

INNOVATIVE WEED CONTROL CUM STRAW DECOMPOSER

KVK Name: Banka

Name: Mr. Vinod Vinayak: Village: Phuldidumar

Age: 48

Gender: Male

Education: Post Graduate

Farming Experience: 5

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District: Banka, State: Bihar



Brief about innovation:

In Bihar, after paddy harvesting, stubble remains in the field and doesn't decompose easily, acting as a weed instead of enriching the soil. To address this, an indigenous technique uses a low-cost mixture of RSDM (rich in beneficial bacteria) and slaked lime solution $\text{Ca}(\text{OH})_2$ to accelerate decomposition. This leads to increased use of weedicides, harming soil and the environment. However, paddy stubble contains valuable nutrients like sugars and silica that can benefit the next crop if properly decomposed.

Specification/utility:

This low-cost, eco-friendly method rapidly decomposes paddy, wheat, and pulse stubble using a mix of RSDM (beneficial microbes) and slaked lime 250g $\text{Ca}(\text{OH})_2$ in 40L water. It converts stubble into compost within 19 days, enriching soil, reducing weedicide use, and avoiding stubble burning. Simple to apply, it's highly useful for small and marginal farmers, promoting sustainable farming.

Photographs:

