Shoolini University

SUSTAINABLE DEVELOPMENT GOAL 2

ZERO HUNGER

Progress Report 2025

Sustainable Food Systems for Healthier People, Stronger Communities and a Resilient Future





Shoolini University of Biotechnology and Management Sciences

Bajhol, Solan, Himachal Pradesh – 173229, India

RESEARCH & INNOVATION | SUSTAINABLE AGRICULTURE | COMMUNITY ENGAGEMENT | RESPONSIBLE FOOD SYSTEMS

Executive Summary

At Shoolini University, we advance Sustainable Development Goal 2 (Zero Hunger) through agricultural research, academic programmes, farmer engagement, food-related innovation and community service. This 2025 progress report brings together the 2024 SDG 2 report as institutional context, the supplied Scopus publication export, official University information including the Jagriti Community Projects 2025. The publication export contains 225 publication records across 2020–2025, including 81 entries dated 2025. The 225 non-empty records have unique Scopus EIDs.

Our clearest documented community-facing agricultural activity in 2025 was the February farmer workshop in Shivathal village, where agricultural experts and local farmers discussed production challenges, soil testing and micronutrient applications for apple production. The report also documents the Sandwich and Brownie Sewa held during Daan Utsav, a small-scale campus food-sharing initiative. Together with our research portfolio, these examples demonstrate practical ways in which the University contributes to agricultural knowledge exchange and a culture of food sharing.

1. Introduction

United Nations Sustainable Development Goal 2 calls for ending hunger, achieving food security and improved nutrition, and promoting sustainable agriculture. In the Himalayan context, food security is connected with reliable agricultural production, crop health, soil and water management, climate resilience, post-harvest handling, food quality and the livelihoods of farming communities.

Shoolini University approaches SDG 2 through research, education, farmer engagement, food technology and collaboration. This 2025 report builds on the University's 2024 SDG 2 report while prioritising activities and publications dated 2025. Historical activities are used as background only and are not represented as new 2025 events.

2. Institutional Commitment and Academic Capacity

Shoolini University's SDG 2 framework is organised around three connected pillars: sustainable agriculture, nutritional security and community support. It also describes coordination by the Sustainability Cell with the School of Agriculture, School of Biotechnology and NSS Unit. These remain the framing used in this report; current-year governance records should be retained as evidence if required for formal ranking submission.

Our School of Agriculture works to make agriculture productive, attractive and sustainable through innovative, scientific and climate-smart technologies. It develops technical and managerial skills across agricultural production and supply chains and contributes to food and nutritional security in the Himalayan region.

Institutional pillar	SDG 2 relevance	Evidence / interpretation
Sustainable agriculture	Crop productivity, soil health, pest management, climate resilience and resource efficiency.	Supported by School of Agriculture mission and the research portfolio.
Nutritional security	Food quality, nutrition, food preservation and food technology.	Supported by academic programmes and research themes; direct nutrition outcomes not supplied.
Community support	Knowledge exchange with farmers and rural communities.	Supported by the February 2025 farmer workshop; outcome data are limited.

3. Farmer Engagement and Community Knowledge Exchange

3.1 Farmer Problems and Their Solutions workshop

On 12 February 2025, the University organised a two-day workshop titled "Farmer's Problems and Their Solutions: Interaction of Farmers with Agriculture Experts," organised by the MS Swaminathan School of Agriculture as part of an initiative focused on social empowerment and sustainability in the

Western Himalayan region. Agricultural experts visited Shivathal village and interacted with the village Pradhan and 20 other local farmers. Discussions covered modern farming techniques, soil testing, micronutrient applications, apple-tree training and pruning, disease management and apple processing. The published account also describes follow-up engagement in Kundla and Shamti villages, including exchanges with farmers involved in protected cultivation.

4. Research and Innovation for Food Security

The Scopus export supplied for this report provides a broad view of Shoolini University's SDG 2-related research portfolio covering 2020–2025. Its research topics include sustainable agriculture, crop resilience, plant health, soil improvement, biofertilisers, irrigation, agricultural waste utilisation, food processing and preservation, food composition and nutrition. The 2025 records provide the current-year research evidence; citation metrics in the export were updated in October 2026 and should not be interpreted as citations accumulated during 2025.

4.1 Selected 2025 publications

2025 publication title	Authors (as exported)	Source
Biochar as a Potential Nutrient Carrier for Agricultural Applications	Sharma, S., Mukherjee, S., Bolan, S., de Figueiredo, C., Fachini, J., X.Chang, S., Palansooriya, K.N., Zhou, P., Hou, D., Kaya, C., Siddique, K.H.M., Bolan, N.	Current Pollution Reports
Artificial intelligence in sustainable food design: Technological, ethical consideration, and future	Harikrishnan, S., Kaushik, D., Rasane, P., Kumar, A., Kaur, N., Reddy, C.K., Proestos, C., Oz, F., Kumar, M.	Trends in Food Science and Technology
Nanocomposite-based agricultural delivery systems: a sustainable approach to enhanced crop productivity and soil health	Ray, A., Das, P., Chunduri, R., Kumar, D., Dulta, K., Kaushal, A., Gupta, S., RJ, S., Yadav, A.N., Nagraik, R., Sharma, A.	Journal of Nanoparticle Research

2025 publication title	Authors (as exported)	Source
The Combination of α-Fe2O3 NP and Trichoderma sp. Improves Antifungal Activity Against Fusarium Wilt	Sharma, S., Kumari, P., Shandilya, M., Thakur, S., Perveen, K., Sheikh, I., Ahmed, Z., Sayyed, R., Mastinu, A.	Journal of Basic Microbiology
Enhancing post-harvest sustainability in temperate crops through smart IoT-integrated indirect solar dryer	Sharma, B.B., Vaidya, P., Kumar, N., Tiwari, A., Bansal, S., Faruque, M.R.I., Al-mugren, K.S.	Scientific Reports
Plant-Driven Soil Dynamics: Exploring the Role of Roots, Fungi and Soil Traffic in Shaping the Soil Structure	Negi, M., Sharma, S., Singh, M.	Communications in Soil Science and Plant Analysis
Leveraging Artificial Intelligence for Disease Diagnosis in Agricultural Crops: A Review	Mehta, A.R., Kumar, P., Prem, G., Aggarwal, S., Kumar, R.	Indian Journal of Agricultural Research
Biology and Application of Chaetomium globosum as a Biocontrol Agent: Current Status and Future Prospects	Sharma, S., Pandey, S., Kulshreshtha, S., Dubey, M.	Microorganisms
Smart nano-fertilizers: a path to sustainable agriculture	Gupta, P., Dhar, H., Bagal, Y.S., Jaglan, S.	Environmental Geochemistry and Health
Mechanistic understanding of GABA and trehalose in modulating plant response to drought stress	Choudhary, A., Nepovimova, E., Rajput, V.D., Malik, T., Choudhary, M., Bhardwaj, N., Peter, L., Puri, S., Kimta, N.	Plant Stress

