# AMITY UNIVERSITY MAHARASHTRA

Established vide Maharashtra Act No.13 of 2014, of Government of Maharashtra, and recognized under Section 2 (f) of UGC Act 1956.

Progress on SDG 17

# Partnerships for the Goals

## 17.2.1 Relationships for SDG policy development

# Bhatan Village Agricultural Survey

### Identifying rural development challenges

## Year 2025

Amity University Maharashtra

Mumbai - Pune Expressway, Bhatan, Somathne, Panvel,
Mumbai, Maharashtra 410206

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## Scope of this report

This report records the Bhatan Village agricultural survey conducted on 11 November 2025 and the rural development challenges identified through primary fieldwork. It documents a completed research activity and a proposed route towards policy recommendations.

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| Sl. No | Institution / Department | Name of External Organization / Institution (With Whom MoU Has Been Signed With) | International / National | Date of Signing the MoU | Duration of MoU (Date of Expiration) | Salient Provisions of the MoU | Outcomes Achieved (Give Complete Details Till Date, Highlighting the Important Points ) |
|---|---|---|---|---|---|---|---|
| **3** | AIBAS | Jagruti Rehabilitation Center, Taloja, Navi Mumbai (MH) | National | 02/12/2020 | 5/Year10-02-2025 | Academia Industry linkage / Institute, Industry Collaboration | Supporting persons with Intellectual and Developmental Disabilities (PwIDDs) From naval personnel and veteran families. Long term observation of specific diagnostic assessments has provided a structured dataset for investigating long-term therapy outcome. |
| **4** | AIB | University of Cincinnati | International | 13/04/2021 | 5/Year (12-04-2026) | Academic Research Collaboration | Publication and joint project application |
| **6** | ASET | Cloud Counselage Pvt. Ltd. | National | 21/10/2021 | 5/Year (20-10-2026) | Academia Industry linkage / Institute, Industry Collaboration | |
| **8** | AUM | University of Florida, Gainesville, USA | International | Nov. 2021 | 5 Years | Faculty & Student Exchange | |
| **9** | AUM | University of California, Riverside, USA | International | Nov.2021 | 5 Years | Faculty & Student Exchange | |
| **10** | AUM | Centre for DNA Fingerprinting and Diagnostics (CDFD) | National | 18/12/2021 | 5/Year (18-12-2026) | Joint Supervision & Exchange of students | |
| **11** | AUM | Information and Library Network Centre | National | 09/03/2022 | 5 Years | Registration for Shodhganga | |

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| **12** | AIIT | Instron Technologies | National | 05/06/2022 | 5/year(05/06/2027) | Academia Industry linkage / Institute, Industry Collaboration | Online Webinar on " Internet of Things for Manufacturing Industry : A Case Study" conducted on 11th June 2020. |
| **13** | AIIT | Digitech Confidential | International | 08/06/2022 | 5/year(08/06/2027) | Academia Industry linkage / Institute, Industry Collaboration | Online Webinar on "General Data Protection Regulation" held on Wednesday, 17th June 2020 Time : 2.00 pm - 3.00 pm. |
| **15** | AIBAS | HBT Medical College & Dr. R. N. Cooper Municipal General Hospital | National | 26-08-2022 | 5/Year(26/08/2029 | Academia Industry linkage / Institute, Industry Collaboration | Clinical specialty research studies conducted through field practice by diagnosing, and having therapy sessions. |
| **16** | ASET | Indian Institute of Tropical Meteorology | National | 15/09/2022 | 5/Year(14/09/2027) | Academia Industry linkage / Institute, Industry Collaboration | Meteorological Radar is installed on the terrace of Amity University Mumbai and meteorological data is collected on regular basis. |
| **17** | AIB | Organic Recycling Systems Pvt Ltd | National | 26/09/2022 | 5/Year(25/09/2027) | Academia Industry linkage / Institute, Industry Collaboration | Placement: 1; Dissertation and Internships are provided for AIB students, 1 ORS employee is PhD scholar, Joint funding proposal submited to BIRAC and RGSTC, Joint publications and research work. |
| **18** | ASET | Wenzins Technology (India) Pvt. Ltd. | National | 20/11/2022 | 2/Years(19/11/2025 | Academia Industry linkage / Institute, Industry Collaboration | To collaborate on the design and development of an electrode for electrolyte imbalance detection. The collaboration includes research, prototype development, laboratory testing, and support for research publications and patent filing on an actual-cost basis. |

