

Proceedings of Annual Zonal Workshop of KVKs, 2011-12

(April 25-27, 2012)



Zonal Project Directorate, Zone- III, ICAR, Barapani,

(Umiam) - 793103, Meghalaya

ANNUAL ZONAL WORKSHOP OF KVKs, 2011-12 (April 25-27, 2012)

Proceedings of the Annual Zonal Workshop of KVKs, 2011-12 under Zonal Project Directorate, Zone-III during 25-27 April, 2012 at Imphal hotel, Imphal, Manipur

The Annual Zonal workshops of KVKs of North Eastern Region, Zone III, 2011-12 was organised in the month of April between 25-27, 2012 at Imphal hotel, Imphal, Manipur. This Zonal workshop was organised by ZPD Zone III, ICAR, Umiam, Barapani in collaboration with Joint Farming cum Pisciculture Cooperative Society, Utlou, Bishnupur, Manipur. A total of 74 KVKs participated in the workshop. The zonal workshop was held for three days in 3 technical sessions of two groups (Group-A and Group-B). The two groups presented the annual report which went parallel in the same hotel for three days except some common sessions. The workshop agenda and the technical sessions held are given in the **Annexure-I**.

Inaugural Session

The inaugural session of the Annual Zonal workshops was chaired by Dr. A.K. Gogoi, ZPD, Zone-III and Co-Chaired by Dr. A.K. Singha. This Zonal workshop was graced by important dignitaries. The chief guest of the function was Dr. P.G. Chengappa, Chairman, QRT & former Vice Chancellor, UAS. The other guests who are present in the dais are Dr. B.K. Konwar, Vice Chancellor, Nagaland University, Dr. H.C. Bhattacharyya, Director of Extension Education, Assam Agricultural University. Dr. Palendro Singh, Director of Agriculture, Government of Manipur. Dr. A.K. Gogoi, Zonal Project Director, Zone III and Shri T.H. Chaoba Singh, chairman Utlou Joint Farming cum Pisciculture Cooperative Society & Ex- Union Minister.

The QRT team members Dr. Y.P. Dabbas and Dr J.K. Jindal, Dr.Premjith Singh, Director of Extension Education (Central Agricultural University), Dr. N. Prakash, Joint Director, ICAR-RC for NEH Region, Manipur also graced the function.

Dr. R.K. Imotomba Singh, Programme coordinator, KVK Bishnupur welcomed the all the members of the inaugural function.

Outlining the themes and objectives of the workshop, Dr. A.K. Gogoi, ZPD, Zone-III, stated that the objective is to change from cropping system mode to farming system mode. He further urged the subject matter specialists to work in a scientific mode.

The speech was followed by Dr. Palendro Singh, Director of Agriculture, Government of Manipur. Firstly, he thanked Dr. A.K. Gogoi, ZPD, Zone-III, for organising this Zonal workshop in Manipur. He added that the facilities like soil testing lab should be given to all KVKs so that farmers could test their soil samples for application of balanced fertilisers. He

requested the ZPD, Zone-III, to initiate action to produce quality seeds either in the farmers' field or in the field of KVK. In the training component of farmers the topics like bio fertilisers, water harvesting are stressed. Further the traditional method of cultivation need to be changed to scientific method of cultivation in Manipur.

The Director Extension Education, Assam agricultural university, Dr. H.C. Bhattacharya said that the farmers need more profit and disclosed that farmers are experiencing distress sale particularly in Assam. The need of the hour is that the KVKs which are the largest network in the world need to create market linkages. He agreed to the observations made by Director of Agriculture, Manipur. He replied to the suggestions put forth by Director of agriculture Manipur. He stated that there are number of KVKs which are producing bio fertilisers under DBT project. He also emphasised that KVKs already earned the credibility of the farmers and the NGOs have the flexibility. Hence the organisations are to be blended together for the benefit of the farming community.

Dr. B.K. Konwar, Vice Chancellor of Nagaland University highlighted the existing problems in agriculture in the region and the scope of higher production and productivity including bio-diversity conservation and maintenance. Further he emphasised the important role of KVKs in the region in the overall development of agriculture including capacity building of the farmers and rural youth.

