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Message from Director Desk

I am happy to know that Krishi Vigyan Kendra, Anjaw is publishing Half Yearly "KVK Newsletter". In present context, the young team of Krishi Vigyan Kendra is dedicated enough to bring the positive changes in the farming community by extending newly and scientifically proven technologies to farmers, growers and entrepreneurs as agriculture production and productivity will increase manifold. I think this newsletter will act as felicitator for extending

technologies to farmers and communicating recent development of Krishi Vigyan Kendra to all stakeholders including farmers.

I know that this work was initiated under guidance of Director, ATARI Zone-III and Joint Director, A.P. Centre, Basar. They also deserve appreciation for initiating new and innovative step towards bringing the prosperity to the farmers.

I congratulate Dr. Manish Kanwat, Sr. Scientist & Programme Coordinator (KVK) and his young and dynamic staff of Krishi Vigyan Kendra, Anjaw for publishing this very informative newsletter. I am sure that this newsletter will serve the purpose of educating farmers for simple, efficient & convenient rural oriented technologies

With sincere regards,



DR.S. V. Ngachan,
Director,
ICAR-RC for NEH Region,
Umiam, Meghalaya.

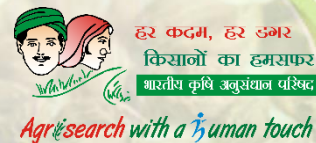
Message from ATARI Desk

I am happy to know that Krishi Vigyan Kendra, Anjaw is publishing Half Yearly "KVK Newsletter" covering the varied agricultural activities it undertook since establishment. It is heartening to note that KVK Anjaw has been instrumental in showcasing the power of technology in transforming agriculture in the district besides building the competitiveness of the Kendra to handle farm and farmers issues in an effective manner. While these is reason to rejoice, let us not forget that we have to go to bring extra smile in our farmers face by providing worthy technologies. The whole hearted efforts of KVK, Anjaw will certainly make a niche in the agricultural extension system of Anjaw district. I extend my heartiest wishes to Dr. Manish Kanwat, Sr. Scientist & Head, KVK Anjaw & his young team for publishing such useful and informative newsletter.



DR. A.K. Tripathi,
Director (Acting)

ICAR-Agricultural Technology Application and Research Institute,
Zone-III, Umiam, Meghalaya.



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KVK NEWS

KVK Anjaw celebrated International Year of Soil' 2015 at Hayuliang

On the occasion of International Year of Soil'2015, KVK Anjaw observed Soil Health Day, on 5th December, 2015 at Community Hall, Hayuliang. The function was started with welcome address offered by Dr



Manish Kanwat, Senior Scientist cum Head, KVK Anjaw. In this occasion Shri. B Towsik, Additional Deputy Commissioner, Hayuliang graced this occasion being as Chief Guest during his presidential speech he also appreciated the efforts done by the team of KVK, Anjaw for distributing the Soil Health Cards to 277 farmers of 10 villages which comes under in Hayuliang and Metengliang circle. He applied to the farmers to make use of Soil Health Card in order to excel the crop production in the district and help them for making self-sufficient and self-reliant in the food security. In the end of programme KVK Anjaw distributed the quality Cabbage and Turnip saplings to the individual Soil Health Card holders for getting better vegetables production



Deputy Commissioner of Anjaw visited at KVK Metengliang farm.

On 9th of December'15, Mr. N. Ete, Deputy Commissioner, Anjaw, Mr. B. Towshik, ADC, Hayuliang, Dr. T. Ete, C.O along with team of Senior Executive Officials of different line department for the first time visited the KVK Metangliang farm, at Anjaw District. The team were given a warm welcome by Dr. Manish Kanwat, Senior Scientist & Head of KVK Anjaw, along with his KVK team Ms. Rebecca Eko, SMS (Horticulture), late Er. Uday Bhandari, SMS (SWCE) and Mr. Prasanta Mahanta, Farm manager. The delegates were shown the KVK farm premises covering an area of about 20 hectares and were further demonstrated the ongoing farm activities such as Vermicompost unit, Polyhouse unit, Nursery raising block and Agronomy block of the farm. Visiting team after inspection of ongoing farm activities, appreciated the consistent efforts made by KVK staffs for developing the farm up to this level within few months since inception on April 2015. Mr. N. Ete, Deputy Commissioner, Anjaw wished the KVK team and asked them to be work as a light house to enlighten and serve the farming community of this remotest district of Arunachal Pradesh. In this continuation he also seeks their help to motivate the young and unemployed youth to establish their own venture



