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7.2.1. DETAILS
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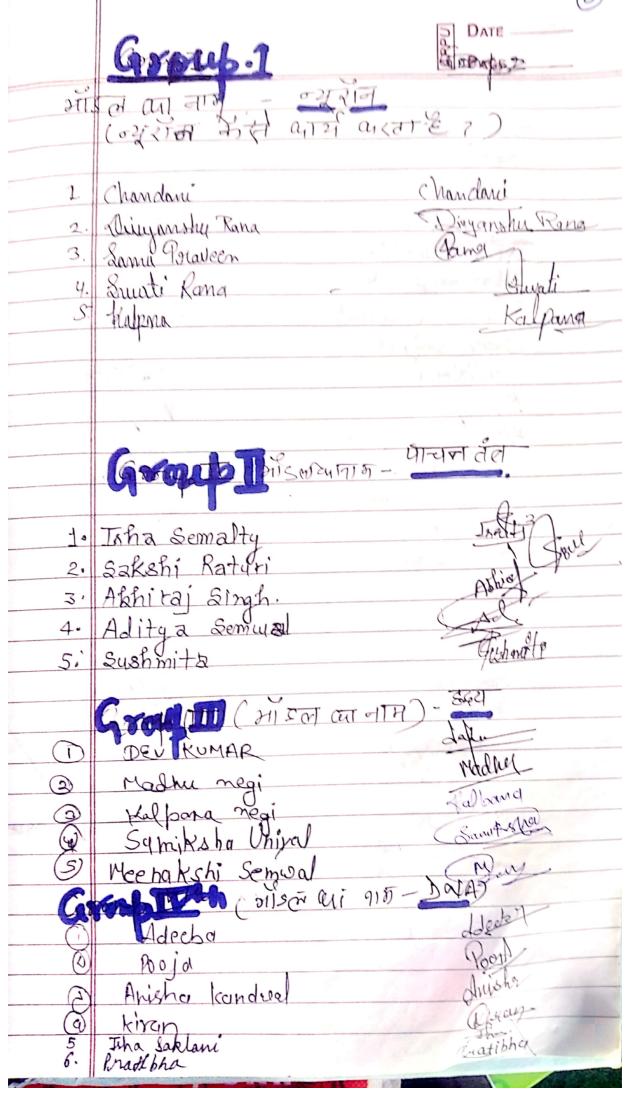
Humanities and Social Sciences Council Bio-degradable Waste Management