2025 publication title	Authors (as exported)	Source
In Vitro Mutagenesis: A Non-invasive Technology for Effective Crop Improvement to Assure Food and Nutritional Security—Current Trends, Advancements and Future Perspectives	Sharma, V., Thakur, M., Maan, S.S., Verma, K., Thakur, A., Penna, S.	Journal of Plant Growth Regulation
Conventional and cutting-edge advances in plant virus detection: emerging trends and techniques	Singh, A., Yasheshwar, Kaushik, N.K., Kala, D., Nagraik, R., Gupta, S., Kaushal, A., Walia, Y., Dhir, S., Noorani, M.S.	3 Biotech
Analysis of solar thermal collector with S-shaped ribs via energy, exergy, economic, and environmental (4E) approaches	Kumar, K., Thapa, S., Kumar, S., Prajapati, D., Samir, S., Lee, D., Kumar, R., Singh, T.	Solar Energy Materials and Solar Cells
Decoding oxidative stress regulation in food crops exposed to heavy metals: interdisciplinary strategies for sustainable mitigation	Thakur, N., Sharma, P., Negi, N., Sharma, N., Sharma, P.	Discover Sustainability
Metabolic adaptations in plants: navigating heavy metal stress for sustainable plant growth	Sharma, N., Negi, N., Kaur, H., Sharma, V., Kumari, V., Thakur, N.	Discover Applied Sciences
The Revolutionary Role of Blockchain Technology in the Agri-Food Sector Focusing on the Food Supply Chain	Pal, T., Bommisetti, V., Suvarnakanti, P., Dudala, S.S., Asha, S., Jaiswal, V.	Food Reviews International

2025 publication title	Authors (as exported)	Source
Recent advancements in heterocyclic compounds as agrochemicals – A review	Sidhu, N., Jain, P., Mukherjee, C., Pratheep, P.S., Anwar, A.F., Satheesh, A., Kaur, M., Gairola, K., Mukherjee, D., Moza, B.	Indian Journal of Heterocyclic Chemistry
Utilizing CRISPR-based genetic modification for precise control of seed dormancy: progress, obstacles, and potential directions	Rachappanavar, V.	Molecular Biology Reports
Macronutrients-availing microbiomes: biodiversity, mechanisms, and biotechnological applications for agricultural sustainability	Kaur, T., Devi, R., Negi, R., Kour, H., Singh, S., Khan, S.S., Kumari, C., Kour, D., Chowdhury, S., Kapoor, M., Rai, A.K., Rustagi, S., Shreaz, S., Yadav, A.N.	Folia Microbiologica
Harnessing Deep Learning With AlexNet for Tomato Leaf Disease Detection in the Indian Himalayan Terrain	Sharma, R., Naaz, S., Vaidya, P.	Journal of Electrical and Computer Engineering
Advancements in biogenic nanoparticles synthesis, characterization and its mechanism in disease management	Thakur, N., Tapwal, A., Kumari, K., Thakur, R.K., Ganesamoorthy, R., Thirugnanasambandham, K.	Bioresource Technology Reports
Enhancing crop resilience with melatonin seed treatment in horticulture crops	Rachappanavar, V.	Acta Physiologiae Plantarum

2025 publication title	Authors (as exported)	Source
Growth and yield responses of common bean (Phaseolus vulgaris L.) to tree lopping and organic manure under Morus-based agri-silvicultural system	Saakshi, Thakur, C.L., Bhardwaj, D.R., Sharma, U., Bhatia, A.K., Sharma, S., Sharma, S., Gudeta, K., AlNadhari, S., Alansi, S.	Trees, Forests and People
Microbial-based conversion of food waste for sustainable bioremediation and utilization as compost	Hamid, B., Yatoo, A.M., Sayyed, R.Z., Dineshkumar, R., Al-Khayri, J.M., Bashir, Z., Sillanpää, M., Majeed, N.	Biomass Conversion and Biorefinery
Root and tuber crops and their role in global food security	Roy, N., Mukherjee, S., Singh, S., Singh, V.K., Kumar, R.	Sustainable Production of Root and Tuber Crops
Eco-friendly sustainable farming: Enhancing summer tomato (Lycopersicon esculentum mill.) yield with jute non-woven agro textile Mulch	Mridha, N., Nayak, D., Yadav, A., Mondal, T., Ghosh, R.K., Bhowmick, M., Singha, A., Ray, D.P., Manjunatha, B.S., Das, A., Shakyawar, D.B., Paul, S., Das, A., Mukherjee, S., Kumar, R.	Heliyon
Nanopesticides in plant protection: Potentials, mechanistic insights, and future perspectives against phytopathogens and insect pests	Bhanwala, G., Kimta, N., Ravi, K.	Physiological and Molecular Plant Pathology
Harnessing nematode-responsive promoters: A promising solution for plant parasitic nematodes management	Singh, A.K., Joshi, I., Kumar, A., Dinkar, V., Kohli, D., Koulagi, R., Kumar, A., Pankaj, Jain, P.K., Sirohi, A.	Plant Stress

2025 publication title	Authors (as exported)	Source
Emergence of potassium solubilizing microbes-assisted crop processing for sustainable food production and microbial complexities	Damathia, B., Pathania, D., Jha, A., Sable, H., Sonu, Singh, P., Singh, V., Rustagi, S., Chaudhary, V.	Food and Bioproducts Processing
Emerging prospects of Bacillus species in attaining the sustainable development goals	Kumar, H., Guleria, S., Kuča, K., Peter, L., Mohammed, A., Malik, T., Sethi, N., Dhanjal, D.S., Kumar, D., Harun, H.B.C.	Applied Microbiology and Biotechnology
Design and Implementation of Real-Time Tomato Plant Growth Monitoring System using Deep Learning based YOLO and Raspberry Pi	Sharma, R., Sharma, B.B., Vaidya, P., Naaz, S.	Applied Artificial Intelligence
Advances and perspectives of nanomaterials for photocatalytic degradation of biological ethylene toward the postharvest improvement of agricultural products	Nguyen, L.H., Dinh, D.A., Thi, L.-A.P., Pham, P.V., Singh, P., Raizada, P., Lin, K.-Y.A., Nguyen, V.-H.	Environmental Science and Pollution Research
Brassicaceae microgreens: Pioneering sustainable solutions for functional benefits in modern diets and food security	Kumar, A., Panwar, A., Kumar, S., Kumar, V., Dhiman, A., Sharma, V., Sharma, S.	South African Journal of Botany
Genetic regulations of citrus flowering: insights towards climatic factors and modern biotechnological approaches	Singh, P., Thakur, G., Sharma, V., Singh, J., Sharma, A.	Planta

2025 publication title	Authors (as exported)	Source
Valorization of flowers and their role in circular bioeconomy and sustainable development goals	Kumar, H., Guleria, S., Dhalaria, R., Kimta, N., Sethi, N., Dhanjal, D.S., Kaur, T., Kumar, M., Harun, H.B.C., Mahajan, A., Malik, T., Nepovimova, E.	Bioresources and Bioprocessing
Gossypium arboreum (L.): A review on its agronomic and industrial potential for sustainable cotton production	Gogari, S., Radha	Physiological and Molecular Plant Pathology
Colored Vegetables – Futuristic Approach for Developing High-Value Crops	Shree, B., Kumar, S., Sharma, D., Sharma, S., Kashyap, A.	Functional Compounds and Foods of Plant Origin
Meat Products Enriched with Herbs, Spices and Essential Oil	Kumar, H., Guleria, S., Kimta, N., Dhalaria, R., Bose, I., Kuča, K.	Healthier Meat Products
Marine Bioresources and Blue Economy	Rai, N., Sehgal, A., Sambyal, D., Julka, J.M., Yadav, S., Mishra, S., Jaiswal, K.	Biotechnological Innovations for Sustainable Biodiversity and Development
Proactive approach to biofertilizers for sustainable agriculture	Sharma, N., Dixit, B., Kayastha, R.	Journal of Plant Nutrition
Exploring Plant Diversity Through Enzyme-Mediated Analysis Using Electro-Carbon Sensors	Rachappanavar, V.	Plant Breeding

2025 publication title	Authors (as exported)	Source
Empowering health with mushroom biofortification: nutritional and medicinal attributes	Choudhary, M., Mandyal, P., Chauhan, A., Ghosh, S.	Journal of Food Science and Technology
Parental RNA interference (pRNAi) in insects: mechanisms, applications, and challenges in pest management	Saini, A., Sharma, N.	Molecular Biology Reports
Integrating molecular farming into sustainable plant biotechnology: a review of transgenic plants as biofactories for protein-based pharmaceutical production	Adedeji, O.S., Adelodun, B., Odey, G., Pal, T., Ajibade, F.O., Silva, L.F.O., Choi, K.S., Park, K.I.	Plant Cell, Tissue and Organ Culture
Current Insights on mycotoxins: Toxicological relevance and multimodal detection technologies for food and feed safety	Chauhan, D., Khanal, S., Sharma, S., Pillai, M., Verma, R., Kumar, D.	Food and Humanity
Harnessing Advanced Genomic Approaches to Unveil and Enhance Brown Planthopper Resistance in Rice	Ishwarya, L.V.G., Vanisri, S., Basavaraj, P.S., Sreedhar, M., Jhansi, L.V., Muntazir, M., Gireesh, C., Pushpavalli, S.N.C.V.L.	Rice Science
Waste Biomass to Bioenergy with Regulatory Framework for a Sustainable Economy	Bose, D., Bhattacharya, R., Raj, R., Ganti, L.S.P., Sarkar, A., Gopinath, M.	Digital Twins and ESG

2025 publication title	Authors (as exported)	Source
Importance of Artificial Intelligence and the Internet of Things in Smart Agriculture	Sharma, R., Sharma, D., Vaidya, P., Sharma, B.B.	Metaheuristics in Engineering Applications
Ethical, societal issues, and future challenges of plant CRISPR technologies	Prakash, A., Mandal, S., Ranjan, S., Sood, N., Singh, R.B., Kumar, S., Kumari, N.	CRISPR Technology for Combating Plant Pests and Pathogens
Bioprospecting and Biodiscovery for Sustainable Development	Sonia, Banerjee, R., Yadav, S., Mishra, S., Jaiswal, K.	Biotechnological Innovations for Sustainable Biodiversity and Development
Crop residue management solutions in the northwestern Indo-Gangetic plains: A review	Prem, G., Kumar, N., Poddar, A., Mehta, A.R., Shankar, V., Yadav, A.N.	Plant Science Today
AI-Driven Innovations in Alternative Proteins: A Multivocal Perspective on Sustainability and Future Food Systems	Desai, S., Kumar, S., Thakur, B.	Proceedings of the 2025 12th International Conference on Computing for Sustainable Global Development, INDIACom 2025
Role of Fungi in Biogenic Synthesis of Nanofertilizers and Nanopesticides	Khatua, S., Ghosh, S.	Nanobiotechnology for Agricultural Sciences: Nano-Agri-Input Products for Crop Production and Environmental Protection
Characterization of unique Himalayan rice germplasm: DUS evaluation, morphological profiling, and molecular fingerprinting	Rachappanavar, V., Sharma, J.K., Sharma, M.K.	Journal of Crop Science and Biotechnology

