



Federal Ministry of Agriculture and Food Security
**NATIONAL CENTRE FOR AGRICULTURAL
MECHANIZATION (NCAM)**



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28th October, 2025.

The Executive Vice Chairman/Chief Executive

National Agency for Science and Engineering
Infrastructure (NASeni)
PMB 391 Idu Industrial Layout, Idogwari,
Abuja, Nigeria.

SUBJECT: Endorsement of Proposal by Engr. Dr. Awu John Ibe – “AI-Driven Precision Hydroponics Water Management System for Sustainable High-Value Horticulture”

It is with great confidence and professional assurance that I write to endorse the above proposal submitted by Engr. Dr. Awu John Ibe of the National Centre for Agricultural Mechanization (NCAM), Ilorin, Kwara State, Nigeria, for consideration under the NASeni Research and Development Commercialization Programme.

Engr. Dr. Awu John Ibe currently serves as a Chief Agric. Research Officer and the Officer-in-charge of NCAM Smart Hydroponic Farm Unit. He is an experienced researcher with extensive expertise in irrigation engineering, precision agriculture, and hydroponic system design. Over the past 12 years, he has demonstrated strong competence in the development and adaptation of smart agricultural technologies, as well as in coordinating applied research projects aimed at enhancing productivity and sustainability among smallholder farmers.

The proposal titled “AI-Driven Precision Hydroponics Water Management System for Sustainable High-Value Horticulture” reflects both his innovative capacity and commitment to indigenous technology development. The project aligns with the mandate of NCAM and NASeni to promote mechanization, automation, and local fabrication of agricultural technologies that contribute to Nigeria’s food security and industrial growth.

I therefore recommend this proposal for NASeni’s support and partnership, confident that it will produce measurable technological, economic, and environmental impacts.

Thank you for your consideration.

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