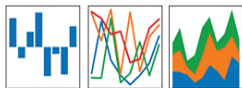
The technical support provided during the President's visit to Chhattisgarh was instrumental in ensuring the smooth and secure execution of this historic event. The meticulous planning, dedicated team effort, and robust infrastructure contributed to its overall success.

TechNICA

Harnessing Data Analysis Power with Pandas in Python

pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



Pandas, a widely used Python library, plays a pivotal role in data analysis and manipulation, offering a versatile set of tools for working with structured data.

At the core of Pandas lies the DataFrame, a two-dimensional data structure that resembles a spreadsheet or database table. This tabular format makes it easy to load, clean, filter, and transform data efficiently. It significantly simplifies data import and export, effortlessly handling various data sources like CSV files, Excel spreadsheets, and SQL databases. Beyond its data management

capabilities, Pandas excels in data analysis, enabling users to perform a wide range of operations, such as descriptive statistics, aggregation, and group-by operations. This empowers analysts to quickly generate insights from their data, facilitating better decision-making. Furthermore, Pandas is a valuable asset for time series analysis, offering built-in features for time-based data manipulation, resampling, and rolling statistics. This makes it invaluable for tasks like financial analysis and forecasting.

Pandas integrates seamlessly with data visualization libraries such as Matplotlib and Seaborn, allowing analysts to create informative graphs and charts to convey their findings effectively. Its performance, built on top of the NumPy library, ensures

that it can efficiently handle large datasets and further optimizes code with vectorized operations.

In conclusion, Pandas is an indispensable tool for data professionals. It streamlines the process of working with structured data, making tasks like data cleaning, transformation, analysis, and visualization more accessible and efficient. Its user-friendly design and powerful features have solidified its position as a go-to choice for anyone involved in data analysis and manipulation in Python.



e GOV Product

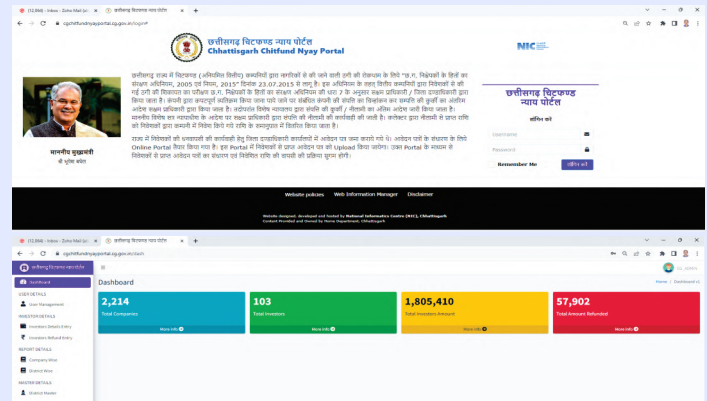
Chhattisgarh Chitfund Nyay Portal

<https://cgchitfundnyayportal.cg.gov.in>

The Government of Chhattisgarh has introduced an integrated web portal to streamline the refund process of investors' money from unregulated financial companies (Chitfund). The primary goal of this portal is to enhance the efficiency of monitoring the refund process and simplify the overall procedure. The portal will compile comprehensive information on investors from district offices, providing a one-click access to the complete investor data at the state level.

This initiative not only facilitates easier exchange of information between district and state levels but also accelerates the process of refunding investors' money. Each district has been assigned a login ID and password to access the portal. Investors' personal details, investment particulars, bond/policy information, payment receipts, and bank account details shall be fed by district users. Moreover, they can upload necessary documents.

The web portal's dashboard allows for the easy retrieval of



company-wise and district-wise reports, including the number of investors, the amount invested, the amount returned, and other relevant information. This user-friendly platform aims to make the entire refund process more transparent and efficient.

AI ENABLED CROP DOCTOR 2.0

Crop Doctor 2.0 - Innovative and Transformative smart farming using artificial intelligence is an Agriculture 4.0 project developed by Indira Gandhi Agriculture University & NIC Raipur. Implemented in Chhattisgarh state and other regions of the country, this project offers a comprehensive range of services to farmers. By leveraging artificial intelligence and machine learning, Crop Doctor 2.0 aims to revolutionize agricultural practices and enhance productivity. The project provides advanced features such as insect and pest identification, expert systems for diagnosing insect pests and nutrient deficiencies in various crops, and effective weed management strategies for major crops in Chhattisgarh. Additionally, it offers an online agri-marketing platform that connects farmers directly with buyers, facilitating transparent and efficient agricultural trade. The project also assists farmers in developing integrated farm plans, considering factors like soil health, climate conditions, and market demand. It provides access to land and rental services for farm implements, reducing the financial burden on farmers. Through weather advisories from the Indian

Meteorological Department, Crop Doctor 2.0 helps farmers make informed decisions about sowing, irrigation, and crop protection. It also offers an agro almanac, farmers' query redressal system, and knowledge dissemination through videos, block-level crop advisories, information on government schemes, online expert advice, agri news, social media platforms, and market price information. With approximately 7,60,289 registered beneficiaries benefiting from the Project, it has revolutionized agricultural practices and improved knowledge. In summary, Crop Doctor 2.0 is a transformative initiative that empowers farmers with cutting-edge technologies and services, facilitating sustainable and efficient agricultural practices in Chhattisgarh and beyond.

Technology Used

Artificial Intelligence (AI): AI is used for pest and disease identification in crops. Through machine learning algorithms, AI analyzes images of crops to identify and diagnose specific pests or diseases accurately. The purpose is to enable farmers to promptly detect and manage crop issues for improved productivity and reduced losses.

Data Analytics: Data analytics is employed to analyze and process large datasets related to weather patterns, crop characteristics. The purpose is to

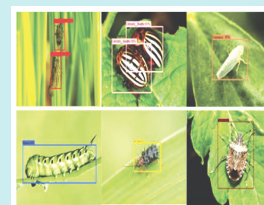
extract valuable insights and generate Block level personalized recommendations for farmers, enhancing their decision-making capabilities.

Mobile Applications: Mobile applications are developed and deployed as a means to deliver farmer-centric services. These apps provide a user-friendly interface for farmers to access services such as pest identification, weather forecasts, farming advisories, market access, and expert advisory systems. The purpose is to provide convenient and accessible platforms for farmers to access information and services on the go.

The project aims to leverage cutting-edge tools and platforms to provide

accurate information, personalized recommendations, and efficient access to services. The

technologies employed contribute to the project's overarching goal of enhancing agricultural practices, improving market access, and empowering farmers with knowledge and technology.



Resonance

Enterprises Architecture (EA) enabling Integrated e-Governance solution. NIC, Bhubaneswar Organised Tech-Bootcamp on EA and IndEA Framework



The Tech-Bootcamp on Enterprises Architecture and IndEA Framework was organised on 9th February 2023 for senior officers of government at National Informatics Centre, Bhubaneswar. Inaugurating the workshop Shri Bhaskar Jyoti Sharma, IAS, Commissioner-cum-Secretary, Social Security and Empowerment of persons with Disabilities Department highlighted the importance Enterprise level thinking at governance level. He added that, the e-governance solutions are being developed in silos and the interoperability

need to be expressed not only within the department but also needs to transcend beyond with appropriate vision, goals and objectives. Enterprise framework is an established way which calls for comprehensive study of the system and prepares e-Governance solution (including Data, Applications, Technology, and Security etc.) in order to ensure the resilience of the system to meet ever growing public expectation, complexity of Government processes and dynamic business requirement with optimum cost. Dr.P. Gayatri, Senior Director (IT) and Head of CollabFiles and Enterprise Architecture Resource Division, NIC, Hyderabad informed that NIC has taken substantial lead in developing and preparation of these Enterprise artefacts. Some of the initiatives include designing of Architectural Frame work like UEAF (University Enterprise Architecture Framework involving 107 universities),

PSC-EAF (Public Service Commission-Enterprise Architecture) for Himachal Pradesh, Digital NIC Architecture, MDWS EAF (Ministry of Drinking Water and Sanitation Enterprise Architecture), Document Registration System (DRS-EAF), Pune and contribution in Land Hub Enterprise Architecture (LHEAP) module of ePragati, with the recent one being development of State Enterprise Architecture for Meghalaya Government etc. Interacting with participants, Ms. Vishakha Satish Gorwade, Director(IT), Maharashtra informed that NIC has designed a training module for Lal Bahadur Shastri National Academy of Administration (LBSNNA) on Enterprise Architecture. She also presented on CollabFiles- an indigenous Platform to connect, create, share & collaborate on office documents.

Award / Accolades



On 25th August 2023, the University and Scientist from NIC, Sh. Abhijit Kaushik were present. This honor has been given by the Government of India for advanced and transformative smart farming using artificial intelligence in agriculture through Crop Doctor 2.0 mobile application of Indira Gandhi Agricultural University. This mobile application has been developed and made by Indira Gandhi Agricultural University with the technical partnership of NIC Raipur.

Administrative Reforms and Public Grievances, Government of India, for excellence in research on citizen centric services by an academic/research institution. Union Minister Dr Jitendra Singh honored Dr Girish Chandel, Vice Chancellor of Indira Gandhi Agricultural University with a gold trophy, citation and Rs 10 lakh. On this occasion, Dr Ravi Saxena, Nodal Officer of Management Information System of

the University and Scientist from NIC, Sh. Abhijit Kaushik were present. This honor has been given by the Government of India for advanced and transformative smart farming using artificial intelligence in agriculture through Crop Doctor 2.0 mobile application of Indira Gandhi Agricultural University. This mobile application has been developed and made by Indira Gandhi Agricultural University with the technical partnership of NIC Raipur.



National Informatics Centre

Chhattisgarh State Centre
AD-2, Second Floor, Room No-14,15,16 Mahanadi Bhawan, Mantralaya,
Nava Raipur Atal Nagar, Chhattisgarh - 492002

<https://chhattisgarh.nic.in>

भारत सरकार
(GOVERNMENT OF INDIA)



इलेक्ट्रॉनिक्स और सूचना प्रौद्योगिकी मंत्रालय
(MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY)