

Good Morning to All.

Myself Surendranath, working for Program Planning and Evaluation Group of U.R. Rao Satellite Centre. I am **responsible** for **Management Information Systems (MIS)** required for administrative related activities and **voice communication** requirements of URSC campuses.

1. To begin with **my major contribution towards** a web service consumption system using XML files called ISRO/DOS PFMS Web Services Interface System (IPWS). IPWS is **background process** that process XML input requests received from COINS and validate it before sending it to PFMS web services consumption system for obtaining desired responses. I'm responsible from **requirement elicitation** to **maintenance** of this system and also developed scripts for transferring XML files between COINS and IPWS servers using rsync utility and ensured cyber security of these systems. Presently IPWS is **serving** its **objective** satisfactorily across all ISRO centres/units.
2. **Next major contribution** is realization of **COINS-PFMS Interface Software** which jointly developed by URSC and SDSC for executing payee, budget and expenditure related transactions over internet. I played a key role from **conceptual design** to **operationalization** of the system and member of three inter centre committees including committee to review COINS-PFMS Interface software constituted by Secretary, DOS. As a member of this committee addressed all **post operational critical issues** and ensured system is **stabilized** within a short period. As a part of T&E committee conducted **exhaustive verification** and **validation** of this system and submitted detailed test report to committee. As a team leader conducted **code walk through** of this system and submitted a detailed report.
After implementing this system achieved financial discipline and disbursing payments electronically.
3. Submitted technical paper on 'e-Governance Initiatives at URSC' at ISRO Seminar on Computer and Information Technology (ISCIT) – 2018 and same has been selected for oral presentation.
4. **My next major achievement** is web based information system called SANDESH. SANDESH system provides required personal information to employees and MIS reports to management for decision making. As a part of enhancements and maintenance of this system designed and developed a comprehensive online **Official Travelling Allowance** processing module, implemented CONNECTION POOLING concept to improve performance, implemented **Git** software version control tool and integration of **email** and **SMS alerts** which enables e-Governance related services. **Sandesh** system has been **deployed** at VSSC, LPSC(B), HSFC, MCF, ISRO HQ and PRL.
After implementing this system reduced queries/calls between administration areas and employees, saved time/paper and provides effective working environment.
5. **In addition** to these activities, as an engineer in-charge responsible for providing continuous voice communication services at URSC campuses. As a part of this executing upgradation and augmentation of existing EPABX systems at URSC campus. Provided 600 additional telephone connections by reusing peripheral cards of ISTRAC EPABX system, in effect saved about ₹35 lakhs to organization.

These are all **major activities carried out** by me **during** the reporting period, which needs continuous improvement of these systems and developing new modules as and when required.