

PROJECT SUMMARY

Ref No.: MRIC/IBG3-BG/P04	Title: Black Soldier Fly Mass Rearing for Manufacturing Animal Feeds and Bio-Compost Through Organic Waste Recycling
Local Institution: Sixlegs Ltd	
Collaborating Institution: Techserv Ltd	
Project Leader	
Mr Ludovic Mayer	Sixlegs Ltd
Research Collaborator(s)	
Name	Organisation
Mr Benoit Drouin	Techserv Ltd
TECHNICAL ABSTRACT SixLegs Ltd pioneers a circular economy model using Black Soldier Fly (BSF) mass rearing to transform organic waste into high-value products. This initiative addresses Mauritius' biotechnology development needs while solving critical waste management and sustainable protein production challenges. Following a successful pilot project in BSF breeding, we're now enhancing operations to analyze nutrient profiles and develop commercial products. Organic waste from industries, markets, and kitchens is converted into protein-rich insect powder for animal feed and nutrient-dense bio-compost for agricultural use. We breed the insects using optimized breeding techniques, feeding the larvae with preprocessed organic waste. Once ready, the larvae are harvested and post-processed into valuable products, such as animal feed. All residual organic matter is repurposed into high-quality bio-compost. The project's next phase focuses on: 1. Acquiring specialized equipment to establish complete production lines, 2. Rigorous quality testing of all outputs, 3. Operational validation in real-world conditions, and 4. Finalizing market-ready animal feed and organic fertilizer products. This project reduces Mauritius' dependence on imported feed ingredients while creating sustainable solutions for organic waste management.	

Key Words: Insect mass rearing, Insect-based product, Organic waste, recycling, Animal feed, Bio-fertilizer, Black soldier Fly, Insect Protein, Biotechnology