

# ग्रामीण कृषि मौसम सेवा समाचार

## GKMS-News



Quarterly Newsletter  
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Agricultural Meteorology Division  
India Meteorological Department  
Ministry of Earth Sciences

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### *National Activities*

#### ➤ Visit of Team of Scientists from Department of Meteorology (DoM), Sri Lanka -

Indian Meteorological Department (IMD), Pune organised one day visit for trainees of DoM, Sri Lanka at KVK, Aurangabad on 15<sup>th</sup> December 2023. Smt. Ausha Rashanthi Patabadi Warnasooriya, Director, Shri. Uttama Wadu Jagath Damitha De Silva, Meteorologist, Shri. Hitihami Mudiyansele Nimal Bandara Ekanayaka, Meteorologist, Ms. Sethunga Mudiyansele Udari Bandara, Meteorological Officer from DoM, Sri Lanka were visited AWS and all various units running at KVK, Aurangabad. Shri. Ashok Nirwal, SMS (Agromet) provided all information about DAMU & AWS at KVK. Field visit and interaction with farmers were also arranged at Sawakheda village, Gangapur tehsil. All team members highly appreciated the work of DAMU and other activities and desired to plan these types of services for farmers in their country.



Team Of Scientist From Dept. Meteorology Sri Lanka Visited to District Agromet Unit (DAMU) Aurangabad Maharashtra on dated 15 Dec. 2023.

Shri. Ashok Nirwal, SMS (Agromet) provided all information about DAMU & AWS at KVK. Field visit and interaction with farmers were also arranged at Sawakheda village, Gangapur tehsil. All team members highly appreciated the work of DAMU and other activities and desired to plan these types of services for farmers in their country.

#### ➤ Agrimet Division, IMD, Pune was actively involved in organizing a five-days training on “Improvement of Agricultural Meteorological Services using the latest remote sensing tools” jointly organized by Climate Research & Services (CR&S), IMD, Pune and Department of Meteorology (DoM), Sri Lanka for officials of the DoM, Sri Lanka at CR&S, IMD, Pune during 11-15 December 2023. Scientists from Agrimet division, IMD, Pune delivered the following lectures during the training programme:

- “Concept of Operational Agromet Advisory Services and existing system in India” and “Analysis and management of climatic risks in Agriculture using crop simulation model (CSM)” by **Dr. Kripan Ghosh, Scientist-F & Head (Agrimet), O/o CR&S, IMD, Pune.**

- “Impact Based Forecast (IBF) for Agriculture”, “Outreach and Dissemination of AAS”, “Introduction to CSM” and “Water budgeting and scheduling of irrigation” by **Dr. Ashutosh Kumar Misra, Scientist-D, Agrimet, IMD, Pune.**
  - “Use of decision support systems in preparation of Agromet Advisories” by **Dr. Ashutosh Kumar Misra, Scientist-D and Dr. Jaya Dhami Parihar, Scientist-D, Agrimet, IMD, Pune.**
  - “Various agromet products and their applications for appropriate decision making in Agricultural operations”, “Basics of Remote Sensing and its Applications in Agriculture” and “Crop Weather Calendar, Pest Weather Calendar, Feedback on AAS & Impact Analysis” by **Dr. Asha Latwal, Scientist-C, Agrimet, IMD, Pune.**
- **Shri. S. C. Bhan, Scientist-G & Head, AASD, IMD, New Delhi** attended the workshop on “Self-Reliant Farmers Empowering farmers through Agrometeorological Advisory Services in Changing Climate” held at Tamil Nadu Agricultural University (TNAU), Coimbatore during 8-9 November 2023.
- **Dr. Sameera Qayoom, Nodal Officer, AMFU, Srinagar, Jammu & Kashmir** visited Bangladesh for exploring possibilities of academic collaboration, knowledge sharing, research collaboration and faculty/student exchange programs in the field of agriculture to strength academic ties and cross cultural experiences with Bangladesh Agricultural University, Bangabandhu Sheikh Mujibur Rahman Agricultural University and Department of Agricultural extension, Ministry of Agriculture, Bangladesh during 4-10 November 2023.

*Meetings / Workshops/ Seminars/ Trainings attended by officers of Agromet Advisory Services Division (AASD), New Delhi, Agrimet Division, Pune, RMCs/MCs, Agromet Field Units (AMFUs) and District AgroMet Units (DAMUs):*

- **Shri. S. C. Bhan, Scientist-G & Head, AASD, IMD, New Delhi** attended the following:
- Meeting on “Use of Technology in generating Crop area and Yield estimation on real time basis” held at NASC Complex, ICAR, Pusa. New Delhi on 3<sup>rd</sup> October 2023.
  - Meeting on “Review of the PMFBY pilot studies conducted for Non-cereal crops during *Kharif* 2022 and *Rabi* 2022-23” at the Krishi Bhawan, New Delhi on 11<sup>th</sup> October 2023.
  - “YES-TECH Committee” meeting at MNCFC, Ministry of Agriculture & Farmers Welfare (MoA&FW), Pusa Campus, New Delhi on 11<sup>th</sup> October 2023.
  - “Working Group Meeting of AICRP on Agrometeorology (AICRPAM)” at CSK Himachal Pradesh Krishi Vishvavidyalaya (CSKHPKV), Palampur during 19-22 November 2023.
- **Shri. S. C. Bhan, Scientist-G & Head and Dr. Sheshakumar Goroshi, Scientist-E, AASD, IMD, New Delhi** attended the following:
- Meeting on “Strategy for wheat production” under the Chairmanship of Special Secretary, MoA&FW held at Krishi Bhawan, New Delhi on 3<sup>rd</sup> November 2023.
  - Meeting with Digital Green to discuss “Integration and Dissemination of weather forecast and Agrometeorological Advisory for farmers through VISTAAR (Virtually Integrated Systems to Access Agricultural Resources) platform” on 24<sup>th</sup> November 2023.
  - “Detailed Technical Interaction meeting of the Expert Committee for setting up National System for Crop Yield Forecasting” at MNCFC, MoA&FW, Pusa Campus, New Delhi on 4<sup>th</sup> December 2023.

- **Shri. S. C. Bhan, Scientist-G & Head** and **Dr. Lata Vishnoi, Scientist-C, AASD, IMD, New Delhi** attended meeting on “Review of progress under Digitalization of Agricultural Extension System (VISTAAR)” under the joint Chairmanship of Secretary (A&FW) & Secretary (DARE) at Krishi Bhawan, New Delhi on 18<sup>th</sup> December 2023.
- **Dr. Kripan Ghosh, Scientist-F & Head (Agrimet), O/o CR&S, IMD, Pune** attended:
  - Online meeting to discuss the proposal on “S2S hydroclimate forecast application and services” with Professor Sankar Arumugam, North Carolina State University, Raleigh, USA and senior officials from IMD, IITM and MoES on 27<sup>th</sup> October 2023.
  - “15<sup>th</sup> meeting of Project Monitoring and Advisory Committee (PMAC) of IMD” to monitor the periodic progress of the projects under ACROSS-IMD and to suggest suitable remedial measures for successful implementation of the activities on 30<sup>th</sup> October 2023.
  - Online meeting, as a member of evaluation committee, “to evaluate the suitability of different agencies for film production on climate services of IMD” with the officials of IMD New Delhi, IMD, Pune, National Film Development Corporation (NFDC), New Delhi and other agencies on 28<sup>th</sup> December 2023.
- **Dr. Sheshakumar Goroshi, Scientist-E, AASD, IMD, New Delhi:**
  - Attended a meeting with Digital Agriculture, Ministry of Agriculture to discuss “unified weather based Agrometeorological Advisory System” on 5<sup>th</sup> October 2023.
  - Attended review meeting, as an expert, “to review of progress of agencies hired for carrying pilot studies for non-cereal crops under PMFBY” organised by MNCFC, MoA&FW, New Delhi on 12<sup>th</sup> October 2023.
  - Attended a meeting to discuss “VISTAAR platform for dissemination of weather forecast and Agrometeorological Advisory to farmers” at MoA&FW, New Delhi on 6<sup>th</sup> November 2023.
  - Attended review meeting chaired by Honourable Minister of Earth Sciences at MoES, New Delhi on 23<sup>rd</sup> November 2023.
  - Attended Technical & Financial Evaluation Committee (TFEC) meeting to discuss about “financial bids received for Procurement of 330 Agro-AWS with data receiving and processing system” on 20<sup>th</sup> November 2023.
  - Attended an online meeting to review “progress of replacement of soil moisture sensors” installed by Astra Microwave Pvt Ltd. on 6<sup>th</sup> December 2023.
  - Participated as an expert member from IMD for recruitment of Agrometeorological Observer (AO) at Agriculture University, Kota on 27<sup>th</sup> December 2023.
- **Dr. Kripan Ghosh, Scientist-F & Head, Dr. Ashutosh Kumar Misra, Scientist-D** and **Dr. Asha Latwal, Scientist-C, Agrimet Division, IMD, Pune** attended virtual Press Conference on “Monthly outlook for Rainfall and Temperature during November 2023” addressed by Dr. M. Mohapatra, DG, IMD, New Delhi on 31<sup>st</sup> October 2023.
- **Dr. Kripan Ghosh, Scientist-F & Head** and **Dr. Ashutosh Kumar Misra, Scientist-D, Agrimet Division, IMD, Pune** attended the following:
  - “Climate Services User Forum (CSUF)” through virtual mode conducted by CR&S, IMD, Pune in collaboration with RIMES and UK Met office on 3<sup>rd</sup> October 2023.