2025 publication title	Authors (as exported)	Source
Smart agro-Tech: Using IoT-powered intelligence and sustainable AI solutions to revolutionize crop management	Bhardwaj, S., Gupta, G., Tomar, A., Tiwari, M., Ahmad, S., Azrour, M.	IoT and Advanced Intelligence Computation for Smart Agriculture
Impact of Combined Application of Swine Manure Liquid and Phosphorus Fertilizers on Soil Phosphorus and Microbial Communities	Pu, M., Zhang, Y., Mukherjee, S., Alharbi, S.F., Singh, R.K., Abou-Elwafa, S.F., Trindade, H., Zhang, T.	Sustainability (Switzerland)
Impact of bulky manures and fermented liquid formulations in enhancing the quality parameters of sweet pepper	Brar, P.S., Bhardwaj, G., Kaushal, R.	Journal of Plant Nutrition
Sustainable Solution: Harnessing Artificial Intelligence, Internet of Things and Design Thinking for Climate Action	Sharma, R., Thakur, V.	Proceedings of the 2025 12th International Conference on Computing for Sustainable Global Development, INDIACom 2025
Evaluating the impact of pre- and post-emergence herbicides on weed dynamics and sustainable Maize cultivation practices	George, A., Singh, A., Kritika, Sai, G.P., Sana, Z.A., Sarkar, S., Thakur, S., Fatima, I.	Plant Science Today
AI-Based Yield Prediction and Smart Irrigation	Das, S., Nandy, S.K.	Studies in Big Data

2025 publication title	Authors (as exported)	Source
Green-synthesized nano-fertilizers: a sustainable approach to enhancing crop productivity and stress tolerance	Thanta, S., Bhanwala, G., Kimta, N., Rajput, V.D., Malik, T.	Current Research in Biotechnology
Tomato Plant Disease Detection Using YOLO11	Sharma, G., Sharma, G., Sharma, B.B.	Proceedings of the 2025 12th International Conference on Computing for Sustainable Global Development, INDIACom 2025
A review update on Ganoderma species: etiology and management approaches	Thakur, P., Khanal, S., Tapwal, A., Sharma, N., Chauhan, P., Thakur, T.S., Kumar, D., Verma, R.	Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology
Food Security and Biodiversity	Priyanka, Chauhan, P., Chaurasia, M.	Biotechnological Innovations for Sustainable Biodiversity and Development
Optimizing nitrogen splitting and herbicide use for weed suppression and yield enhancement in wheat (Triticum aestivum L.)	Bhagat, V., Kumar, S., Gupta, M., Bharat, R., Banti, Kumar, V., Jamwal, S., Patyal, D.	Plant Science Today
Nature's defense: the role of secondary metabolites in combating herbivory	Kimta, N., Bhanwala, G., Sharma, R., Kuča, K., Kumar, H.	Secondary Metabolites in Stress and Disease Management: A Natural Alternative
Bioprospecting and Biomimicry	Fishta, A., Sobti, R.C., Thakur, R.	Biotechnological Innovations for Sustainable Biodiversity and Development

2025 publication title	Authors (as exported)	Source
Microbial Innovations for Sustainable Biocontrol and Bioremediation: Exploring Strategies in Wastewater Treatment and Environmental Restoration	Rana, S., Sharma, G.	Microbial Insights into Wastewater Treatment and Environmental Sustainability
Approach to Agrobiodiversity Preservation and Sustainable Agriculture in a Changing World	Barsola, B., Kumari, P., Yadav, S., Mishra, S., Jaiswal, K.	Biotechnological Innovations for Sustainable Biodiversity and Development
Detection of Foodborne Pathogens in Meat and Meat-Based Products	Ranjan, H., Bhardwaj, N., Peter, L., Dulta, K., Aman, J., Iqbal, H.	Ensuring Wellness: Immunosensors Monitoring Food Quality and Pathogenicity Risks
A Machine Learning-based Smart Water Management Framework for Agricultural Irrigation using a Stacked Ensemble Model	Kannan, N., Krishna, E., Josephson, P.J., Kant, R., Rathnamma, M.V., Bharathi, A.	Proceedings of 5th International Conference on Trends in Material Science and Inventive Materials, ICTMIM 2025
Fodder quality analysis of Hippophae salicifolia D. Don (Seabuckthorn) in the Western Himalayas of India	Nangla, S., Sankhyan, H.P., Rana, N., Ahluwalia, S., Thakur, S., Rachappanavar, V., Sharma, S.	Plant Genetic Resources: Characterisation and Utilisation
Deep learning approach for food science and bioprocess optimizations	Kumar, A., Pillai, M., Khanal, S., Mishra, E., Kumar, D., Roy, S., Biswas, D.	Artificial Intelligence in Food Science: Transforming Food and Bioprocess Development

2025 publication title	Authors (as exported)	Source
Synergistic effects of planting geometry and integrated nutrient management on pigeon pea growth, yield and soil health	Pallavi, Singh, A., Sarkar, S., Thakur, S.	Plant Science Today
Climate action: Impact of precision farming technologies on the sustainable conservation and management of its resources and nature preservation	Manikanta, L., Sougandhika, G., Singh, A., Sarkar, S., Thakur, S.	Plant Science Today
Blast Disease of Finger Millet: A Major Threat to Nutritional Security	Bhatt, B., Pandit, D., Sharma, G., Nandni, S.	MILLETS: Exploring the Underutilized Potential for Sustainable Agriculture
Advanced Mutagenesis Techniques for Climate Resilient Crops	Maan, S.S., Aayesha, Roushan, P., Sharma, S., Sharma, V., Sharma, A.	Innovations in Climate Resilient Agriculture
BUBMO-based Bi-GRU-CNN model for crop classification with improved feature set: A bigdata perspective	Sharma, S., Sharma, D.D., Sharma, A., Manas, M.	Network: Computation in Neural Systems
Genome Editing of Plant Hormone Signaling Pathways to Abiotic Stress Tolerance	Singh, S., Sharma, I., Kumar, P.	Phytohormones: Important Player in Combating Plant Abiotic Stress
Comprehensive Insight on Root Rot Disease of Apple	Mukesh, Kumar, A., Kumar, P.	Biotechnology for Fruit, Vegetable and Spice Crops
Advancement in the Micropropagation of Temperate Nut Crops	Singh, J., Pandey, K., Verma, P., Sharma, V., Gaikwad, P., Sharma, A., Kumar, P.	Temperate Nut Crops: Cultivation, Science, and Innovation

4.2 How the research portfolio relates to SDG 2

Research theme	Potential contribution to SDG 2	Interpretation
Crop improvement and resilience	Support stable production under pests, diseases and environmental stress.	Research contribution; not proof of yield gains unless field outcomes are documented.
Soil health, biochar and biofertilisers	Improve soil conditions and nutrient availability while supporting sustainable production.	Evidence of research activity; adoption and farm-level impacts need separate records.
Food technology and preservation	Reduce post-harvest losses and improve processing, safety and shelf life.	Relevant to food availability and quality; quantified waste reduction not supplied.
Nutritional and functional foods	Explore nutrient-rich ingredients, food composition and potential health value.	Research contribution; not a substitute for measured community nutrition outcomes.
Agricultural waste valorisation	Turn residues or by-products into useful materials and reduce resource loss.	Supports circular approaches; commercial scale and food-security impact need verification.

