

PROGRESS REPORT

of

WOMEN TECHNOLOGY PARK FOR CAPACITY BUILDING OF TRIBAL WOMEN OF ZUNHEBOTO DISTRICT NAGALAND

Cumulative for the period 1st April 2015 – 31st March 2016



Catalyzed and Supported by

**SCIENCE FOR EQUITY EMPOWERMENT & DEVELOPMENT DIVISION
DEPARTMENT OF SCIENCE & TECHNOLOGY
TECHNOLOGY BHAVAN
NEW DELHI - 110 016**

A. SUMMARY SHEET

1. TITLE OF THE PROJECT: WomenTechnology Park for capacity building of Tribal Women of Zunheboto district Nagaland.
2. REFERENCE NO. OF SANCTION LETTER WITH DATE: SSD/WS/063/2010/G; dated 10th December 2012
3. PI NAME & ORGANISATION: **Prof. Dr. DipakSinha**
Department of Chemistry
NagalandUniversity
Lumami-798627; NAGALAND
Phone No: 9402988873
Email:dipaksinha@gmail.com
4. DATE OF START: 26th December, 2012
5. DATE OF COMPLETION:
SCHEDULED AND LIKELY Scheduled date of completion: 25th December,2015
Likely date of completion: December 2016 (extended)
6. TOTAL COST OF THE PROJECT:
SANCTIONED AND NOW ESTIMATED Total sanctioned cost of the project: Rs.51,86,337/-
7. STAFF SANCTIONED & IN POSITION: Staff sanctioned: Three:
One project coordinator and two project Assistant.

Staff in position: One: One Project coordinator
8. TOTAL EXPENDITURE:
(1st April, 2005 to 31st March, 2006) Rs. 4,37,145/-for General Component
Rs. 20, 86,400/ for the Capital component
9. ASSETS DEVELOPED OR
EQUIPMENTS ACQUIRED, IF ANY: (i) Meat Processing Unit

10. SUMMARY OF PROGRESS AGAINST APPROVED WORK-PLAN/TIME SCHEDULE OF ACTIVITIES IN THE PROJECT:

PERIOD	ACTIVITY
April – June 2015	Training Programme in making different fruit and vegetable preserves and bakery items
July – August 2015	Training programme on bakery items organized for women from nearby villages.
September – October 2015	Training programme on Fruit and vegetable and bakery items Organized especially for the housewives of the employees of Nagaland University
November 2015 to March 2016	Training programme on meat items

11. ISSUES NEEDING ATTENTION OF GOVERNMENT/LOCAL BODIES

Women of these areas are not aware of the skills needed for agro processing, so they are given awareness programme on these skills and local bodies like the village councils are given the awareness to take up the responsibility to make the women of their villages aware of the existence and the important role of WTP in helping them develop the needed skills. The local bodies of some villages have started doing the necessity to create linkages between WTP and women of different villages.

DETAILED REPORT

1. INTRODUCTION

Fresh agro products are available in plenty in Nagaland but the women of this area are not aware of the process of preserving the products in large amount with more durability. The reason for this is because of lack of training and awareness of the different modern methods of preservation.

Even meat is taken in plenty by the local people but it is mostly taken fresh or in smoked form. Other than that, most people are not aware of the variety of ways in which meat can be processed. The people who are aware don't have the needed skills.

Given the proper training, the women can be exposed to better and more ways and means of preserving the products. Through proper training, the women can also be given the opportunity to improve their economic condition by introducing them to different markets. Hence, 'Capacity building of women' in agro processing is important.

2. APPROVED OBJECTIVES OF THE PROJECT:

- Empowerment of local women through capacity building programme.
- Formation and management of women self-help groups;
- Enhancement of income generation capacities of women through training programmes aimed towards development of individual/ group entrepreneurship;
- Creation of linkages between women entrepreneurs and the market for sustainability of the programme;
- Creation of networks among different Women Self Help Groups (WSHGs) so as to extend income-generating facilities to maximum number of women;
- Creation of employment avenues in the region

3. PROJECT AREA: (Block, Village, Total Area Covered)

Total project area:

Zunheboto District covers a total area of 1255 square kilometers and is one of the centrally located districts of Nagaland. The district is divided into six blocks, viz, Zunheboto, Tokiye, Akuluto, Satakha, Suruhuto and Ghathashi.

Blocks and villages covered so far:

Names of block covered: Akuloto and Satakha

Names of villages: (i) Akuluto; (ii) Lumithsami; (iii) Sichimi; (iv) Lotisami; (v) Zaphumi; (vi) Sumi Settsu; (vii) Lumami; (viii) Sutemi; (ix) Alaphumi; (x) Shena; (xi) Vishepu; (xiii) Lukhai; (xvi) Aghuyito and (xv) Sataka

4. COMMUNITY BACKGROUND AND KNOWLEDGE LEVEL (Caste, occupation, including Traditional Knowledge & Practices followed)

Caste: Zunheboto is the home of the Sema tribe of Nagaland and their main religion is Christianity with 99% of Christian population. Though the people are quite aggressive in nature, they are a friendly community and committed to their works.

Occupation: Agriculture is the main source of livelihood of the Sema people of Zunheboto district and the main type of agriculture practiced is shifting cultivation, but 70% of the people living on the bank of Tizu river practice terrace cultivation. Since people mostly depend on agriculture for their livelihood, their economic condition is poor as the production is quite low.

Traditional knowledge & practices followed: The people of this area have been practicing the art of making medicines with the plants and animal parts using traditional handed down information. They are also aware of agriculture and animal husbandry practices of the ancestral ways. But the people have little or no idea of how much their area can be developed for horticultural practices.

5. METHODOLOGY & SYSTEMS APPROACH

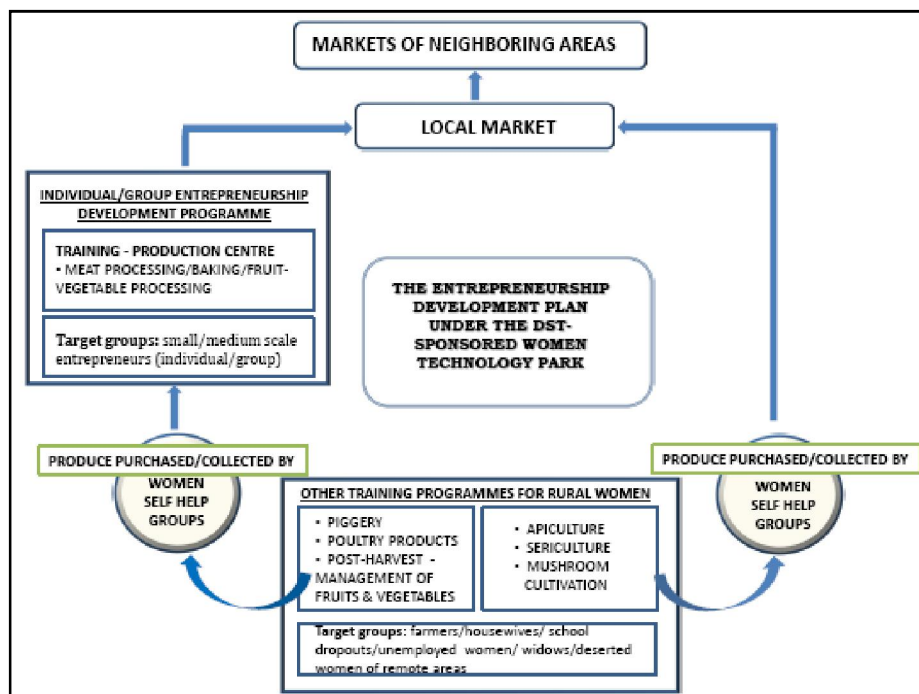
Survey: The diet, socio –economic status, occupation of the people, climatic condition, topography and farming practices of the people was needed to be understood in order to be able to help them in the right way. Hence a survey in this field was carried out in Zunheboto district of Nagaland. During each survey, the problem faced by women and the socio-economic status of the people was given the utmost importance.

PRA Exercise: The objectives of the project were made known to the people by having in-depth interactions with them. In Nagaland it is a must to initiate with the village council

headed by the village headman for any programme regarding social cause, so interactions with different village chiefs were had. A five-member WTP coordination committee has also been created by the University to facilitate the project so that the project is successful.

