



Low-cost polyhouse for off-season vegetable cultivation

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Climatic : East Kameng district experiences different types of climate ranging from tropical climate and temperate climate in the areas. The temperate climate adjoining the Upper hill of area in the district. The areas of East Kameng experience hot and humid weather during summer seasons with an average temperature of 25-33°C, especially during the May to July. In other areas like Tajjo and Bameng, the climate is severely cold during the winter months and is pleasant during the summer.

Interventions : The East Kameng produces good amount of cabbage, brinjal, tapioca, colocasia, cucumber, capsicum and tomatoes during main season, which eventually leads to the market glut and fall in price. On the other hand, due to weather extremes including high intensity rainfall and hailstorm inflict maximum losses to the cucumber and tomato production during off-season. Therefore, low-cost

polyhouse technology was introduced for off-season production of vegetables in the village.

Low-cost polyhouse was constructed using locally available bamboo and metallic wire for developing the frame. The polyhouses are being used for raising of vegetable seedlings as well as off-season vegetable cultivation. and 75 per cent shade net on the UV stabilized film of 200 μ (800 gauge) was used for covering the roof side walls. The estimated cost of construction of a 100 m² size polyhouse varied between Rs. 20,000 to 25,000. Proper drainage channels were developed around the polyhouse to avoid water stagnation. Raised beds of 1 m length and 30 cm height and of convenient length were prepared inside the polyhouse by thoroughly mixing soil: FYM in 2:1 ratio. The beds were disinfected with Formalin (20 ml/l water) and covered with black polythene for 2-3 weeks.



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