

1. Case studies/Success stories under NEH programme **Krishi Vigyan Kendra, Tuensang; Nagaland**

Farmers' Profile:

Name : Mongba
Farthers' Name : Chumsusu
Gender : Male
Age : 39 years
Contact No. : 7366086520
Aadhaar No. : 826272564845
Address : Chendang village
Sangsangnyu Block
Tuensang; Nagaland
Pin No. 798612



Status before intervention:

Mr. Mongba of Chendang village is a young farmer who took to farming in the early 2015. He started farming to support himself and his family which was the best option for any 8th standard drop out youth. For two years he cultivated Maize and Kholar in Jhum field like any other marginal farmers in the village however, the return from Jhum was not sufficient to meet the needs for him and his family. Being a young farmer he started engaging more in daily wage works apart from managing his farm to earn additional income which was very meagre due to scarcity of daily wage jobs in the village. He accounts that during 2016 to 2017 his average gross income from his farm and from daily wage earning per year was Rs. 57600/-, and felt the need to explore and venture better in agriculture to earn more.

How farmers approached KVK:

Chendang village is one among the adopted village of Krishi Vigyan Kendra, Tuensang under technology intervention programmes since 2010, but Mr. Mongba's involvement in agriculture for his sustenance started only after 2017. It was during the KVK's intensified interventions for Doubling Farmers' Income by 2022 and NEH programmes in the adopted Chendang village that he came to have a close linkage with Krishi Vigyan Kendra. His need to explore and venture more in agriculture became clear when he attended the Interaction programme organized by Krishi Vigyan Kendra in collaboration with ECS on 'Streamlining Strategic approach to existing Farming System' and 'Identifying potential technology for enhancing Income'. Mr. Mongba is now an active beneficiary of KVK intervention programmes in the village.

KVK Intervention- Methodology:

With an aim to fulfil the very vision of Doubling Farmers' Income by 2022, Krishi Vigyan Kendra, Tuensang, formulated Action plan based on the need analysis in the village and as per the technologies and inputs supplied through ICAR-IARI, NEH programme. Some important focus areas to enhance farmers' income are;

1. Promotion of high valued Vegetables (Cauliflower, Broccoli, Onion, Carrot, King Chilli, Garden Pea etc.)
2. Increasing the area to increase Seed potato production through convergence
3. Promotion of Pig breeding unit in the village
4. Promotion of poultry birds to meet the high demand of poultry birds in Tuensang market
5. Intensifying the production of short duration Maize crop to enhance return.
6. Production and processing of Organic Honey

Chendang village was declared as vegetable village under Horticulture Department during the year 2004-05, however the programme didn't have much impact because of the perishable nature of the cultivated crops and market and also weak technology support by the Department. Krishi Vigyan Kendra revived the programme during the year 2010 in collaboration with ECS (NGO). In Chendang every one member in a household is a member of Joint Liability Group (JLG) registered under Nagaland State Cooperative Bank, all together there are 12 active JLG Groups. Capitalising on the strength of these groups, many potential vegetables were introduced through technology validation programmes of KVK. Potato Seed Village programme was also initiated through these groups during 2012.

In the year 2017, focusing more on the market and economic return for the farmers, promotion of high valued vegetable production programme was streamlined as one important component for Doubling Farmers' income in the village. To re-strengthen the approach, in collaboration with Eleutheros Christian Society, Interaction cum brainstorming programme was organized in the village on "Streamlining Strategic approach to existing Farming System" and "Identifying potential technology for enhancing Income". Based on the outcome of the interaction subsequent Training programme on 'Promotion of High valued vegetable production' was organized in the village during the month of September 2018, which Mr. Mongba also participated. Since then he is an active participant in all KVK intervention programmes.

Outcome:

In the year 2018, with technology knowledge he gained from training and seed input support through NEH programme, he took to vegetable production apart from his normal Maize and Kholer (French Bean) farming which brought him better economic return. Encouraged from the profit he gained through vegetable production, during the year 2019, based on the market demand existing in Tuensang town, he took up high valued vegetables cultivation. In the current season the income generated from his vegetable farming are presented in the table:

Table: Income per year

| Sl.No | Crop/Activities | Income (Rs.) |
|--------------|------------------------|---------------------|
| 1 | Seed potato | 62600.00 |
| | Cabbage | 43400.00 |
| | Carrot | 25630.00 |
| | Radish | 16100.00 |
| | Green Chillies | 15200.00 |
| | Green beans | 7000.00 |
| | Total | 169930.00 |

Overall Income from vegetable farming amounts to Rs. 169930/-. Mr. Mongba, a young farmer narrates that he is also expecting a good harvest with an anticipating income of Rs.35000/- to Rs. 40000/- from his normal Maize and Kholer (French Bean) field which is yet to be harvested. In two to three years since he took up farming, he has tripled his farm income. Being asked on how he planned to take up farming in the coming year, he proudly says that he wishes to take up Onion and Cauliflower as it has been tested and recommended by KVK in the village for production and which is also a part of NEH programme under KVK intervention in 2020-21. He also states that the price of Onion and Cauliflower are very high in the market for which he wishes to venture.

His innovativeness and eagerness to try technology based agriculture has become the strength in his quest for better livelihood and a potential agriculture technology disseminator for those farmers who are hesitant in technology adoption process and also the existing farmers who are actively working to increase their livelihood in the village.

Action photographs of some relevant interventions are presented as under:

1. 1. Technology Assessed: **Potato production var. Kufri Garima in Chandang under Potato Seed Village programme promoted by KVK, Tuensang under NEH Programme.**



2. Technology Assessed: **“Cultivation of Carrots by using organic sources of nutrients for better quality and income var Pusa Rudhira” promoted by KVK, Tuensang under NEH Programme**



Carrot seed bed preparation



Grading & Sorting of Carrot after harvesting

3. Technology Assessed: **“Performance of Cauliflower varieties for year round production and more income generation” (Madhuri, Cashmere and Candid Charm) promoted by KVK, Tuensang**



Cauliflower seedlings treated with *Trichoderma viride* + *Pseudomonas fluorescence*



Cauliflower OFT plot at Chendang Village

Farmer along with the harvested

4. Technology Assessed: “Popularization of Onion varieties for enhancing the income of farmers” (Pusa Riddhi, Arka Krithiman, Bhima Red & Bhima Kiran) promoted by KVK, Tuensang under NEH Programme.



OFT Demonstration plots



Farmer along with the harvested Onion



Technology adoption: Garden Pea cultivation in Chendang. Variety: Arkel & Pusa Pragrati



Award presented to Chendang village during Mini Hornbill festival 2020

Honey collected at collection point for market



Seeds and implements distribution through NEH Programme

Nodal Officer NEH
Krishi Vigyan Kendra
Tuensang: Nagaland

