



### Success Story on Groundnut

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| Title of the success story        | <b>Happiness &amp; Prosperity through Cultivation of Groundnut</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Name of farmer and detail         | Smt. Anjali Devi, Village – Jitpur, Block – Pauriahaat, District – Godda. Mobile No.: 8002311753                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Situation analysis                | The farmer used to cultivate Dharni variety of groundnut without maintaining proper spacing. Farmyard manures were applied @ 50 q/ha. The dose of fertilizer was applied 25:25:0 (N:P:K) without soil testing. Interculture operation and earthing up was not conducted properly. Application of pesticides was not conducted at proper time. The yield was obtained 9.8 q/ha under farmer practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Detail of technology demonstrated | Soil testing was done before conducting demonstration. The pH, EC and OC% of the soil was 5.96, 0.39 dsm <sup>-1</sup> and 0.58%, respectively and the available NPKS status of the soil was 282.35 Kg ha <sup>-1</sup> , 18.45 Kg ha <sup>-1</sup> , 140.23 Kg ha <sup>-1</sup> and 11.54 Kg ha <sup>-1</sup> , respectively. FYM was applied @75 q/ha. On the basis of soil testing 25:50:20:20 NPKS was applied in the field. The variety used in the demonstration was K-1812. Seed was treated with carbendazim 50 WP was sown in line with the spacing of 45 x 15 cm. Intercultural operation and earthing up was carried out during 35 - 40 DAS. Boron 20% and Sulphur was also applied in the field. Imidacloprid 17.8 SL (1 ml/3lit. Water) and Lambda cyhalothrin 5EC (1 ml/lit. Water) was applied to manage the Bihar hairy caterpillar and leaf miner. Carbendazim 12 % + Mancozeb 63 % WP (1.5 g/lit of water) was sprayed to manage the Tikka disease. |
| Most success point                | High yielding variety (K – 1812), soil test based application of fertilizers and other agronomical practices is the most success point.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Result/Output

| Particulars           | Variety  | Avg. Yield (q/ha) | Gross Cost (Rs./ha) | Gross Return (Rs./ha) | Net Return (Rs./ha) | BC Ratio |
|-----------------------|----------|-------------------|---------------------|-----------------------|---------------------|----------|
| Farmers Field         | Dharni   | 9.8               | 51200               | 68600                 | 17400               | 1.34:1   |
| Demonstration plot    | K - 1812 | 17.4              | 58400               | 121800                | 63400               | 2.08:1   |
| Increase in yield (%) |          | 77.55             |                     |                       |                     |          |

**Outcome:** Demonstration of the variety K – 1812 of crop groundnut was conducted first time by the KVK in the district, therefore, their horizontal spread will come out in coming years. Earlier the demonstration of groundnut variety K – 6 was conducted and its horizontal spread is in about 250 ha. Rate of adoption of technology is about 65 – 70 per cent.

**Farmer Feedback:** Satisfied with the yield and quality of kernels.

## Photo:



**GVT – Krishi Vigyan Kendra, Godda (Jharkhand)**

**Gramin Vikas Trust**

**ICAR – Agricultural Technology Application Research Institute, Zone – IV, Patna**