The following publications were released by the dignitaries during the inaugural session:

A. List of Books published by Zonal Project Directorate, Zone-III:

1. Farmer-Led Innovation for Increased Productivity under Climate Change Scenario
2. Showcasing Frontier Technologies: An approach towards achieving Climate Resilience

B. List of publications from KVKs, Zone-III during the Annual Zonal Workshop:

1. Kitchen gardening (Chultuah Huan Siam) KVK Mamit, Mizoram
2. Papaya – scientific cultivation – KVK West Tripura
3. Ka integrated disease management ha U KBA, KVK East Khasi Hills
4. Induced breeding of carps – KVK Ri-Bhoi
5. Scientific cultivation of chow chow, KVK West Tripura
6. Ka integrated pest management ha U KBA, KVK East Khasi Hills
7. Newsletter No 2, KVK West Khasi Hills
8. Newsletter KVK Sylvan, Senapati
9. Newsletter No 3, KVK West Khasi Hills
10. Newsletter Vol. 2, Issue 1, KVK Bishnupur
11. Scientific management of major field crops in Garo Hills of Meghalaya, KVK Tura

After the release Dr. A. K. Gogoi, ZPD, Zone III congratulated the KVKs who came with the variety of publications. He emphasised that publications have to be translated in the local

language, disseminate it, and should reach each and every farm household. He also stated that the contingency could be increased for publications.

Dr. P. G. Chengappa, the Chairman of QRT and also chief guest of the function opined that the workshop would be of immense value for all the KVKs as this was the forum where experiences could be shared among each other. He requested all members of KVKs to take seriously and to put right kind of strategies in meeting the challenges of agriculture.

Further, he added that the green revolution has not touched the North Eastern region. The states like Gujarat, Bihar are progressing well with the growth rates in double digits. He also mentioned that in Gujarat at the onset of Kharif season the Krishi Mahotsava was organised in which all the departments were working together which moved from panchayat to panchayat. He emphasised that these types of models could be replicated in the North Eastern Region also. The Chairman, QRT emphasised the following points-

- Optimum use of fertilisers based on precise analysis and integrated management
- Soil testing lab for all the KVKs
- Convergence of all the organisations
- Programme Coordinators of KVKs as the role of leadership
- Implement the programmes in group mode by forming farmers groups
- Replicate the success and make failure stories to success for making the extension effective
- Publications by KVKs for information and innovations dissemination

He finally emphasised that all KVKs has to work hard to meet the challenges and finally wished workshop a grand success.

The chairman of Utlu Joint Farming cum Pisciculture cooperative society, Shri T.H. Choaba Singh in his address thanked Dr. A. K. Gogoi, ZPD, Zone III for conducting the workshop in Manipur. He extended warm welcome to all the invitees and all participants. He emphasised that the KVKs are working hard. Non availability of funds in time is the problem faced by KVKs.

He also emphasised the following facilities which are needed for Bishnupur KVK,

- The existing carp hatchery can be extended to hi-tech carp hatchery
- Automatic weather stations
- Tissue culture and food processing laboratory

Finally the vote of thanks has been proposed by Dr. A. K. Singha, Senior Scientist, ZPD, Zone III.

The inaugural session was followed by visit to Bishnupur KVK. In Bishnupur KVK, Dr. P. G. Chengappa, Chairman, QRT inaugurated the carp hatchery. The soil testing laboratory was inaugurated by Dr. A. K. Gogoi, ZPD and Dr. Palendro Singh, Director, Department of Agriculture, Government of Manipur inaugurated spawn production unit of the KVK Bishnupur.

ANNUAL ZONAL WORKSHOP OF KVKS, 2011-12
(APRIL 25-27, 2012)

Proceedings of Technical Session –I (COMMON)

Venue	: Conference Hall, Imphal Hotel, Manipur
Date	: 25.04.2012
Chairman	: Dr. A. K. Gogoi, ZPD, ZONE III
Co-chairman	: Dr. A. K. Singha
Rapporteur	: Mrs. Punitha. P, Scientist (Agri. Extension), ICAR-RC for NEH Region, Manipur
	: L. Somendro Singh, SMS, KVK, Churachandpur

Talk on tropical agriculture – its prospects in NEH Region by Dr. J. K. Jindal, member, QRT.

