

Date: 11/03/2017

## Letter of Intent for Asset Mapping

Between

**National Remote Sensing Centre, Hyderabad - 500037**

**ISRO, DOS**

and

**Alva's Institute of Engineering and Technology, Mijar, Moodbidri**

ISRO has developed an online Portal - Bhuvan Panchayat ([www.bhuvan-panchayat.nrsc.gov.in](http://www.bhuvan-panchayat.nrsc.gov.in)) with the space-based inputs towards resource-based and integrated spatial developmental planning of rural areas in a user-friendly enabling environment under the project 'Space based Information Support for Decentralized Planning (SIS-DP)'. In order to utilize the Portal for decentralized planning by Panchayat Raj Institutions (PRIs), ISRO has initiated a new project called Empowering Panchayati Raj Institutions Spatially (EPRIS) with the goal to empower PRIs by utilizing the Portal for developmental planning at Panchayat level. Towards achieving the goal, it is essential to have the information of existing assets so that one can assess the gap area and plan for new assets.

NRSC has initiated implementation of EPRIS project covering 10% of Panchayats with the help of Partner Institutions namely, SRSACs, NIRD and NGOs. Further to fasten the activity, the asset mapping workshop was conducted through distance learning from IIRS on 27th June 2016 to several academic institutions. During the workshop many academic institutions showed interest to participate in the asset mapping exercise. To carry out the asset mapping activity with Academic Institutions in a stipulated time of 3 months, ISRO has identified a nominal amount of Rs. 2000 per gram Panchayat for the logistics support. To avoid duplication of work, this Letter of Intent for asset mapping has been prepared for joint signature by NRSC & academic institutions.

In this Letter of Intent, National Remote Sensing Centre (NRSC) is the nodal agency for capacity building, asset mapping and activity planning for empowering PRIs, NRSC and Alva's Institute of Engineering and Technology, Mijar, Moodbidri, agree to exercise their best efforts in fulfilling the following obligations for asset mapping in the selected Gram Panchayats (as per list shown in Annexure-1):

1. All the community assets lying in the selected Gram Panchayat area are to be mapped using the latest version of Bhuvan Panchayat Asset Mapping Mobile App, freely downloadable from the Bhuvan Panchayat Portal ([www.bhuvan-panchayat.nrsc.gov.in](http://www.bhuvan-panchayat.nrsc.gov.in)).
2. The asset mapping is to be done in co-ordination with the local Elected Panchayat Representatives / Panchayat functionaries and validated by the concerned Elected Panchayat Representative / Panchayat functionary.
3. The assets successfully mapped by the Bhuvan Panchayat Mobile App will be available on the Portal after moderation.
4. The following documents, available in Bhuvan Panchayat Portal for free download, may be referred for the detailed methodology: (i) Asset Directory and Mapping Guidelines, and (ii) Bhuvan Panchayat Asset Mapping App User Manual.
5. Remuneration will be paid to the University at the rate of Rs. 2000 per Gram Panchayat on signing of this Letter of Intent.

Dr. Ravin  
20/3/17

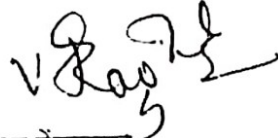
V. S.  
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*[Signature]*

6. University/Institutes should make their own arrangement for Smart phone(s) for collecting the asset data in the field
7. After successful mapping of all the assets utilization of fund with necessary certification by the Panchayat Representative/ Panchayat functionary need to be submitted to NRSC
8. After successful asset mapping, developmental activity planning using Bhuvan Panchayat platform will be planned separately by capacity building of the locals with the participated academic institutions at Panchayati Raj Institutions.

This letter of intent is valid until successful completion of the task as per the above obligations, or 3 months from the date of signing this letter, whichever is earlier. The obligations under this letter of intent can be nullified on mutual consent. This letter of Intent is not intended to and shall not constitute in any way a binding or legal agreement, or impose any legal obligation or duty on either party.

Signatures



वी. रघु वेंकटरामन  
V. Raghav Venkataraman  
National Remote Sensing Centre  
CGM-RC, NRSC



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# **ISRO-ISAC & HAL, Bangalore**

## **A Report on Two Day Industrial Visit to Indian Space Research Organization (ISRO) Satellite Centre (ISAC), Bangalore & HAL Heritage Centre, Bangalore**

The department of Computer Science and Engineering had organized an industrial visit for 36 students of the Sixth semester B.E on the 20th March 2018, who were accompanied by three of the faculties of the department.

ISRO Satellite Centre (ISAC) is the lead center of the Indian Space Research Organization (ISRO) responsible for design, development, assembly & integration of communication, navigation, remote sensing, scientific and small satellite missions. For the benefit of students there is a space exhibition center at ISAC. Our students were able to see the exhibition. Scientist Mr. H L Srinivasa explained each and every display unit kept for the exhibition. It includes the models of the first Indian satellite Aryabhata, APPLE, INSAT series etc. Satellites are basically of two types- Indian Remote Sensing (IRS) satellites and communication satellites. IRS-1A was the first remote sensing mission undertaken by the Indian Space Research Organization (ISRO). It was a part-operational, part-experimental mission to develop Indian expertise in satellite imagery.





Students also gained knowledge about how television signals are broadcasted with the help of satellites. A working model was demonstrated. Various images of India taken at different angles from the satellites, for the purpose of geographical/weather study were seen. Latest images of moon obtained from satellite was also shown. Different electronic devices used in satellite and space communication were explained.

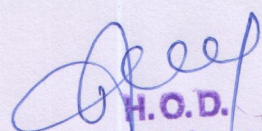
The most interesting part was the tour of the lab areas where the students were shown the making of real satellites in the clean room and were given a glimpse of the equipment and manpower involved in the making, testing and launching of satellites. The tour was extremely informative and greatly benefitted the students and enhanced their knowledge about ISRO and its satellites. It was followed by an informative and interesting movie showing the establishment of the organization and the immense achievements of ISRO in the past and its plans for the future.



The visit to *HAL Heritage Centre, Bangalore* was organized on 20th March 2018 with the prior permission and guidance of beloved *HOD Dr. Manjunath Kotari*.



The guiding staff onsite was very supportive to all students and guided to her best. Students had practical insights about LCA (Light combat Aircraft division). They also had *audio video presentation* on the development of propulsion system and *gas turbine* followed by visit to *Heritage center* and Aerospace Museum where a number of aircrafts and aero engines are on display. It was a good experience, which has provided exposure to the pre-final year students with the knowledge of Aviation. The students are benefited in terms of the technical details provided by the company. The students also enjoyed learning new things.

  
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