5. Education, Skills and Agricultural Knowledge

Shoolini University contributes to SDG 2 through formal agricultural education, interdisciplinary learning and knowledge exchange with farming communities. The B.Sc. (Hons.) Agriculture programme provides undergraduate education in scientific crop management, soil science, plant breeding, agricultural economics and sustainable farming, with practical learning through university farmland and field-based experiences. The University also offers M.Sc. Agriculture specialisations, including Agronomy, Genetics and Plant Breeding, and Soil Science and Agricultural Chemistry, supporting advanced knowledge in crop production, soil health and agricultural research. These

programmes build academic and practical capabilities relevant to sustainable agriculture, food production and long-term food security.

For the 2025 reporting cycle, the documented farmer workshop provides a clear example of knowledge exchange beyond campus, connecting agricultural expertise with local farming needs. The University's educational programmes and community engagement together provide a foundation for strengthening agricultural skills and promoting sustainable farming practices.

6. Partnerships and Research Translation

Shoolini University signed Memorandam of Understanding (MoUs) that contributes to SDG 2. The agreements provide evidence of institutional collaboration frameworks in agricultural knowledge dissemination, mushroom research, farmer welfare and rural education. The agreement dates and validity clauses are therefore reported explicitly below.

MoU relevance and validity review

• ICAR–Directorate of Mushroom Research, Solan: signed on 27 April 2022. The agreement states that it remains in operation for ten years or until either party gives notice of termination; this is the strongest direct fit among the supplied documents because it establishes a framework for collaborative research, postgraduate research guidance, laboratory facilities and intellectual-property arrangements.

• Agro-Environmental Education & Farmers Welfare Society (A.E.E.F.W.S.): signed on 22 February 2022 and expressly valid from 23 February 2022 to 2025. Its scope includes agricultural research and training, curriculum inputs, internships, skill development and farmer-welfare-related work

• Just Agriculture – The Magazine: signed on 22 February 2022 and expressly valid from 23 February 2022 to 2025. Its scope includes research dissemination, agricultural writing, expert talks, faculty development and student opportunities.

• Mahatma Gandhi National Council of Rural Education (MGNCRE): signed on 24 February 2020 and stated to be valid for five years, with renewal possible by mutual agreement.. The stated scope focuses on rural management education, curriculum, workshops and faculty development; its SDG 2 relevance is indirect.

A 2025 project for upcycling brewers' spent grain as a sustainable source of beta-glucan, with nutraceutical characterisation and potential use in prebiotic and encapsulation applications. This is relevant to food by-product utilisation and food technology.

7. Community Food Sharing and Campus Service

- Serving with Smiles: Sandwich and Brownie Sewa

On 4 October 2025 at Pine Court, Shoolini University Campus, as part of Daan Utsav 2025.“Serving with Smiles: Sandwich and Brownie Sewa at Shoolini University” an event took place. This aligns the activity with SDG 2 – Zero Hunger, SDG 3 – Good Health and Well-being, SDG 10 – Reduced Inequalities and SDG 17 – Partnerships for the Goals. Students prepared sandwiches and brownies and served food to university staff, including guards, housekeeping personnel and other support teams. The Jagriti record lists 20 volunteers and 200 participants. The activity is documented as an expression of gratitude, food sharing and community care.

The initiative provides a direct, small-scale example of food sharing within the university community. It also offered students a practical opportunity to participate in service and reflect on the contributions of campus support staff. The source records 200 participants but does not specify the number of food portions served, quantities prepared, costs, or whether participant totals correspond to unique food recipients. Those measures have therefore not been inferred.

Photographic evidence from the Jagriti Community Projects 2025 report



Students and members of the campus community share food during the Sandwich and Brownie Sewa.



Participants at the Sandwich and Brownie Sewa activity documented in Jagriti 2025.



Photographic record of the campus food-sharing initiative.

8. Conclusion

In 2025, our documented contribution to SDG 2 is evidenced through agricultural research, academic capacity and direct engagement with farming communities. The February farmer workshop demonstrates a practical route for connecting expert knowledge with local production challenges, while the Scopus export shows a substantial research portfolio spanning crop resilience, soil health, sustainable agriculture, food technology and nutrition. These contributions align with Zero Hunger by addressing the knowledge and innovation systems that underpin sustainable food production and food quality.

We will continue to strengthen our SDG 2 evidence by pairing activity and research records with outcome measures where available. Priority indicators include farmers reached and followed up, soil tests completed, adoption of recommended practices, crop or post-harvest outcomes, student

participation, food waste diverted, and verified food-access or nutrition outcomes. This will help us report both what we deliver and what changes as a result.

Annexure A. Signed MoU Documents Reviewed-

The following pages reproduce the supplied MoU documents as evidence attachments. They are included for traceability; their inclusion does not imply that each agreement remained active throughout 2025 or that activities were delivered under it. Validity is described in Section 6 of the report based on the clauses visible in the supplied copies.

Annexure A1. Shoolini University and ICAR–Directorate of Mushroom Research

MEMORANDUM OF UNDERSTANDING

BETWEEN

Shoolini University of Biotechnology and Management Sciences Solan (H.P.)

and

ICAR-Directorate of Mushroom Research, Chambaghat, Solan–173213, Himachal Pradesh

PREAMBLE

This Memorandum of Understanding between Shoolini University of Biotechnology and Management Sciences, Solan (H.P.) {hereinafter called Shoolini University short name} with its headquarter at Solan (HP) as 1st party and the ICAR-Directorate of Mushroom Research (hereinafter referred to as ICAR-DMR) with its headquarter at Solan as the 2nd Party. Whereas the Parties which wish to establish a friendly relationship to promote and accelerate the programmes of academic cooperation and collaborative research in the areas of mutual concern, have decided to enter into this MoU and agree, hereby as per articles given below:

ARTICLE

The parties, hereby, agree to promote the development of cooperation with their responsibilities as under:

i) All disciplines to which admission are made in the post-graduate programme by the Shoolini University shall be open for collaboration under the MoU provided the proposed research aspect is covered in the mandate of the ICAR-DMR.

ii) Major Advisor shall be from Shoolini University. The number of students allocated to the Major Advisor normally may not exceed two at a given time, irrespective of the nature of degree programme (Master's or Doctoral). However, Shoolini University. may decide and take final decision in this regard based on the requirement, available manpower and research infrastructure.

iii) The ICAR-DMR would be expected to make reasonable contribution in the form of intellectual input to the student's research problem and may not merely serve as a source of providing samples/facilities for the study.

iv) If the PG students' research requires major collaborative inputs from the ICAR-DMR, in terms of scientific guidance, laboratory facility and field facilities for research, the Co-guide shall be from ICAR-DMR.

