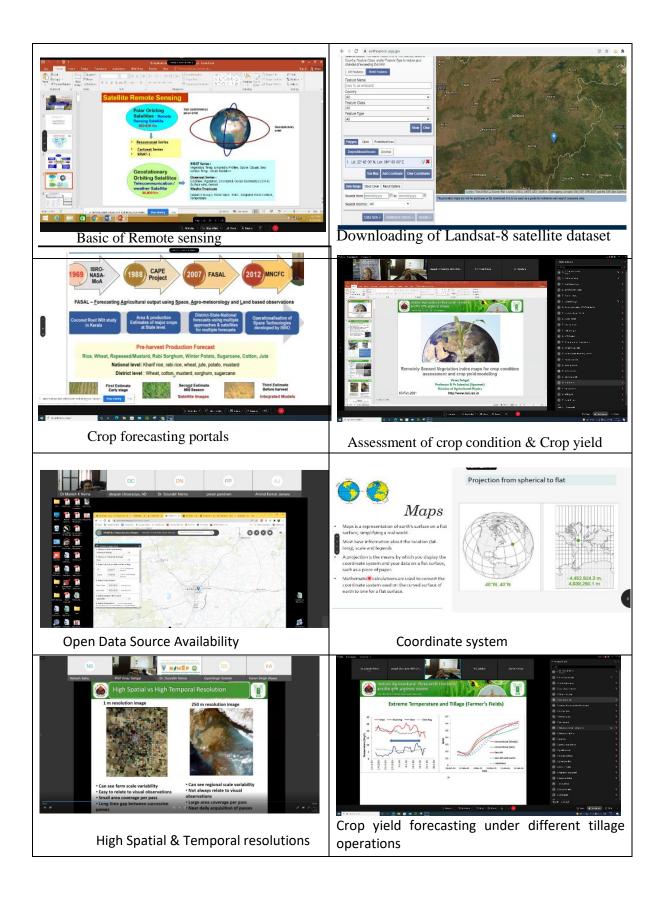
Educative Learning Program for Agriculture Executives (28th Feb 2022 to 05th Mar 2022)

The 6 days "Educative Learning Program for Agriculture Executives" was organized by NAHEP CAAST JNKVV Jabalpur from 28th Feb 2022 to 05th Mar 2022 for Agriculture officers of Department of Farmer Welfare and Agriculture Development, Government of Madhya Pradesh. The program was designed to cover the fundamentals of RS and GIS and to provide participants with the skills necessary to efficiently interpret and use the data contained on various classified maps that are currently available or will become accessible in the future for various planning reasons.

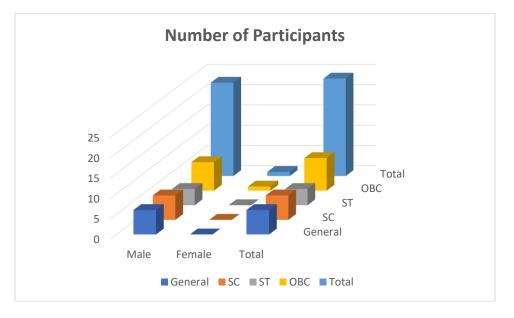
The training covered the following topics:-Concept of RS, Satellite Sensor & Resolution and Its Application in Agriculture, Introduction to GIS, Thematic Mapping, and RS applicability on planning, execution, and monitoring tasks, Groundwater potential zone maps, Lineament maps for water harvesting site selection in watersheds, Vegetation Index maps for crop yield modeling, crop condition assessment/stress assessment, crop classification, monitoring, and acreage estimation, Crop water requirements through RS & GIS, satellite data availability at open source, Collection of field data and verification of satellite data (Table 1). The training was attended by 26 agriculture officers belonging to different districts of Madhya Pradesh. (Table 2.)

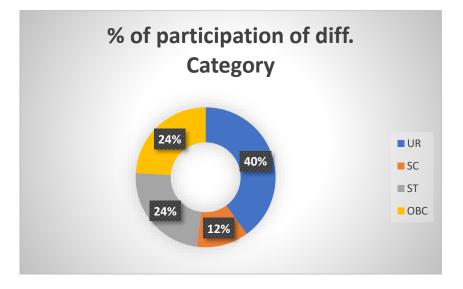
| Date | Торіс | Time |
|------|--|-------------------|
| Day1 | Concept of RS & GIS and Its application in Agriculture, | 12 Noon – 2.00 pm |
| Day2 | Classified Land use land cover maps, Classified Crop maps & Crop area identification | 12 Noon – 2.00 pm |
| Day3 | Groundwater potential zone maps, Lineament maps for Water harvesting site selection in watersheds | 12 Noon – 2.00 pm |
| Day4 | Vegetation index maps for crop yield modeling, Crop condition and stress assessment using RS & GIS | 12 Noon – 2.00 pm |
| Day5 | Crop inventory and crop resource management | 12 Noon – 2.00 pm |
| Day6 | Satellite data availability at open source, Collection of field data, and verification of satellite data | 12 Noon – 2.00 pm |

