

Upliftment of Socio-economic Status of farming community by the Trout farming and its linkage with home-stay business through involvement of eco-tourism cum recreational fisheries in the West Kameng District of Arunachal Pradesh: A success Story

**V.K. Misra¹, T.S. Mishra²,
and Pema Khandu
Thungan³**

Subject Matter Specialist
(Fisheries)

K.V.K West Kameng Arunachal
Pradesh - 790 102

K.V.K West Kameng Arunachal
Pradesh - 790 101

² Office of the district Fisheries
Officer, West Kameng
Arunachal Pradesh

INTRODUCTION

The District West Kameng occupies an area of 7,442 square kilometers lies approximately between 91° 30' to 92° 40' East longitudes and 26° 54' to 28° 01' North latitudes in the Arunachal Pradesh. The district has immense scope for tourism as the tourist flow increases since October up to February there after little bit flow of tourist continue till rest of times. The district experiences an arid tundra or a cool temperate climate in the north. Snow fall occurs from mid-November to February. Snow can be also seen in Khupi, Bomdila, Sela. Sela range, the highest place in the district, situated at 13,714 feet above sea level.

Arunachal Pradesh has got immense scope for rainbow trout farming particularly in the district of West Kameng and Tawang as the water and temperature is very much favorable for its culture and propagation. Keeping the view of above facts in mind the KVK West Kameng has started a programme in 2019 to 2022 for Popularization of trout farming and its linkage with tourism especially in the potential areas of mid hill and high hill where the tourists prefer to visit most of time. The said programme had been initiated by the Dr. V.K. Misra S.M.S (Fisheries) in collaboration with the support of District Fisheries officer along with his team and collaborative support from ICAR-DCFR Bhimtal Uttarakhand. Initially it was started at Shergaon, Jigaon and Mohancamp but after seeing the success of this intervention, a horizontally spread of this technology had been observed at some more places in the district *i.e.* Domkho, Morsingh, Warrangapam, Thungri Lingbaktang and again at some new places like sangti Goor, Bishumphudung, Sangti, Lish Gompoache and Chug Village etc.



Open Access

*Corresponding Author

V.K. Misra*

Available online at

www.sunshineagriculture.vitalbiotech.org

Article History

Received: 2. 1.2026

Revised: 6. 1.2026

Accepted: 11. 1.2026

This article is published under the terms of the [Creative Commons Attribution License 4.0](https://creativecommons.org/licenses/by/4.0/).

Programme Overview:

The beneficiaries selected for trout farming at initial stage that had home-stays already and it has been linked with trout farming with involving eco-tourism cum recreational fisheries. The beneficiaries involved were trained properly through hands on training programmes jointly organized by the office of KVK and DFDO West Kameng. As the technology was hybridized through its linkage with tourism so the newly selected mid hill areas have been tried for same and its linkage with tourism to promote the

culture as well as to uplift the Socio-economic status of villagers as these new areas are very much suitable for tourist point of view having beautiful valley and surrounding areas. The above said newly areas have very much potential for eco-tourism point of view; the area is full of home stays and cottages in peaceful lap of nature. After proper training to farmers on cold water fish farming technology the programme has started and the seed of trout have been supplied free of cost and feed material on subsidized rate to the beneficiaries.



Trout Seed Procurement and Stocking



Farming location at Mohan Camp

The Stocking of small size seed procured from trout farm Shergaon having size 8 to 10 mm in well prepared pond have been done after proper conditioning. Proper feeding and care along with ample water supply of running water have been maintained in each pond and the regular netting have also been made for record of growth of

stocked material on monthly basis. The water quality parameters of ponds like temp, pH, TDS, Conductivity, DO and Ammonia etc. and the no. of tourist coming in their home stays have also had been recorded on monthly basis to observed the suitability and impact of the said programme.



Growth Performance of stocked material at one month

The growth of stocked material were found satisfactory at all the locations but in spite of that the surprising growth about 450 to 500 gms in 6 months (10 April to 23 October) had been

recorded in Sangti Goor trial location. This location was visited and the growth was also seen and appreciated by the Dr. A.K. Tripathi Director ATARI Guwahati Zone VI of that time.



Visit of trial sites in presence of Dr. A.K. Tripathi, Director ATARI Guwahati Zone VI

Programme Outcome:

After the 3 years of study (2019-2022) the data recorded and analyzed, revealed that the programme has a very good response in term of improved income of the farmers and increased tourist flow in their home stays. After seeing the success of this intervention, a horizontally spread of this technology had been observed at some more places in the district *i.e.* Domkho, Morsingh, Warrangapam, Thungri Lingbaktang and again at some new places like sangti Goor,

Bishumphudung, Sangti, Lish Gompache and Chug Village etc.

CONCLUSION

The result obtained clearly indicates that the tourism hot spot areas of the district should been linked with the trout / suitable cold water fish species farming for the fuller utilization of resources and better output in term of enhanced employment generation and improved economic and social security of the beneficiaries.