



ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು  
ಸಂಶೋಧನಾ ನಿರ್ದೇಶನಾಲಯ, ಗಾ.ಕೃ.ವಿ.ಕೆ, ಬೆಂಗಳೂರು - 560 065.

ಸಂಖ್ಯೆ: ಸಂ.ನಿ./ಮುಖ್ಯಅ/ತಾಂಮೌ/2022-23

ದಿನಾಂಕ:20.02.2023

ಸುತ್ತೋಲೆ

2023-24ನೇ ಸಾಲಿನ ಅನುದಾನದ ಲಭ್ಯತೆಯನ್ವಯ ಸಂಶೋಧನಾ ನಿರ್ದೇಶನಾಲಯದ ತಳಿ / ತಾಂತ್ರಿಕತೆ ಅಭಿವೃದ್ಧಿ ಹಾಗೂ ಮೌಲ್ಯವರ್ಧನೆ, ಹವಾಮಾನಚತುರ ಕೃಷಿ ಮತ್ತು ರೈತ ಕೇಂದ್ರಿತ ಅವಶ್ಯಕ ಬೇಡಿಕೆಗಳ ಪ್ರಾಯೋಜನೆಯಡಿಯಲ್ಲಿ ಬಹು ವಿಭಾಗ ಅಧ್ಯಯನ (Multidisciplinary) ಸಂಶೋಧನಾ ಪ್ರಾಯೋಜನೆ ಪ್ರಸ್ತಾವನೆಗಳನ್ನು ಈ ಕೆಳಕಂಡ ನಿರ್ವಹಣಾ ವಿಷಯಗಳತ್ತ ಕೇಂದ್ರೀಕೃತವಾಗಿರತಕ್ಕದ್ದು.

**Theme Areas:**

The proposals must be unique and modern technology based and short period oriented(< 18 months) in nature addressing the immediate field problems and burning issues faced by the farmers. The theme areas identified technologies includes Climate smart technologies, Nano technology, ICT, IOT, Machine learning, Drone technology, Robotics and agriculture produce processing small seeds and Human and animal conflict.

ಪ್ರಸ್ತಾವನೆಗಳನ್ನು ಈ ಪತ್ರದೊಂದಿಗೆ ಲಗತ್ತಿಸಿರುವ ನಿಗದಿತ ನಮೂನೆಯಲ್ಲಿ ಸೂಚಿಸಿರುವಂತೆ ಸಿದ್ಧಗೊಳಿಸಿ ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರು, ಕೃವಿವಿ, ಜಿಕೆವಿಕೆ, ಬೆಂಗಳೂರು ಇವರಿಗೆ ಸಮುಚಿತ ಮಾರ್ಗ ಮುಖಾಂತರ ದಿನಾಂಕ: 11.03.2023ರೊಳಗಾಗಿ ಸಲ್ಲಿಸಲು ತಿಳಿಸಲಾಗಿದೆ. ಮುಂದುವರೆದು, ಸುತ್ತೋಲೆ ಹಾಗೂ ಪ್ರಸ್ತಾವನೆಯ ನಮೂನೆಯನ್ನು ಕೃವಿವಿಯ ಅಂತರ್ಜಾಲದಿಂದ ಪಡೆಯಬಹುದಾಗಿದೆ (([www.uasbangalore.edu.in](http://www.uasbangalore.edu.in)))

ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರು

ಗೆ :

