My Name Is Navdeep Garg, I have joined ISRO on 24th May 2016 and working in MISD division under PPEG.Here I got the opportunity to develop and enhance the information system of URSC.  
In my current role I am responsible to implement emerging requirement related to office automation by practicing latest technologies and also to provide up-to-date and accurate information to management for decision making process.

So, 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 ISRO/DOS Accounting system i.e. COINS with PFMS. PFMS is Public Financial Management system **is a web based online application to track and monitor fund disbursement and utilization on real time basis.** This platform had rolled out in 2014 under the mandate of Ministry of Finance to proceed with **Digitization of Govt. Accounts through PFMS**  
So role of IPWS raised in establishing communication between these two systems.  
It is a WebService consumption model to access the services offered at PFMS.  
Here I was responsible for the requirement elicitation, designing, implementation of IPWS module and configuration of corresponding server based on the recommendation of CSMD team. IPWS was developed in Java Environment using apache log4J, Quatrz, Jasypt APIs and exchanged messages in SOAP format. Further hardening of IPWS server was ensured after following the recommendation of CSMD team   
**IPWS is serving its objective satisfactorily across all centres.**

Next I was involved in the testing and evaluation of COINS-PFMS Interface module that comprises of new module in COINS related to PFMS and IPWS. Major task involved in it was to ensure all fields required in XML format should be made available to make it compatible with the target system ie . PFMS.  
**Here we have submitted the report to COINS development team for its implementations, which they did to improve the quality of software and system** .

Next I was involved in the development of Official Travelling Allowance system that caters the requirement of processing of all Travelling Allowance claims comprising domestic and International both through online mode. **This system developed using J2EE and bootstrap technologies that has made a leap forward in encouraging paperless office by automating the process both for employee and accounts personnel’s.**  
Through this system a claim can be processed completely in 5 mins.  
  
Further one new module has introduced for digitation of Travel agent payments like Balmer Lawrie. This system has completely transformed the offline operations to online mode. Through this module, Account official now able to add/update/delete every bill details and take the online approval from Account officer to pass the bill for payment.

As an enhancement to this module an **Incentive management module** also developed which can adjust the fare incurred on the travel with the incentive received to travel agent from Airlines Companies.  
**Per year over to 3000 claims processed through this system.  
Through this Major paper work and efforts got reduced after digitization.**

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.

Next, we have developed a module to enable G2B model of **e-governance** where we have automated the scheduling of sending payment acknowledgment to registered vendors at URSC. This module has automated major [back-office](https://en.wikipedia.org/wiki/Back_office) processes and saved time.

Next as a Division 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.

Thus, my major contributions are in making use of latest technologies to realize effective and efficient work environment.

Thanks you.