

Information about farm innovation



1. Name of the innovator: **Mr. Uma Sankar Sahu**
2. Age: 46
3. Gender: Male
4. Contacts: 9437809525
5. Address: Village : P. Govindapur
G.P.: Govindapur
Block : R.Udayagiri
District : Gajapati
Odisha
Pin: 761014
6. **Title of the innovation:** 4 row multi crop drum seeder
7. **Situation/ factors that necessitated the development of innovation/ innovative practice:** Manual seeding practice involves higher drudgery and also labour intensive. To save labour and money, the innovator has developed this technology.
8. **Innovation in practice:** less than 2 years, 2-5 years, 5-10 years, more than 10 years
9. **Description of innovation with practical utility:** The implement is a manually drawn drum seeder with a dimension of 120cm long and 45 cm width. It is constituted of two drums fitted over an axle. Drums have adjustable seed holes near both the edges. Distance between two rows can be set as per the crop spacing. Holes size can be adjusted by moving a metal strip over the seed holes. Holes spacing in one circle represents the plant to plant spacing and distance between two circles represent the row to row spacing. There are also two dented wheels fitted at the both end of the axle for easy movement of the drum seeder without slip.

The drum seeder is easy to use by a farmer or a farm woman. One can easily sow various types of seeds like germinated paddy seeds, greengram, blackgram, field pea and sunflower seeds in line @ 0.1 acre per hour using this drum seeder. The main advantage of this machine is that it can sow more than 5 types of seeds in line.

10. **Difficulty faced in implementing innovation/ innovative practices and further scope of improvement or refinement:** The only problem was to calibrate the seed rate as there was no control over the flow of seeds through the seed holes provided on the seed drum. However, adjustment in the size of the holes, distance between the holes and the strip cover used may be modified to control the flow of seeds from the seed drum.

11. **Quantity the ease of innovation/ innovative practice:**

Easy to practice as manually operated implement, easy to handle because of its light weight and adjustable features. Line sowing of seeds can be possible in the hilly and undulating terrain. Use of multi crop drum seeder can save the seeding amount and drudgery of farmers and far women.

12. **Cost involved in developing the innovation:** Rs. 3000-5000/-

13. **Profit made after implementing the innovation in field:** Rs. 10520/-

14. **Potential: the innovative practice has been adopted by**

Farmers (___ 7 ___ no)

Villages (___ 2 ___ no)

Blocks (___ 1 ___ no)

NGOs/ Extension agencies (___ 1 ___ no)

15. **Quality action photographs of the innovation (at least 2 and \geq 300 dpi):**





Sd/-
Senior Scientist and Head
KVK, Gajapati