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v) The students shall complete the course work in the Shoolini University, as per approved academic programme.

vi) For PG students working at ICAR-DMR, research work shall be decided in consultation with the Co-guide at ICAR-DMR. The necessary costly chemicals/consumables, if required, shall be provided by the Institute where the research is being carried out.

vii) The Co-guide from ICAR-DMR shall be having Ph.D. qualification and fulfilling other Shoolini University requirements for guidance Post-Guidance research students.

viii) The ICAR scientists pursuing their Ph.D. degrees after completing their Ph.D. course work at Shoolini University may be allowed to do their research work at the Institute where they are posted, in view of shortage of scientists/facility.

ix) If a students registered with Shoolini University intends to carry out the research work at ICAR-DMR, latter may not charge any fee from the registering Institution/students, except the hostel accommodation charges, etc. However, if a student registers with Shoolini University after qualifying through competitive mode of ICAR's. All India Entrance Examination for Admission to Master's/Ph.D. and is awarded fellowship for pursuing Master's or Doctoral degree programme by any sponsoring institution [e.g. ICAR-JRF/ICAR-SRF/CSIR-UGC-JRF/CSIR-SRF], the contingency grant awarded to the student may be transferred to the institution where major part of the research work would be carried out and regulated by the provisions contained in the guidelines of sponsoring institution.

x) The students will complete the research credit hours as per the rules of the Shoolini University. At the end of each semester involving collaborative research work, the major advisor shall send the student's research progress report in consultation with the Co-guide from the ICAR-DMR.

xi) The student shall be required to submit 'No Dues Certificate' from the Co-guide from ICAR-DMR before the submission of thesis.

xii) The student shall submit a copy of his/her thesis to the ICAR-DMR Library.

xiii) ICAR-DMR, Solan and Shoolini University will share their laboratory facilities for a purpose of collaborative research projects and the IPR generated in the project will be shared by ICAR-DMR and Shoolini University

xiv) The fee structure as per the ICAR guidelines No.2-8/2012-HRD dated 11th December 2012 will be applicable i.e. Rs.20,000/- for three months research or dissertation and Rs.30,000/- for more than three months.

ARTICLE-II

i) The student would invariably be the senior author for the publications arising out of the research work conducted at Shoolini University /ICAR-DMR followed by Major Advisor/Co-Guide in that order depending upon the contribution. The names of

additional co-authors, depending upon their contribution in the research work, may be decided by mutual consent between the student and Major Advisory/Co-Guide.

ii) Both the parties may ensure that for the students admitted in the year 2020-21 & onward for submission of Ph.D. thesis one research paper should have been accepted/presented in national/international/symposium/conference/seminar or one patent submitted/filed in lieu of the research publication out of the thesis work.

ARTICLE-III

i) The student will be expected to protect the Intellectual Property Rights generated likely to be generated during his/her research work. Intellectual property and benefits arising out of commercialization of technologies generated out of co-operation under his agreement shall be jointly shared by Shoolini University and ICAR-DMR.

ii) The IPR generated in the collaborative research between ICAR-DMR, Solan and Shoolini University will be shared by both the parties.

ARTICLE-IV

The parties to this MoU may, by mutual consent, add, modify, amend or delete any word, phrase, sentence, or article in this MoU at any time during the operation of MoU.

ARTICLE-V

The MoU shall be effective from the date of its signing by both the parties and shall remain in operation for ten years or until either party serves notice on the other of its intention to terminate it, in which event; the MoU shall stand terminated at the end of one calendar month from the date of issue of such a notice.

ARTICLE-VI

The parties would act strictly accordingly to the relevant provisions of law while implementing this MoU. In case of any dispute that may crop up during execution of MoU the matter would be settled through arbitration by referring it to a committee appointed by the Vice-Chancellor Shoolini University and Director, ICAR-DMR, Solan.

IN WITNESS, where of, the two Parties hereunder signed this Memorandum of Understanding on the dates indicated below:

Prof P.K. Khosla
Chancellor
(Signature of Authorized Representative of Shoolini University with name & address)

Chancellor
Shoolini University of Biotechnology and Management Sciences
Solan - 173212 (H.P.)

Date:: 27-04-2022

Place: Solan

Dr V.P.Sharma
Director
(Signature of Authorized Representative of ICAR-DMR with name & address

निदेशक / Director
भाकृअनुप - खु.अनु. नि. / ICAR-DMR
)/C/Ghat Solan (HP)

Date: 27-04-2022

Place: Solan

Annexure A2. Shoolini University and Agro-Environmental Education & Farmers Welfare Society

MEMORANDUM OF UNDERSTANDING
BETWEEN
Shoolini University, Solan, Himachal Pradesh
AND
Agro Environmental Education & Farmers Welfare Society (A.E.E.F.W.S.)

This Memorandum of Agreement between the Shoolini University, Solan, Himachal Pradesh and A.E.E.F.W.S. is intended to facilitate a collaborative program of research, training, curriculum, institutional development, information dissemination, and exchange of faculty, students and staff. The linkage hereby formed shall further strengthen each partner institution's objectives as well as the mutual relationship between the partners.

About A.E.E.F.W.S.-

Agro Environmental Education & Farmers Welfare Society (A.E.E.F.W.S.) was founded in 2021. It is an autonomous research and educational organization registered under Society Registration Act XXI of 1860 bearing the Registration No. 255 during 2020-21. It is a scientific and educational organization, working in the field of agriculture, environment and farmers welfare for sustainable development and provides a unique platform to the scientists, academicians, researchers and policy makers for exchanging their ideas, encouraging research and disseminating knowledge of Agro Environment in the society.

