**FORMAT FOR SUCCESS STORY**

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| --- | --- | --- |
|  | Name of the farmer | Sri Narendra Prasad |
|  | Name of the grassroots innovation/Venture/innovative approach developed by the farmers | Multiple use of Zero Till Drill – An Innovation |
|  | Address | S/o Late Sri Chand Mahto,  Vill-Chakjal, Block- Pandarak, Dist.-Patna |
|  | Mobile number | 9973455062 |
|  | Annual income | 70,000.00 |
|  | Description of the innovation | **para I: socio-economic background of the innovator:**  Sri Narendra Prasad belongs to a medium family having 8 ha of land in the Tal area of Pandarak block. He grows paddy, lentil, gram and coriander in some area. He has zero till drill, power tiller, pump, rotavator and other small implements |
|  |  | **Para II: What specific situation/problem compelled farmer to innovate. If it was an accidental innovation what event led to innovation?**  He was sowing lentil by broadcasting (broadcasting the seed followed by two pass plowing) and could not get the proper yield as well as seed rate requirement was too much. Also there was problem of wilting. Adopting the line sowing by the modified ZTD , now he is getting the actual benefit. |
|  |  | **Para III: Description of the actual innovation**  He was facing problem in sowing lentil with the help of zero till drill in the ploughed field. He thought a plan to modify the mechanism of furrow opener so as to it can be used as seed drill. He got the shovel type furrow opener and fitted on the inverted T type furrow opener by making two holes in each furrow opener. This innovation was successful and he used the machine as seed drill as well as zero till drill. |
|  |  | **Para IV: what changes the innovation has bought in terms of costs, benefits, savings or any other aspects**  **Cost of Cultivation of Lentil by broadcasting method for 4 ha.**   |  |  |  |  | | --- | --- | --- | --- | | **Sl no.** | **Description** | **Rate (Rs/kg)** | **Amount** | | 1 | Seed, 120kg/ha | 35 | 16,800 | | 2 | Labour, 8 man days | 250 | 2,000 | | 3 | Ploughing, | 2400/ ha, three pass and one pass mixing | 38,400 | | 4 | Chemical/ Fertilizer | 10000 | 10,000 | | 5 | Harvesting, 20 labour/ ha | 250 | 20,000 | | 6 | Thresing | 2400 | 2,400 | | **Total** | | | **89,600** |   Total yield --- 64 q  Rate of lentil- Rs 3500.00 per quintal  Total return – 224,000.00  Total cost of cultivation – 89600  Net return – 134400.00  **Cost of Cultivation of Lentil by Seed Drill for 4 ha.**   |  |  |  |  | | --- | --- | --- | --- | | **Sl no.** | **Description** | **Rate (Rs/kg)** | **Amount** | | 1 | Seed, 80kg/ha | 35 | 11,200 | | 2 | Labour, 2 man days | 250 | 500 | | 3 | Fuel, 40 litre | 60 per litre | 2,400 | | 4 | Ploughing | 2400 per ha , three pass | 28,800 | | 4 | Chemical/ Fertilizer | 10000 | 10,000 | | 5 | Harvesting, 20 labour/ ha | 250 | 20,000 | | 6 | Threshing | 2400 | 2,400 | | **Total** | | | **75,300** |   Total yield --- 80 q  Rate of lentil- Rs 3,500.00 per quintal  Total return 2,80,000.00  Total cost of cultivation –75,300.00  Net return – 2,04,700.00  Return in terms of cash by broadcasting – 1,34,400.00  Return in terms of cash by seed drill – 2,04,700.00  Net return by seed drill as compared to broadcasting –Rs 70,300.00 |
|  |  | **Para V: What the innovator wishes do in future.**  Wide adoption of farm machineries for timely and cost effective usages. |
|  |  | **Para VI: Innovators message to the scientists and farming communities**  Establishment of custom hiring centre on Panchayat level. |
|  | Award | **1 Kisan Shree – Deptt of Agriculture, Govt of Bihar**  **2 Mahindra Award- Mahindra Samridhi**  **3 Best Innovative Farmer Award- BAU, Sabour**  **4 Best Farmer Award by ICAR,RCER, Patna** |

**Compiled by**

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