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| **20** | ASET | Gubbi Civil Engineers | National | 16/01/2023 | 2/Year(15/01/2025) | Academia Industry linkage / Institute, Industry Collaboration | 1. Consultancy Project was received 2. One Visit to Gubbi Enterprises by Dr. Charhate |
| **21** | AIB | LifeCell International Pvt.Ltd. | National | 04-12-2023 | 5/Years(11/04/2028 | Academia Industry linkage / Institute, Industry Collaboration | 1. The MoU facilitated internship opportunities for students, providing practical exposure and hands-on research experience aligned with their academic curriculum. 2. Students undertook dissertation projects in alignment with their academic requirements, gaining practical research skills and industry-oriented experience. |
| **22** | AIB | Government Dental College & Hospital | National | 20/04/2023 Renewed 11/06/2025 | 2/Years(10/06/2027) | Academia Industry linkage / Institute, Industry Collaboration | The MoU facilitated research support for a Ph.D. scholar in sample collection for research on the oral cavity and oral microbiome. This collaboration strengthened academic and research activities and supported the scholar in conducting microbiome-related investigations. 02 articles has been published in collaboration. |
| **23** | AIB | miBiome Therapeitics LLP | National | 13/06/2023 | 3/Years12-06-2026 | Academia Industry linkage / Institute, Industry Collaboration | Faculty members and research scholars utilizing the sequencing facility on a chargeable basis, facilitating research activities and supporting collaborative research initiatives. |
| **26** | AU | Solid State Physics Laboratory | National | 20-12-2023 | 5/Years(19/12/2028) | President, Amity Science , Technology & Innovation Foundation | |

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| **27** | AU | Terminal Ballestics Research Laboratory | National | 07-12-2023 | 5/Years(06/12/2028) | President, Amity Science , Technology & Innovation Foundation | |
| **28** | AIIT | IdeaForge Technology Limited | National | 22.02.2024 | 3/Years(22.02.2027) | Academia Industry linkage / Institute, Industry Collaboration | Expert Talk on "IT Culture India and Abroad" conducted dated 17th February 2023. Total 260 Participants attended. |
| **29** | AUM | Blessings Always Guruji Associates | National | 23-03-2024 | 1 year (22-03-2025) | Academia Industry linkage / Institute, Industry Collaboration | |
| **30** | ASFT | Tissser Artisans Trust (TAT) | National | 25.09.2024 | 3/Years(28-09-2027) | Academia Industry linkage / Institute, Industry Collaboration | |
| **31** | ASAP | Vijayalaxmi Charitable Trust, Kolhapur | National | 30.09.2024 | 3/Years(30.09.2027) | Academia Industry linkage / Institute, Industry Collaboration | 2 lectures on research in architecture.<br>2 Student publocations<br>4 Faculty Publications |
| **32** | AIB | Naval Material Research Laboratory | National | 01.10.2024 | Three years | Academia Industry linkage / Institute, Industry Collaboration | 1. An AUM researcher visited the Naval Materials Research Laboratory (NMRL) to explore potential areas of research collaboration.<br>2. An NMRL scientist visited Amity University Maharashtra (AUM) to discuss the preparation and submission of a joint research proposal to the Naval Research Board (NRB). |
| **33** | AUM | National Chung Cheng University | International | 25.11.2024 | 3/Years(25.11.2027) | Academia Industry linkage / Institute, Industry Collaboration | |

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| **34** | AUM | Indian National Space Promotion and Authorisation Centre (IN-SPACe) Department of Science, GOI, Ahmedabad and Space Applications Centre (SAC) , Indian Space Research Organisation, Ahmedabad | National | 08.11.2024 | 3/Years(08.11.2027) | Academia Industry linkage / Institute, Industry Collaboration | The MoU facilitated the first biological payload from Amity University Mumbai onboard PSLV-C60 |
| **35** | AUM | Vikram Sarabhai Space Centre (VSSC), Department of Space (DOS) Thiruvananthapuram and Indian National Space Promotion and Authorisation Centre (IN-SPACe), Department of Science (DOS) Ahmedabad | National | 08.11.2024 | 3/Years(08.11.2027) | Academia Industry linkage / Institute, Industry Collaboration | The MoU faliciated crucial tests like RS485 telemetry test, EB checks and RS02 tests which were manadtory for APEMS payload from Amity University Mumbai |

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| **36** | AUM | Indian National Space Promotion and Authorization Centre (IN-SPACe), Department of Space (DOS), Ahmedabad For Vibration and Thermo-Vacuum Testing of PFM of Amity Plant Experimental Module in Space (APEMS) | National | 11.11.2024 | 6 months / 11.05.2025 | Academia Industry linkage / Institute, Industry Collaboration | The MoU facilitated crucuial environemntal tests like Thermovac test, Vibration test and Thermal cycling for APEMS payload |
| **37** | ASET | Drone Entry (Thailand) Co.Ltd. | International | 17.03.2025 | 2 years / 18.03.2027 | Academia Industry linkage / Institute, Industry Collaboration | 2 Drone Making Workshops were organized. |

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| **38** | ASCO | Culture Cinema Film Festival (C2F2 Mumbai) | National | 24.03.2025 | 3/Years(24.03.2028) | Academia Industry linkage / Institute, Industry Collaboration | **Point wise Outcome Report:**<br>1) The Culture Cinema Film Festival (C2F2) is a unique tribute to global cultures through cinema, bringing together filmmakers, students, and enthusiasts to explore diverse narratives, folklore, and artistic expressions. In association with the Mumbai International Film Festival (MIFF 2024), C2F2 presents an extraordinary lineup of 55 official selections, including 19 award-winning films. The festival features live interactions with filmmakers, insightful masterclasses, and thought-provoking discussions on the role of cinema in preserving cultural heritage.<br>2) Mr. Tilakraj Shetty, Mr. Sanjay Singh, Mr. Praveen Nagda, Mr. Ramesh Tekwani, Mr. Ritesh Taksande, Ms. Sherina Kapany. Writer, producer & filmmakers from Bollywood film Industry.<br>3) Industry experts to gain practical knowledge.<br>4) Individual Network.<br>5) 400 students from UG & PG.<br>6) This festival is more than just film screenings—it is a celebration of storytelling, an exchange of ideas, and an inspiration for aspiring filmmakers. The Culture Cinema |