Attended workshop on District Contingency Plans of Arunachal Pradesh

ICAR RC for NEH Region AP Centre, Basar was organized 2 days workshop on "District Contingency Plans of Arunachal Pradesh" from 3rd-4th June, 2015 at Basar. At the very outset, Dr A. K. Tripathy, Director (i/c), ATARI, Zone III graced the programme as Chief Guest, Dr R. Bhagawati, Joint Director, ICAR, A. P. Centre as the President, Dr G. Rabindra Charry, Principal Scientist, CRIDA (Hyderabad) as the Guest of Honour, Dr Deepjyoti Rajkhowa, PS & Head (Agronomy), Dr Samar Hazarika, PS & Head (Soil Science), Dr S. K. Das, PS & Head (Fisheries) from ICAR RC for NEH Region, Umiam (Meghalaya), Dr P. K. Sarmah, Chief Scientist and Dr P. Neog, Associate Professor, BNCA(AAU), Shri Toli Bam, SDAO, Basar, Dr Dagge, Sr. Vety. Officer and Shri Zumsen Bam, ADO (MCP), Basar represented their respective departments in the workshop. The Programme Coordinators and SMSs representatives from different KVKs of Arunachal Pradesh presented their respective District Contingency Plans and discussed thoroughly in the technical session and recommendations were made as per the prevailing situation of the respective districts. Dr. Tilling Tayo, Prasanta Mahanta and Keshab Ch. Gogoi were presented from KVK Anjaw in workshop.



Animal Health Camp conducted at Goiliang



First ever Animal camp was held at Goiliang circle under Anjaw district, organized by ICAR, Krishi Vigyan Kendra (KVK), Anjaw on 27th August 2015. Dr. Tilling Tayo, SMS (Animal Sc.), leading the teams of scientific staff of KVK, stock man of Veterinary Department Govt. of Arunachal Pradesh, Hayuliang and coordinating the president of Nyilang farmers club, successfully organized the Animal Health camp, considering the



local needs of farmers to prevent and control the disease which have negative effect on the animal performance thereby reducing the income generation due to morbidity and mortality of animal. As many as 170 Pigs, 10 Goats, 20 Mithuns, 15 cattle and 120 poultry have been dewormed and more than 57 animal including (pig, goat and poultry) had been diagnosed and symptomatically treated accordingly. Programme concluded with visit to piggery farm of rural youth where 15 out of 25 piglets were suffering from diarrhea and malnutrition.

Team of Scientists Done the Soil Samples Collection at Anjaw

Under the Soil Health Card Scheme launched by the Government of India in February 2015, a team of KVK Anjaw led by Senior Scientist cum Head Dr. Manish Kanwat and all KVK Scientists visited Suphliang, Chameliang, Metengliang and remotely situated with high altitude Barfu villages (1693m above MSL) of Anjaw district. Further, awareness information about "Soil Health Card" were also imparted to the farmers which will provides crop wise recommendations of nutrients and fertilizers required for the individual farmers to enhance crop productivity. The collection of soil sample was done with the aim to aware the farmers about the soil fertility status and promote soil test based nutrient management through analysing the strength and weakness of the soil.



Diagnostic Visits Conducted

A diagnostic visit was conducted by a team of KVK Anjaw comprising of Subject Matter Specialist Senpon Ngomle (Plant Protection), Subject Matter Specialist Khoisnam Naveen (Agronomy) and Keshab Ch. Gogoi (Programme Assistant) to Mr. Parthesa Manyu's large cardamom and maize field at Barfu village on 12th July, 2015.



During the visit the team monitored the field of large cardamom and maize. In large cardamom field Senpon Ngomle observed heavy infection of leaf blight disease, almost 80 percent of the plants dried up showing sun burn appearance. He suggested the farmers to apply copper containing fungicides like Blitox @ 3gm / lt of water to control foliar fungal disease or Trichoderma @ 4ml/ lt can be apply to avoid chemical spray and also suggested the farmers to grow shade tree to avoid sun scorching. Khoisnam Naveen also inspected the maize field where plants were found infected with turicum leaf blight. He suggested the farmers to apply mancozeb @ 2.5g/l at 810 days interval or to go clean cultivation by destroying the infected plants.

Monitoring cum Diagnostic Visit

A team from KVK Anjaw comprising of Subject Matter Specialist Shri Soibam peter (Social Sciences), Shri Senpon Ngomle (Plant Protection) and Khoisnam Naveen (Agronomy) conducted a monitoring cum diagnostic visit to Shri. Sorem Chaitoum's and Sosai Chaitom's field at Sopliang village under Metengliang circle on 27th June, 2015. During the visit, the team monitored the cultivation practices in case of maize, cowpea and also for horticultural crops. Later, the Subject Matter Specialist (Agronomy), Naveen Khoisnam identified the maize and cowpea field infected with stem borer, leaf blight and yellow mosaic virus. He advocated the farmers to go for uprooting and destruction of the infected plants of cowpea and encourages farmers for intercropping of maize with cowpea as ecofriendly measures of reducing the incidence of stem borer. Senpon Ngomle, Plant Protection Specialist identified pest and diseases occurred in citrus, banana and pineapple. He suggested the farmers to prune the affected plants parts and destroy them in order to avoid further spread and damage. Subject Matter Specialist (Social Sciences) S. Peter Singh also discussed on various issues like improper market location, market linkage, communication and transport system and suggested to creates the Producers Association and also stressed to start the group marketing in the district to get better price of their produce by reducing the input cost in cultivation & transportation.

Attended ATMA meeting organized under State Agriculture Department, Hawaii

Krishi Vigyan Kendra, Anjaw participated in the annual governing body meeting which was organized by State Agriculture Department, Hawaii on 14th of July, 2015. The meeting was accompanied by D.C, DHO, DFO, KVK Scientist, Branch Manager, Hawaii and ASM. During the meeting various activities regarding the promotion of agriculture and horticulture crops were discussed. DAO, C.P Sharma who is also the Director of the ATMA Project stated that in order to develop a state or a country agriculture is the first and foremost important sector. Therefore, dissemination of newly developed scientific technology in every nook and corner of the district is the need of the hour. N. Ete, Deputy Commissioner of the district



highlighted the scope and importance of horticulture crops especially the Large Cardamom which occupied a huge platform for fetching huge amount of income to the farmers. KVK, Anjaw which is the Nodal Agencies in the district highlighted the importance of ATMA Project which aims at promoting agriculture and allied sector through research and validation of technologies at grass root level.





Exploration Study

Anjaw district of Arunachal Pradesh is situated in the eastern most Himalayan belt of India having its international boundaries with China and Myanmar. The district is inhabited by the Mishmi tribal people. The district is blessed with varied agro-climatic situations like alpine, temperate and sub-tropical zone. Hence, this district is the home for many unknown, endangered, medicinal and aromatic plants such as *Paris Polyphylla*, *Taxus Baccata*, etc. So an exploration study entitled "Edible Indigenous Vegetables and Medicinal Plants in Anjaw district, Arunachal Pradesh" was conducted on 28th November'2015 at Goiliang circle, Anjaw District to identify, document and conserve it. The team comprised of Mr. K. Naveen, SMS (Agronomy), Ms. Rebecca Eko, SMS (Horticulture) and Mr. Peter Singh, SMS (Social Sc.). The farmers interacted with the team and gave their valuable information.

Farmers Scientist Interaction



One day "Farmer Scientist Interaction Programme on large Cardamom" was conducted at Hayuliang on 29th of Nov, 2015. The programme was graced and chaired by Mr. B Towshik, Additional Deputy Commissioner (ADC), Hayuliang as the Chief Guest and Mr. Kri, Circle Officer (C.O), Manchal as the Guest of honour. The other dignitaries who attended the workshop were Dr. Manish Kanwat, Senior Scientist & Head of KVK, Anjaw, Mr. H.A. Vijaya, Deputy Director, Spice board, Mr. T. Hai, Horticulture Development Officer (HDO), Dr. Deka, Senior Scientist, Spice board, Mrs. Vijeeshna, Senior Field Officer, Mr. Bhattacharjee, Agriculture Development Officer (ADO) and Ms. Rebecca Eko, SMS (Horticulture), KVK Anjaw. Around 70 farmers across the different circles of the district attended the programme and actively participated and benefitted from this valuable Farmers Scientist Interaction programme.



PRA conducted at Metengliang village

A PRA (Participatory Rural Appraisal) was conducted at Metengliang village by Social Scientist of KVK Anjaw from 16th -18th November, 2015 to know the real ground realities of the village and identified various available resources, weakness and overall socio-economic conditions of the area. Mr. Chandolum Chiba, the ex-gram Panchayat member and Ajimso Chiba was helped as key informant during transact walk and he enlighten on major issues like land uses, topographical pattern, cropping pattern, water resources, natural vegetation and different micro-farming situations were observed through observation and discussion. Further, Social mapping, resources



mapping, wealth ranking, technology mapping, time line of the village, mobility mapping and seasonal analysis was also done to overcome the overall constraints existing in the village through different intervention related to agriculture, horticulture, veterinary etc.



During the PRA exercise, farmers expressed their keen interest to involve in such activities and majority of the suggestions and solutions were also provided from farmer's side which were also recorded for further planning as well as intervention related to agriculture to improve the overall socio-economic condition of the villages

TRAININGS / WORKSHOP

Since inception of this KVK Anjaw in the year of 2015-16 different training programme particularly designed as per their needs and requirement for the practice in the district were organized to upgrade their knowledge and skills in the frontier areas of agricultural technology development. A total of 22 Training courses benefitted a total of 904 Participants. Out of the total number of participants were 651 male and 252 female. The participants in the vocational training programmes mainly comprised of farmers, farm women and rural youth. The training programmes were organized to upgrade their knowledge and skills in major areas of crops production, Crop Protection, Animal Science, Horticulture, Soil Water Conservation and Social Science.

Details of Training programme conducted till 31st December, 2015.

Sl. No	Trainings/Topics delivered/Workshop/Seminar	Venue	Date	Name of Scientist
1	Training on Integrated Farming System (IFS) and Vermi Composting	Chipru	6 th May, 2015	Dr. Tilling Tayo & Er. Uday Bhandari
2	Upland rice cultivation	Walong	14 th May, 2015	Mr Khoisnam Naveen & Mr Senpon Ngomle
3	Broiler farming for sustainable income generation	Chameliang	17 th May, 2015	Dr. Tilling Tayo
4	SHGs formation for improving the socioeconomic status of low income groups	Chipru	1 st July, 2015	Mr S. Peter Singh
5	scientific cultivation of large cardamom	Ziro	8 th July, 2015	Ms Rebecca Eko
6	Agro techniques of maize cultivation	Tafraliang	9 th July, 2015	Mr Khoisnam Naveen
7	Training on Oyster mushroom production	Chameliang	12 th July, 2015	Mr Senpon Ngomle
8	Integrated Disease Management in Citrus	Sopliang	5 th & 6 th Aug, 2015	Mr Senpon Ngomle
9	Farmers Club Programme	Goiliang	14 th Aug, 2015	Mr S. Peter Singh
10	Protected cultivation technology	Tafraliang	25 th Aug, 2015	Er. Uday Bhandari
11	Scientific cultivation of Large Cardamom	Manchal	25 th Aug, 2015	Ms Rebecca Eko
12	Identification of efficient marketing system for proper disposal of produce agriculture and horticulture crops	Tafraliang	26 th Aug, 2015	Mr S. Peter Singh
13	Mushroom Cultivation	Tafraliang	21 st Sep, 2015	Mr Senpon Ngomle
14	Nursery management of Cole crops	Tafraliang	21 st Sep, 2015	Ms Rebecca Eko
15	Integrated Farming Systems for Enhanced Resource Use Efficiency and Livelihood Security of Small and Marginal Farmers	Goilang	22 nd Sep, 2015	Mr Khoisnam Naveen
16	Integrated Pest Management in Citrus and Integrated Weed Management	Walong	25 th Sep, 2015	Mr Senpon Ngomle & Mr Khoisnam Naveen
17	Package of practices for Large Cardamom	Goiliang	27 th Sep, 2015	Ms Rebecca Eko
18	Farm Mechanization	Paya	6 th Oct, 2015	Er. Uday Bhandari
19	Oyster mushroom cultivation	Paya	8 th Oct, 2015	Mr Senpon Ngomle
20	Nursery Management of Cole Crops	Metengliang	10 th Oct, 2015	Ms Rebecca Eko
21	Vermicompost - A source for organic farming	Tafraliang	16 th Oct,	Mr Khoisnam

			2015	Naveen
22	Trainings on integrated pest management	Tafraliang	23 rd Oct, 2015	Mr Senpon Ngomle

Workshop/Training/ Seminar/ Meeting attended:

Sl. No	Title Name	Venue	Date	Name of Scientist
1.	Trainers on Entrepreneurship development in food processing	Hyderabad	20th -24th July 2015	Ms Rebecca Eko
2	Workshop on Soil Health Card Distribution	Itanagar	2 nd Nov 2015	Dr. Manish Kanwat
3	Training on Soil Testing kit	Itanagar	18th Nov 2015	Dr. Tilling Tayo & Mr Prasanta Mahanta

DEMONSTRATION

Quality planting materials

To popularize the concept of Winter/Rabi crop cultivation in Anjaw district, nursery beds were prepared and near about 5000 approx. seedlings of winter crops of cabbage, broccoli, tomato, etc were raised in the ICAR-KVK Metengliang farm. These quality seedlings were distributed to the farmers of Supliang, Bomna, Tafraliang, Nilang and Metengliang villages. Field demonstration on nursery preparation and its management, transplanting in the main field and line sowing with proper spacing were demonstrated by learning and doing process. The farmers were encouraged to adopt vegetable farming in commercial scale so as to meet their domestic requirement as well as to earn extra income by selling their surplus produce round the year.



Demonstration on Bordeaux Mixture Preparation

Citrus being one of the important fruit crops of Anjaw district of Arunachal Pradesh, its proper management is paramount for getting higher yield. Keeping these facts in view a method demonstration was conducted by a team of KVK Anjaw on Bordeaux preparation and its application in Citrus Orchard at Sopliang village on 12th August 2015. Altogether 48 farmers participated in the programme.



Condolence Message



It is to inform you all with sorrow of heart that one of our KVK staff and our beloved friend Er. Uday Bhandari, SMS (SW&E) suddenly demised during the discharge of his office duty at KVK farm, Metengliang on 26th Dec, 2015. Unfortunately, he felled from wooden steps and left us due to brain haemorrhage. We lost our active, energetic, enthusiastic worker who always discharge his duties with smile, we not only lost a good friend but also a great human being amongst us. We pray to our almighty for eternal peace of his departed soul and give strength to his bereaved family members and dearest ones.



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Published by: Dr. Manish Kanwat, Programme Coordinator

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