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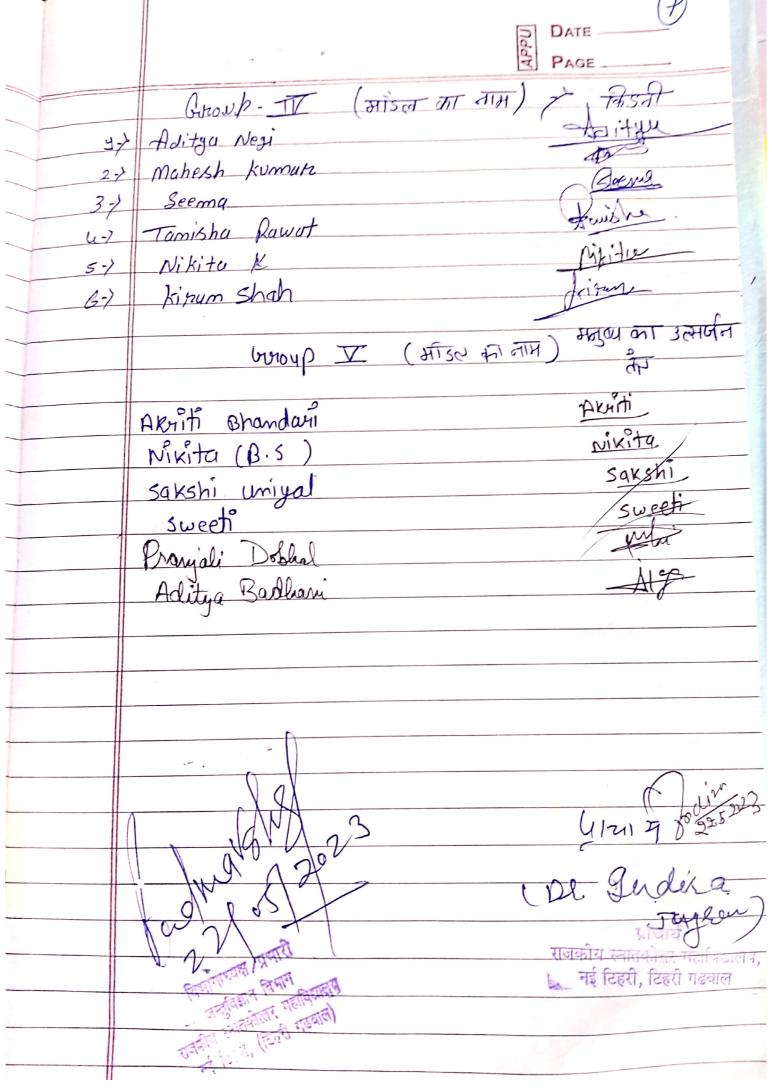
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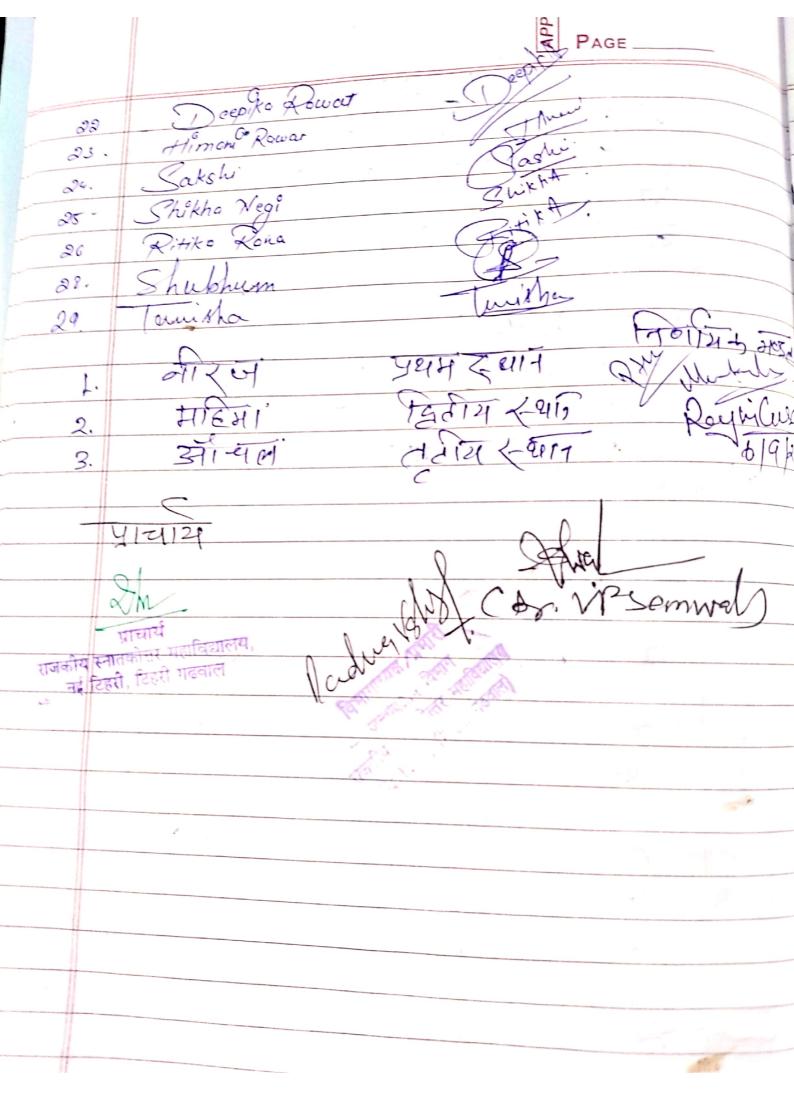


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Report on Solid Waste Management: Bio compost Unit Department of Botany Govt. Post Graduate College New Tehri, Tehri Garhwal

Bio-compost is a natural fertilizer prepared from organic waste materials. It's rich in nutrients and beneficial microorganisms that enhance soil fertility and plant growth.

Biocompost in Botany

Biocompost plays a crucial role in various aspects of botany:

Organic Farming: It is a key component of sustainable and organic farming practices, reducing the reliance on chemical fertilizers and pesticides.

Soil Enrichment: Biocompost improves soil structure, increases water-holding capacity, and enhances nutrient availability.

Plant Growth Promotion: It provides essential nutrients like nitrogen, phosphorus, and potassium, promoting healthy plant growth.

Disease Suppression: Biocompost harbors beneficial microorganisms that suppress soil-borne pathogens.

Seed Germination: It improves seed germination rates and seedling vigor.

Plant Health: Bio-compost strengthens plant immune systems, making them more resistant to diseases and pests.

In the department of Botany, we prepared bio-compost by **Nadep pit** composting method, these steps were followed:

Nadep Pit preparation steps:

Pit formation: We chose a suitable location towards the backside of the administrative building (an appropriate location as per sun and shade requirement) and dug a pit of required size by community contribution of the stakeholders i.e., students and staff members.

Construction: We build two rectangular brick tanks with honeycomb walls almost half inside the soil and half of the part above the ground for aeration. The size is 3 ft (length) x 3 ft (breadth) x 3 ft (height).

Bio-compost preparation procedure:

Filling: Organic layers of green (nitrogen-rich) and brown (carbon-rich) materials, such as kitchen scraps, garden waste, dried leaves, cow dung, dried soil etc. were filled in the pit and splashed with water in regular intervals. Bio-compost waste was collected from households through community contribution.

Composting Process: The organic materials decompose aerobically within the tank, producing heat and breaking down the materials into compost.

Harvesting: After 4-6 months, the compost is ready to be harvested. It is a dark, crumbly material that can be applied to soil to improve its fertility.

Images of bio-compost pit formation upto harvesting and packaging process







Submitted and prepared by Department of Botany, Govt. Post Graduate College New Tehri, Tehri Garhwal.