

Need base Modifications in Zero Tillage Machine for Sowing in Ploughed Field

KVK Name: Patna

Name: Shri Narendra Prasad, Village: Chakjal

Age: 65

Gender: Male

Education: Intermediate

Farming experience: 40

Mob.: 973455062

District: Patna, State: Bihar



Brief about innovation:

Shri Narendra Prasad, a smallholder farmer from Pandarak block in Patna district, modified his zero-till seed–fertilizer drill by replacing its original inverted-T furrow openers with custom shovel-type blades—allowing efficient lentil line sowing in tilled fields, cutting the seed rate from ~120 kg/ha to 40 kg/ha, boosting yields and profitability, and earning him the Mahindra Samriddhi Innovative Farmer Award (2018) for enabling low-cost mechanization and sustainable farming in his region.

Specification/utility:

In ingeniously modified his standard zero-till wheat drill by replacing the inverted-T furrow openers with shovel-style iron plates (12 cm × 3 cm) mounted vertically and secured with bolts, enabling efficient line sowing of lentils in ploughed fields. This adaptation reduced seed rates from ~120 kg/ha to 40 kg/ha, significantly lowering input costs and improving spacing and yield.

Photographs:

