



Sher-e-Kashmir
University of Agricultural Sciences & Technology of Kashmir
Main Campus Shalimar Srinagar - 190025

University Order No: 445 (Est.) of 2026
Dated: 07.07.2026

University has established a Solar Powered Based Automatic Micro Irrigation System under HADP-17 Sensor-Based Smart Agriculture Project at Shalimar Campus with the objective to promote precision agriculture through sensor technologies, automation & fertigation, artificial intelligence, real-time monitoring, data-driven decision support systems and climate resilient farming practices.

Accordingly, it is hereby ordered that the following scientific, technical and supporting staff shall be entrusted with the roles & responsibilities as indicated against each in addition to their own duties, for effective management, operation, maintenance, monitoring and dissemination activities under the project;

Coordinator	Prof. Rohitashw Kumar, Associate Dean, CoAE&T, Shalimar	Overall administrative, technical and operational supervision of the project
Co-coordinators	Dr. Ashiq Pandit, Prof. & Head, Division of Fruit Science, FoH, Shalimar	- To ensure proper operation, maintenance and upkeep of all project components & infrastructure, - To ensure timely identification and reporting of faults, damages and system failures; - Supervise functioning of the platform and associated field Units; - To ensure protection and proper utilization of project assets; - To fix responsibility in cases of negligence, misuse or mishandling of equipment and infrastructure; - To recommend recovery of losses, wherever applicable as per University norms.
	Dr. Ishfaq Ahmad Abidi, Prof. & Head, Division of Vegetable Science, FoH, Shalimar	
	Dr. Qazi Altaf Hussain, Prof. & Head, Division of FLA, FoH, Shalimar	
Core Scientific Team	Dr. Showkat Rasool, Assistant Professor-cum-Junior Incharge, CAIML, CoAET, Shalimar	- Supervision of main and sub-control Units and their operation & maintenance; - Collection, handling and analysis of data and development of AI algorithm - Water and nutrient distribution in all experimental field.
	Dr. Saba Parvaze, Assistant Professor-cum-Junior Scientist, CoAE&T, Shalimar	
	Dr. Abdul Rouf Khan, Assistant Professor-cum-Junior Scientist, CAIML, Shalimar	
	Dr. Mudasir Ali, Associate Professor-cum-Senior Scientist, CoAE&T, Shalimar	Energy quantification and performance evaluation of on-grid solar systems
	Dr. M.I.Maqdooni, Professor-cum-Chief Scientist (CAS), Division of Vegetable Sciences, FoH, Shalimar	Management of crop protected system w.r.t. maintenance, operation of polyhouses and data collection
	Dr. Gazala Nazir, Assistant Professor-cum-Junior Scientist, Division of Vegetable Science, FoH, Shalimar	

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	Dr. Rizwan Rashid, Assistant Professor-cum-Junior Scientist, Division of Vegetable Science, FoH, Shalimar	• Operation and maintenance of the drip irrigation system in Open Field and data collection.
	Dr. Mohammad Mudasir Magray, Assistant Professor-cum-Junior Scientist, Division of Vegetable Science, FoH, Shalimar	
	Dr. Shabir Ahmad Bangroo, Professor-cum-Chief Scientist, Division of Soil Science, FoH, Shalimar	Soil Health and nutrient management data collection and coordination with all division
	Dr. Amarjeet Singh Sounduri, Professor-cum-Chief Scientist (CAS), Division of Fruit Science, FoH, Shalimar	Operation and maintenance of drip irrigation system of Apple Orchards
	Dr. Mohammad Amin Mir, Professor-cum-Chief Scientist (CAS), Division of Fruit Science, FoH, Shalimar	
	Dr. Amit Kumar, Professor-cum-Chief Scientist, Division of Fruit Science, FoH, Shalimar	
	Dr. Z.A. Bhat, Professor, Division of FLA, FoH, Shalimar	Nursery management and automated polyhouse operations in Floriculture
Skilled Operators	1. Mr. Ummer Mushtaq Ganie, FCLA, CoTS, Mirgund deployed at Vehicle Pool, Shalimar	Deployed on full time basis to operate & maintain the main Central Unit and the water reservoirs under the project/scheme.
	2. Mr. Rizwan Hamid Dar, FCLA, FoA, Wadura	
	3. Mr. Arjun Singh, Mechanic, CoAE&T, Shalimar	
	4. Mr. Mohammad Farooq, FCLA, Division of Vegetable Science, FoH, Shalimar	To Assist the Scientific Team in operation, maintenance, Monitoring, upkeep of project infrastructure, field experimentation, training programmes, demonstrations and data collection activities in their respective fields.
	5. Mr. Farooq Ahmad Rather, FCLA, Division of Vegetable Science, FoH, Shalimar	
	6. Mr. Bashir Ahmad, FCLA, Division of Fruit Science, FoH, Shalimar	
	7. Mr. Wani Barkatul Islam, FCLA, Division of FLA, FoH, Shalimar	
Supporting staff	Mr. Hilal Ahmad, Gardener, Division of FLA, FoH, Shalimar	
	Mr. Khurshid Ahmad Khanday, Gardener, Division of FLA, FoH, Shalimar	
	Mr. Mohammad Shafi, Gardener, Division of Vegetable Science, FoH, Shalimar	
	Mr. Fayaz Ahmad Mir, Lab. Attendant, Division of Vegetable Science, FoH, Shalimar	