- Stakeholder Consultation Workshop on “National Framework for Climate Services for India (NFCS-India)”, through shared YouTube links, organized by IMD and co-hosted by Christ University, Lavasa during 5-6 October 2023.
- **Dr. Kripan Ghosh, Scientist F & Head and Dr. Asha Latwal, Scientist C, Agrimet Division, IMD, Pune** attended a lecture on “Cyber Hygiene and Security” delivered by Shri Mangesh Kamtikar, Scientist-E, National Informatics Centre (NIC), Pune on 2<sup>nd</sup> November 2023.
- **Dr. Ashutosh Kumar Misra, Scientist-D, Agrimet Division, IMD, Pune** attended the following:
  - “Common Alerting Protocol (CAP) Implementation Workshop and Training-2023” through virtual mode conducted by the United States Agency for International Development (USAID) and Alert-Hub.Org CIC during 10-12 October 2023.
  - Online meeting of “State Level Technical Advisory Committee (STAC) for PMFBY *Kharif-2023* for Nandurbar district” under the chairmanship of Additional Chief Secretary (Agriculture) organized by Agriculture Commissioner Office, Govt. of Maharashtra on 31<sup>st</sup> October 2023.
  - Online meetings of “State Level Technical Advisory Committee (STAC) for PMFBY *Kharif-2023*” for following districts under the chairmanship of Additional Chief Secretary (Agriculture) organized by Agriculture Commissioner Office, Govt. of Maharashtra.
    - ✓ Dhule, Nashik and Ahmednagar districts on 10<sup>th</sup> November 2023.
    - ✓ Pune district on 17<sup>th</sup> November 2023.
    - ✓ Solapur, Jalgaon, Satara and Hingoli districts on 30<sup>th</sup> November 2023.
- **Dr. Ashutosh Kumar Misra, Scientist-D and Dr. Asha Latwal, Scientist-C, Agrimet Division, IMD, Pune** attended an online workshop on “Weather & Climate Services for the energy and related sectors in South America” organized by WMO and other organizations on 17<sup>th</sup> and 20<sup>th</sup> November 2023.
- **Dr. A. P. Ramaraj, Scientist-D, AASD, IMD, New Delhi** attended the committee meeting for “finalization of Monthly yield forecast under Real Time Information System on Agriculture (RTISA) scheme” at Krishi Bhawan, New Delhi on 6<sup>th</sup> December 2023.
- **Dr. Asha Latwal, Scientist-C, Agrimet Division, IMD, Pune:**
  - Actively involved in organizing Stakeholder Consultation Workshop on “National Framework for Climate Services for India (NFCS-India)” organized by IMD and co-hosted by Christ University at Lavasa, Pune during 5-6 October 2023.
  - Attended an online meeting to discuss “the joint collaboration between Christ University and IMD” with officials of IMD, Pune and Christ University on 20<sup>th</sup> October 2023.
- **Shri. R. Balasubramanian, Scientist-E & Head, Shri Vivek Kumar Pandey, Met-A and Dr. Harshana, Research Associate (RA), Meteorological Centre (MC), Bhopal** attended a meeting with Shri Raman Wadhwa, Deputy Director, DAY-NRLM (Deendayal Antyodaya Yojana-National Rural Livelihood Mission) for dissemination of Agro-Advisory Services to block/village level using Ministry of Rural Development Network on 30<sup>th</sup> December 2023.
- **Dr. Sameera Qayoom, Nodal Officer, AMFU, Srinagar, Jammu & Kashmir** attended the following:
  - Brainstorming session on:
    - ✓ “Disaster risk management” on 9<sup>th</sup> December 2023.

- ✓ “Innovative ways to faster entrepreneurial aptitudes among youths” from 25-30 November 2023.
- “Working group meeting of AICRPAM and XI Annual Review meeting of NICRA-AICRPAM” at CSKHPKV, Palampur during 19- 22 November 2023.

### **Lectures**

- **Dr. Kripan Ghosh, Scientist-F & Head, Agrimet Division, IMD, Pune** delivered an invited lecture on “Integration of climate information and crop simulation models for risk management in agriculture” in National Training Programme on “Concept of Agrometeorology and Crop Weather models” organised by Centre of Advanced faculty Training in Agril. Meteorology (CAFT), College of Agriculture, Pune on 7<sup>th</sup> December 2023.
- **Dr. Sameera Qayoom, Nodal Officer, AMFU, Srinagar, Jammu & Kashmir** delivered the lectures on following topics:
  - “the significance of meteorological data in agriculture, including the role of weather patterns in crop planning and management” at College of Temperate Sericulture, SKUAST-K on 17<sup>th</sup> October 2023.
  - “Weather and Animal diseases” at FVSC & AH, SKUAST-K on 11<sup>th</sup> December 2023.
  - “Agro Advisory Systems” at Faculty of Agriculture, SKUAST-K on 15<sup>th</sup> December 2023.
  - “Weather based Agro-advisories for animal production” at FVSC & AH, SKUAST-K on 13<sup>th</sup> December 2023.
- **Smt. Gariyashi Tamuly, SMS (Agromet), DAMU, Baksa, Assam** acted as resource person in 15-days “Self Financed Training Programme for Agricultural Input Dealers of Assam” on “Weather parameters and their impact on agricultural production” and another training on “Relevance of Agrometeorological information for crop production” conducted by KVK, AAU, Kamrup on 4<sup>th</sup> December 2023.
- **Smt. Deepanjali Dugal, Junior Agrometeorologist, AMFU, Mahisapat, Odisha** attended the Capacity building training programme under “CBSAE development project” organised by RRTTS, Mahisapat, Dhenkanal during 6-9 November 2023. She delivered a lecture on “Millet the Climate resilient crop for future decades” to Village Agriculture Workers (VAWs) and Agriculture Overseers (AOs) of different block of Dhenkanal district working under Department of Agriculture & Farmers’ Empowerment, Government of Odisha. She also discussed about utilization of Weather-based Agromet Advisories services, MEGHDOOT Mobile application and its importance in increasing the farm productivity.



### **Publications**

- **Dr. Mahender Singh, Nodal Officer and Dr. Veena Sharma, Technical Officer, AMFU, Chatha, Jammu:**
  - **Mahender Singh, Monika Banotra, Charu Sharma, Rohit Sharma, Veena Sharma and B. C. Sharma.** (2023). Weather based Agro indices and yield of direct seeded rice (*Oryza sativa*) as influenced by different dates of sowing and varieties in Union Territory of J&K, India. *Ecology, Environment and Conservation*. 29: S124-S128.

- **Veena Sharma, Mahender Singh**, Sonam Lotus and B. C. Sharma. (2023). Usability of weather forecast to issue agromet advisory for Jammu district. *Journal of Soil and Water Conservation*, 22(3): 287-290.
- **Dr. Sameera Qayoom, Nodal Officer and Dr. Aijaz Nazir, Technical Officer, AMFU, Srinagar, Jammu & Kashmir:**
  - S. Shafi, M. F. Baqual, S. A. Wani, M. R. Mir, **S. Qayoom**, S. A. Mir and S. Parvez. (2023). To study the effect of anti-transparent on propagation parameters of mulberry under polyhouse conditions with reduced water supply. *International Journal of Advanced Biochemistry Research*, SP-8(1): 266-270.
  - Sakiba Saleem, M. F. Baqual, M. R. Mir, I. Murtaza, **Sameera Qayoom** and Tariq Raja. (2023). Influence of different levels of leaf harvest on quantitative parameters of mulberry under Kashmir conditions. *The Pharma Innovation Journal*, SP-12(12): 1609-1611.
  - Mohd Salim Mir, Parmeet Singh, Tauseef A. Bhat, Raihana H. Kanth, **Aijaz Nazir**, Ibrahim Al-Ashkar, Muhammad Kamran, Adel A. Hadifa and Ayman El Sabagh. (2023). Influence of Sowing Time and Weed Management Practices on the Performance and Weed Dynamics of Direct Drum Seeded Rice. *ACS Omega*, 8 (29): 25861-25876.
  - Bilkees Jamsheed, Tauseef Ahmad Bhat, A.A. Saad, **Aijaz Nazir**, Suhail Fayaz, Sayed M. Eldin, Bisma Jan, Hadiya Kounsar, Munazah Yaqoob, Amir Hussan Mir, Fehim Jeelani Wani, Abdel Rahman Mohammad Said Al-Tawaha, Iftikhar Ali, Nada H. Aljarba, Tahani Mohamed Al-Hazani , Nisha Verma. 2023. Estimation of yield, phenology and agro-meteorological indices of Quality Protein Maize (*Zea mays* L.) under different nutrient omissions in temperate ecology of Kashmir. *Journal of King Saud University-Science*, 35(7): 102808.
- **Shri. V. M. Jadhav, Senior Scientist & Head and Smt. Rizwana Sharif Sayyad, SMS (Agromet), DAMU, Palghar, Maharashtra: R. S. Sayyad and V. M. Jadhav.** (2023). Impact Assessment of Agrometeorological Advisory Services to Farmers in Palghar District. *International Journal of Current Research*, 14(10): 26013-26015.
- **Smt. Gariyashi Tamuly, SMS (Agromet), DAMU, Baksa, Assam:**
  - **Gariyashi Tamuly**, D. R. K. Saikanth, S. S. Singh, A. R. Saikia, R. Bahadur, A. Singh, S. S. Bhadauria and A. Singh. (2023). The Challenges and Issues of Farmer Producer Organizations in India. *Current Journal of Applied Science and Technology*, 42(47): 121-127.
  - M. K. Maurya, A. Sarma, **Gariyashi Tamuly**, V. K. Shukla, P. Behera, S. S. Bora and B. Chakravarthi. (2023). Rice Ratooning: A Pioneering Strategy for Enhancing Rice Productivity and Embracing Climate Change Adaptation and Mitigation. *International Journal of Plant & Soil Science*, 35(20): 1047-1059.
  - A. Khound, D. Sharmah, M. Neog, P. K. Pathak and **Gariyashi Tamuly**. (2023). Performance of Integrated Nutrient Management on growth, yield and quality of strawberry cultivar winter dawn in Baksa district, Assam, India. *Ecology, Environment and Conservation*, 29: 312-315.
  - A. Singh, A. Sarma, **Gariyashi Tamuly**, K.Koiremba, and L.P.Chanu (eds). (2023). Systems in Agri-Horti Interventions in the Modern Era. Empyrean Publishing House, ISBN:978-93-5834-031-0.

- B. Borkotoky, M. Kakoti, **Gariyashi Tamuly** and S. Beese. (2023). Role of Remote Sensing in Agricultural Survey and Monitoring. In: Ali, M.; Devi, K. B.; Devi, K. M.; Langoo, B. A. and Nath, D. (eds). *Advances in Agricultural & Environmental Sustainability*. Empyrean Publishing House (pp. 92-100), ISBN:978-81-965655-8-9.
  - J. Sanjeeth, **Gariyashi Tamuly**, C. N. Nidhi and S. Hazarika. (2023). Insect Interaction with Environment and Climate. In: Waseem, M.A.; Hazarika, S.; Rashwin, A.; Chandar, A.S. and Gupta, S.; (Eds), *Recent Trends in Entomology*. Academic publication & Distributors in collaboration with Research Floor (pp. 97-105), ISBN:978-819643684-1.
- **Dr. Debjyoti Majumder, SMS (Agromet), DAMU, Malda, West Bengal:**
- Anil Kumar, Rajan Bhatt and **Debjyoti Majumder**. (2023). Unlocking the World of Vermiculture: From Concept to Entrepreneurial Success. *The Agriculture Magazine*, 3(1): 102-106.
  - Kshouni Das, Trisha Sinha, **Debjyoti Majumder**, Siddikul Islam and Satya Narayan Prasad. (2023). Vegetable Bio-fortification. In: *Basics concepts of Horticulture* (pp. 174-194). ISBN - 978-81-19651-33-7.
  - Rajan Bhatt, **Debjyoti Majumder** and Ashok Kumar Garg. (2023). Custom Hiring Centre - Need of the hour for small and marginal farmers. *Food and Scientific Reports*, 4(12): 18-22.
  - Bisma Jan, M. Anwar Bhat, Tauseef A. Bhat, Owais Ali Wani, Nazir Hussain and **Aijaz Nazir**. (2023). Dry-matter accumulation of sweet corn (*Zea mays*) under variable seedling age and integrated nutrient supply. *Indian Journal of Agronomy*, 68 (2): 223-226.
- **Smt. Roman Nissar, SMS (Agromet), DAMU, Kupwara, Jammu & Kashmir:** Raies A. Bhat, Kaiser M. Malik, Sajad Mohi ud Din, S. A. Hakeem, F. A. Raina, F. N. Bhat and **R. Nissar**. (2023). Pulse Productivity and Profitability as Influenced by Cluster Frontline Demonstrations in Kupwara District of Jammu and Kashmir, India. *International Journal of Environment and Climate Change*, 13(11): 905-912.

## **Training**

- **Dr. Veena Sharma, Technical Officer, AMFU, Chatha, Jammu** attended 21-days advance training course on “Climate Smart Strategies to Increase Input Use Efficiency of Soil and Water Resources” organized by Department of Soil Science, PAU, Ludhiana during 28<sup>th</sup> November to 19<sup>th</sup> December 2023.
- **DAMU, Birbhum, West Bengal** conducted training programme on “Assessment of optimum planting times of coloured Cauliflower in lateritic soil of Birbhum” on 16<sup>th</sup> October 2023.
- **Smt. Roman Nissar, SMS (Agromet), DAMU, Kupwara, Jammu and Kashmir** attended 21-days International training on “Agriculture in Future & Future in Agriculture” organized by The Rajmata Vijayaraje Scindia Krishi Vishwavidyalaya (RVSKVV), Gwalior in collaboration with Junagadh Agriculture University (JAU), Gujarat, ICRISAT, Hyderabad, ICAR-ATARI Jabalpur and AGRI MEET Foundation, Uttar Pradesh during 20<sup>th</sup> November to 10<sup>th</sup> December 2023 via Hybrid Mode.
- **Smt. Gariyashi Tamuly, SMS (Agromet), DAMU, Baksa, Assam** participated in the online training program on “Application of Remote Sensing and Geographical Information Systems in Agricultural Development (Under CBC)” during 11-13 December 2023 organized by MANAGE, Hyderabad.

## ***Awareness Programme***

### ***Farmers Awareness Programme (FAP)***

Farmers' Awareness Programme (FAP) are being organized in different states by India Meteorological Department (IMD), Agromet Field Units (AMFUs) and District Agromet Units (DAMUs) with objectives of creating awareness about the usefulness of Agromet Advisory Services (AAS) and weather/climate information among the farming community and also to help to increase the interaction between the local farming communities and the Meteorological Centres (MCs), AMFUs and Krishi Vigyan Kendras (KVKs). Officers also explained the MEGHDOOT and DAMINI Application during the FAP. MEGHDOOT is a joint initiative of the IMD and Indian Council for Agriculture Research (ICAR) to bring high-resolution weather forecast-based Agromet Advisories to farmers in the vernacular. The MEGHDOOT App allows farmers and interested users to access these advisories in a user-friendly manner. Indian Institute of Tropical Meteorology (IITM), Pune developed a Mobile App called "DAMINI" to give alerts on impending lightning activity over the area and The DAMINI App is available from Play Stores. During the FAPs, mobile numbers of farmers were collected to register in mkisan portal.

AMFUs and DAMUs organized 268 FAPs during October to December 2023. 11 FAPs were organized by 7 AMFUs and 257 FAPs were organized by 44 DAMUs. The details have been given in Annexure I.

### ***Field visit***

Officers of IMD, AMFUs and DAMUs made field visits to monitor the standing crop coverage and Pests and Diseases attack on the standing crops and to suggest its control measures. They also made aware the farmers about the use of Weather-based Agromet Advisories and their importance in increasing farm productivity. They explained activities under the GKMS project to the farmers. Officers gave detailed information of Farmers' registration in m-kisan Portal and SMS service, the usefulness of MEGHDOOT application and DAMU project. The details of field visits during October to December 2023 have been provided in Annexure II.

### ***Other Awareness Programme***

AMFUs and DAMUs participated in different awareness programmes like Kisan Mela, seed day, World Soil day etc. to inform about activities under the GKMS project to the farmers. Officer of GKMS Unit briefed about the usefulness of Agromet Advisory Bulletins, mKisan portal, and MEGHDOOT App. They displayed different types of charts that depicted the role of importance of agrometeorological information in Agricultural Sciences and for the farmers. Most of the Meteorological surface observation instruments were also put on display. During the melas, farmers were motivated to register themselves on mkisan portal. AMFUs/ DAMUs disseminated leaf let on Agromet Advisory Services and create awareness about the Climate Smart Agriculture and Use of Digital Gadgets.

### ***Other Awareness Programme conducted during the period:***

#### **➤ DAMU, Bagalkote, Karnataka:**

- Actively participated in "District-level Savayava Siridhanya mela" organised by District Agriculture Department, Bagalkote at Kalabhavan Bagalkote on 23<sup>rd</sup> December 2023. **Shri. Basavaraj Nagaliker, SMS**





(Agromet) and **Shri. Sunil Lamani (Agromet Observer)** explained the farmers about “DAMU project activities carried out at KVK and use of mobile applications like MEGHDHOOT, DAMINI and MAUSAM”.

- Participated in “World Soil Day 2023” programme organised by KSDA officials at Boodihal village, Bilgi block on 5<sup>th</sup> December 2023.

➤ **AMFU, Junagadh, Gujarat** participated in the following programmes and explained about the “importance of Weather Forecasting, Agromet Advories and MEGHDHOOT Application” to all the visitors:

- Orientation Programme for “Rabi Krishi Mahotsav” on 21<sup>st</sup> November 2023. Total 280 participants attended the programme.
- “Rabi Krishi Mahotsav” at Mendarda village, Mendarda taluk, Junagadh during 24-25 November 2023. Total 520 participants attended the programme.



➤ **DAMU, Kurukshetra, Haryana** participated in the “Kisan Mela” at KVK on 5<sup>th</sup> October 2023. Officers explained about “Role of weather forecast in agriculture” to the participants. Total 350 participants attended the Kisan Mela.



➤ **DAMU, Kollam, Kerala** participated in the exhibition conducted by St. Johns Higher Secondary School, Anchal, Kollam to create awareness about the net zero carbon farming methods to the public as a part of the objective “smart carbon education to school children”. The programme was named “OSTENSIO” and more than 1200 students has participated in the programme. Models of weather instruments and the carbon neutral farming were the main attraction of the exhibition.



➤ **AMFU, Bhawanipatna, Odisha** participated in the celebration of “World Soil Day” on 5<sup>th</sup> December 2023 organised by Department of Soil Conservation, Govt. of Odisha at RRTTS, OUAT, Bhawanipatna and distributed brochures on “Incidence of weather-based diseases and insects & their control in Field crops and Horticultural crops” published in regional language under GKMS project to bring awareness among all participants including farmers.



➤ **DAMU, Godda, Jharkhand** participated in “Kisan Mela” at Godda block during 28-29 December 2023. **Shri. Rajnish Prasad Rajesh, SMS (Agromet)** explained participants about impact of climate change on agriculture, climate smart agriculture, benefits of soil test and water conservation, MEGHDHOOT and DAMINI mobile apps etc. Total 659 farmers visited the stall.



➤ **AMFU, Dapoli, Maharashtra** participated in the programm “Adhunik Shikshanachi Sandhi : Bhavishyachi Ujjwal Nanadi” during 24-28 December 2023 at BSKKKV, Dapoli. About 300 farmers and 1500 student visited GKMS exhibition stall.



➤ **DAMU, Almora, Uttarakhand** participated in “Kisan Mela” at G. B. Pant University of Agriculture & Technology, Pantnagar during 13-16 October 2023.

➤ **AMFU, Kanpur, Uttar Pradesh** participated in the “Kisan Mela” at campus during 8-10 October 2023 and explained the farmers about installation of



MEGHDOOT mobile app and joining district Whatsaap groups through scanning of QR code. About 350 farmers visited the stall.

- **DAMU, Malda, West Bengal** participated in “Krishi Mela” organized by ICAR-CISH, KVK, Malda on 25<sup>th</sup> December 2023. Honourable DG, ICAR, Director, ATARI, Kolkata and other dignitaries visited the stall and praised the activities of DAMU, Malda. A good number of farmers visited the stall and were made aware about the GKMS scheme and its importance.
- **DAMU, Waghai, Dang, Gujarat** conducted the “Technology programme” at Daguniya village, Waghai block, Dang district on 19<sup>th</sup> December 2023. **Shri. S. N. Chaudhari, SMS (Agromet)** gave the information about medium range weather forecast, importance of agromet advisory bulletin in different agricultural practices and MEGHDOOT & DAMINI mobile apps. Total 48 farmers were participated in the programme.
- **Shri. T. S. Deshmukh, Nodal Officer, DAMU, Washim, Maharashtra** addressed farmers at “Agrovision Nagpur” on 26<sup>th</sup> November 2023.



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## Photos of FAP

			
<b>FAP by AMFU, Port Blair, A&amp;N Islands</b>	<b>FAP by AMFU, Junagadh, Gujarat</b>	<b>FAP by AMFU, Kukumseri, Himachal Pradesh</b>	<b>FAP by AMFU, Chatha, Jammu &amp; Kashmir</b>
			
<b>FAP by AMFU, Leh, Jammu &amp; Kashmir</b>	<b>FAP by AMFU, Roorkee, Uttarakhand</b>	<b>FAP by AMFU, Kalyani, West Bengal</b>	<b>FAP by AMFU, Kharagpur, West Bengal</b>
			
<b>FAP by DAMU, Cachar, Assam</b>	<b>FAP by DAMU, Jamnagar, Gujarat</b>	<b>FAP by DAMU, Valsad, Gujarat</b>	<b>FAP by DAMU, Gurugram, Haryana</b>
			
<b>FAP by DAMU, Kupwara, Jammu and Kashmir</b>	<b>FAP by DAMU, Godda, Jharkhand</b>	<b>FAP by DAMU, Bagalkote, Karnataka</b>	<b>FAP by DAMU, Kolar, Karnataka</b>
			
<b>FAP by DAMU, Tiptur, Karnataka</b>	<b>FAP by DAMU, Kollam, Kerala</b>	<b>FAP by DAMU, Shahdol, Madhya Pradesh</b>	<b>FAP by DAMU, Aurangabad, Maharashtra</b>
			
<b>FAP by DAMU, Gadchiroli, Maharashtra</b>	<b>FAP by DAMU, Washim, Maharashtra</b>	<b>FAP by DAMU, Rayagada, Odisha</b>	<b>FAP by DAMU, Pali, Rajasthan</b>
			
<b>FAP by DAMU, Chitrakoot, Uttar Pradesh</b>	<b>FAP by DAMU, Birbhum, West Bengal</b>	<b>FAP by DAMU, Malda, West Bengal</b>	<b>FAP by DAMU, Purulia, West Bengal</b>

## Photos of Field visit and other programme

			
<b>Field visit by AMFU, Mahisapat, Odisha</b>	<b>Field visit by AMFU, Ooty, Tamil Nadu</b>	<b>Field visit by AMFU Roorkee, Uttarakhand</b>	<b>Field visit by AFMU, Kakkweep, West Bengal</b>
			
<b>Field visit by AMFU, Kharagpur, West Bengal</b>	<b>Field visit by DAMU, Baksa, Assam</b>	<b>Field visit by DAMU, Bagalkote, Karnataka</b>	<b>Field visit by DAMU, Jamnagar, Gujarat</b>
			
<b>Field visit by DAMU, Khargone, Madhya Pradesh</b>	<b>Field visit by DAMU, Tiptur, Karnataka</b>	<b>Field visit by DAMU, Bilaspur, Himachal Pradesh</b>	<b>Field visit by DAMU, Washim, Maharashtra</b>
			
<b>Field visit by DAMU, Cachar, Assam</b>	<b>Field visit by DAMU, Aurangabad, Maharashtra</b>	<b>Field visit by DAMU, Godda, Jharkhand</b>	<b>Field visit by DAMU, Purulia, West Bengal</b>
			
<b>Field visit by DAMU, Narmada, Gujarat</b>	<b>Field visit by DAMU, Gadchiroli, Maharashtra</b>	<b>Field visit by DAMU, Rayagada, Odisha</b>	<b>Field visit by DAMU Yadgir, Karnataka</b>

## Annexure I

### Total 11 FAPs conducted by 7 AMFUs during the period 01-10-2023 and 31-12-2023

Name of the State	Name of AMFU	Name of the District	Name of the Block	Name of the Village	Date of FAP	No of Farmers Attended FAP	No. of Farmers using Meghdoot App
A & N Islands	Portblair	North & Middle Andaman	Diglipur	Kalipur	28-12-2023	43	3
Maharashtra	Parbhani	Parbhani	Parbhani	Parbhani	18-10-2023	130	25
Uttar Pradesh	Kanpur	Kanpur Nagar	Bilhaur	Saibasau	23-12-2023	59	10
		Kanpur dehat	Maitha	Pakra Baghpur	30-12-2023	53	8
	Modipuram	Amroha	Amroha	Kumrala	19-11-2023	70	34
		Sambhal	Sambhal	Paltha	15-12-2023	80	35
Uttarakhand	Roorkee	Haridwar	Roorkee	Shantar Shah	15-12-2023	76	19
		Pauri Garhwal	Duggada	Dugadda	21-12-2023	45	15
		Haridwar	Bhagwanpur	Sikanderpur	26-12-2023	125	42
West Bengal	Kharagpur	Paschim Medinipur	Sabang	Kalasang	11-11-2023	40	25
	Pundibari	Uttar Dinajpur	Chopra	Laxmipur	14-12-2023	50	5

### Total 257 FAPs conducted by 44 DAMUs during the period 01-10-2023 and 31-12-2023

Name of the State	Name of DAMU	Name of the District	Name of the Block	Name of the Village	Date of FAP	No of Farmers Attended FAP	No. of Farmers using Meghdoot App
Andhra Pradesh	Srikakulam	Srikakulam	Amadalavalasa	Amadalavalasa	10-10-2023	32	10
		Srikakulam	Amadalavalasa	Amadalavalasa	12-10-2023	30	15
		Srikakulam	Amadalavalasa	Gedelavanipeta	17-10-2023	35	15
		Srikakulam	Gara	Ramachandrapuram	04-11-2023	30	15
		Srikakulam	Amadalavalasa	Amadalavalasa	28-11-2023	28	9
		Srikakulam	Amadalavalasa	Amadalavalasa	30-11-2023	32	16
		Srikakulam	Amadalavalasa	Amadalavalasa	05-12-2023	26	9
		Srikakulam	Amadalavalasa	Amadalavalasa	08-12-2023	28	10
		Srikakulam	Laveru	Thallavasa	12-12-2023	20	6
		Srikakulam	Kothur	Addangi	13-12-2023	28	9
		Srikakulam	Srikakulam	Srikakulam	16-12-2023	40	20
Assam	Cachar	Cachar	Salchapra	KVK Cachar	01-10-2023	80	22
		Cachar	Salchapra	KVK	03-10-2023	30	12
		Cachar	Salchapra	KVK	05-10-2023	30	8
		Cachar	Salchapra	KVK	07-10-2023	30	10
		Cachar	Salchapra	KVK	08-10-2023	40	13
		Cachar	Salchapra	KVK Cachar	11-10-2023	25	20
		Cachar	Salchapra	KVK Cachar	15-10-2023	25	20
		Cachar	Salchapra	KVK Cachar	16-10-2023	25	21
		Cachar	Salchapra	KVK Cachar	19-10-2023	25	22
		Cachar	Salchapra	KVK Cachar	06-11-2023	287	76
		Cachar	Borkhola	Bikrampur	11-11-2023	53	12
		Cachar	Kalain	Rajnagar	15-11-2023	64	19
		Cachar	Salchapra	KVK Cachar	16-11-2023	50	15
		Cachar	Salchapra	KVK Cachar	17-11-2023	46	16
		Cachar	Silchar	Tarapur	18-11-2023	72	34
		Cachar	Rajabazar	Malong	21-11-2023	21	3

Bihar	Nawada	Nawada	Kawkol	KVK Campus	03-10-2023	26	4
		Nawada	Pakri-Barawan	Baliyari	15-10-2023	31	3
		Nawada	Kashichak	Kashichak	23-10-2023	31	3
		Nawada	Kashichak	Rewara	25-10-2023	33	4
		Nawada	Pakri-Barawan	Dewadha	09-11-2023	30	3
		Nawada	Kashichak	Chandinawa	16-11-2023	30	4
		Nawada	Pakri-Barawan	Gulani	22-11-2023	33	3
		Nawada	Kashichak	Belar	29-11-2023	33	5
		Nawada	Pakri-Barawan	Luxmipur	04-12-2023	30	3
		Nawada	Roh	Dumari	09-12-2023	34	6
		Nawada	Roh	Anaila	14-12-2023	34	5
		Nawada	Pakri-Barawan	Dharara	23-12-2023	34	4
		Nawada	Kawkol	Darawan	26-12-2023	34	3
		Nawada	Pakri-Barawan	Parariya	28-12-2023	45	6
		Nawada	Pakri-Barawan	Dhodha	30-12-2023	39	5
Gujarat	Amreli	Amreli	Amreli	Varsada	30-11-2023	70	5
	Dahod	Dahod	Sanjeli	Pichhoda	17-10-2023	24	8
		Dahod	Dohad	Khajuri	18-10-2023	25	14
		Dahod	Jhalod	Limdi	27-10-2023	73	21
	Dang	Dangs	Waghai	Vaghai	07-11-2023	100	25
		Dangs	Waghai	Vaghai	30-11-2023	58	18
		Dangs	Waghai	Daguniya	19-12-2023	48	16
		Dangs	Subir	Mohpada	21-12-2023	50	12
	Jamnagar	Jamnagar	Jamnagar	Falla	20-10-2023	4	0
		Jamnagar	Jamnagar	KVK Jamnagar	26-10-2023	60	0
		Jamnagar	Jamnagar	Ftc Jamnagar	30-10-2023	25	0
		Jamnagar	Dhrol	Latipar	24-11-2023	539	0
		Jamnagar	Dhrol	Latipar	25-11-2023	20	0
		Jamnagar	Jamnagar	KVK Jamnagar	04-12-2023	50	0
		Jamnagar	Lalpur	Haripar	15-12-2023	30	2
		Jamnagar	Jamjodhpur	Jamjodhpur	18-12-2023	161	15
	Surat	Surat	Chorasi	Vnsgu Student	18-10-2023	8	0
Surat		Olpad	Countryside School Student	30-10-2023	70	0	
Surat		Mandvi	Mandvi Rice Mill	22-12-2023	67	2	
Surat		Bardoli	Ftc Bardoli	23-12-2023	60	2	
Haryana	Fatehabad	Fatehabad	Fatehabad	All Villages of Fatehabad and Bhuna Block	24-10-2023	33	7
		Fatehabad	Bhattu-Kalan	All Villages of Fatehabad Bhattu Kalan And Ratia	26-10-2023	32	5
		Fatehabad	Ratia	All Villages of Ratia Block	23-11-2023	30	4
		Fatehabad	Ratia	Kalotha	02-12-2023	165	27
		Fatehabad	Ratia	Baliala	06-12-2023	250	23
		Fatehabad	Fatehabad	Dhani Thoba	06-12-2023	150	17
		Fatehabad	Fatehabad	Dhani Tahlwali	07-12-2023	65	7
		Fatehabad	Fatehabad	Barseen	08-12-2023	75	11
		Fatehabad	Bhattu-Kalan	Dhand	13-12-2023	265	31
		Fatehabad	Bhuna	Dhani Sanchla	22-12-2023	90	6
	Gurgaon	Gurgaon	Gurgaon	Gurgaon	25-10-2023	20	1
		Gurgaon	Gurgaon	Gurgaon	31-10-2023	11	1

		Gurgaon	Gurgaon	Gurgaon	21-11-2023	11	0
		Gurgaon	Gurgaon	Gurgaon	22-11-2023	25	0
		Gurgaon	Sohna	Sehjaswas	30-11-2023	20	0
		Gurgaon	Sohna	Tolni	06-12-2023	20	0
		Gurgaon	Pataudi	Mumtajpur	06-12-2023	20	0
		Gurgaon	Sohna	Ranika Singola	08-12-2023	20	0
		Gurgaon	Sohna	Mahendwara	08-12-2023	20	1
		Gurgaon	Pataudi	Telpuri	08-12-2023	20	1
		Gurgaon	Sohna	Hariyehera	11-12-2023	10	0
		Gurgaon	Sohna	Chamanpura	11-12-2023	10	0
		Gurgaon	Sohna	Sancholi	13-12-2023	16	0
		Gurgaon	Sohna	Dhamdma	13-12-2023	22	0
		Gurgaon	Gurgaon	Begum Khatola	18-12-2023	16	0
		Gurgaon	Gurgaon	Badshapur	18-12-2023	11	0
		Gurgaon	Pataudi	Gadaipur	25-12-2023	25	0
		Gurgaon	Pataudi	Bhudka	25-12-2023	12	1
			Jhajjar	Jhajjar	Jhajjar	At KVK Premises	21-11-2023
	Kurukshetra	Kurukshetra	Thanesar	Air	02-10-2023	99	80
		Kurukshetra	Thanesar	Crs	03-10-2023	99	59
		Kurukshetra	Thanesar	KVK Premises	05-10-2023	99	50
		Kurukshetra	Pipli	Amin	19-10-2023	45	10
		Kurukshetra	Thanesar	Bhore Sainda	20-10-2023	35	11
		Kurukshetra	Thanesar	Thanesar	27-10-2023	25	9
		Kurukshetra	Thanesar	Crs	01-11-2023	99	89
		Kurukshetra	Thanesar	Air	02-11-2023	99	89
		Kurukshetra	Thanesar	Crs	03-11-2023	98	50
		Kurukshetra	Thanesar	Air	30-11-2023	99	88
Jammu and Kashmir	Baramulla	Baramulla	Tangmarag	Govt Degree College Chandilora	29-10-2023	60	11
		Baramulla	Pattan	Iti College Pattan	04-11-2023	50	0
		Baramulla	Kunzer	Hardaboora Block	06-11-2023	15	2
		Baramulla	Wagoora	Bhanji	07-11-2023	12	3
		Baramulla	Kunzer	KVK Baramulla	08-11-2023	15	4
		Baramulla	Kunzer	KVK Baramulla Hurdhani	09-11-2023	2	0
		Baramulla	Uri	Bandi	22-11-2023	43	0
		Baramulla	Pattan	Palhallan Panchayat E	30-11-2023	16	0
		Baramulla	Sangrama	Rakh Hygam	05-12-2023	26	0
		Kupwara	Kupwara	Kupwara	Kupwara	15-11-2023	15
Jharkhand	Ramgarh	Ramgarh	Mandu	KVK On Station	08-11-2023	76	7
		Ramgarh	Chitarpur	A.K. Colyari Panchayat	05-12-2023	189	22
		Ramgarh	Patratu	Budha Bazar	05-12-2023	57	4
		Ramgarh	Patratu	A.K. Colyari Panchayat	05-12-2023	189	22
		Ramgarh	Patratu	Budh Bazar Imli Gachh	06-12-2023	81	7
		Ramgarh	Chitarpur	Budh Bazar Dotalla Panchayat Bhawan	06-12-2023	79	19
		Ramgarh	Patratu	Budh Bazar Dotalla Panchayat Bhawan	06-12-2023	79	19
		Ramgarh	Patratu	Ccl Sounda	07-12-2023	80	5
		Ramgarh	Patratu	Sayal	08-12-2023	80	13
		Ramgarh	Patratu	Sayal South Area	09-12-2023	260	23

				And Bhurkunda Baza				
		Ramgarh	Patratu	Patal Nagar	11-12-2023	160	13	
		Ramgarh	Patratu	Jawahar Nagar	12-12-2023	187	32	
		Ramgarh	Patratu	Peri	13-12-2023	188	27	
		Ramgarh	Patratu	Dudgi	13-12-2023	156	25	
		Ramgarh	Patratu	Balkundra	16-12-2023	288	45	
		Ramgarh	Patratu	Kurse	16-12-2023	395	73	
Karnataka	Bagalkot	Bagalkote	Bagalkot	KVK Bagalkote	03-11-2023	27	4	
		Bagalkote	Bagalkot	KVK Bagalkote	21-11-2023	20	6	
		Bagalkote	Bagalkot	Bevinamatti	24-11-2023	40	7	
		Bagalkote	Bagalkot	Gaddanakeri	27-11-2023	25	3	
		Bagalkote	Bagalkot	Seemikeri	27-11-2023	35	4	
		Bagalkote	Bagalkot	Kajjidoni	29-11-2023	30	3	
		Bagalkote	Bagalkot	Sulikeri	29-11-2023	35	3	
		Bagalkote	Bagalkot	Timmapur	01-12-2023	30	1	
		Bagalkote	Bagalkot	Rampur	01-12-2023	60	3	
		Bagalkote	Badami	Neeralkeri	04-12-2023	40	3	
		Bagalkote	Bilagi	Anagawadi	09-12-2023	30	0	
		Bagalkote	Badami	Katageri	11-12-2023	35	2	
		Bagalkote	Bagalkot	KVK Bagalkote	13-12-2023	25	1	
		Bagalkote	Badami	Bankaneri	15-12-2023	22	2	
		Bagalkote	Hungund	Marol	22-12-2023	30	1	
		Bagalkote	Bagalkot	KVK Bagalkote	28-12-2023	15	2	
		Kolar	Kolar	Kolar	College Of Horticulture Kolar	26-10-2023	225	150
			Kolar	Kolar	KVK Kolar	10-11-2023	40	40
			Kolar	Kolar	Beechagondanahalli	16-11-2023	25	20
			Kolar	Bangarapet	Siddanahalli	20-12-2023	40	25
			Kolar	Kolar	Muduvathi	22-12-2023	45	30
		Ramanagara	Ramanagara	Magadi	Chandurayanahalli	04-10-2023	28	10
			Ramanagara	Channapatna	Archakanahalli	10-10-2023	52	24
			Ramanagara	Magadi	Chandurayanahalli	16-10-2023	26	12
			Ramanagara	Kanakapura	Maralebekuppe	09-11-2023	47	27
			Ramanagara	Magadi	Chandurayanahalli	27-11-2023	28	13
	Ramanagara		Magadi	Chandurayanahalli	01-12-2023	42	14	
	Ramanagara		Ramanagara	Tadakavagilu	19-12-2023	43	28	
Madhya Pradesh	Guna	Guna	Aron	Krishi Vigyan Kendra	17-11-2023	26	5	
		Guna	Aron	Krishi Vigyan Kendra	22-12-2023	19	5	
	Khandwa	East Nimar	Khandwa	KVK	04-10-2023	20	12	
		East Nimar	Khandwa	KVK	16-10-2023	28	19	
		East Nimar	Chhaigaon-Makhan	Barud (Ds Group)	30-10-2023	35	10	
		East Nimar	Khandwa	KVK	30-10-2023	15	11	
		East Nimar	Khandwa	KVK	06-11-2023	20	10	
		East Nimar	Khandwa	KVK	20-11-2023	20	14	
		East Nimar	Khandwa	KVK	04-12-2023	20	16	
		East Nimar	Khandwa	KVK	11-12-2023	35	27	
		East Nimar	Khandwa	KVK	18-12-2023	15	9	
East Nimar	Chhaigaon-Makhan	Jamniya (Atma)	19-12-2023	70	29			



		East Nimar	Khalwa	Chiktalai	20-12-2023	10	1
		East Nimar	Harsud	Sadiapani	20-12-2023	7	1
		East Nimar	Khandwa	KVK	26-12-2023	40	23
Maharashtra	Amravati	Amravati	Bhatkuli	Dhangarkheda	04-10-2023	37	7
		Amravati	Bhatkuli	Dhamori	04-10-2023	29	5
		Amravati	Nandgaon-Kh	Durgapur KVK Hall	13-10-2023	35	5
		Amravati	Nandgaon-Kh	Durgapur	18-10-2023	27	3
		Amravati	Warud	Rajura Bajar	27-10-2023	98	12
		Amravati	Bhatkuli	Purnanagar	04-11-2023	27	4
		Amravati	Bhatkuli	Dadhi	09-11-2023	26	4
		Amravati	Bhatkuli	Uttamsara	09-11-2023	34	5
		Amravati	Nandgaon-Kh	Durgapur	05-12-2023	17	2
		Amravati	Bhatkuli	Bhatkuli	05-12-2023	54	6
	Aurangabad_Mah	Aurangabad	Gangapur	Khojewadi	25-10-2023	38	2
		Aurangabad	Aurangabad	Kanchanwadi	11-12-2023	130	0
		Aurangabad	Soegaon	Ghosala	21-12-2023	130	5
	Buldhana	Buldhana	Buldana	Dahid	03-12-2023	40	10
	Gadchiroli	Gadchiroli	Gadchiroli	KVK Gadchiroli	12-10-2023	58	23
		Gadchiroli	Dhanora	Girola	01-11-2023	45	25
		Gadchiroli	Korchi	Ghughva	14-12-2023	54	12
		Gadchiroli	Gadchiroli	KVK Gadchiroli	18-12-2023	65	12
		Gadchiroli	Bhamaragad	Kudkeli	21-12-2023	56	24
		Gadchiroli	Bhamaragad	Tadgaon	21-12-2023	180	60
	Nandurbar	Nandurbar	Shahada	Nanderkheda	06-10-2023	29	13
		Nandurbar	Akkalkuwa	Akkalkuwa Block	14-10-2023	42	14
		Nandurbar	Navapur	Navapur	28-10-2023	74	32
		Nandurbar	Taloda	Lakhapur Forest	20-11-2023	68	24
		Nandurbar	Taloda	Savarpada	25-11-2023	48	17
		Nandurbar	Taloda	Dhanpur	25-11-2023	63	38
		Nandurbar	Nandubar	Nandurbar	21-12-2023	128	63
	Osmanabad	Osmanabad	Tuljapur	Tuljapur	05-10-2023	33	5
		Osmanabad	Tuljapur	Tuljapur	10-10-2023	9	2
		Osmanabad	Tuljapur	Tuljapur	03-11-2023	50	24
		Osmanabad	Tuljapur	Tuljapur	22-12-2023	84	9
	Palghar	Palghar	Dahanu	Veti	04-10-2023	11	3
		Palghar	Dahanu	Waki	12-10-2023	101	42
		Palghar	Vikramgad	Jambhe	15-10-2023	32	12
		Palghar	Dahanu	Kainad	18-10-2023	36	14
		Palghar	Palghar	Chahade	19-10-2023	76	31
		Palghar	Talasari	Borigoan	20-10-2023	65	26
		Palghar	Dahanu	Saravali	23-10-2023	67	25
		Palghar	Jawhar	Shiroshi	25-10-2023	22	6
		Palghar	Wada	Nichole	08-11-2023	21	5
Palghar		Dahanu	Asvali	17-11-2023	85	31	
Palghar		Dahanu	Bordi	20-11-2023	40	18	
Palghar		Vikramgad	Kunjhe	18-12-2023	42	15	
Palghar		Jawhar	Sakharshet	20-12-2023	38	12	
Solapur	Solapur	Mohol	Mohol	19-10-2023	22	15	
	Solapur	Mohol	Mohol	26-10-2023	12	8	

		Solapur	Mohol	Mohol	30-10-2023	28	21
		Solapur	Madha	Solankarwadi	05-12-2023	30	10
	Washim	Washim	Risod	Deulgaon Banda	09-10-2023	42	8
		Washim	Risod	KVK Karda	11-10-2023	101	22
		Washim	Risod	KVK Karda	22-11-2023	38	12
		Washim	Malegaon	Kinhiraja	22-12-2023	66	18
		Washim	Malegaon	Medshi	28-12-2023	50	11
Meghalaya	West_Khasi_Hills	West Khasi Hills	Mawthadraishan	Mawkhan	07-12-2023	23	8
		West Khasi Hills	Mairang	Langkyrteng	11-12-2023	48	9
		West Khasi Hills	Mairang	Mawlieh	14-12-2023	44	4
Odisha	Ganjam	Ganjam	Jagannathprasad	Chopra	16-11-2023	25	6
Punjab	Ferozepur	Ferozepur	Firozpur	KVK Ferozepur	17-11-2023	53	10
	Ropar	Rupnagar	Anandpur-Sahib	Agampur	18-12-2023	51	6
Rajasthan	Hanumangarh	Hanumangarh	Sangaria	Buglawali	14-12-2023	37	2
		Hanumangarh	Sangaria	Singhpura	20-12-2023	35	1
	Jalore	Jalore	Ahore	Vediya	28-12-2023	50	16
	Pali	Pali	Sumerpur	Pomawa And Purara	04-10-2023	9	5
		Pali	Rohat	Bitoo Moriya Chatelav Singari Sedariya Pati Bassi	08-12-2023	20	7
Tamil Nadu	Trichy	Tiruchirappalli	Andanallur	Sirugamani	19-10-2023	10	2
	Vellore	Vellore	Anaiktu	Peenjamantai	19-10-2023	22	5
		Vellore	Kaniyambadi	Keelarasampattu	08-11-2023	25	8
		Vellore	Peranmbattu	Balur	09-11-2023	25	11
		Vellore	Katpadi	Vallimalai	14-11-2023	28	13
		Vellore	Peranmbattu	Melkothakuppam	21-11-2023	30	15
		Vellore	Anaiktu	Kuchipalayam	30-11-2023	25	7
Uttar Pradesh	Baghpat	Baghpat	Pilana	Patauli	04-11-2023	20	10
		Baghpat	Pilana	Bdagav	29-11-2023	22	10
		Baghpat	Baghpat	Sisana	06-12-2023	20	10
		Baghpat	Pilana	Daulatpur	12-12-2023	20	12
	Chitrakoot	Chitrakoot	Karwi	Ganivan	23-10-2023	42	11
		Chitrakoot	Ramnagar	Nadin Kurmiyan	16-12-2023	38	12
		Chitrakoot	Pahari	Ganiwan	19-12-2023	174	62
Uttarakhand	Pithoragarh	Pithoragarh	Pithoragarh	Duni	09-10-2023	20	20
		Pithoragarh	Pithoragarh	Gaina	10-10-2023	20	1
		Pithoragarh	Pithoragarh	Gaina	28-11-2023	20	18
West Bengal	Birbhum	Birbhum	Labpur	Bhalkuthi	06-12-2023	40	2
		Birbhum	Bolpur-Sriniketan	Faridpur	07-12-2023	40	0
		Birbhum	Khoyrasol	Chapla	14-12-2023	40	5
	Malda	Malda	English-Bazar	Agriculture Training Center	22-11-2023	40	5
		Malda	Ratua-I	Rukundipur	21-12-2023	40	3
	Mursidabad	Murshidabad	Lalgola	Paharpur	22-11-2023	30	11

## Annexure II

### Field visits conducted during the period October to December 2023:

State	AMFU/ DAMU	Place	Date
Assam	DAMU, Cachar	Harinagar, Molong, Seinthketrine Salchapra, Sonai block, Cachar	02.10.2023 to 31.12.2023
	DAMU, Baksa	Kharua village	28.12.2023
Gujarat	DAMU, Jamnagar	Falla village, Jamnagar block	20.10.2023
		Latipar village, Dhrol block	25.11.2023
	AMFU, Junagadh	Bilkha village, Junagadh district	17.11.2023
		Bhatiya village, Junagadh district	08.12.2023
	DAMU, Narmada	Jamlapada village, Waghai taluka	03.10.2023
		KVK Dediapada	07.10.2023
		Sorapada village, Sagbara taluka	19.10.2023
		Nani Bedwan village, Dediapada taluka	20.10.2023
	Almavadi village, Dediapada taluka	21.10.2023	
Karnataka	DAMU, Bagalkote	Kaladagi village, Bagalkot taluk	05.12.2023
		Mangalagudda village, Guledgudda taluk	13.10.2023
		Bisanal village, Bilgi block	18.12.2023
		Hungund block	17.11.2023
	DAMU, Yadgir	Hunasigi village, ShorapurTq	11.10.2023
		Kaytanal village, Shahapur Tq	03.11.2023
		Hotpeth village, Shahapur Tq	20.11.2023
Himachal Pradesh	DAMU, Bilaspur	KVK, Bilaspur	29.11.2023
		KVK, Bilaspur	12.12.2023
	AMFU, Seobagh	Premgarh village, Kullu block	30.12.2023
Jharkhand	DAMU, Godda	Japnibandh village, Poraiyahat block	01.11.2023
		Dakaita village, Sundarpahari block	13.11.2023
Madhya Pradesh	DAMU, Khargone	Khargone village	04.10.2023
		Khargone village	13.10.2023
		Nalvat village village	09.12.2023
		Khar village	29.12.2023
Maharashtra	DAMU, Washim	Kawtha village, Risod block	12.12.2023
		Shelu khadse village, Risod block	21.12.2023
	AMFU, Aurangabad	Bhiv Dhanora village, Gangapur Tq, Aurangabad	05.10.2023
	DAMU, Gadchiroli	Pardi village	25.10.2023
		Laxamanpur, Ganpur, Laxamanpur villages	01.10.2023
Odisha	DAMU, Rayagada	Srirampur village	05.10.2023
		Morama village	13.10.2023
		Kalma village	20.10.2023
		Chalkhamba village	27.10.2023
		Baghasala village	15.11.2023
		Tembaguda village	28.11.2023
		Jaripanga village	11.12.2023
		Rupapadar village	30.12.2023

	AMFU, Mahisapat	Tumuni village, Bantala block, Angul district	15.11.2023
		Ragadiapada village, Bantala block, Angul district.	23.12.2023
	AMFU, Keonjhar	Janardanpur village, Keonjhar Sadar block	11.10.2023
		Gopinathpur Nuagaon village, Keonjhar Sadar block	20.11.2023
		Ambadahara village, Banspal block	20.12.2023
		Harichandanpur block	21.12.2023
	AMFU, Ranital	Digachai, Chandballi, Bhadrak	05.10.2023
		Kuarnda, Bhadrak	07.10.2023
		Bari Jajpur	11.10.2023
		Rasulpur Jajpur	18.10.2023
		Bahanaga Balasore	02.11.2023
		Bhandaripokhari Bhadrak	04.11.2023
		Oupada Balasore	09.11.2023
		Korai Jajpur	13.11.2023
		Basudevpur Bhadrak	18.11.2023
		Bhogorai Balasore	23.11.2023
		Basudevpur Bhadrak	02.12.2023
		Tihidi Bhadrak	06.12.2023
		Binjharpur Jajpur	14.12.2023
Khaira Balasore		21.12.2023	
Bonth Bhadrak	27.12.2023		
Basudevpur Bhadrak	30.12.2023		
Tamil Nadu	AMFU, Ooty	Sri Madurai village, Gudalur block, The Nilgiris	05.10.2023
		Vaazai Thottam, Masinagudi, Ooty block, The Nilgiris	13.12.2023
Uttarakhand	AMFU, Roorkee	Hanumanti, Koli gaav, Sailani, Daamisen, Umatgaav, Saroda and Daal Misen villages, Dugadda block, Pauri-Garhwal district	30.11.2023
		Bahadarpure saini, Shantar Shah villages, Roorkee block, Haridwar district	14.12.2023
Uttar Pradesh	AMFU, Kanpur	Hardoi & Unnao district	17.10.2023
West Bengal	AMFU, Kakdwip	Shyambasurchak village, Kulpi block	16.11.2023
		Dakshin Chandranagar village, Namkhana block	29.11.2023
		Budhakhali village, Namkhana block	28.12.2023
		Bhubannagar village, Partharpratima block	30.12.2023
	DAMU, Purulia	Urma village, Balarampur block	22.11.2023
		Arjunjora village, Hura block	28.11.2023
	AMFU, Kharagpur	Kalasbarg village	11.11.2023