

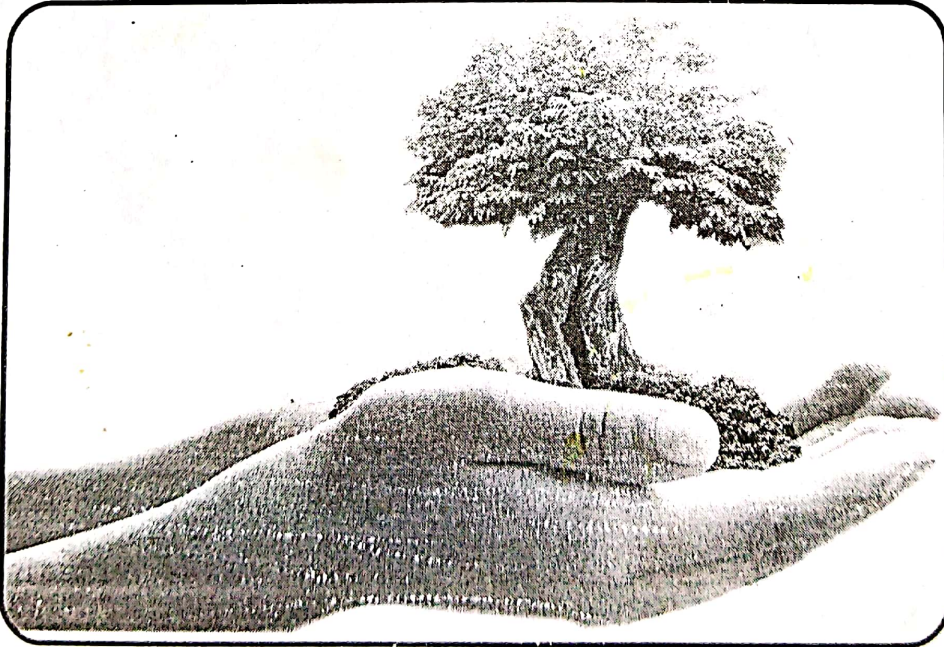
महाराष्ट्र शिक्षण समिती द्वारा संचलित

# महाराष्ट्र महाविद्यालय, निलंगा

ता. निलंगा जि. लातूर



## पर्यावरण प्रकल्प कार्य पुस्तिका



महाराष्ट्र शिक्षण समिती द्वारा संचलित

# महाराष्ट्र महाविद्यालय, निलंगा



## प्रमाणपत्र

प्रमाणपत्र देण्यात येते की, कुमार / कुमारी पंचाळ सोमनाथ  
मधुकर इयत्ता BCVTY हजेरी क्रमांक 50  
शैक्षणिक वर्ष २०-२० मधील प्रकल्प कार्य बायोगॅस  
या विषयावर मार्गदर्शक शिक्षक / प्राध्यापकाच्या मार्गदर्शनाखाली अपेक्षित  
सर्व कामकाज, माहिती संकलन व अहवाल लेखन विद्यापीठाच्या कला लेखन  
नियमाप्रमाणे प्रकल्प कार्य तयार केलेले आहे. सदर प्रकल्प कार्य हे संबंधित  
विद्यार्थ्याने स्वतः संकलित केलेले आहे.

सदर प्रकल्प कार्य हे संबंधित विद्यार्थ्याने स्वतः संकलित केलेल्या  
लेखन सामग्रीवर आधारित असून स्वतःच्या हस्ताक्षरात लिहिले आहे.

दिनांक :

  
मार्गदर्शक

परिक्षक

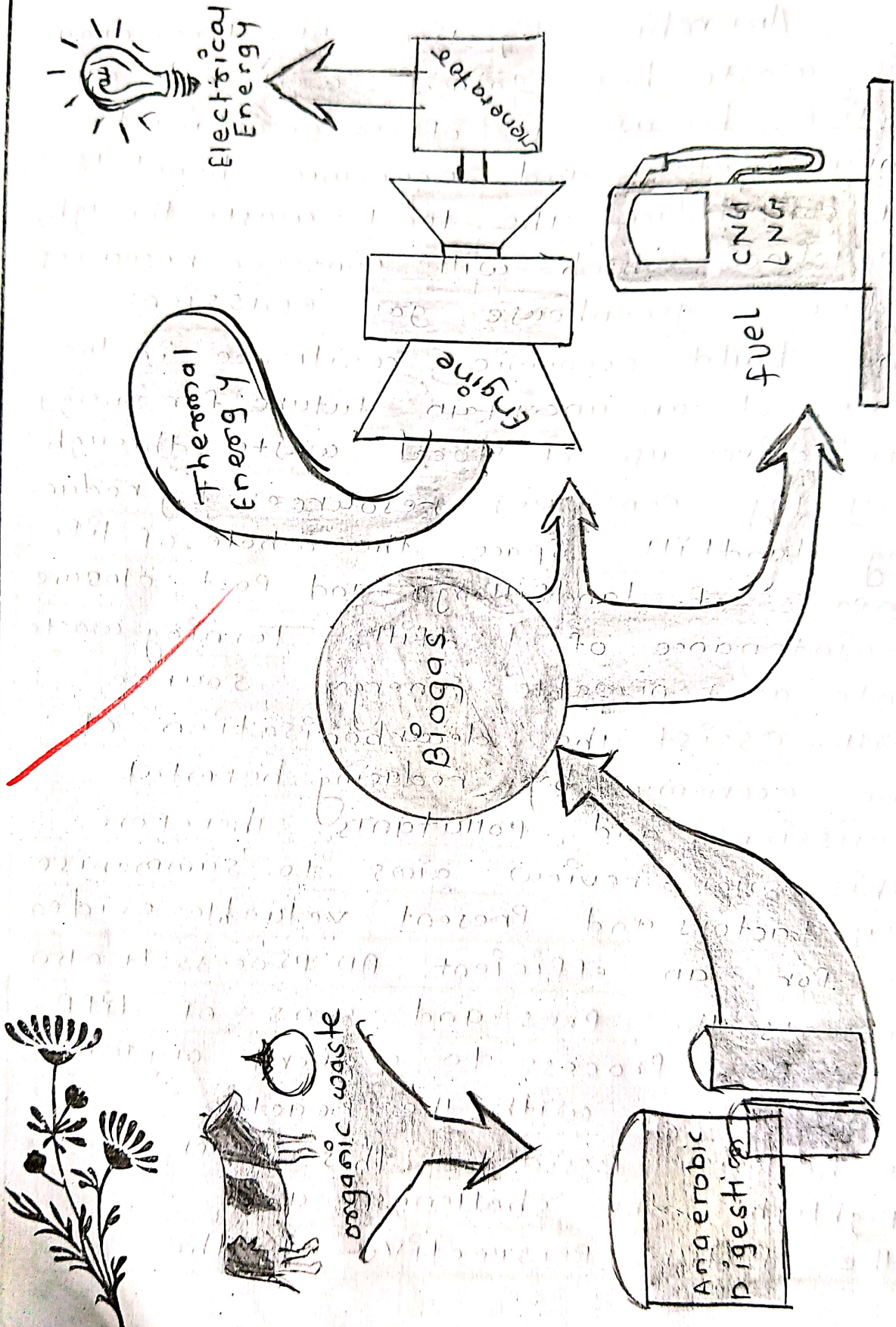
  
प्राचार्य / संप्राचार्य  
Maharashtra Mahavidyalaya  
Nilanga 413521 Dist Latur



Anaerobic digestion (AD) from organic waste has gained worldwide attention because it offers significant environmental and economic benefits. It can reduce the local waste through recycle which will conserve resources, reduce greenhouse gas emissions and build economic resilience in the face of an uncertain future for energy. Productive use of local waste through recycling conserves resources by reducing landfill space, the whole of life impacts of landfills and post-closure maintenance of landfills. Turning waste into a renewable energy source will assist the decarbonisation of the economy by reducing harmful emissions and pollutants. Therefore, this mini-review aims to summarise key factors and present valuable evidence for an efficient AD process. It also presents the pros and cons of different AD processes to convert organic waste along with the reactor technologies. Besides, this paper highlights the challenges and the future perspective of the



Fig :- Biogas from organic waste



Process. However, it is highlighted that for an effective and efficient AD Process, appropriate Temperature, pH, a strong inoculum to substrate ratio, good mixing and small particle sizes are important factors. The selection of suitable AD process and reactor is important because not all types of processes and reactors are not effective for processing organic waste. This study is of great importance for ongoing work on renewable energy generation from waste and provides important knowledge of innovative waste processing. Finally, it is recommended that the government should increase their support towards the AD Technology and consider the unutilized significance potential of gaseous biofuel production.