The Heads of Divisions of Fruit Science/Floriculture Landscape & Architecture/Vegetable Science, FoH, Shalimar shall prepare the inventory of all equipment/machinery items- of drip irrigation system in their respective fields and shall be responsible for any damage/theft thereof.

The CAIML shall be responsible for curation and management of data.

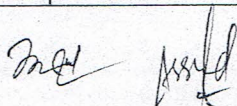
 

Operational Guidelines:

The Project Team shall ensure achievement of the following key performance indicators:

- I. System Execution and Stabilization:
 - 100% functional validation of installed systems.
 - Bi-annual calibration of sensors and equipment.
 - Preparation and implementation of SOPs and operational manuals.
- II. Monitoring and Data Management:
 - Continuous data generation round the year
 - Maintenance of data accuracy within +5%
 - Centralized database and dashboard management
- III. Analysis and Research Outputs:
 - Comparative assessment in major crops.
 - AI based algorithm for different parameter
 - Saving in fertilizer and irrigation water (Quantified)
 - Development of analytical modules for irrigation scheduling, crop-water relations and climate interactions.
 - Generation of research publications, technical manuals and advisories.
- IV. Artificial Intelligence and Deep Learning Applications:
 - Development of AI-enabled predictive and advisory models.
 - Establishment of real-time Decision Support Systems (DSS).
 - Utilization of large datasets for model development and validation.
- V. Outreach and Capacity Building:
 - Conduct training programmes for farmers, students and stakeholders.
 - Establish demonstration units for technology dissemination.
 - Promote adoption of smart agriculture technologies.
- VI. Reporting and Documentation:
 - Submission of monthly progress reports.
 - Documentation of project outcomes, achievements and impacts.
- VII. Sustainability and scaling:
 - Development of scalable and economically viable smart agriculture models.
 - Resource generation through training, consultancy and collaborative projects.
 - Replication and expansion of the model across multiple locations and cropping systems.
- VIII. Output and deliverables:

Area	Target
Planting material	2 lakh plants
Research Publication	20+ annually
Technologies	5+ year
Startup	2-3 annually
Trained person	500 per year



The Principal Investigator & Coordinator shall in consultation with the executing agency prepare the inventory and layout/blueprint of all the installations, and also the Operational Manual of the system(s). Moreover, the Coordinator shall submit periodic progress reports to the Competent Authority and ensure that all activities are carried out in accordance with the objectives of the project and University regulations. The Scientific staff associated with the project may utilize the services of Project Fellows, Research Associates and other project personnel available under externally funded projects running under their supervision, subject to the norms governing such projects and with the approval of the Competent Authority.

The Operational Guidelines of the project are appended herewith as Annexure-I to this Order.

By Order

Sd/-
(Prof. Azmat Alam Khan)
Registrar

No: AU/Adm/MF/AE-52/21/7393-7437

Dated: 07.07.2026

Copy to the:-

- All Officers of the University _____
- ✓ • Professor Incharge, ARIS, Shalimar for placing the Order on University website
- All concerned Heads of Divisions _____
- All concerned _____
- Secretary to Vice-Chancellor, SKUAST-K, Shalimar
- University Order File (w.3.s.c.)


(Javaid Ahmad Bhat)
Assistant Registrar (T)

07/07/26