Good Morning ALL,

My Name Is Navdeep Garg, I have joined ISRO on 24th May 2016 and I’m working in MISD division under PPEG.Here I got the opportunity to develop & enhance office automation bypracticing latest technologies and got the chance to implement of PFMS system across all ISRO centres . Along with this I’m also responsible to provide up-to-date and accurate information to management for decision making process.

So, as a part of MISD team , I would like to give brief about my major contributions in the given tenure ,which are :  
  
Development of IPWS module, It is an interface module to link COINS with Public Financial Management system (PFMS) using WebService.

Here I was responsible for the designing, testing and implementation of IPWS module and configuration of corresponding server. IPWS was developed in Java Environment using apache log4J, Quatrz, Jasypt APIs and exchanged messages in SOAP format. Further we have developed shell scripts using **rsync** utility for transferring XML files between COINS and IPWS servers and also ensured system configuration related to hardening and cyber security of IPWS server based on recommendation given by CSMD team.  
**IPWS is serving its objective satisfactorily across all ISRO centres.**

Next I was involved in the testing and evaluation of COINS-PFMS Interface software which was jointly developed by URSC and SDSC **for executing payee, budget and expenditure related transactions over internet using PFMS.** In addition to this conducted **code walk through** of this system and submitted a detailed report after highlighting all major issues with business logic, and short coming in functionality along with performance related issues.

URSC is committed to automate processes in administrative area, so in order to realize the same we make use of Sandesh software for implementation by using J2EE and bootstrap technologies. And here I was involved in the development of Official Travelling Allowance system that caters the requirement of processing of domestic and international official tours including **digitization** in air fare payment to travel agent like Balmer Lawrie.   
As a part of enhancements to this system, implemented **connection pooling** concept and Git software version control tool to strengthen the developmental activities.  
 Further to enable G2B model of **e-governance an** Integrated module for email and SMS alerts is developed to send payment acknowledgment to registered vendors.

**In nut shell after implementing this system, it becomes possible to improve the productivity and efficiency in existing office procedures.**

Next, we have developed a prototype model of integrated MIS system **using SPIRNG BOOT and Hibernate technology which** can interact with the **distributed databases** across all ISRO centers to provide an integrated result at a common place. It is an attempt towards making a comprehensive MIS for ISRO.

**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

Next as a Divisional Management Representative (DMR) of my division, I hold the responsibility to coordinate and update all documents to ensure QMS process in the division.  
All NCs and Internal and External Audits had happened on satisfactorily note so far.

So In the end, I would say after implementing PFMS and other office automations techniques in URSC I feel grateful for being part of such projects which are directly touching up with the live operational activities.

Thank you all for listening.