A.E.E.F.W.S. is one of the largest networks of agriculture and allied sector professionals in India and acts as a bridge between a network of Indian rural communities and other stakeholders, including government, development organizations and corporate entities. A.E.E.F.W.S. does this through large-scale field implementation projects with integrated deployment of technological innovation for efficiency and scale. Till now, 5 Vice-Chancellors, 12 Directors, 30 Principal Scientists, 145 Professor and Assistant Professor's, 350 PhD Scholars and more than 2500 experts from various specializations of Agriculture, Veterinary and other sciences from 27 States of India and 9 Countries across the globe have contributed in A.E.E.F.W.S. projects to enhancing livelihood opportunities for more than one million farmer households. We are also supplying citrus, eucalyptus, flower seed indigenously. Seedlings production is done at our farm at 40 acres. We have a good facility for seedling preparation, seed processing, grading, packing and export. Seed quality assessment is done at each level of seed sale.

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Now therefore, in consideration of the mutual promises set forth in this MoU, the parties here to agree as follows:

CLAUSE 1 CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Shoolini University, Solan, Himachal Pradesh and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.2 Shoolini University, Solan, Himachal Pradesh and A.E.E.F.W.S. co-operation will facilitate effective utilization of the intellectual capabilities of the faculty Shoolini University, Solan, Himachal Pradesh providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry.

1.3 The general terms of co-operation shall be governed by this MoU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MoU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2- SCOPE OF THE MoU

2.1 The budding graduates from Shoolini University, Solan, Himachal Pradesh could play a key role in technological up-gradation, innovation, and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

2.2 Curriculum Design: A.E.E.F.W.S. will share in inputs to the Shoolini University, Solan, Himachal Pradesh in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.

2.3 Industrial Training & Visits: Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the A.E.E.F.W.S. to permit the Faculty and Students of the Shoolini University, Solan, Himachal Pradesh to visit its group companies and also involve in Industrial Training Programs for the Shoolini University,

Solan, Himachal Pradesh. The industrial, field training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The A.E.E.F.W.S. will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the Shoolini University, Solan, Himachal Pradesh.

2.4 Internships and Placement of Students: A.E.E.F.W.S. will actively engage to help the delivery of the Internship and placement of students of the Shoolini University, Solan, Himachal Pradesh into internships/jobs.

2.5 Research and Development: Both Parties have agreed to carry out the joint research activities in the fields of A.E.E.F.W.S. specializations, activities and services

2.6 Skill Development Programs: A.E.E.F.W.S. will help to train the students of Shoolini University, Solan, Himachal Pradesh on the emerging technologies in order to make them industry ready.

2.7 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein

2.8 There is no financial commitment on the part of the Shoolini University, Solan, Himachal Pradesh and **Agro Environmental Education & Farmers Welfare Society (**A.E.E.F.W.S.**)** to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3 INTELLECTUAL PROPERTY

3.1 Nothing contained in this MoU shall, by express grant, implication, or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

CLAUSE 4 VALIDITY

4.1 This Agreement will be valid from **23-02-2022 to 22-02-2025** on mutually agreed terms, during which period Shoolini University, Solan, Himachal Pradesh and **Agro Environmental Education & Farmers Welfare Society (**A.E.E.F.W.S.**)** as the case may be, will take effective steps for implementation of this MOU.

4.2 Both Parties may terminate this MoU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

CLAUSE 5- RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that Shoolini University, Solan, Himachal Pradesh are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the Solan Jurisdiction. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Solan Jurisdiction.

For and on behalf of for and on behalf of-

For A.E.E.F.W.S.

22.2.2022

D.P.S. BADWAL
President, **A.E.E.F.W.S**
Killa Baroon, Near Chandigarh Byepass,
Hoshiarpur, Punjab-146001-INDIA

Witness:

For Shoolini University, Solan:

22.2.22

Prof PK Khosla
Chancellor
Kasauli Hills, Solan

Witness:

Annexure A3. Shoolini University and Just Agriculture – The Magazine

MEMORANDUM OF UNDERSTANDING
BETWEEN
SHOOLINI UNIVERSITY, SOLAN, HIMACHAL PRADESH
AND
JUST AGRICULTURE-The Magazine

This Memorandum of Agreement between the Shoolini University, Solan, Himachal Pradesh and Just Agriculture-the magazine is intended to facilitate a collaborative program of research, curriculum, institutional development, information dissemination, and exchange of faculty, students and staff. The linkage hereby formed shall further strengthen each partner institution's objectives as well as the mutual relationship between the partners.

About Just Agriculture- the magazine-

The India's most rising Agriculture magazine- **JUST AGRICULTURE** with more than 28000 readers in India. The magazine was started in September 2020 with an objective of Bridging the Knowledge Gap between Farmers and Scientists & Transformed youths transforming farming. JUST AGRICULTURE-magazine & Newsletter (e-ISSN: 2582-9149) is an open access peer reviewed e-MAGAZINE. The MAGAZINE and NEWSLETTER is providing a platform to all the researchers, students, scholars and scientists to share their ideas about latest innovative topics. This would help in disseminating scientific information and latest findings among the scientific community related to agriculture all over the world. As, through the platform of our magazine the objective is to reach maximum early-stage innovators & entrepreneurs to transform the future of agriculture. As, huge readers across India with the objective to capture the bright and innovative ideas, solutions to the field level problems and innovative research in Agriculture Sector are connected through our magazine and newsletter.

Now therefore, in consideration of the mutual promises set forth in this MoU, the parties hereto agree as follows:

CLAUSE 1 CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their

Page 1 of 4

respective operations within the Shoolini University, Solan, Himachal Pradesh and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.2 Shoolini University, Solan, Himachal Pradesh and Just Agriculture- the magazine co-operation will facilitate effective utilization of the intellectual capabilities of the faculty Shoolini University, Solan, Himachal Pradesh providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry.

1.3 The general terms of co-operation shall be governed by this MoU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds, and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MoU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MoU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2- SCOPE OF THE MoU

2.1 The budding graduates from Shoolini University, Solan, Himachal Pradesh could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

2.2 Special Issue/Competition: Just Agriculture-magazine will organize 'National Article Writing Competition' with Shoolini University, Solan, Himachal Pradesh which will help Shoolini University students to publish their articles, improve the writing skills. Event will help the students to learn about publishing of popular/technical articles and career guidance from our senior guests.

