



ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು

ಗಾಂಧಿ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಬಳ್ಳಾರಿ ರಸ್ತೆ, ಬೆಂಗಳೂರು-560065, ಕರ್ನಾಟಕ, ಭಾರತ

UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE

Gandhi Krishi Vigyan Kendra, Bellary Road, Bengaluru-560065, Karnataka, INDIA

www.uasbangalore.edu.in

INFORMATION

Criteria3 : Research, Innovations and Extension

Key Indicator : 3.1 Promotion of Research and Facilities

Metric : 3.1.1

Metric Description : The institution's Research facilities are frequently updated and there are well defined policy for promotion of research which is uploaded on the institutional website and implemented

Write a description in maximum of 500 words

The University of Agricultural Sciences, Bangalore (UASB), follows a systematic evaluation of research activities across its departments and research schemes. The evaluation follows a three-tier process starting with the Annual Technical Meeting at the departmental level, then moving to group meetings at the divisional level (covering crop improvement, crop production, crop protection, and social sciences), and culminating in the Zonal Research and Extension Programme (ZREP) meeting every year. The outcomes of these evaluations are reviewed by the Research Council to reach conclusions and develop technologies such as the release of new crop varieties/hybrids, crop management practices, and technologies for commercialization or patenting.

UASB operates 12 research stations, all benefiting from pre-monsoon rains in April-May, allowing for summer ploughing and the enhancement of soil fertility through the addition of tank silt, farmyard manure (FYM), and green manure crops. These practices are aimed at improving soil carbon content annually. The university also maintains 16 soil testing laboratories that are instrumental in various research activities across multiple divisions. UASB is working towards National Accreditation Board for Testing and Calibration Laboratories (NABL) recognition for these labs.

The university's laboratories are well-equipped with advanced analytical instruments for soil, plant, water, and manure sample analysis. These include pH meters, digital conductivity meters, nitrogen distillation units, spectrophotometers, and Kjeldahl distillation systems. There are also numerous supporting laboratory facilities, such as fume hoods, environmental orbital shakers, centrifuges, spectrometers, and electronic balances, used for research in microbiology, pathology, entomology, and biotechnology. Additionally, UASB's molecular biology labs have equipment for PCR, RT-PCR, gel electrophoresis, and ELISA readings. The labs also include mite rearing and repository rooms, and facilities for mass production of fungal pathogens like *Beauveria brongniartii*, used against white grubs.

The university operates a Jaggery Park, featuring a complete setup for jaggery production and processing, including industrial chimneys, bagasse driers, sugarcane crushers, steam boiling pans, and packaging machines. The park is also equipped with machinery for producing jaggery powder, including horizontal flow wrapping machines, nitrogen flushing systems, and advanced weighing and packaging devices. Instruments for quality analysis, such as dehumidifiers, pH meters, and polarimeters, are also available for jaggery quality control.

UASB ensures effective field research by maintaining land equipped with chain link fencing, borewells, farm ponds, and water storage structures. Research is supported by 33 greenhouses, 43 poly houses, and 36 net houses, with some poly houses specifically designed for in vitro disease screening. The university also provides essential farm tools and implements, including tractors, power tillers, post-hole diggers, seedling transplanters, and a variety of plant protection tools. Instruments like bark gauges, digital lux meters, and soil thermometers are used for forest plant studies, while harvesting and post-harvest machinery, such as paddy reapers, maize shellers, and sugarcane trash management devices, are also available.

UASB's facilities and tools play a crucial role in advancing agricultural research and field trials, helping to produce technologies and innovations that can be commercialized or patented for wider agricultural benefit.

Details	Supporting Documents
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