



Enriched Farm Yard Manure

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Farmyard manure refers to the decomposed mixture of waste produced by farm animals. It improves the plant growth and increases soil fertility. It is typically between the pH 8 to 12. It is readily available, cheap and easy to use. This article directs the preparation of enriched FYM.

Enriched FYM

To prepare enriched FYM, select a combination of organic materials such as animal dung straw, vegetable waste, and green plant debris. The raw materials should be from healthy animals and are free from diseases, chemicals, or medications. The procedure is listed as follows,

- Blending
- Shredding
- Layering
- Moisture Management
- Aeration
- Temperature
- Maturation

Blending: Blend the mixture of animal waste and vegetable waste in the ratio of 1:1. It produces a balanced mixture of organic carbon and organic nitrogen respectively.

Shredding: Shred the material into small pieces for rapid decomposition.

Layering: Create multiple layers of animal waste and plant debris to enhance the microbial activity.

Moisture management: Moist environment should be maintained during composting process. The ideal moisture content 50-60%.

Aeration: Regular turning should be done to improve aeration and prevent the growth of anaerobic bacteria.

Temperature: The ideal temperature for composting is 49-71 degree Celsius. High temperature helps to kill weed seeds.

Maturation: The composting process completes in 4 to 6 months.

It can also be prepared from chemicals by mixing 50 kg SSP mixed with 300 Kg FYM for 1 acre.

Benefits

- Nutrient rich hence improve soil fertility and plant growth.
- The humus rich capacity helps to improve soil texture and water holding capacity.
- Increase the crop yield.
- To enhance water retention capacity of soil in drought prone areas.

Reference

1. Jagathjothi, N., Ramamoorthy, K., & Kokilavani, S. (2008). Effect of FYM with and without enrichment on soil microbial population, soil fertility, yield and economics. *Research Journal of Agriculture and Biological Sciences*, 4(6), 647-650.