2.3 Conferences/Webinar: Just Agriculture-magazine will organize FDP and Expert Talks to train the Faculties of Shoolini University, Solan, Himachal Pradesh for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.

2.4 Internships and Placement of Students: Just Agriculture-magazine will actively engage to help the delivery of the Internship and placement of students of the Shoolini University, Solan, Himachal Pradesh into internships/jobs.

2.5 Guest Lectures: Just Agriculture-the magazine to extend the necessary support to deliver guest lecturers to the students of the Shoolini University, Solan, Himachal Pradesh on the technology trends and in house requirements.

2.6 Faculty Development Programs: Just Agriculture-magazine will organize FDP and Expert Talks to train the Faculties of Shoolini University, Solan, Himachal Pradesh for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.

2.7 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein

2.8 There is no financial commitment on the part of the Shoolini University, Solan, Himachal Pradesh and Just Agriculture-magazine to take up any program mentioned in the MoU.

CLAUSE 3 INTELLECTUAL PROPERTY

3.1 Nothing contained in this MoU shall, by express grant, implication or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

CLAUSE 4 VALIDITY

4.1 This Agreement will be valid from **23-02-2022 to 22-02-2025** on mutually agreed terms, during which period Shoolini University, Solan, Himachal Pradesh and Just Agriculture-magazine, as the case may be, will take effective steps for implementation of this MoU.

4.2 Both Parties may terminate this MoU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

CLAUSE 5- RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that Shoolini University, Solan, Himachal Pradesh are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at courts of Solan. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Solan Jurisdiction.

For and on behalf of for and on behalf of-

For Shoolini University: -

Prof. PK Khosla 22.2.2022
Chancellor
Kasauli Hills, Solan

For Just Agriculture magazine.

22.2.22.

D.P.S. BADWAL
C.E.O.
Killa Baroon,Near Chandigarh Byepass,
Hoshiarpur, Punjab-146001-INDIA

Witness:

Witness:

Annexure A4. Shoolini University and Mahatma Gandhi National Council of Rural Education

Memorandum of Understanding

Between

Shoolini University and Mahatma Gandhi National Council of Rural Education

Shoolini University of Biotechnology and Management Sciences (hereafter referred as First Party or SUBMS), a private University established by the act of Himachal Pradesh Govt. in 2009 having its registered office at Solan (HP). The University was established with the aim to impart quality education and holistic approach to research.

The six faculties of the university: Pharmaceutical Sciences, Biotechnology, Engineering & Technology, Management & Liberal Arts, Agriculture and Basic Sciences are unified by a research driven model to develop a center of excellence and high-quality workforce to suit the requirements of the Industry and Community. The vision of the university is to be amongst the top 200 global universities in next 10 years. Shoolini University's Citational Research Data, especially Field Weighted Citation Index is rubbing shoulders with International Universities. Its mission includes developing students who will be recruited by the best employers and who will contribute to the economic vitality of the state and country.

AND

Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Human Resource Development, Government of India and having its registered office at Shakkar Bhavan, Fateh Maidan Road, Basheerbagh, Hyderabad (Hereinafter referred to as MGNCRE) (As Second Party) which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors.

Established in 1995 by the Government of India under the Union Ministry of Human Resource Development, the MGNCRE, founded by the Late Prime Minister Shri P V Narasimha Rao, seeks to usher in rural change and inclusive growth as a catalyst organization. The MGNCRE interfaces with rural institutes of higher learning like Rural Universities, Rural Development Institutes, National Rural Livelihoods Mission and State Livelihood Action Units. Human Resource Development is our operational framework and Human Development is the goal. Sab Ka Sath Sab Ka Vikas would be the guiding philosophy and strategy of MGNCRE, as enunciated by the Prime Minister of India.

1. Whereas SU and MGNCRE are interested in entering into an MoU with a view of sharing a Common desire to explore extend and strengthen the mutual relationship with well-established academic and Research & Development set up in order to share the facilities and expertise available with each of them, herewith sign this MoU on the Understanding stated in the subsequent paragraphs. Whereas MGNCRE has come forward to sign an MoU with SU to offer the courses at the UG & PG levels in the areas of Rural Management.

2. Responsibilities of MGNCRE

(a) Providing the course curriculum developed by the institute.

(b) Providing the online course content to the students and faculties of SU.

(c) Allow SU students to participate in workshops and faculty members to participate in FDPs organised by MGNCRE.

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(d) Providing the opportunities of industry-academic meet to the students and faculty members of SU.

(e) Helping the students for arranging Summer Internships and Placements.

(f) Displaying the MoU and Logo in their website.

3. Responsibilities of SU

(a) Introduce the Rural Management course at the Bachelors and Masters levels in the university.

(b) Promote the course.

(c) Utilise the course content, curriculum developed by the MGNCRE.

(d) Participate in workshops and FDPs organized by the MGNCRE, free of cost.

4. Both the parties seek to enhance relationships and recognize the benefits to be derived from increased collaboration, cooperation and interaction for further promotion.

5. On behalf of First Party Dean, School of Business Management and Liberal Arts will be the point of contact for further correspondence.

6. On behalf of Second Party Dr. Rajeswar Jonnalagadda, Director, Rural Management Program will be the point of contact for further correspondence.

7. This Memorandum of Understanding shall enter into force on the basis of goodwill and shall not be legally bound.

The MoU is valid for a period of five years from the date of signature by both the parties and may be renewed for any other period as shall be agreed on in between the parties. If either Party does not wish to continue this MoU, then such Party provide the other Party of its intention to terminate this MoU, by giving 3 (three) months' notice in writing.

1st Party
Signature

Name: Prof Prem Kumar Khosla
Designation: Vice Chancellor
Address: Shoolini University, Post box no.9
Head Post Office The Mall Solan
173212, Himachal Pradesh

Place: - Solan
Date: - February 24, 2020

2nd Party
Signature

Name: Rajeswar Jonnalagadda
Designation: Director, Rural Management Program
Address: Shakkar Bhavan, Fateh Maidan Road,
Basheerbagh, Hyderabad – 500004

Place: - Solan
Date: - February 24, 2020

Witnesses:

1. Name.....
   Designation.....

   Signature.....

2. Name.....
   Designation.....

   Signature.....

2