Community mobilization: *Azala*, the women’s organization, organizes different programme and participates in catering refreshment in different occasions that are held in nearby villages and the University in order to make more people aware of the functioning of the SHG and the benefits of the women. Through this, they make known, the objectives of WTP and how interested members can be benefited from it.

Technology identification: The work plan which was approved by DST is being followed and the **modulation and diffusion methods** are also according to the approved plan as given below.



Demonstration and training component:

Regular training programme on food-processing held at WTP center: Plenty of agricultural products are available in this area and most of the products are wasted. In order to diminish the risk of spoilage and prevent food wastage, food processing method is being introduced to the women by teaching them how to make jams, pickles, juices, chips and the modern drying method in microwave ovens using locally available fruits and vegetables.

Training Programme on making jams The women are taught to preserve the available fruits like banana, pineapple and oranges by making jams.

Training Programme on pickle making Pickles using locally available chilies, bamboo shoots, tomatoes, ginger and lemons are taught to make.

Training Programme on making juices Women are taught to make juices using locally available fruits like gooseberries, lemons and oranges, which otherwise would go to waste

Training Programme on modern drying method The method of drying in the sun or smoking it, is the common practice used to dry fruits and vegetables in this area, but this method causes the food to lose its color and reduces its nutritional value. So, the women are taught to dry the products using the microwave oven, which is less time consuming and also preserves the natural color and nutritious value.

Training Programme on making chips Making of tapioca chips, potato chips and jackfruit chips are taught to the women as it is produced in large quantity in this region

Regular training programme on baking held at WTP center: The taste for baked items such as cakes, bread and cookies and pastries has become increasingly popular among the people of this region. But with no sufficient outlets to meet the demands of the consumers, there is need for more producers. With that need in mind, women are taught to master their skills in producing bakery products.

- Training programme on baking cakes
- Training programme on baking breads

- Training programme on making biscuits
- Training programme on baking cookies
- Training programme on baking muffins

Regular training programme on meat items: Since the people of this region are mostly non vegetarians, meat is consumed quite regularly by the people. In order to introduce more variety to the meat items made by the people, trainings on different method of making meat items are given to the women.

- Training programme on grilling
- Training programme on roasting
- Training programme on fast-food non veg items.

Entrepreneurship development programme: WTP aims at imparting training to the women so that they become capable of starting small scale business which will help in increasing their economic condition. Hence regular training is given to the women to make them understand the significance of entrepreneurial skills. The trainings given are:

- Management awareness programme.
- Seminars on entrepreneurial skills
- Seminars on communication skills

Exposure trip to bakeries: Since the women have been given a first-hand look at the functioning of different bakeries in the nearby towns, they are also taken to visit bakeries outside their home towns so that they get a wider perspective and get more exposure by visiting varieties of bakeries. This will broaden their horizon and give them better ideas to start their own business

PICTURES OF DIFFERENT ACTIVITIES OF WTP



Participants of bakery training programme held at WTP training center on the 15th of June 2015



Resource person demonstrating the steps of making milky coconut laddoo on the 21st of April 2015



Azala member demonstrating the different procedure of measuring ingredients to the participants on the 14th of July 2015



**Demonstrating the steps for making butter cake to the participants
on the 3rd of September 2015**



Making of chicken burger on the 12th of November 2015



Some meat items made on the training date 26th of November 2015

TRAINING PROGRAMME

Summary of the training programme:

Training Programme 1: *Bakery training*

Total no. of bakery trainings: 15 Avg. no of Participants : 16

The following are the name of the items and the dates of the trainings:

Sl. No	Name of items	Date of Training
1	Mango cake	07-04-15
2	Milky coconut laddoo	21-04-15
3	Homemade chocolate ice-cream	06-05-15
4	Fruit tart	20-05-15
5	Red velvet cake	02-06-15
6	Eggless fruit cake	16-06-15
7	Finger cookies	30-06-15
8	Tiramisu	14-07-15
9	Chocolate chips cup cake	28-07-15

10	Cream puffs	11-08-15
11	Coconut biscuit	25-08-15
12	Cornflakes cookies	03-09-15
13	Apple pie	17-09-15
14	Pineapple cake	14-10-15
15	Strawberry shortcake	28-10-15

