Chikkaballapur, Karnataka

Ability to keep abreast of eGovernannce and its potential societal impacts

Edited by **REUBAN K.**

IC Chikkaballapur was established in 2007 to serve the ICT needs of the newly formed Chikkaballapur district. The District Centre initially operated from a makeshift office in Government Grainage Building, Chadalapura, Chikkaballapur, but later shifted to Zilla Adalitha Bhawan in 2014. Since then, it has played a pivotal role in leading the eGovernance activities in the district.

ICT Initiatives in the District

As an integral part of the digital journey towards the Digital District mission, NIC Chikkballapur has played a vital role by providing training and technical support to various stakeholders in the following Central and State eGovernance projects, viz. eOffice, District Information System for Election (DISE), Smart Performance Appraisal Report Recording Online Window (SPARROW), Aadhaar Enabled Biometric Attendance System

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The IT revolution in Chikkaballapur started by NIC with the development of various in-house software apps as per the requirements of the District Administration and providing hands-on training and technical support to the stakeholders with full efficiency. This enabled transparency in the service delivery. The District Centre has developed an end-to-end web solution for the recently held world's largest health camp at Chikkaballapur adjudicated by the World Book of Records, London.

(AEBAS), Jeevan Pramaan, National Database for Arms Licence Issuance System (NDAL-ALIS), Vahan & Sarathi, Immigration, Visa and Foreigners Registration and Tracking (IVFRT), eHospital, eCourts, eProsecution, Integrated Road Accidents Database (iRAD), NHM-Financial Account Management System (N-FAMS), Online Land Ownership Record Details in Rural Areas (eSwathu), Grama Panchayat Online Double Entry Account System (Panchatantra), Online Land Ownership Record Details in Urban Areas (eAasthi), District Sectoral Annual Budget Plan (eYojane), RTI Online, Online Performance Appraisal Report (ePAR), Guarantee of Services to Citizens (SAKALA), Integrated Public Grievance Redressal System (iPGRS), Crop Insurance Application (Samrakshane), Revenue Court Case Monitoring System (RCCMS), Bhagyalakshmi, Excise Common Integrated Police Application, Nadakacheri, Election Monitoring System (EMS), Public Distribution System (Ahara), Birth and Death Registration (eJanma).

Chikkaballapur Health Camp App

NIC Chikkaballapur has designed, developed and implemented an end-to-end web app for a two-day free health camp, organised by Dr. K. Sudhakar Foundation in association with the Department of Health and Family Welfare, Department of Medical Education, and Chikkaballapur District Administration on 14th and 15th May 2022. The app allowed ASHA and Anganwadi workers to capture the details of the beneficiaries for whom medical care was required. In total, 118933 beneficiaries were registered for the health camp online and with spot registration, the count exceeded two lakh. NIC had extended the complete IT solution including the support in terms of network, application development, rollout, handholding, hosting, and maintenance.

The District Administration categorised the data demographically in terms of ward, age, gender, and medical facility available. This helped the administration to provide the necessary support for the arrangement, procurement, and transportation of medical
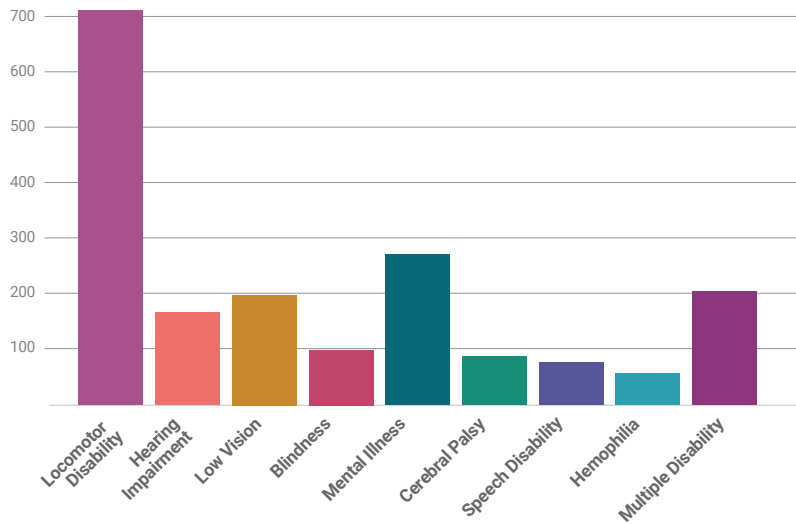
▲ Fig. 2.1: Physically challenged patients registered on Chikkaballapur Health Camp App

supplies. The app also captured post-medical treatment details for individual patients to be referred for further treatment in higher healthcare institutions. (Refer Fig. 2.1 and Fig. 2.2)

Borewell Management System

Borewell Management System (BMS) is a web app developed for the Chikkaballapur Zilla Panchayat to collect the village-wise borewell details in the district.

