

RECYCLING OF PLASTIC WASTE INTO COMPOSITE TILES TO FABRICATE STRUCTURES FOR SOCIETAL USAGE



ABOUT TECHNOLOGY

- Disposal of Plastic Waste is a major problem.
- It is non-biodegradable & it mainly consists of plastic bags, bottles etc.
- On burning 1 kg of plastic releases 3 kilos of CO₂ contributing to global warming.
- Plastic waste is dumped into landfills where they may take 1000 years to degrade
- This technology provide a solution for solid waste management problem and promote waste-to-usable technology program
- Main objective of the our technology is to utilize waste plastic bags & bottles for making tiles which can be used for building structures and rooms for general public and societal benefits.

Single -used Waste MLP packaging



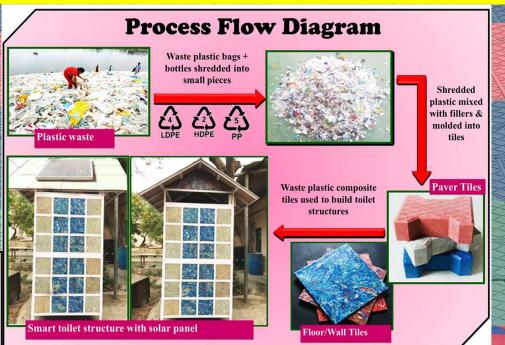
Single used Multi-Layered Plastic (MLP) packaging is another unattended waste that require our immediate attention.

CSIR-NPL has developed a technology to separate the layers of MLP and convert them to granules that can be used for

different applications







Technology has been successfully transferred to SEVEN industries

Total Funding requirement (in lakhs)

For production of 5,00,000 tiles

Fixed capital on plant: Rs. 70.00 lakhs Working Capital: Rs. 60.45 lakhs

Total Capital Investment: Rs. 130.45 lakhs



