DEMONSTRATION ON USE OF GEO-TEXTILES (MADE FROM COCONUT FIBRE) FOR INSIDE LINING OF FARM POND

KVK in collaboration with Karnataka State Coir Cooperative Federation Ltd., Bengaluru organised Demonstration cum Awareness programme on use of Geo-textiles (made from coconut fibre) for inside lining of farm pond. The technology helps for long term storage of water. Demonstration was held at KVK farm pond. Shri D.R. Patil, Honourable Director of KVK’s Host Organisation inaugurated the programme and addressed the farmers to take suitable measures for rain water harvesting. Further, he suggested farmers to adopt new technologies for income security as well as for livelihood enhancement. The technology on use of Geo textiles developed by Coir Board for storage of water in farm pond is more durable, long lasting and in turn it helps in Ground water recharge. Shri M.K. Putteraju, Director, Karnataka State Coir Co-operative Federation briefed about various by-products prepared from coconut fiber. Further, Dr. H.R. Arunkumar, Managing Director of Karnataka State Coir Co-operative Federation Ltd, showed video on installation of Geo textiles for inner lining of Farm pond. Shri Ravi Inamati, President, Taluk Panchayat, Gadag insisted concerned Officers of Federation to install Geo textiles for farm pond as model at Gram Panchayat level. Shri C.B. Balaraddi, Joint Director of Agriculture and other Officers of State Department of Agriculture were present. More than 150 farmers participated in the event.

VISIT OF Dr. D.V. SRINIVAS REDDY, PRINCIPAL SCIENTIST (AGRONOMY), ICAR-ATARI, BENGALURU

Dr. D.V.S Reddy, Principal Scientist (Agronomy), ICAR-ATARI, Bengaluru visited NICRA project village and NFSM cluster demonstration fields on 21-07-2016 and 22-07-2016. During the visit, interaction with VCRMC members & farmers was made. The records and documents maintained by VCRMC members were observed. Further the visit was organised to Natural Resource Management works and other works such as Vermicompost units, Dryland Horticulture orchards, Small Weather Station units etc. Later Dr. Reddy visited the crop demonstration fields of Greengram + Redgram (5:1) inter cropping system, Maize + Redgram (5:1) intercropping system and foxtail millet demonstration fields. He appreciated the KVK Scientists for facilitating all these works at NICRA village and the farmers’ co-operation in initiating the works as well as in utilising the facilities of CHC created under NICRA. The field visits under NFSM cluster demonstrations of Greengram, Groundnut and Redgram at Kochalapur (Ron block), Beladadi and Nabhapur (Gadag block) were also organised where in the integrated crop management practices.
in newly introduced variety DGGV-2 in Greengram, GPBD-4 variety in Groundnut and TS-3R variety in Redgram were demonstrated. Dr. Reddy interacted with farmers on the utility of demonstrated technologies and suggested farmers to observe the performance of new varieties and maintain the seed chain for the next season.

FIELD DAYS

i) **Field day on Greengram**

ICAR-K.H. Patil Krishi Vigyan Kendra organised Field day on the demonstrated technologies in Greengram crop under NFSM cluster demonstration at Kochalapur (Ron Block) and Nabhapur (Gadag block) village on 10-08-2016 and 12-08-2016 respectively. The new high yielding and non-shattering DGGV-2 Greengram variety with all ICM practices were demonstrated in farmers' fields. Shri V.D. Vaikunthe, Scientist (Agronomy) explained about the special features of newly released variety, quality parameters and its performance in field conditions. Further, the pest and disease management in Greengram were explained by Shri S.K. Mudlapur, Scientist (Plant Protection). Shri N.H. Bhandi, Scientist (Soil Science) suggested farmers for soil analysis before Kharif season and based on the soil testing report, the fertilisers need to be applied to get higher productivity. More than 200 farmers participated in these two field day programmes.

ii) **Field day on Groundnut**

A field day was organised on 20-09-2016 on Groundnut crop at Beladadi village in Gadag block. Thirty three farmers are involved in the cluster demonstration programme covering 13.2 hectares. Integrated crop management technologies have been demonstrated. About 80 farmers, farm women, extension functionaries of Agriculture Department and NGO Staff participated in the field day.
i) Field days

a. Field Day on Greengram

ICAR-K.H.Patil Krishi Vigyan Kendra organised field day on Greengram + Pigeon pea intercropping at Mahalingapur village of Gadag block under National Innovations in Climate Resilient Agriculture (NICRA) on 15-08-2016. The new varieties of Greengram, DGGV-2 and Pigeon pea TS-3R were demonstrated along with ICM practices. The micro nutrient application through pulse magic and cycle weeder were also demonstrated. On this eve, Shri V.D.Vaikunthe, Scientist (Agronomy) explained the importance of intercropping of Greengram and Pigeon pea especially in rainfed agriculture. During Kharif season due to moisture stress if greengram crop fails, this loss can be compensated by Pigeon pea as it is drought tolerant and long duration crop. Hence, the demonstrated technology of intercropping of Greengram + Pigeon Pea is more profitable compared to the farmers’ practice of growing Greengram in Kharif followed by Sorghum in Rabi season. The farmers were very much convinced about the technology. Shri S.K.Mudlapur, Scientist (Plant Protection) explained the control measures for various diseases and pests. Shri N.H.bhandi, Scientist (Soil Science) briefed about the importance of soil testing and suggested farmers to go for soil and water testing. Based on the requirement, the fertilizers may be applied to crops. More than hundred farmers participated in the programme.

b. Field day on Foxtail Millet

Field day on Foxtail millet DHFt-109-3 variety was conducted on 09-09-2016 at Mahalingapur village of Gadag block. Shri V.D.Vaikunthe, Scientist (Agronomy) explained the importance of cultivation of foxtail millet in dry land area and its cultivation practices. The pest and disease management of foxtail millet was explained by Shri S.K.Mudlapur, Scientist (Plant Protection). Field visit was organized to millet plots. More than 80 farmers participated in the programme.

ii) Planting of Forestry Seedlings

The planting of forestry seedlings was taken up in 120 Ha area covering 135 farmers. About 6000 numbers of Teak seedlings and 3000 numbers of Silver Oak seedlings were planted in farmers' fields.

iii) Mixed Dryland Horticulture Promotion

Mixed dry land horticulture work was taken up in 20 ha in 45 farmers’ fields. The plants like Mango, Cashewnut, Tamarind, Amla, Jamun etc were introduced as alternate livelihood and to provide income security to farmers during drought situations.
iv) **Training Cum Exposure Visits:**

a. Training Cum Exposure visit on Dry Land Horticulture was organized to 25 farmers on 27-07-2016 to ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti.

b. Training Cum Exposure visit of 25 farmers of Mahalingapur village was organized on 27-08-2016 to successful farmers’ field i.e. Shri Basavaraj Navi of Suggalli village of Shirahatti taluk to see the Organic Farming, Crop Diversification and Integrated Farming System.

c. Training cum Exposure visit to Surashettikoppa village of Dharwad district was organized to 25 farmers of Mahalingapur village on 22-08-2016. The Natural resource management and Agro-Forestry works carried out by BAIF were briefed to farmers.

d. Training cum Exposure visit to UAS, Dharwad was organized to 28 farmers on 26-09-2016 to see the organic farming, Inter cropping, multi cropping system and other relevant technologies.

v) **VCRMC Meeting:**

Three VCRMC meetings were conducted for implementation of the programmes and to review the progress made from July to September 2016.

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**VILLAGE DEVELOPMENT PLAN**

KVK facilitated Field Experience Training of 6 ARS Scientist Probationers of 104 FOCARS from NAARM, Hyderabad. The trainee scientists have developed Village Agriculture Development Plan (VADP) for Binkadakatti village of Gadag block. A village seminar was organised in the village on 24-08-2016 for getting feedback on VADP. Shri Ravi Mulimani, Ex-President, Taluk Panchayat, Gadag expressed happiness about Village Agriculture Development Plan and based on VADP, works will be taken up shortly with the support of Gram Panchayat, I.C.A.R- K.H.Patil Krishi Vigyan Kendra, Development Department and other agencies. Dr. B.S.Sontakki, Principal Scientist, NAARM, Hyderabad requested the support of Gram Panchayat, Krishi Vigyan Kendra and Development Department for effective implementation of VADP. On this eve, Soil Health Cards were issued to farmers. Officers from Development Departments, KVK experts, Gram Panchayat Members, Panchayat Development Officer, Progressive farmers and SHG members participated in the discussion.

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**BI-MONTHLY MEETINGS AND KVK-ATMA INTERFACE MEETINGS**

Bi-monthly meeting KVK-ATMA interface meetings involving State Department of Agriculture, UAS Dharwad and ICAR-K.H.Patil Krishi Vigyan Kendra was held on August 26th, 2016 at KVK campus where in Associate Director of Extension and Scientists from UAS, Dharwad, Joint Director, Deputy Directors, Assistant Directors, AAOs and the staff of ATMA of Agriculture
Department of Gadag district and all KVK Scientists attended. The participants discussed about the crop condition of Kharif and Rabi crops, pest and disease management and rainfall. University Experts and KVK Scientists suggested suitable solutions to the field problems.

**TRAININGS**

**Training Programmes**

I. **Farmers/ Farm women/ Youths**

- Training programme on Integrated Nutrient Management in Greengram and Groundnut was conducted to 110 farmers during July 2016.

- On campus Training programmes on production technology in Kharif & Rabi crops and foxtail millet was conducted to 164 farmers.

- Training Programme to farmwomen on less smoke producing and fuel efficient chulhas at Eklasapur (Mundaragi block) and Khanapur (Naragund block) villages were conducted during August, 2016.

- Scientific Poultry farming training programme was conducted for 2 days on August 5-6, 2016 to 15 rural youths.

- Seventeen on campus training programme on Orchard Development, Dryland Horticulture, and Income Security in Dryland area were conducted to 698 farmers of Gadag district during July & August, 2016.

- Training programme on Cultivation of Ashwagandha and its economics was organised during July 2016.

- Training programme on Integrated pest and disease management was organised to 414 farmers during July & August 2016.

- Training & Demonstration on Organic Farming and Vermicompost preparation was conducted to 225 farmers during July & August 2016.

- Seminar on Rabi Crops was conducted on 30th August 2016 at Radder Naganur village of Naragund block. More than 100 farmers of Khanapur and Radder Naganur villages participated and discussed the cultivation practices and pest & disease management in major crops, importance of soil health and soil testing, Health and Nutrition along with other relevant subjects.

- Training programme on value addition of millet under FLD on cultivation & value addition of millets was organised to farmers & farm women on Sept 19, 2016. The preparation of diabetic mix and foxtail millet biscuits were demonstrated.

- Training on post harvest technology in Greengram and demonstration of Spiral Separator under NFSM was conducted at Nabhapur village of Gadag block on 17-09-2016.
II. Extension Functionaries

- Training programmes on Health, Nutrition, Food, and Importance of Millets and Establishing Nutrition Garden were organised to Anganwadi teachers of Women and Child Welfare Department. Totally 8 training programmes were organised to 187 Anganwadi teachers. The Literatures and Brouchers containing information on Millets and Balanced diet and establishment of Nutrition Garden were given to trainees.

- Oncampus training on 31st August, 2016 was organised to Livestock Inspectors working in Karnataka State Animal Husbandry and Veterinary Services. Exposure visit to Dairy unit, Azolla unit, fodder crops and Vermicompost units were organised.

Sponsored Training Programmes

- In collaboration with Agricultural Science Foundation, KVK organised two training programmes on Scientific Dairy Farming to 68 Rural Youths.

- Under Sponsorship of Malaprabha Command Area Development Authority, KVK trained 535 farmers belonging to Naragund, Navalagund, Savadatti and Ramadurga Taluks. The major focus of trainings was on importance of Soil Health, Water and Crop Management in Malaprabha Command area.

- In collaboration with Karnataka State Department of Agriculture, KVK conducted 9 training programmes to 270 farmers.

- 46 farmers from Coimbatore district of Tamil Nadu under ATMA project visited KVK and undergone training on production technology of Millets and Value Addition.

TECHNICAL INTERVENTION FOR FPOs / FIGs

- Technical Support and Seed Production
  KVK has provided 15 Kg of foundation seeds of Arka Kalyan variety of Onion to Farmers Producers’ Organisation (FPO), for taking up seed to bulb and bulb to seed production activities. Twenty one farmers of FPO have been involved in the Onion Seed Production activities under the guidance of KVK. About 32 FPO members have been also trained from 25-27, July, 2016 on Integrated Crop Management Practices in Greengram, Onion and Maize.

- Exposure Visit
  An exposure visit to Karnataka State Agricultural Produce and Export Corporation Ltd., Hubli (KAPPEC) was organized on 31-08-2016 for the members of Shri Puttaraj Gavai Horticulture Farmers Producers organization, Gadag. The FPO members who are Mango growers were exposed to Cold Chain Management Process for Export of Mango fruits. The FPO is planning to tie up with KAPPEC for production of quality Mango fruits as per export specifications.
Orientation Training on FPO/ FIG

KVK has organized orientation training on 27-07-2015 on “Farmers Producer Organisation” for the Directors of Village Farmers Associations of 10 villages in Gadag block formed by Reliance Foundation, Gadag. The farmers were sensitized on importance of organization of FPO in the present context. About 28 farmers and 4 extension functionaries of Reliance Foundation participated in the training.

Orientation training on Farmers’ Interest Group (FIG) formation was organized on 01-08-2016 for the farmers of Hosalli and Huilagol villages in Gadag taluka. Thirty nine farmers participated in the programme.

WORKSHOPS / SEMINARS / TRAININGS / MEETINGS ATTENDED BY KVK STAFF

- Dr. L.G.Hiregoudar, Senior Scientist and Head and Mr. V.D.Vaikunthe, Scientist (Agronomy) attended Review Cum Action Plan meeting of cluster Front Line Demonstration under NFSM and NMOOP at UAS, Dharwad on 07-09-2016.


- Shri S.H.Adapur, Scientist (Ag. Extension) attended “SREP training” at UAS, Bengaluru during 8-11 August, 2016.