The app allows end users, viz., Chief Executive Officer (Zilla Panchayat) and Executive Officer (Taluk Panchayat) to monitor borewell details, once entered by Panchayath Development Officer (PDO). It also has a provision to monitor the historical water yield and recharge structure available to each borewell, for which data is entered periodically. The concerned user can decide construction of the recharge structure or redigging the borewell based on the historical data available. The user can also monitor the details of dried borewell whether the casing is removed or not and whether the borewell is closed or not. PDOs need to enter the maintenance details of

the borewell and the duration is taken to repair the borewell. From this report, the concerned user can cross-verify water supplied through water tankers.

COVID-19 Report Generation App

COVID-19 Report Generation App is a web-based app that fetches the COVID-19 test details from the health department and ports data into a local database. Whenever the applicant provides inputs such as Specimen Referral Form (SRF) ID and swab collection date, a negative report is generated if data is available in the database. This app only generates negative reports as it is not advised to disclose the identity of COVID-19 positive patients.

Swachh Gram App

This is a G2G app to effectively monitor the Swachh Gram Mission activities carried out at Gram Panchayats on a regular basis. It provides role-based access to PDO at Gram Panchayat, EO at Taluk Panchayat and CEO at Zilla Panchayat and can be accessed through both mobile and web.

▼ Fig. 2.2: Specialty-wise patients registered on Chikkaballapur Health Camp App
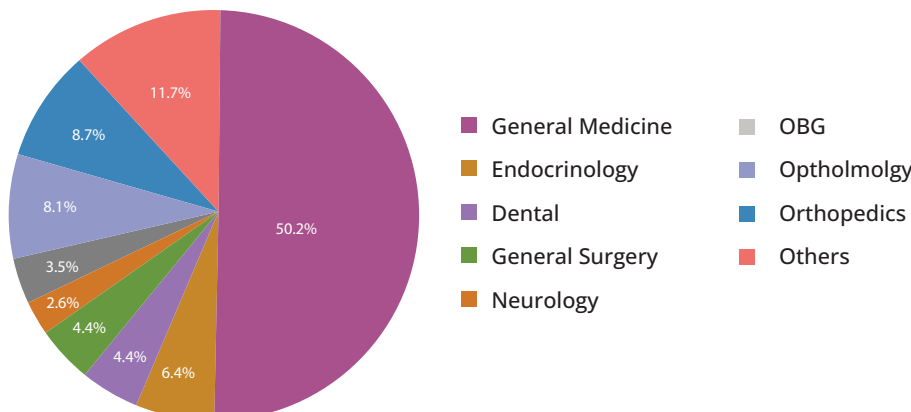
NIC Chikkaballapur District Centre has played a pivotal role in prevailing and leading the eGovernance activities. One of its activities includes the development of an end-to-end web app for the World's Largest Health Camp at Chikkaballapur on the 14th and 15th of May 2022. The District Centre has played a pivotal role in helping the district administration in various recruitments with the use of ICT bringing transparency and efficiency to the process. Also, NIC has been rendering exemplary services during the conduct of Parliamentary, Assembly, Panchayaths, and Local Body elections.

I congratulate the entire team of NIC, Chikkaballapur who have been working tirelessly and relentlessly providing sustainable support and services to the District Administration during the pandemic last year, implementing and developing many web apps required for district administration and being the first in state to adopt technology solutions like COVID Negative Report Generation and used Bharat VC for live streaming. I hope to carry forward eGovernance to reach the unreached in the district.

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Deputy Commissioner & District Magistrate
Chikkaballapur

Samrudha MevuGovugala Nalivu App

Samrudha MevuGovugala Nalivu is a web-based app that helps the administration distribute subsidies to the farmers for growing fodder. It is complemented by an Android app that is used by the Village Accountant to approve the eligible beneficiaries based on farmer registration data in the Samrudha MevuGovugala Nalivu scheme.

The major stakeholders for this app are the Rural Development and Panchayat Raj Department, KOCHIMUL (Kolar-Chikkaballapur District Cooperative Milk Producers Union Limited), the Department of Animal Husbandry & Veterinary Services, and the Karnataka Revenue Department.

