

## Report on ICAR Sponsored Training Under Pt. Deen Dayal Upadhyay Unnat Krishi Siksha Yojana

ICAR Sponsored Training Under Pt. Deen Dayal Upadhyay Unnat Krishi Siksha Yojna was Organised by ICAR NRC for Orchids, Pakyong Sikkim at Sikkim Kalyan Ashram, Ranipool from 24/03/2017 to 28/03/2017.

**The 1st Day (24/03/2017)** Program was initiated with inauguration program with 65 participants including 35 farmers. Inauguration Program was started with ICAR song followed by lighting of lamp by Dr. H. P. Singh (Ex. DDG Horticulture) Chief Guest and Saraswati Bandana by the children's of Kalyan Ashram followed by welcome address and introductory remarks by Dr. D.R. Singh, Director, ICAR-NRCO, remarks by Shri Ram Pada Paira, i/c Kalyan Asram, Shri L.D. Subba, Vice-President, Kalyan Asram, Shri C.P. Giri, VHP and address by Dr. H.P. Singh, Ex-DDG (Hort.) & Chief Guest. Afterthat, three practical Sessions by farmers on Farmers inventory, Farmer's Practice and farmers list of challenges on organic/ natural farming.



Lighting of Lamp by Dr. H. P. Singh (Ex. DDG Horticulture) Chief Guest



Lighting of Lamp Chief Guest and other Dignitaries



Honoring to Dr. H. P. Singh, (Ex. DDG Horticulture) Chief Guest by Dr.D. R. Singh, Director, ICAR – NRCO, Pakyong



Welcome Speech by Dr. D. R. Singh, Director, ICAR – NRC for Orchids, Pakyong



Releasing of Souvenir



Interaction with farmers by Dr. H. P. Singh  
(Ex. DDG Horticulture) Chief Guest



Conclusion of 1<sup>ST</sup> Day program with National Anthem



Group photography with the participants along  
with the Guest and Dignitaries

**The 2<sup>nd</sup> day (25/03/2017) program** was completed by six lectures based on the following topics:

1. Principles of nutrient management through processes of nature, Zebu Cattle (Nitrate formation by lightning, plant waste recycling), Principles of nutrients management by role of micro organisms, Mulching and Green manuring by **Dr.A.B Sherpa CAE & PHT Ranipool.**
2. GAU KRISHI ADHIRAKSHINI SIDANTH (Zebu cattle based conservational agriculture), including focus on its breed conservation; understanding the issue of A1 – A2 milk with production methods of other Panchgavya products including proper method of cow urine collection and treatments of cattle diseases by **Dr. S.N. Yadav, CAE & PHT, Ranipool.**

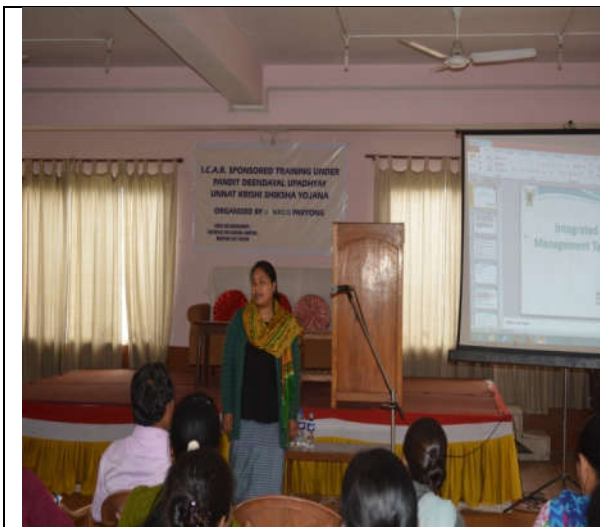
3. Gauchar Bhoomi Samrakshan (Cattle Grazing Common Property Resource Conservation) for providing innovation in feeding solutions for cattle of villages by **Shri. Norbu Tamang, Retd. ACF, Sikkim Kalyan Ashram, Ranipool.**
4. Understanding the role and importance of earthworm (endogenous – belonging to the village ecosystem), Production of enriched compost and vermi-composting, Production of bio-control agents- (Neemastra, Brahmastra, Agnestra, Dasparni ark etc.) by **Dr. R.Ch. Sangma, ICAR NRCO Pakyong.**
5. Sampling and testing of Soil for base line data of the field and for monitoring by **Dr. Ch. Birendrajit, CAE & PHT, Ranipool.**
6. Protected Cultivation Options by **Dr. L.C. De, ICAR, and NRCO Pakyong.**



Lecture by Dr.A.B Sherpa CAE & PHT Ranipool



Lecture by Dr. S.N. Yadav, CAE & PHT, Ranipool



**Lecture by Mrs. Rumki Ch Sangma, ICAR-NRCO**



**Lecture by Dr. Ch. Birendrajit, CAE & PHT, Ranipool.**

The 3<sup>rd</sup> Day (26/03/2017) program was completed by Five lectures based on the following topics:

1. Zero Budget Agriculture by **Dr. Satyanaryan, Siliguri.**
2. Water management through planning of optimized mix of crops and Advanced method of water management such as drip, sprinkler, micro-sprinkler. Other Water conservation techniques (emphasizing Per Drop, More Crop) – farm pond, check dam, bunding, land shaping for slope management; Raised – bed mulching and laser leveling; Irrigation scheduling and water budgeting, by **Dr. G.T. Patle, CAE & PHT, Ranipool.**
3. Water Quality Management by **Dr. A.K. Vasisht, CAE & PHT, Ranipool.**
4. Emphasis on alternative source of Energy shall be clarified as judicious mix of solar, wind, bio gas and bullock – power, could be done, in different ways, at different location, **By Dr. M.S. Seveda, CAE & PHT, Ranipool.**
5. Success Stories (Case studies & Videos), Important Varieties of flower Crop and their package of practice – Rose, Gladiolus, Chrysanthemum, Marigold, Rajnigandha, China Aster, Orchid, Anthurium, Gerbera, by **Dr. Raj Kumar, Scientist (Floriculture) ICAR- NRCO, Pakyong.**



Lecture by **Dr. A.K. Vasisht, CAE & PHT, Ranipool**



Lecture by **Dr. Satyanaryan, Siliguri**

The 4<sup>th</sup> Day program was completed start by two lectures and two practicals based on the following topics:

1. Identification of appropriate and locale specific variety of crops, vegetables, horticulture; focus on production of its seeds and provisioning of quality planting materials useful for the area, by **Dr. S. Manivannan (Sikkim University), Gangtok**.
2. Organic /ZB natural farming-based integrated farming system (Crops, fruits, vegetables, flowers, fish, poultry, duck rearing) by **Dr. L.C. De, Pr. Scientist, ICAR – NRCO Pakyong**.



Lecture by **Dr. S. Manivannan (Sikkim University), Gangtok**



Lecture by **Dr. L.C. De, Principal Scientist, ICAR-NRCO**

3. Practical on Farm Tools demonstration at CAE & PHT, Ranipool. By **Dr. S.N. Yadav, CAE & PHT, Ranipool.**
4. Farm visit (Practical Survey for farmers) at ICAR NRCO, Pakyong. Attended by **Dr. Raj Kumar, Scientist (Floriculture) ICAR – NRCO Pakyong.**

**The 5<sup>th</sup> Day** program was completed by four lectures based on the following topics:

1. Post – Harvest management, processing, value addition, storage, marketing with development of entrepreneurship through mentorship and guidance in the selection of enterprise, its launch with branding, By **Dr. S. Manivannan (Sikkim University) Gangtok.**
2. Group mobilization for community action- SHG, FPO/FPC, Farmers’ Club and promotion of methods such as custom hiring, by **Shri Karma Bhutia, Sajong-Rumtek, Sikkim.**
3. Latest Marketing Tools – Digital and Internet –based cashless system of transactions, By **Dr. Raj Kumar, Scientist (Floriculture) ICAR- NRCO, Pakyong.**
4. Raising finance and knowledge of Government Schemes and initiatives such as Unnat Bharat Abhiyan, which offer turn-key models of establishing organizational structure for Cluster of Villages in selected villages around the village of Nodal Officer (innovative farmers, who is conducting the training), By **Dr. D.R. Singh, Director, ICAR-NRCO, Pakyong.**



Lecture by Dr. D.R. Singh, Director, ICAR-NRCO



Group photographs of Farmers Participants

The program was concluded by distribution of certificates to the Farmers Participants, followed by advisory remarks by Dr. D.R. Singh, Director, ICAR-NRCO, Pakyong and ended with Vote of Thanks by Dr. L.C. De, Chairman, ICAR-NRCO, PDDUUKSY-1.