Horticulture in North Eastern states is restricted to fruits like Khasi mandarin, banana and pine apple. This concept is changing because there are ample of scope for temperate fruits in north eastern region. Director General (ICAR) has asked to prepare road map to improve the potentials of fruit crops in north eastern region. The road map for temperate fruits are prepared and approved by ICAR. The temperate fruits like peach, plum, apricot, green almond, kiwi, persimmon, raspberry, straw berry and walnut are recommended. The states included are Arunachal and Sikkim. In this states, the five KVKS are included. They are KVK Dirang, Tawang, Subansiri, Upper Dibang and Ziro. He asked the KVKS to identify the fruit crop based on the farmers need. He emphasised that the KVK should produce planting material to meet out the requirement of the farmers for temperate fruits cultivation. The technical backup could be taken from North West. He also emphasised that lack of good quality planting material was one of the important reason for the major gaps in fruit production of North Eastern Region.

In the discussion he mentioned that in the traditional fruits like Khasi mandarin, the citrus decline is the major challenge. In addition to traditional fruits, other fruit crops need to be diversified.

Finally Dr. A. K. Gogoi, ZPD, Zone III concluded the presentation of Dr. A. K. Jindal by saying the term eco friendly agriculture is the favourite concept of him. He requested all KVKs to utilise his knowledge and to take advice for horticulture for improving the livelihood of farmers.

He also talked on the important pests located in citrus. He emphasised that the documentation of ITK is needed as the North Eastern Region is having rich ITKS. Further he requested Dr. A. K. Gogoi, ZPD, ZONE III and Dr. Premjith, Director of Extension Education to conduct the brain storming session on citrus decline in the North Eastern region. Further he emphasised that quality seed production mandate need to be included.

Talk on contract farming by Dr. P. G. Chengappa, Chairman, QRT

In his talk, Dr. P.G. Chengappa, Chairman, QRT covered the subtopics like definition of contract farming, rationale of contract farming, different types of contract farming, opportunities, benefits, advantages, disadvantages of contract farming to farmers and firms, economics of contract farming, apprehensions of contract farming. The following points were discussed during his interaction with the participants.

- Role of KVKs for the success of contract farming
- Market potential and scope with neighbouring countries through contract farming
- Profitable Pine apple farming in Nagaland
- Corrective measures of Ginger production in Sikkim from its distress sale by the farmers through KVKs
- Marketing channels for perishable commodities
- Issues related to transportation subsidy for the farmers
- Norms and procedures for issue of good agricultural certificate in contract farming
- Roles and responsibility of KVKs in protection of small farmers from middlemen in marketing of agricultural commodities
- Land possession certificate, loan facility etc.

Dr. Premjit Singh, DEE, CAU emphasised that future market and contract farming were very important terminology. In the hill districts of Manipur, there were problems like land tenure system where land were owned by village chiefs, problem of transportation, air lifting of commodities which were costlier and not affordable by the farmers , poly houses are to be financed for the farmers . Further, the pine apple and Khasi mandarin are not getting premium prices.

Dr. H. C. Bhattacharya, DEE, Assam Agricultural University, Jorhat stressed about the importance of firms fly under contract farming. For this government should be the third

party in the signatories for contract farming. Secondly he asked there were some regions within northeast where some commodities were plenty. Here, the role of market channel was significant to make optimum price of the farmers' produce.

Dr. P. G. Chengappa in his reply to the questions mentions that contract farming in India is really growing. This is practised in high value crops. He emphasised that one of the channel to crate linkage is contract farming. The KVK can act only as a role of facilitator. The KVK can help the farmers in the terms and conditions because the majority of the farmers are ignorant and illiterate. Further he emphasised that informal contract survives more than formal contract. Finding the reputed firm is the pre requisite for any contract farming. New innovations in market should evolve. The e-choupal in M.P in the commodity of Soya bean is performing well and is a good example. In India 99 per cent of the seed production is through contracts.

The Director of Agriculture, Sikkim Dr. K. Bhutia mentioned that APMC Act has been passed by the government and was amended. Under this act, any partners who are willing to take partnership with the farmer have to fill the format prescribed under the act. Firstly, the firm has to register with the Department of Agriculture and the Department of Agriculture is the signatory.

Dr. A. K. Gogoi, ZPD, Zone III, mentioned in the concluding remarks that North East Region has lot of potential in agriculture, horticulture and livestock development because no better turmeric and orchid exist from other parts of India. He gave an encouraging word to KVKS by saying that he has lot of faith in KVK and KVK has the potential to do it.

Proceedings of Technical Session –II (Common)

Venue : Conference Hall, Imphal Hotel, Manipur

Date : 26.04.2012

Chairman : Dr. A. K. Singha

Rapporteur : L. Somendro Singh, SMS, KVK, Churachandpur

Dr. Y. P. Dabbas, Member, QRT talked on "Role of livestock component in Integrated Farming System in NEH region". He emphasized following points

- Forest is utilized in agriculture in NEH Region
- There is no planning for organic certification
- Fertilizer recommendation should be based on soil test value
- Use high yielding varieties (HYV)
- Ginger and Turmeric is suitable in NEH Region

Dr. M. Premjit Singh, DEE, CAU talked on “Zero tillage cultivation in rapeseed Mustard”

Dr. M. Premjit Singh, DEE, CAU highlighted the success of zero tillage cultivation in Manipur. Farmers can earn more income in zero tillage in rapeseed mustard with bee keeping as an integral component in rapeseed cultivation. Three to four bee colony per ha of rapeseed is recommended and can increase 20% yield of rapeseed. He also mentioned importance of water harvesting structure in the rainfed condition of NEH Region.

Query	Answer
✓ Soil type	Sandy loam and Clay loam
✓ Seed rate	12kg/ha
✓ Weed problem	No weed problem
✓ Time of sowing	December
✓ Type of irrigation	Surface irrigation
✓ Is Zero tillage rapeseed in Sikkim possible	We can practice zero tillage in Sikkim

Proceedings of Technical Session –I (Group A)

Venue : Conference Hall, Imphal Hotel, Manipur

Date : 25.04.2012

Chairman : Dr. Premjith Singh, DEE, CAU

Co-chairman : Dr. K. Bhutia, Director of Agriculture, Government of Sikkim

Rapporteur : Kh. Hera Singh SMS, KVK, Imphal West

: N. Arun kumar Singh SMS, KVK, Imphal West

Presentation of progress report

Sl. No	Name of KVK	Annual Report presented by (Name & Designation)	Remarks/ suggestion
1	Cachar	Dr. K. D. Singha Programme Coordinator	<ul style="list-style-type: none">• Resource mapping through PRA are to be conducted to increase the number of villages covered under OFT/FLD other than one village presently confined.• Crop diversification is recommended apart from rice• Home science discipline should take up OFT/FLD

			<ul style="list-style-type: none"> • Net return/ ha per crop has to be calculated
2	Dibrugarh	Dr. H. Kumar Bhattacharya	<ul style="list-style-type: none"> • B:C ratio reported in OFT is questionable and needs justification • Programme coordinator should come well prepared for clarification of any related question on the data being presented by him.
3.	Jorhat	Dr. R. Barguha Programme Coordinator	<ul style="list-style-type: none"> • House accepted the proceeding in toto and appreciated
4	KVK, Barpeta	Dr. Ranjit Sarma Programme coordinator	<ul style="list-style-type: none"> • Hybrid test varieties may be tested in other KVKs also. • Action plan of home science discipline needs improvement

Proceedings of Technical Session –I (Group B)

Venue : First Floor, Imphal Hotel, Manipur

Date : 25.04.2012

Chairman : Dr. H. C .Bhattacharyya, DEE, AAU

Co-Chairman : Mr. C. Laliana, Director of Agriculture, Mizoram

Rapporteur : S. Sumangol Singh, SMS

Ng. Kanta Singh, SMS,

Presentation of progress report

Sl. No	Name of KVK	Annual Report presented by (Name & Designation)	Remarks/ suggestion
1	Imphal West	Smt. S K Raman, Programme Coordinator	<ul style="list-style-type: none"> • For local check of rice same duration crop should be taken • Application of Sulphur in rapeseed must be in scientific way • Zero energy cool chamber can now be opted for demonstration • In value addition of bamboo shoot there should be comparison with local practice • Field capacity/performance index is important and no yield data is necessary in case of Agricultural Engineering implements.

			<ul style="list-style-type: none"> • The format of Home science discipline will be changed in the coming year (ZPD). • Vermicomposting should not be under Plant breeding • In case of Vanaraja and Khaki Campbell birds the comparison of the local check should be in the same period of time. • There should be more production of quality seed materials.
2	Tawang	Dr. A. N. Tripathy, Programme Coordinator	<ul style="list-style-type: none"> • Programme Coordinator should monitor the activities of the KVK round the year. • Keteki Joha rice should be given priority as it is a tourist spot. • Target should be increase as per the strength of staff.
3.	Tuensang	Dr. Wahling, SMS, Animal Science	<ul style="list-style-type: none"> • Programme Coordinator must be present in the highest forum of KVK • In sugarcane plantation local practice was found to be better than the demonstrated farm. • In pig rearing there should be proper documentation of local practice. • Rabbit farming should go along with KVK Phek, since KVK Phek had taken up rabbitry successfully. • There should be introduction of poultry. • SMS Soil Conservation should take up the relevant activities to soil and water conservation and not in the field of microbiology. • Find out the source of technology for Ring pit method of sugarcane plantation. • The presenter should come well prepared for clarification of any related question on the data being presented by him.
4	Aizawl	Dr. K.P. Choudhury, Programme coordinator	<ul style="list-style-type: none"> • Programme coordinator should come well prepared for clarification of any related question on the data being presented by him. • Nutritional weaning diet, the technology is not doing well; it is less than the normal weight. It needs to be refined. • In case of fishery trial was not properly taken up and there was no result. • IPM for citrus, stem borer problem management should be access properly and also needed for documentation of traditional practices. • Calculation of average yield is not in proper way. • In case of Animal Science, data should be properly examined. • Training target should be fulfilling.

Proceedings of Technical Session –II (Group A)

Venue : Imphal Hotel, Manipur

Date : 26.04.2012

Chairman : Dr. H. C. Bhattacharyya, DEE, AAU

Co-Chairman : Mr. N. Pertin, Dy. Director of Agriculture, Arunachal Pradesh

Rapporteur : N. Soranganba, SMS, Churachandpur
S. Sumangal Singh, SMS, Thoubal

Sl. No	Name of KVK	Annual Report presented by (Name & Designation)	Remarks/ suggestion
1.	Thoubal	Dr. M. Thoithoi Programme Co-ordinator i/c	<ul style="list-style-type: none"> • Conduct orientation programme for all KVKs w.r.t. framing of action plan for OFT and FLD • Integration of more number of SMS in a single demonstration. • OFT on Zero energy cool chamber should go for FLD
2	Ri-Bhoi	Dr. R. Bordoloi Programme Co-ordinator	<ul style="list-style-type: none"> • Low cost water filter to be demonstrated to other KVKs also • T-9 variety to be replace with new variety
3	South Tripura	Dr. Arvind Kumar Singh Programme Co-ordinator	<ul style="list-style-type: none"> • Only recommended technology which are recently released or in the pipeline should be adopted for OFT • Number of treatment should not be more than 3 numbers for any trials.
4	Phek	Dr. R.K. Singh, Programme coordinator	<ul style="list-style-type: none"> • Jelly preparation should be taken up in training, not in demonstration • Without standard prototype/protocol no demonstration should be done.
5	Lower Dibang valley	Dr.T.G.Rameshwar Programme coordinator	<ul style="list-style-type: none"> • Trials without comparisons should be taken as introduction. • T-9 variety to be replace with new variety • Data relevant to the objective should be reflected for all KVKs • Revise hard copy
6	Nalbari	Dr. Mirdul Deka Programme Co-ordinator i/c	<ul style="list-style-type: none"> • Biofer PF – 2 should be recommended to other KVKs for OFT • Subject relevant trials should be taken up • Treadle pump technology may be demonstrated to other KVKs
7	Lunglei	Dr. Lalmuanzovi Programme Co-ordinator	<ul style="list-style-type: none"> • Preservation using salt and/or sugar should go for demonstration, not for OFT • Zero energy cool chamber should go for

			<p>demonstration</p> <ul style="list-style-type: none"> • “Assam mix” can be tried as nutritional supplement.
8	South Sikkim	I.P Shivakoti Programme Co-ordinator i/c	<ul style="list-style-type: none"> • There shouldn't be any comparison trial (OFT) between hybrid seed and local seed • Mushroom cultivation can go for FLD • Decomposing period of various by-products should be tried and production should go for FLD • Co-chairman suggested to conduct FLD for all the OFTs that has been assessed or refined
9	Senapati	Dr. Sabir Hussain Wani Programme Co-ordinator i/c	<ul style="list-style-type: none"> • Parameters on disease incidence must be reflected for the trial conducted on disease management • Present interactions should reflect in next action plan • