Success Story
on
Renovation of defunct ponds for multipurpose use
(French bean – Zorin)

Climate Resilient Success story :

Mr SC V Beiryusa Nohro is residing in village Tisopi located in Siaha district, Mizoram having 2.0ha of land for the maintain survival of 4 family members. Before intervention, he was growing tomato, maize and cabbage in Rabi season traditionally. Due to non-availability of technical knowledge and agromet advisories services, he was not getting the desired output with his marginal land holdings. After the start of NICRA Project he came in contact with NICRA project scientist and KrishiVigyanKendra(KVK),Siaha. Principal Investigator, NICRA Project along with KVK scientists and SRF provided training, technical knowledge on crop cultivation.

Details of technology:

Farm pond is a dug out structure with definite shape and size having proper inlet and outlet structures for collecting the surface runoff flowing from the farm area. It is one of the most important rain water harvesting structures constructed at the lowest portion of the farm area. Large areas of shallow water should be avoided as these will cause excessive evaporation losses and also cause water weeds to grow. Farm pond collects excess runoff during rainy period. The farm ponds allow farmers to conserve the rain water, store excess water from irrigation channels, and conserve water from other sources.

Performance and impact of technology:

The use of ponds has been practiced for domestic and agricultural purposes. It is also used for spraying pesticides. The irrigation scenario in the village is very poor as only 5ha of cultivated area is under irrigation. The effect of heat stress and moisture stress was low where farm ponds were constructed. Adoption of farm pond resulted in less water scarcity. Farmers were excited to cultivate Zorin variety which was less intensive as compared to pole type. Pods are flat, smooth, crispy with less parchment and combined resistant to rust and bacterial blight. Crop duration was very short which ultimately results in more income within a very short period of time with very less farm inputs. The technology has helped the farmers to achieve yield improvement and also rises the production to more than 30%.

Table 1.1.: Impact of Farm ponds on French bean (Zorin) in Tisopi village of Siaha district

Intervention	**Year**	**Yield (q/ha)**	**Cost of Cultivation (Rs/ha)**	**Net Return (Rs/ha)**	**B: C Ratio**
Climate resilient technology	2022-23	100	65000	135000	3.07
Farmers Practice		53	45000	61000	2.35

Upscaling: The technology can be spread to the entire districts through convergence with state departmental activities, central programmes and ATMA.



Practicing of Renovation of defunct ponds for multipurpose use in Tisopi village at Siaha District