



THE FEDERAL POLYTECHNIC, ILARO

P.M.B 50, ILARO, OGUN STATE, NIGERIA

OFFICE OF THE DIRECTOR, RESEARCH AND DEVELOPMENT CENTRE (RESDEC)

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19th September 2025

The Chief Executive Officer (CEO),

National Agency for Science and Engineering Infrastructure,

(NASENI), Abuja.

Dear Sir,

**Endorsement Letter for NASENI Research Commercialization Grants Program
(NRCGP) 2025.**

I am writing on behalf of The Federal Polytechnic, Ilaro, to formally endorse the research project titled “Development of a Plastic Bottle Shredder for Plastic Waste Management” being proposed by the Innovation Centre of The Federal Polytechnic, Ilaro for consideration under the NASENI Research Commercialization Grants Program (NRCGP) 2025.

This endorsement is based on the project’s significant potential to address Nigeria’s growing challenge of plastic pollution and promote sustainable waste management. The proposed shredder aims to provide a low-cost, energy-efficient, and locally fabricated machine capable of shredding used plastic bottles into recyclable flakes. This will encourage plastic reuse, recycling industries, and cleaner environments, particularly in urban and semi-urban communities.

The objectives of the project are to:

1. Design and fabricate a durable and efficient plastic bottle shredding machine using locally available materials;
2. Promote effective plastic waste collection and recycling, reducing environmental pollution;
3. Enhance employment and entrepreneurial opportunities through local production and waste-to-wealth initiatives; and
4. Support Nigeria’s transition toward a circular economy and sustainable environmental practices.

This innovation aligns with the Renewed Hope Agenda of President Bola Ahmed Tinubu’s administration, particularly in promoting local manufacturing, environmental sustainability, and youth-driven technological innovation.

The Federal Polytechnic, Ilaro, recognizes NASENI's remarkable efforts in supporting indigenous research and commercialization of technologies that contribute to national development and GDP growth. We are confident that the Plastic Bottle Shredder for Plastic Waste Management will:

- Significantly reduce environmental plastic pollution;
- Support local recycling enterprises; and
- Enhance sustainable waste management practices across the nation.

In light of these benefits, I wholeheartedly endorse this grant application and reaffirm our institutional support for this impactful initiative.

For further discussion on this endorsement, kindly reach out to the undersigned through the contact details provided on this letterhead.

Sincerely,



Dr. S. A. Odunlami