



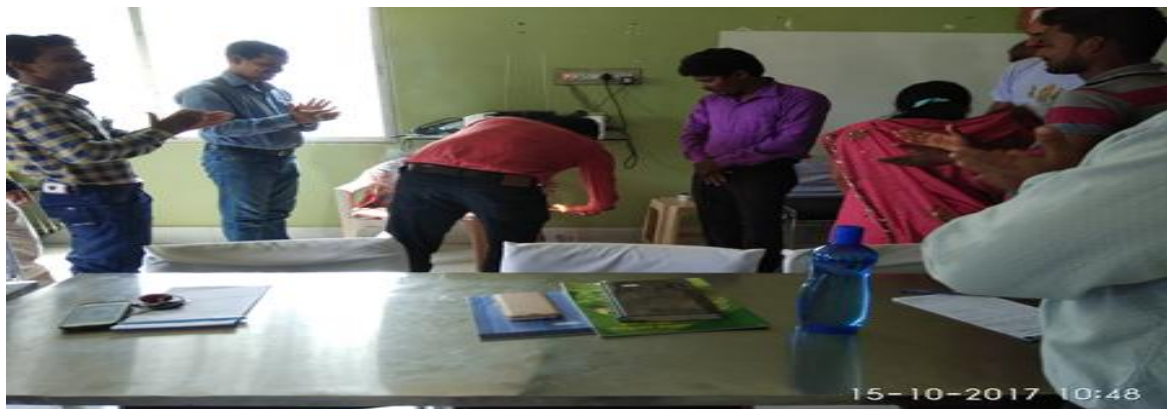
## **One Day District Level Training on Pest Management & Organic Manure Preparation Methods for Special Programme for Promotion of Millets in Tribal Areas of Odisha**

**Date: 15/10/2017**

**Venue: CBC Hall, Parivarttan, Malkangiri**

One Day District Level Training Programme on Pest Management & Organic Manure Preparation was successfully organized by the Programme Secretariat (WASSAN). The purpose of the training programme was to make the Project Coordinator and CRPs efficient enough in pest management and organic manure preparation methods.

The training programme was inaugurated by the chief guest, Mr. Chandra Sekhar Bhumiyra, DPD, ATMA. Then, Mr. Aswini Kumar Das, Program Officer, WASSAN had welcomed the participants, and a round of introduction was carried out by the participants. Mr. Aswini Kumar Das was of the opinion that the CRPs are the pillar of the Millet Mission Odisha. Therefore, the CRPs should be more vigilant towards the programme, and the main task of the CRPs to keep farmers motivated and make them result oriented.



The DPD, ATMA was requested to share his views and insights on organic manure preparation and pest management. He was of the opinion that the millets are as old as the tribal culture is. But due to the modernization and westernization, the culture as well as the traditional skills, knowledge, food habits have been continuously vanishing from the tribal society. The tribal community has a strong belief that the present generation has a lot to offer to their upcoming generation but the fact is that they have not been able to nurture the sustainable culture which can be beneficial for the future generations. He also talked about the Knowledge & facilities that are being provided by the Govt. departments on organic manure preparation methods. He had concluded his speech by motivating the Project Coordinators and CRPs to revive and promote millets as the staple food of tribal society.



Mr. PrakashChandra Mallick, DPC, WASSAN had elaborated the objectives of the training by analyzing the ill effects of chemical pesticides & manure, and how organic manure & pesticides can play a vital role as the replacement of the chemical pesticides & fertilizers. Thereafter, the Resource Person, Mr. AdityaPratap Singh Deo was requested to carry out the theory & practical sessions.

