

Enhancing productivity and profitability of groundnut through line sowing and seed treatment with *Rhizobium*.

District	Bishnupur
Crop and Variety	Groundnut var. ICGS-76 (widely adaptable variety in acidic soil of Manipur)
Name of farmer & Address	Khagembam Nepolean Meteï , Kumbi Lai Sandhong Mamang Leikai, Moirang CD Block, Bishnupur District, Manipur.
Background information about farmer field	Shri Khagembam Nepolean Meteï aged 31 years inhabited in Kumbi Lai Sandhong Mamang Leikai village in Moirang block about 25 km from the district headquarter, Bishnupur , Manipur. His field was located at 24°40'25.9" latitude and 93°77'28.2" longitude with an elevation of 871.09 m above mean sea level. The total area under CFLD programme is 1.5 ha. Because of varied reasons such as lack of irrigation facilities, uneven distribution of rainfall, late onset of monsoon, etc. he was unable to get good benefits from farming despite of his hardworking. Also he had little knowledge about the type of crop that could be successfully planted in midland and upland, thereby leaving such areas barren.
Details of technology demonstrated	<ol style="list-style-type: none"> 1. Improved cultivation practices of groundnut cultivation. Seed rate 80kg/ha, Spacing 45cm X 15 cm, Seed treatment with Carbendazim 50% and Mancozeb 50 % @ 2g/kg seed, , NPKS@20:40:20:20 kg/ha. 2. Improved cultivation practices of soybean cultivation. Seed rate 60kg/ha, Spacing 45cm X 15 cm, Seed treatment with Carbendazim 50% and Mancozeb 50 % @ 2g/kg seed, Rhizobium japonicum @ 50g/kg seed, NPKS@20:40:20:20 kg/ha.
Institutional Involvement	Scientists of KVK Bishnupur paid a visit to the village to have a feel of the villager's problem. At an interactive session with the villagers, Khagembam Nepolean Meteï didn't hesitate to put forth his problem outright. SMS(Agronomy), KVK, Bishnupur took upon the task of providing training on "Improved cultivation practices of groundnut and soyabean" and made them to realize that even the upland barren could be cultivated and farmers were acquainted with latest technique like <i>Rhizobium</i> inoculation. Critical inputs such as seed, pesticide and <i>Rhizobium</i> were given to them for conducting Cluster Front Line Demonstration Programme on <i>kharif</i> oilseeds under National Mission on Oilseed and Oil Palm (NMOOP). During the crop growing period, Senior Scientist & Head as well as scientist of Agronomy, Plant Protection and Agril. Extension regularly visited his field in every critical stages of the crop growing period. Also encouraged him to go for seed production and guided him for the availability of market for sale of groundnut seeds.

Success Point	The programme has promoted efficient use of cultivated land in groundnut areas, optimized use of available resources i.e., water, labour and other inputs. It has not only provided additional yield of oilseed but also improved soil health due to fixation of atmospheric nitrogen by root nodules. The farmer could reap groundnut which till yesterday was wasteland for him. Groundnut cultivation had also improved the water retention capacity of the upland areas as well as making the soil more fertile for the next crop.
Farmer Feedback	The results have taken the farmer by surprise and farmers from neighbouring village would like to grow like him. He was satisfied with the technology because he could see the difference of his field where before it lies barren for almost three years due to non-productive of the soil.
Outcome Yield (q/ha)	Groundnut
<ul style="list-style-type: none"> - Demonstration - Potential yield of variety/technology - District average (Previous year) - State average (Previous year) 	10.62 14.12

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

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Groundnut var. ICGS-76					
Farmer practices	10.20	28000	86700	58700	3.09:1
Demonstration	14.12	30000	120020	90020	4.00:1`
% Increase	38.43	19.38	7.14	53.35	





Field visit with RAWE students