

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. Ravi  
20/3/17

V. S.  
27/3/17

*[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. Raghun Venkataraman  
National Remote Sensing Centre  
CGM-RC, NRSC



Alva's Institute of Engineering and  
Technology  
PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar, MOODBIDRI - 574 225, D.K.



PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar, MOODBIDRI - 574 225, D.K.

राष्ट्रीय सुदूर संवेदन केंद्र National Remote Sensing Centre  
प्रबंधन प्रणाली क्षेत्र, Management Systems Area (MSA)  
प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह Training, Education & Outreach group  
जनसम्पर्क सुविधा, जीडीमेट्ला Outreach Facility-Jeedimetla

दिनांक Date:30/3/2021

डॉ राजश्री बोथले Dr Rajashree V Bothale  
समूह निदेशक, प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह  
Group Director, Training, Education & Outreach group  
NRSC:ORF:2021/Apr/41

To,  
Dr Manjunath Kotari, HOD  
Alvas Institute of engineering and technology

महोदय/ महोदया Dear Sir/Madam

विषय: एनआरएससी में विद्यार्थी प्रोजेक्ट Sub: Student project at NRSC.

With reference to your above letter this is to inform you that **Mr Jagath Haren**, student of B Tech is permitted to undertake project work at NRSC. The duration of the project is from 1/4/2021 to 30/6/2021.

**Hari Priya S** has been identified as his/her/their Guide. Due to pandemic, the above student/students are advised to work online with him/her to carry out the project in virtual mode.

छात्रों के लिए आवश्यकता The students are required to:

- (i) Be regular in work during the period of the project.
- (ii) On completion of the project, submit a project report in soft copy to the Guide and to the undersigned.
- (iii) Obtain prior written permission from NRSC for publication of the Project work/ results and share authorship with NRSC project guide for publications/presentations.
- (iv) A Presentation has to be made on the work done one week prior to completion of the project.

Yours sincerely

राजश्री

(राजश्री बोथले Rajashree V Bothale)

Copy to:

- 1) Mr Jagath Haren
- 2) Dr Manjunath Kotari, HOD, Alvas Institute of engineering and technology
- 3) GD, TEOG
- 4) PPEG
- 5) Project Guide -Hari Priya S - Kindly ensure that the student completes the assigned work.
- 6) DD,DPA



राष्ट्रीय सुदूर संवेदन केंद्र National Remote Sensing Centre  
प्रबंधन प्रणाली क्षेत्र, Management Systems Area (MSA)  
प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह Training, Education & Outreach group  
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दिनांक Date:30/3/2021

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समूह निदेशक, प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह  
Group Director, Training, Education & Outreach group  
NRSC:ORF:2021/Apr/40

To,  
Dr Manjunath Kotari, HOD  
Alvas Institute of engineering and technology

महोदय/ महोदया Dear Sir/Madam

विषय: एनआरएससी में विद्यार्थी प्रोजेक्ट Sub: Student project at NRSC.

With reference to your above letter this is to inform you that **Mr K Thrishul**, student of B Tech is permitted to undertake project work at NRSC. The duration of the project is from 1/4/2021 to 30/6/2021.

**Hari Priya S** has been identified as his/her/their Guide. Due to pandemic, the above student/students are advised to work online with him/her to carry out the project in virtual mode.

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Yours sincerely

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(राजश्री बोथले Rajashree V Bothale)

Copy to:

- 1) Mr K Thrishul
- 2) Dr Manjunath Kotari, HOD, Alvas Institute of engineering and technology
- 3) GD, TEOG
- 4) PPEG
- 5) Project Guide -Hari Priya S - Kindly ensure that the student completes the assigned work.
- 6) DD, DPA

राष्ट्रीय सुदूर संवेदन केंद्र National Remote Sensing Centre  
प्रबंधन प्रणाली क्षेत्र, Management Systems Area (MSA)  
प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह Training, Education & Outreach group  
जनसम्पर्क सुविधा, जीडीमेट्ला Outreach Facility-Jeedimetla

दिनांक Date:30/3/2021

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समूह निदेशक, प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह  
Group Director, Training, Education & Outreach group  
NRSC:ORF:2021/Apr/43

To,  
Dr Manjunath Kotari, HOD  
Alvas Institute of engineering and technology

महोदय/ महोदया Dear Sir/Madam

विषय: एनआरएससी में विद्यार्थी प्रोजेक्ट Sub: Student project at NRSC.

With reference to your above letter this is to inform you that **Ms Nagashree Arun M**, student of B Tech is permitted to undertake project work at NRSC. The duration of the project is from 1/4/2021 to 30/6/2021.

**Hari Priya S** has been identified as his/her/their Guide. Due to pandemic, the above student/students are advised to work online with him/her to carry out the project in virtual mode.

छात्रों के लिए आवश्यकता The students are required to:

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- (iv) A Presentation has to be made on the work done one week prior to completion of the project.

