

Success Story - Scientific Cultivation of Field Pea Var. Aman in Rice Fallow

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Wahengbam Manichoubi Devi aged 63 years inhabited in Kumbi ward no. 2 village in Moirang block about 25 km from the district headquarter, Bishnupur, Manipur. Her field was located at Wangoo Keirap with 24°41'86.1" latitude and 93°79'59.9" longitude covering a total area of 2.0 ha. Because of varied reasons such as lack of irrigation facilities, uneven distribution of rainfall, late onset of monsoon, etc. she was unable to get good benefits from farming despite of her hardworking. Also, she had little knowledge about cropping system that could be successfully planted after paddy, thereby leaving such areas fallow.

KVK Intervention

KVK, Bishnupur provided critical inputs viz. Field pea var. Aman, biofertilizer and pesticide. During the crop period, Senior Scientist & Head as well as scientist of Agronomy, Plant Protection and Soil Scientist regularly visited her field in every critical stages of the crop growing period. Also encouraged her to go for seed production and guided her for the availability of market for sale of seeds of *rabi* crops. She followed the technology supervised by SMS(Agronomy). The specific technology she followed was to grow the crop (field pea) with seed rate @ 60 kg/ha at a spacing of 30cm X 10 cm, seed treatment with Carbendazim @ 2g/kg, Rhizobium @ 50g+ 10g sugar per kg of seed.

Success point

The programme has promoted efficient use of cultivated land in fallow areas, optimized use of

available resources i.e., water, labour and other inputs. It has not only provided additional yield of pulses averaging 9.21 q/ha but also improved soil health due to fixation of atmospheric nitrogen by root nodules of field pea. Farmers could earn a net income of Rs.



34670.00. They could get a return of Rs. 2.11 when Rs. 1 was invested.



Farmer feedback

She was satisfied with the technology because she could see the difference of her field where before it lies fallow after harvesting of paddy which she had grown last five years and kept her field barren for almost three years due to non-productive of the soil.

Figure 1: Performance of technology vis-à-vis Local check (Increase in productivity and returns)

	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	785	28500	54950	26450	1.92
Demonstration	941	31200	65870	34670	2.11
% Increase	19.87	9.4	19.87	31.08	9.89

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