| Table 1: Table 1: Detailed | Training schedule | (28th Feb 2022 to | 05 th Mar 2022) |
|----------------------------|--------------------------|-------------------|----------------------------|
|----------------------------|--------------------------|-------------------|----------------------------|



| Educative Learning Program for Agriculture Executives | | | | | | | | | |
|---|----|----|----|-----|--------------------------------------|----|----|----|-----|
| Number of Participation | | | | | % of participation of diff. Category | | | | |
| Gender | UR | SC | ST | OBC | Total | UR | SC | ST | OBC |
| Male | 6 | 6 | 4 | 7 | 23 | 26 | 26 | 17 | 30 |
| Female | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 100 |
| Total | 6 | 6 | 4 | 8 | 24 | 25 | 25 | 17 | 33 |





Performance Evaluation:

To provide participants with a broad understanding and experience of RS and GIS application, the program covered a variety of critical issues related to RS application in particularly agriculture field. Additionally, various guest speakers delivered lectures during the workshop, including Dr. P. S. Tiwari (IIRS, Dehradun), Dr. V. K. Sahgal (IARI, New Delhi), and Dr. M. Nema (NIH, Roorkee). The daily attendance of 24 registered participants ranged from 14 to 24. Prior to and following the 6-Day RS & GIS educative training on RS & GIS, participants' performance was tested to determine their level of awareness and the effectiveness of the training. The average score attained by participants on the pre-training test was approximately 60%, ranging from 9 to 18 points. The post-assessment revealed an overall improvement, with participants achieving an average of 75% of marks, ranging from 12–18 marks.

Feedback from participants:

All participants were asked to respond online related to training, learning experience, knowledge before and after the training and application of RS & GIS. There were feedbacks of participants indicates the following:

- Training provides very interesting elements for those participants who are willing to learn everything related to GIS.
- The quality of the material and presentation was good.
- Great experience, interactions with scientists having expertise in Remote sensing & GIS

They learned:

- How to access the remote sensing data and used for Agricultural application.
- Different open-source data
- Different agriculture applications of RS
- A good exposure to the latest technology GIS and Remote sensing.

Table 2 Name of nominated candidates who were attended the training.

| | Nominated Participants | Participants attended |
|----|----------------------------|----------------------------|
| 1 | Shri Amit Pandey | Mrs. Geete Patel |
| 2 | Shri M. L. Jatav | Shri Amit Pandey |
| 3 | Shri R. D. Tripathi | Shri Ankit Rawat |
| 4 | Shri Ankit Rawat | Shri Ashok Singh |
| 5 | Shri Pan Singh Karoriya | Shri Ashoke Kumar Sharma |
| 6 | Shri Devi Singh Verma | Shri Brijesh Pratap Singh |
| 7 | Shri R. K. Shende | Shri C. S. Patle |
| 8 | Shri Ashoke Kumar Sharma | Shri Devi Singh Verma |
| 9 | Shri Prem Chandra Kewda | Shri Dr. Vimilesh Yadav |
| 10 | Dr. Vimilesh Yadav | Shri Gyasi Lal Ahirwar |
| 11 | Shri V. R. Mujalde | Shri Kailash Pachaya |
| 12 | Shri Ashok Singh | Shri Khudiram sanodiya |
| 13 | Shri J. S. Rawat | Shri M. L. Jatav |
| 14 | Shri Gyasi Lal Ahirwar | Shri Mukesh Kumar Shakya |
| 15 | Shri Rajendra Prasad Dubey | Shri Pan singh Karoriya |
| 16 | Shri Santosh Kumar Jain | Shri Prem Chandra Kewda |
| 17 | Shri Khudiram sanodiya | Shri R. D Prajapati |
| 18 | Shri Brijesh Pratap Singh | Shri R. K. Shende |
| 19 | Shri Shiv Kumar Singh | Shri Rajendra Prasad Dubey |
| 20 | Dr. Ravikant Singh | Shri S. P. Bhardwaj |
| 21 | Shri Champalal Patil | Shri Santosh Kumar Jain |
| 22 | Shri Dinesh Shrivastava | Shri Vilas Patil |
| 23 | Shri A. K. Shakya | Shri J. S. Rawat |
| 24 | Shri shusheel Kumar Udiwal | Shi M. S. Dharve |
| 25 | Shri S. P. Bhardwaj | |
| 26 | Mrs. Geete Patel | |
| 27 | Mr. Kapil Beda | |
| 28 | Shri Deepak Kumar Gamad | |

| 29 | Shri Kailash Pachaya | |
|----|--------------------------|--|
| 30 | Shri Mukesh Kumar Shakya | |
| 31 | Shri V. D. Patidar | |
| 32 | Shri C. S. Patle | |
| 33 | Shri Vilas Patil | |
| 34 | Shi M. S. Dharve | |
| 35 | Shri R. R. Sharma | |