Yours sincerely



(राजश्री बोथले Rajashree V Bothale)

Copy to:

- 1) Ms Nagashree Arun M
- 2) Dr Manjunath Kotari, HOD, Alvas Institute of engineering and technology
- 3) GD, TEOG
- 4) PPEG
- 5) Project Guide -Hari Priya S - Kindly ensure that the student completes the assigned work.
- 6) DD,DPA

राष्ट्रीय सुदूर संवेदन केंद्र National Remote Sensing Centre  
प्रबंधन प्रणाली क्षेत्र, Management Systems Area (MSA)  
प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह Training, Education & Outreach group  
जनसम्पर्क सुविधा, जीडीमेट्ला Outreach Facility-Jeedimetla

दिनांक Date:30/3/2021

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समूह निदेशक, प्रशिक्षण, शिक्षण एवं जनसम्पर्क समूह  
Group Director, Training, Education & Outreach group  
NRSC:ORF:2021/Apr/42

To,  
Dr Manjunath Kotari, HOD  
Alvas Institute of engineering and technology

महोदय/ महोदया Dear Sir/Madam

विषय: एनआरएससी में विद्यार्थी प्रोजेक्ट Sub: Student project at NRSC.

With reference to your above letter this is to inform you that **Ms Nayana G Naik**, student of B Tech is permitted to undertake project work at NRSC. The duration of the project is from 1/4/2021 to 30/6/2021.

**Hari Priya S** has been identified as his/her/their Guide. Due to pandemic, the above student/students are advised to work online with him/her to carry out the project in virtual mode.

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- (iv) A Presentation has to be made on the work done one week prior to completion of the project.

Yours sincerely



(राजश्री बोथले Rajashree V Bothale)

Copy to:

- 1) Ms Nayana G Naik
- 2) Dr Manjunath Kotari, HOD, Alvas Institute of engineering and technology
- 3) GD, TEOG
- 4) PPEG
- 5) Project Guide -Hari Priya S - Kindly ensure that the student completes the assigned work.
- 6) DD,DPA



भारत सरकार  
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Department of Space

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**CERTIFICATE**

This is to certify that **Jagath Haren** with USN 4AL17CS034 studying in B.Tech Final Year at Alva's Institute of Engineering and Technology, Moodbidri, affiliated to Visvesvaraya Technological University has successfully completed his Final Year Project Work at National Remote Sensing Centre, Indian Space Research Organization under our guidance. His Project Work is on "*Design and Development of Software Tool for Differential Interferometric SAR - DInSAR Processing for Deformation Studies*" during the period 1<sup>st</sup> April 2021 to 1<sup>st</sup> July 2021.

Sita Kumari EVS

Group Head, MDPG

Hari Priya S

Scientist/Engineer 'SE'

SARDPD/MDPG

भारत सरकार  
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**CERTIFICATE**

This is to certify that **K Thrishul** with USN 4AL17CS038 studying in B.Tech Final Year at Alva's Institute of Engineering and Technology ,Moodbidri, affiliated to Visvesvaraya Technological University has successfully completed his Final Year Project Work at National Remote Sensing Centre ,Indian Space Research Organization under our guidance. His Project Work is on "*Design and Development of Software Tool for Differential Interferometric SAR - DInSAR Processing for Deformation Studies*" during the period 1<sup>st</sup> April 2021 to 1<sup>st</sup> July 2021.

**Sita Kumari EVS**

Group Head , MDPG

**Hari Priya S**

Scientist/Engineer 'SE'

SARDPD/MDPG



भारत सरकार  
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## राष्ट्रीय सुदूर संवेदन केन्द्र

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Government of India  
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## National Remote Sensing Centre

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### CERTIFICATE

This is to certify that **Nagashree Arun M** with USN 4AL17CS052 studying in B.Tech Final Year at Alva's Institute of Engineering and Technology ,Moodbidri, affiliated to Visvesvaraya Technological University has successfully completed his Final Year Project Work at National Remote Sensing Centre ,Indian Space Research Organization under our guidance. Her Project Work is on "*Design and Development of Software Tool for Differential Interferometric SAR - DInSAR Processing for Deformation Studies*" during the period 1<sup>st</sup> April 2021 to 1<sup>st</sup> July 2021.

Sita Kumari EVS

Group Head , MDPG

Hari Priya S

Scientist/Engineer 'SE'

SARDPD/MDPG

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## राष्ट्रीय सुदूर संवेदन केन्द्र

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## National Remote Sensing Centre

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Fax : +040-23878648

### CERTIFICATE

This is to certify that **Naik Nayana Ganapati** with USN 4AL17CS053 studying in B.Tech Final Year at Alva's Institute of Engineering and Technology ,Moodbidri, affiliated to Visvesvaraya Technological University has successfully completed his Final Year Project Work at National Remote Sensing Centre ,Indian Space Research Organization under our guidance. Her Project Work is on "*Design and Development of Software Tool for Differential Interferometric SAR - DInSAR Processing for Deformation Studies*" during the period 1<sup>st</sup> April 2021 to 1<sup>st</sup> July 2021.

Sita Kumari EVS

Group Head , MDPG

Hari Priya S

Scientist/Engineer 'SE'

SARDPD/MDPG