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| | | | | | | | Film Festival (C2F2) is an international event dedicated to celebrating global cultures through cinema.Its C2F2-in-The-Campus initiative brings this experience directly to universities across India, offering students a unique opportunity to engage with diverse cultural narratives.During these on-campus events, students enjoyed the interaction session with the filmmakers from film industry.Additionally, they are enhancing their understanding of various cultures and filmmaking techniques.This exposure broadens students' global perspectives and enriches their academic experience.<br>7) The Film Festival concluded with the gratitude of the guests, HOD, faculty members, and dear students for making this session engaging and enriched with fruitful discussions. Creating the industrial network and collaboration for internship and placement.<br>8) Students are awarding about the practical work and future of film opportunities.<br>9) Student Internships and Placements.<br>10) Media networking, internship support for 10 students, paid in- |

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| | | | | | | | ternship opportunities and placement offers. Collaboration has been active for the last six months.<br>11) Placement and internship support, promotion of film programmes, media networking opportunities, and an International Film Conclave. |

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| **39** | ASCO | SHAMIANA | National | 24.03.2025 | 3/Years(24.03.2028) | Academia Industry linkage / Institute, Industry Collaboration | **Outcome Report:** Short film screenings, film appreciation workshops, interaction with filmmakers, internship opportunities, student participation in film festivals, and joint film-related academic and industry projects. |
| **40** | RICS | University of Sri Jayewardenepura, Sri Lanka | International | 16.10.2025 | – | Joint Research Projects and Publications, Curriculum Development Alignment, Joint Academic Development, Student and Faculty Development Intitiatives, Co hosting of academic events including workshops, Seminars, and internantional conferences | 1. Conducted Joint Internantional Workshop on "Valuation of Plant and Machinery" 2. Jointly Hosting International Conference on Real Esate Management and Valuation (ICREMV 2026) at Amity University Mumbai Scgeduled on 30th October 2026 3. Pre-Conference Workshop on 29th October 2026 on "From Factory Floor to Valuation Report" |
| **41** | ASAP | Rotary and Inner Wheel Club, Panvel | National | 17-01-2024 | 5 Year (17-1-2029) | Academia Industry linkage | Consultancy for Clinic design. |
| **42** | RICS | Thite Valuers and Engineers Private Limited | National | 15.03.2024 | 3/Years(14.03.2027) | Internship, Joint Research programme, Joint academic programme and workshp | 1. Every year took 2 to 3 studnets for Internship 2. Resource person for International Workshop of "Valaution of Plant and Machinery" 3. Board of Studies Member and Contributing in Syllbus upgradation specially for Real Estate Programme. |

# Activity and research purpose

## Understanding Agrarian Landscape of Bhatan Village of Panvel District: A Study (Through primary Survey)

| Item | Recorded detail |
|---|---|
| Date and time | 11 November 2025, 1:30 pm to 4:00 pm |
| Location | Bhatan Village, Panvel |
| Organizing institute | Amity Institute of Liberal Arts |
| Faculty coordinator | Dr. Arshad Hussain Bhat |
| Student coordinator | Ms. Nirmal Krishnan |
| Fieldwork team | 19 students and 1 faculty/staff member |

The survey examined the circumstances of farming households in Bhatan, where proximity to Panvel and surrounding development creates pressures on small-scale agriculture. The report identifies reliance on rainfall, limited modern equipment and low awareness of government agricultural support as reasons for undertaking the fieldwork.

Students from BA Economics, BA Liberal Arts and MSW participated. Students learnt about landholding, household economic and social conditions, rice cultivation, farming methods and market-related difficulties.

The research purpose was to connect village-level observations with wider development planning and generate ideas for improving rural livelihoods. This provides a concrete basis for identifying SDG-related challenges concerning agriculture, livelihoods and access to support.

## Findings and proposed policy pathway

The outcomes describes small landholdings and rice-based cultivation dependent largely on rainfall. It notes limited use of modern tools, irrigation and agricultural advisory services. Students also identified changing weather, difficulties selling crops and low awareness or use of government farming programmes.

It was noted that farmers were generally satisfied with their earnings despite limited crop diversity and market participation.

## Completed research contribution

AUM organized and supervised primary fieldwork, documented local agricultural challenges and developed students' capacity to collect and interpret field information. The findings identify issues that could inform discussion of agricultural support, advisory access and rural livelihood strategies.

## Original field photographs and source record




Photograph 1. Fieldwork group in Bhatan Village.





Photographs 2 and 3.