Initiatives Under BHOOMI Project in Karnataka Revenue Department

BHOOMI, the Land Records Management System is one of the first e-Governance projects successfully implemented for the benefit of the common man, jointly by the Government of Karnataka & NIC, Karnataka. It has been providing service to more than 70 lakh farmers of Karnataka since last 10 years. BHOOMI has become the model for replication in many other States.

Edited by **R.Gayatri**

BHOOMI is an online mutation management software for updation, maintenance and dissemination of Record of Rights (ROR) in Karnataka. BHOOMI is a finest example of an evolving e-Governance application. Over the years functionalities and facilities in BHOOMI have grown multi-fold. Started as a small vanilla application to manage online mutation in 1999 and further rolled out across the state in 2000-2001, now BHOOMI has wide spread scope in terms of bringing orderliness, accountability and transparency in the mutation management using bio-metrics for user authentication, FIFO techniques for approvals, invalidating manual records, creating the data centre to store and disseminate RORs through WEB, making the status of transaction available on WEB. Public Key Infra-structure (PKI) has been enabled on BHOOMI to make it adher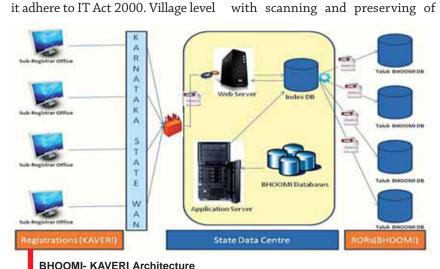e to IT Act 2000. Village level functionaries like Village Accountants and Revenue Inspectors have been provided with Digital Signature Cards to approve the mutations and sign RORs as digital documents using DSC issued from NIC Certifying Authority. Survey activities have been appropriately merged with BHOOMI to achieve the much required synchronisation of textual and spatial data in the field of land records. Electronic integration of BHOOMI with BHOOSWADEENA an automated land acquisition system has resulted in updated land records by reducing human discretion. Pilot implementation of electronic integration of BHOOMI with Banks and financial institutions has been completed and state-wide roll out is in progress.

KAVERI: KAVERI is a client-server application designed and developed by C-DAC (Centre for Development of Advanced Computing) to cater to the needs of the Registration Department. This software takes care of registration activity along with scanning and preserving of

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BHOOMI- KAVERI Architecture

Sh. A Venkatesan, DDG & SIO along with then Hon'ble Revenue Minister Sh.G Karunakara Reddy and other dignitaries inaugurating the 10th Anniversary celebrations of BHOOMI

deeds executed during registration process. KAVERI application takes care of registration under all the articles mentioned in transfer of properties act and marriage registrations with respect to Hindu Marriage Act and Special Marriage Act.

ONLINE INTEGRATION OF BHOOMI AND KAVERI SOFTWARE

The online integration of BHOOMI and KAVERI software helps the farmers of the state in reducing their hardship and land related litigations. The registration of a sale deed will be strictly done by using the BHOOMI database. The sale transactions will take place only if the land is identified with specific survey number and name of the seller being available in the database and also the proposed extent of transaction available with the farmer in the database. This will ensure that there are no fraudulent transactions in future. This integration will also not allow the transactions on lands granted to Scheduled Castes and Scheduled Tribes upholding/adhering to non alienation conditions as per PTCL provisions. If there are any other Government restrictions for sale on any property such lands also will not be allowed to be sold. Objectives of integration of BHOOMI and KAVERI:

- Facilitates in bringing synchronization between KAVERI and BHOOMI by reducing time lag between registration and initiation of muta-

tion process.

- Facilitates in avoiding duplication of data entry work that is being done at KAVERI and BHOOMI reducing workload.
- Facilitates in reducing or removing the data entry mistakes resulting in rejection of J-slips.
- Facilitates in reducing rejection of mutations in BHOOMI due to wrong data entry.
- Facilitates in reflecting registration events on record of rights with minimum time lag owner wise.
- Facilitates in maintenance of electronically retrievable encumbrance certificates because identities used for a land parcel would be same in both the systems.

Most interesting aspect of this integration is two heterogeneous systems with respect to both administrative setup and technical support provider are integrated to deliver the best to the citizen.

SMS ALERTS ON MUTATION STATUS

The information of all the stages of mutation process will be alerted to the farmers through SMS service. From the day the process starts, till the disposal of mutation, SMS service will be available for the farmers both in English and Kannada. Another value added service is registration of mobile numbers against a survey number. An SMS alert will be sent to the owner whenever there is a transaction initiat-

ed on that survey number. These services are providing the transparency in the system.

FELICITATION OF NIC OFFICERS

On the occasion of successful completion of 10 years of BHOOMI project, Sh. Samartharam, Principal System Analyst was felicitated. A team of officers from NIC, Karnataka State Unit under the leadership of Sh. A. Venkatesan, SIO has been working on this project for the last 10 years continuously and relentlessly putting in its best efforts to improve the software as and when required. The Revenue department has also been given sug-

Sh. N R Samartharam, PSA, BHOOMI Project Coordinator , NIC Bangalore being felicitated by the then Hon'ble Revenue Minister Sh. G Karunakara Reddy

gestions on critical Business Process Reengineering required for betterment of BHOOMI project. On this occasion, Sh. G.Karunakara Reddy, then Honourable Revenue Minister, Government of Karnataka has inaugurated new initiatives under BHOOMI project in the Revenue Department on 24/6/2011, at Tumkur, Karnataka.

For further information

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