Mr. AdityaPratap Singh Deo had begun the session by elaborating the millets and traditional food habits. It was a kind of interactive session. The participant were asked about the varieties of millets by the resource person, and the participants were able to answer the local varieties like

Mandia, Suan, and Kangu. Mr. Adityahad thrown some light on types of millets, there are nine types of millets such as:

- 1) Mandiya
- 2) Suaan
- 3) Kangu
- 4) Kedjona
- 5) Kodo
- 6) Ganthiya
- 7) Barnyard millet
- 8) Poroso (in Andra Pradesh)
- 9) Browntop millets. (in Andra Pradesh)

Mr. Adityahad elaborated the types of soil and its fertility. Then, he discussed about the strategies of identifying pests. He had categorized pests in two ways i.e. enemy pests and friend pests. Thereafter, he had discussed the following themes on pest management

- Classification of insects, pests, type of crop pests.
- Economic Importance of pests.
- Lifecycle of insects and pests.
- Ecological, Biological, Physical and Mechanical method to control the pests.
- The name of pests, their identification marks and control in organic method.

Mr. Aditya is of the opinion that Neem leaf is one of the best ingredients of organic manure. He talked about the enemy and friend pests, their roles and how to identify the enemy and friend pest before using of the organic pesticides. The following organic manures and pesticides were described and demonstrated by the Resource Person such as;



### **Bijaamrita:**

**Material required:** One bucket of 25 liter's capacity, 20 liters of Water, 5kg Cow Dung, 5 liters Cow Urine, 250 gram molasses, one handful of fertile soil, turmeric powder 50 grams.

**Preparation method:** Take one bucket (A) and add 20 liter water. Take 5 Kg cow dung in a cloth and sink into bucket for 12 hours. Take another bucket (B) with 1 liter water and add 50 gram lime and kept for 12 hours. Take a bucket and mix both (A+B) solution and add 5 liter Cow urine and 50 grams turmeric powder. Our solution is ready for seed treatment.

**Application:** It is used for seed treatment and nursery.

### **Jibamrita:**

**Material Required:** One port of 25 liters, Cow dung - 20 Kg, Cow urine 10 liters, 2 Kg gud, Besan or dust of twigs 2 kg, 1 kg fertile soil.

**Preparation:** Take one bucket and mix cow dung and cow urine. Later small particles of gud and Besan or dust twigs will be added to this solution.

**Application:** It is used within 48 hours. Take 1 liter solution and add 20 liter (for one acre) water.

## **Handi Khata(Pot Manure):**

**Material required:** Pot -1, Neem Leaf- 1kg, Arkha Leaf- 1kg, Karanj Leaf (Pongamia) - 1kg, Cow dung- 1 Kg Cow urine-2 liters, molasses 50gm, one handful fertile soil.

**Preparation method:**At first take a pot and add cow urine & Dung then adds the chopped leaves (The ratio is same of three types of leaf) mix slowly and smoothly. Mix it in a clockwise only.

**Application:** Add 30-40 liter water in 1 liter solution of Handi Khata and spray it in the field with 7 days interval.



## **Egg Tonic:**

**Material required:** Eggs -5, one container with flat mouth, Lemon – 25, Gud 150 gram, water - 150 ml,

**Preparation method:** Take a Container and put the egg then extract the lemon juice into the bucket and kept for 4 days. Take out the egg from the bucket and mix the solution well. Then add 150 gram gud and 150 ml water and mix properly and close the mouth and kept it for 20 days. Ones in every 2 days mouth should be opened. After 20 days our solution is ready to use.

**Application:** It can be used for 3 months. It prevents the land from insects. For spray into one acre land we need to take 100 liters water and add the anda tonic solution.

## **Limba Astra**

**Material required:** Garlic- 250gm, 400 ML of Kerosene/karanj Oil/ Neem Oil, 2-4 gram dust of soap.

**Preparation method**

First take a bottle or Jar and add the oil and chopped garlic and Kept it for 24 hrs. Take one liters of water add 2-4 grams dust of soap than add 5 ml of limba Astra.

**Application:** Spray it in morning time or in evening. Every 15 days we can use. To control all types of insect etc.



After the demonstration of preparing organic manures and their mode of application, there was question answer session on the organic manures. Mr. Aditya concluded his session by showing the soil types (earlier he kept water and soil in a glass).Mr. PrakashMallick thanked the Resource Person for conducting such an insightful training.

At the end, the vote of thanks was given by Mr. Aswini Kumar Das, and Mr. BhubanandaSahoo, Madhyam Foundation had concluded the training program by singing two wonderful songs on millet production and consumption.