Fodder Stock and Distribution System

This is a workflow-based web app to ease the administrative process of fodder distribution. Farmers can register by using their ration cards and need to specify the number of cattle. Based on the cattle count, the District Administration decides the required quantity of the fodder which helps in the tender process. The successful

▲ Fig. 2.3: Hon'ble Minister of Health and Family Welfare & Medical Education, Karnataka, Dr. K. Sudhakar inaugurating Swachh Gram App

bidder supplies the fodder to every taluk whenever the demand is raised by the Tahsildar. This will be updated as inventory at the taluk level. After receiving stock, he can find out the stock availability at each distribution centre and distribute the stock on a need basis. At the distribution centre, the person in-charge will distribute the fodder to farmers based on cattle count. It has a provision to restrict the fodder to the farmers based on the ration card number. The District Administrator can also monitor the progress through the district-level dashboard and generate reports required by the Animal Husbandry and Veterinary Services Department, Government of Karnataka.

Rain Water Harvesting Monitoring System

This is a mobile-based app to capture the Rain Water Harvesting (RWH) structures in each household of a selected ward by the volunteers in order to create an MIS. Houses are classified as Houses with RWH (Green) and Houses without RWH (Red). Once classified, the work to convert a Red House to a Green House is initiated by the City Municipal Council. A web-based dashboard integrated with Google Maps is also provided to concerned users to monitor the entire progress.

Staff Quarters Allotment System

This web app collects the applications for leasing the government staff quarters from government employees in the district. An applicant can apply for one location out of multiple locations based on his / her eligibility. The app, then, allots the quarters accordingly.

Poll Day Monitoring and Analysis (PDMA)

PDMA is a web app to collect Poll Day Bi-Hourly Statistics from the Sector Officers/Presiding Officers of the Polling Stations and display poll trends to the District Administration Dashboard designed and integrated with the Google Charts API for the District Elections Officer, Chikkaballapur.

Other Key Initiatives

IoT Prototype for Borewell Monitoring

It is pertinent to utilise the existing resources and provide quality services to users. In one such situation, where borewells are prone to damage due to electricity contingency, Internet of Things (IoT) as a platform has helped to automate and manage the borewell. The IoT-based system informs the concerned officials about non-functional borewells and measures the quantity of water taken out each day through an SMS. The captured data is then uploaded to the cloud for maintaining the historical records. The project is headed by Smt. Gangamma M., Professor, Department of Computer Science, KVT Polytechnic, Chikkaballapur in association with NIC Chikkaballapur to resolve the problem.

Important Events Organised

● Provided technical support to conduct Azadi ka Amrut Mahotsav Program at Vidurashwatha Village, Gowribidanur Taluk, Chikkaballapur for

projecting the Hon'ble Prime Minister's Program live from Sabarmati Ashram, Gujarat in presence of Hon'ble Governor, Hon'ble Chief Minister and all other District level officials

● Provided Video Conferencing Services on Yoga Day Celebrations across the district

● Provided technical support to conduct Awas Par Samvad for the DUDC department and used Bharath VC to live cast the program across the District colleges

Accolades

SAKALA Services

Chikkaballapur is one of the top performing districts in the SAKALA Rankings, a point based system, which was introduced as the part of the SAKALA Services Act, 2011 and (Amendment) Act, 2014 by the Government of Karnataka to measure timely disposal of public issues and grievances. The Act enables people to be aware of their rights and coordinate their grievances between the various departments in due course. The disposal of grievances within the stipulated time frame prevents people from frequenting government offices and facilitates transparency.

As a technology partner, NIC Chikkaballapur has provided necessary technical support at both District and Zilla Panchayat. The efforts can be seen in results as Chikkaballapur has been at the top of the SAKALA Ranking for over fifty times. Since April 2012, the district has received a total of 23,23,160 receipts and disposed of 23,03,400 at an average of 99.15 percent.

During the decennial event of SAKALA Services Act, the Chikkaballapur District was felicitated by Shri B. C. Nagesh, Hon'ble Minister of Primary & Secondary Education and SAKALA, Government of Karnataka.

Way Forward

In order to realise the dream of 'Digital India', NIC Chikkaballapur is well prepared and continues to provide all the technical support to the district administration. It intends to develop apps using the latest web technologies and adopt international standards in order to provide better, improved, and efficient services. Furthermore, NIC Chikkaballapur is collaborating with the local institutions through the Industry Institute Partnership Cell for R&D activities to develop citizen-centric apps.

▼ Fig. 2.4: Borewell management IOT prototype development team: Ms. Ashwini N.F.O., Prof. Gangamma M., Sai Sharan G.N., Naresh K., Syed Saqlain, Nayan D., Chandanachari S., Vinay C.P. (DIO NIC)