SKUAST-Jammu installed Odosense for livestock farming to manage Odour effectively

Our Client

Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu (SKUAST-Jammu) was established in 1999 with a mission to advance agricultural education, research, and community support across the Jammu region. Dedicated to excellence, the university focuses on meeting regional agricultural needs, especially in agriculture, livestock health, and allied sectors. The university operates across multiple campuses and research facilities, including its 578-acre headquarters in Chatha, Jammu, and its R.S. Pura campus. With eight research stations and nine Krishi Vigyan Kendras (KVKs) located across different agro-climatic zones, SKUAST-Jammu is a hub of innovation for Jammu's farming community, addressing specific agricultural challenges through state-supported and central projects.

The Challenge

Livestock farming, integral to SKUAST-Jammu's operations, had substantial environmental challenges of bad air quality and odour. Livestock emissions include gases such as H_2S, NH_3, CH_4, and TVOCs, contributing to odour issues and greenhouse gas emissions. Additionally, noise generated by farming equipment and animal sounds required monitoring to understand its impact on animal welfare. SKUAST-Jammu needed an effective solution to monitor these emissions in real-time, allowing for better odour control, compliance with environmental standards, and efficient waste management to support their sustainability and research goals.

The Solution

To address these critical needs, SKUAST-Jammu installed Oizom's Odosense, an odour monitoring solution, on November 30, 2023. This advanced air quality monitoring system was customized with sensors to effectively monitor H_2S, NH_3, CH_4, TVOCs, CO_2, and noise levels, providing comprehensive monitoring suited for the livestock environment. The system is integrated with Oizom's Envizom platform, which provides remote access for continuous data tracking and analysis. This technology empowers SKUAST-Jammu to maintain real-time oversight of air quality and noise impacts, supporting ongoing research and aiding in effective decision-making.

Installation Details

1 Unit of
Odosense

The Result

After installing Oizom's Odosense Custom, SKUAST-Jammu has seen several notable improvements in its livestock operations. Real-time monitoring of H2S, NH3, CH4, and TVOCs emissions has allowed SKUAST-Jammu to respond promptly to odour issues, creating a more pleasant environment for animals, staff, and visitors. It also has provided valuable emission data that supports SKUAST-Jammu's ongoing research on greenhouse gas reduction, helping them work toward environmentally sustainable farming practices.

Noise monitoring has led to refined management practices, creating a better environment for animals and workers. Remote monitoring capabilities with Envizom have also reduced the need for constant physical inspections, significantly improving operational efficiency and enhancing SKUAST-Jammu's commitment to sustainability. Envizom software helped them monitor air quality and manage complaints proactively. By streamlining the process of identifying and addressing potential issues on time, it helped them mitigate risks effectively. This proactive approach fostered a safe, secure, and healthier environment for all, demonstrating the power of data-driven decision-making in environmental management.

Oizom is a company specializing in environmental monitoring solutions. They offer products to monitor air quality, weather conditions, and other environmental factors. Utilizing advanced sensor technology and data analytics, Oizom aims to provide actionable insights for construction, industrial compliance, and community awareness. Their solutions can be applied in various sectors including government, industries, and community initiatives.