1. ವಿಸ್ತರಣಾ ನಿರ್ದೇಶಕರು, ವಿಸ್ತರಣಾ ನಿರ್ದೇಶನಾಲಯ, ಕೃವಿವಿ, ಜಿಕೆವಿಕೆ
2. ಡೀನ್ (ಸ್ನಾತಕೋತ್ತರ), ಕೃವಿವಿ, ಜಿಕೆವಿಕೆ
3. ಡೀನ್ (ಕೃಷಿ), ಕೃಮವಿ, ಜಿಕೆವಿಕೆ, ಮಂಡ್ಯ / ಹಾಸನ
4. ಡೀನ್ (ರೇಷ್ಮೆ ಕೃಷಿ), ಕೃಮವಿ, ಚಿಂತಾಮಣಿ
5. ವಿಶೇಷ ಅಧಿಕಾರಿಗಳು, ಕೃಷಿ ಇಂಜಿನಿಯರಿಂಗ್ ಮಹಾವಿದ್ಯಾಲಯ, ಕೃವಿವಿ, ಜಿಕೆವಿಕೆ
6. ವಿಶೇಷ ಅಧಿಕಾರಿಗಳು, ಕೃಷಿ ಮಹಾವಿದ್ಯಾಲಯ, ಚಾಮರಾಜನಗರ, ಕೃವಿವಿಬೆ
7. ಸಹ ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರು (ಕೇಂದ್ರ ಸ್ಥಾನ), ಜಿಕೆವಿಕೆ
8. ಸಹ ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರು, ವಕೃಸಂಕೇ, ವಿಸಿ ಫಾರಂ, ಮಂಡ್ಯ
9. ಎಲ್ಲಾ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರುಗಳು
10. ಎಲ್ಲಾ ಅ.ಭಾ.ಸು.ಸಂ. ಪ್ರಾಯೋಜನೆಗಳ ಮುಖ್ಯಸ್ಥರು

ತಮ್ಮ ಅಡಿಯಲ್ಲಿ ಬರುವ ಎಲ್ಲಾ ವಿಜ್ಞಾನಿಗಳ ಮತ್ತು ಶಿಕ್ಷಕರ ಗಮನಕ್ಕೆ ಸದರಿ ಮಾಹಿತಿಯನ್ನು ತಲುಪಿಸಲು ಕೋರಿದೆ

ಪ್ರತಿ :

1. ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕುಲಪತಿಗಳ ಕಾರ್ಯಾಲಯ, ಕೃವಿವಿ, ಜಿಕೆವಿಕೆ, ಬೆಂಗಳೂರು ಇವರ ಮಾಹಿತಿಗಾಗಿ
2. ಮುಖ್ಯಸ್ಥರು, ಕೃಷಿ ಜ್ಞಾನ ನಿರ್ವಹಣೆ ಘಟಕ (AKMU), ಕೃವಿವಿ, ಜಿಕೆವಿಕೆ, ಬೆಂಗಳೂರು ಇವರು ಮೇಲ್ಕಂಡ ಮಾಹಿತಿಯನ್ನು ಮತ್ತು ನಮೂನೆಯನ್ನು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಅಂತರ್ಜಾಲದಲ್ಲಿ ಅಳವಡಿಸಲು ಕೋರಲಾಗಿದೆ.

## **DETAILED THEME AREAS FOR SUBMISSION OF PROJECT PROPOSALS**

**Development / Application of ICT, IOT, Artificial intelligence, Machine Learning and Agriculture drones, its utility and feasibility for various agriculture applications in the following research areas where ever applicable.**

### **Crop Production**

- Climate smart agriculture: Developing sustainable agro-techniques for climate resilient nutri minor millets
- Nanotechnology on nutrition and plant health management
- Identifying potential alternative viable crops for rice and sugarcane in Cauvery command areas
- Potential / sustainable fodder production modules for different agro-climatic zones
- Development of organic farming modules and organic farming tools to mitigate climate change
- Bio-diversity – minor, under exploited and future crops' identification and development of their production technologies

### **Crop Improvement**

- Evolving drought tolerant varieties/hybrids in cereals, millets, oilseeds, pulses for climate resilience
- Development of large scale genomic resources for enhancing the productivity of oilseeds and pulses
- Conservation and popularization of crops with GI tag
- Biotic and abiotic stress tolerance both conventional & molecular approach including genomic and sequencing
- Biofortification of crops – protein, Zinc ,Iron, Calcium etc in pulses, oilseeds and cereals
- Finger printing and diversity studies and seed purification using markers and sequence information

### **Bio-technology**

- Crop improvement using modern biotechnological tools
- Plant and microbial bio-prospecting
- Fuel biotechnology
- Nanotechnology in agriculture

### **Soil science**

- Use of soluble, liquid and customized fertilizers for efficient nutrient management of crops
- Enhancing Soil carbon storage: identification of efficient cropping systems
- Utilization of urban waste compost in crops
- Solid waste management & environmental protection

### **Crop Protection**

- Management of pest / diseases in organic farming ecosystem
- Human and animal conflict: an ecological and social perspectives- causes and remedies
- Development of plant viral diagnostic kits & genome sequencing of pathogens
- Application of Artificial Intelligence, Agriculture drones and nano technology for the management of crop and pest diseases
- Developing appropriate integrated pest and disease management technologies for climate smart agriculture and precision farming systems

### **Economics and Agricultural Marketing**

- Creation of data base for market intelligence research
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- Market led extension & market intelligence

### **Agriculture Engineering**

- Development / Application of ICT, IOT, Artificial intelligence, Machine Learning and Agriculture drones and robotics, its utility and feasibility for various agriculture applications.
- Development of small equipment and machinery weed management and harvesting and threshing of various crops.
- Identifying / developing technology for mechanical harvesting and processing in various crops (including sugarcane).

### **Horticulture crops**

- Development of new varieties/hybrids / Exotic Horticultural crops (Pomology, olericulture and floriculture)

### **Agricultural Microbiology**

- Liquid bio-fertilizers – evaluation for their efficacy
- Strategies for improving microbial inoculants technology for enhancing crop production
- Microbial management of urban & agricultural residues
- Exploration of endophytic micro-organisms for management of biotic and abiotic stresses
- Metabolic profiling of agriculturally important micro-organisms for better utilization in crop production

### **Sericulture**

- Utilization of renewable energy in sericulture industry
- Promotion of sericulture in Eastern dry Zone of Karnataka for Eri cocoon production
- Mechanization in sericulture for energy use efficiency and drudgery reduction

### **Food Science**

- Food safety and sanitation
- Nutraceutical and functional foods to address non-communicable disorders
- Validation and commercialization of food and nutrition technologies
- Promotion of Nutri-farm at schools
- Community nutrition to assess malnutrition and nutrition security
- By product utilization

### **Animal Science**

- Fodder storage, enrichment of hay / husks with urea, pro-biotic and minerals for cattle feeding
- Establishing breeding units of indigenous sheep and goats
- Ornamental fish culture

### **Agricultural Extension**

- Ways and means of sustainability of commodity associations / groups
- Impact evaluation of university technologies
- Impact evaluation of ICT application in agriculture
- Documentation of farmers innovation in agriculture



## **Guidelines / Terms and conditions for submission of project proposals**

1. The project proposal should be submitted as per the proforma enclosed.
2. The objectives of the project should be precise and well defined indicating the likely benefits to be derived.
3. Technical programme must include a detailed activity schedule.
4. The project should be proposed in multi-disciplinary nature. Project proposals submitted in isolated mode will not be entertained.
5. The project shall be of short term nature normally maximum of two to three years.
6. The proposed research project in any way should not duplicate the research work already done and being carried out.
7. The proposed project should not be a part of already on-going project and also it should not be combined with any of the projects funded by different agencies / institutes.
8. PIs/Co-investigators must have minimum two years of remaining service for superannuation at the time of submission of the project.
9. PIs should operate the projects from the locations at which they have been sanctioned.
10. No budgetary provision will be made for non-recurring expenditures – purchase of equipment's and instruments / distribution of inputs to farmers/ beneficiaries
11. Travel grants are limited to Rs.5000 / year and no provision for vehicle hiring.
12. PI shall present the short listed project proposal before the project screening committee.
13. Amount sanctioned should be utilised for that financial year only and the bills should be submitted within the February month of financial year.
14. Projects should be implemented within two months of conveying of the sanction failing which sanctions accorded shall stand withdrawn.
15. Man power like RA, SRF, Project Assistants, Skilled Assistants etc will not be allowed under the University funded projects.
16. Project period will not be allowed beyond the duration proposed in the Detailed Project Report (DPR)
17. No permanent / regular appointments are to be made under the project.
18. Release of funds will be withheld in the event of non-receipt of reports in time or unsatisfactory progress of work.



## PROFORMA FOR SUBMISSION OF PROJECT PROPOSALS

Title of the project	
Location	
Background	
Objectives	
Collaborating Subjects/ Discipline	
Name of the PI & Co-PIs along with Bio-data	
Duration of the project	
Technical Programme / Methodology	
Budget outlay of the Project	
Expected Outcome of the project	
Justification of the project	

Date :

Signature of the Principal Investigator

Co- Principal Investigator