

March 2024



TURNING THE TIDE ON PLASTIC POLLUTION :

**EVALUATING THE ECONOMIC AND
ENVIRONMENTAL VALUE OF PLASTIC
RECYCLING**

Prepared By:
Manipur Technology Innovation Hub (MTI HUB)

Field Visit Report

M/S Debchan Plastic Industry



Date: 6th March, 2024

Address: Patsoi Part Two Mayai Leikai, Imphal-West, Manipur-795113.



Debeshwor Irom

Proprietor

M/S Debchan Plastic Industry

INTRODUCTION:

On March 6, 2024, MTI HUB conducted a site visit to M/S Debchan Plastic Industry located in Patsoi Part Two Mayai Leikai, Imphal West, Manipur-795113. The objective was to comprehensively understand the operations of a plastic waste management and recycling unit and evaluate its impact on both the environment and the local economy.

OVERVIEW:

M/S Debchan Plastic Industry is a leading entity in plastic waste management and recycling in Manipur. The facility specializes in collecting, segregating, and recycling various types of plastic waste from across the state.

OPERATIONAL PROCESSES:

Plastic Waste Collection:

The unit actively procures plastic waste from diverse sources throughout Manipur, incentivizing responsible waste disposal practices by offering competitive rates at Rs.15 per kg.

Segregation and Processing:

Plastic waste undergoes meticulous segregation upon collection. Notably, water bottle plastics are compacted and dispatched to larger recycling facilities beyond the state for further processing, ensuring optimal resource utilization and sustainable waste management practices.

Recycling and Product Development:

A significant portion of the plastic waste is processed into granules, which are then blended with virgin plastic granules. These composite materials are utilized in the production of plastic pipes, the primary output of the unit, supporting local manufacturing endeavors and minimizing waste.

IMPACT ASSESSMENT:

The impact of M/S Debchan Plastic Industry extends beyond waste management and recycling, significantly influencing both the local environment and economy:

Environmental Impact:

By actively collecting and recycling plastic waste, the unit mitigates the environmental hazards posed by plastic pollution. This initiative contributes to cleaner surroundings, reduces landfill burden, and helps conserve natural resources by promoting the reuse of plastics.

Economic Impact:

The unit serves as a vital economic engine, generating employment opportunities across various stages of the waste management and recycling process. Additionally, the revenue generated from plastic waste collection and recycling activities contributes to the local economy, fostering economic growth and sustainability.

Social Impact:

M/S Debchan Plastic Industry plays a crucial role in raising awareness about responsible waste management practices and environmental conservation. By actively engaging with communities and stakeholders, the unit promotes a culture of sustainability and collective responsibility towards preserving the environment for future generations.

CONCLUSION:

MTI HUB's visit to Mr. Debeshor Irom's plastic recycling facility provided valuable insights into its operational dynamics and impact on the environment and the economy of Manipur. Mr. Irom's dedication to environmental stewardship, coupled with his facility's socioeconomic contributions, underscores its pivotal role in promoting sustainable development and fostering a cleaner, more prosperous future for the region.

SNAPSHOTS:



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