Training programme 2: *Fruit and vegetable Processing Training*

Total no of trainings: 7 Avg. no of participants: 10

Sl. NO	Name of items	Date of trainings
1	Chilly pickle	14-04-15
2	Guava jam	28-04-15
3	Fruit preserve	13-05-15
4	Mixed vegetable pickle	27-05-15
5	Tomato sauce	23-06-15
6	Pineapple juice	10-09-15
7	Apple jam	21-10-15

Training programme 3: *Meat items Training*

Total no of trainings: 8 Avg. no of participants: 14

Sl. No	Name of items	Dates of training
1	Chicken burger	12-11-15
2	Chicken spring roll	26-11-15
3	Chicken kebab	03-12-15
4	Grilled chicken	28-01-16
5	Meat balls	17-02-16
6	Grilled pork	26-02-16
7	Chicken tandoori	15-03-16
8	Roasted pork	29-03-16

6. TECHNICAL BACK - UP SUPPORT

1. Krishi Vigyan Kendra, Zuhnebotto district, Lumami, Nagaland

7. SCIENCE & TECHNOLOGY COMPONENT

Capacity building through agro processing is the main focus of WTP. Its chief aim is to know the commercial potential of all the locally available fruits and vegetables and use it accordingly. In order to increase its market value and advertise the local flavors, the products are seasoned with local herbs and other local taste makers.

8. PEOPLE'S PARTICIPATION FROM PLANNING TO IMPLEMENTATION

Azala a Self Help Group, comprising of ten members have been formed where all of them are local mothers residing in and around Lumami. This SHG is running smoothly and the members are all involved actively and enthusiastically. The product they are producing, are marketed in the locality and if there is surplus production, it is marketed in the far located market whenever demand exists.

9. INDICATORS APPLIED FOR MONITORING

Personnel training and skill up gradation and efforts to increase the income/ productivity is given Importance as WTP works at making the women organization to understand and appreciate the objective of WTP.

10. OBJECTIVES ACHIEVED SO FAR:

Objective	Achievements so far
Empowerment of women through capacity building programme	Training programme on bakery and fruit and vegetable processing offered at WTP training center regularly.
Formation and management women self- help groups	Women SHG group has been formed. This is beneficial for the other existing groups as well.
Enhancement of income generation capacities of women through training programme aimed towards development of individual/ group entrepreneurship.	Women are selling their products in nearby shops and in their neighborhood

Creation of linkages between women entrepreneurs and the market for sustainability of the programme.

To be pursued

Creation of networks among different Women Self- Help Groups (WHSGs) so as to extend income- generating facilities to maximum number of women.

To be pursued

Creation of employment avenues in the region. To be achieved in due course of time.

11. WORK REMAINING TO BE DONE UNDER THE PROJECT:

- Creation of networks among more Women Self Help Groups (WSHG) of the district so as to extend income- generated facilities to maximum number of women.
- Improvement of linkages between women entrepreneurs and the market
- Procurement of meat processing equipments.

12. AGENCIES/ INSTITUTIONS/ DEPT.'S LIKELY TO BE INTERESTED IN THE PROBLEM, METHODOLOGY, RESULTS, ETC.

Krishi Vigyan Kendra, Zuhneboto district, Lumami, Nagaland
Nagaland University

13. CONSTRAINTS, IF ANY:

Release of money in time is the main constrain. Further organizing training for villagers is a huge challenge as participants' expects honorarium for the training which is not possible as per the project present format

14. INTERVENTION OF DST REQUESTED FOR

DST may execute this type of project more realistically understanding the practical difficulties faced by PI's. Further DST may assure that money is released in time for effective implementation of the project.

15. DATE WHEN THIS REPORT WAS DISCUSSED WITH PROJECT TEAM/TARGET GROUP – AND BRIEF OUTCOME

In order to incorporate all the relevant points pertinent to WTP, the progress of the project was discussed with stakeholders regularly and report submitted here are the outcomes of various discussions.

A handwritten signature in blue ink that reads "Dipak Sinha". The signature is written in a cursive style and is placed on a light pink rectangular background.

DATE:

SIGNATURE OF PI