



ABVP



SRIJAN  
DIPEX CENTER FOR  
ENTREPRENEURSHIP DEVELOPMENT



Token No. : \_\_\_\_\_

Section : \_\_\_\_\_

# Project Title : Generation of Energy from Waste Materials.



## Problem statement:



**Abstract:** This project integrates the waste incineration system with formate production, converting waste into electricity and valuable chemicals. The approach offers a sustainable solution for waste management, energy generation, and chemical synthesis.



## Revenue generation:

1] Renewable Energy Sales & Fuel Cell.

2] Valuable Chemical Production.- Formic acid.

3] Waste Management and proper disposal.

**1] Electricity Generation:** Waste materials are burned in the firebox, generating heat, which is converted into electricity by the heating panel. This electricity is stored in the battery and used to power the LED bulb.



**2] Formate Production:** The project aims to convert waste burn smoke into formate using sodium bicarbonate and electrolysis, providing a sustainable and cost-effective method. Through neutralization and electrolysis, acidic components are transformed into formate, with applications ranging from chemical synthesis to Fuel cell.

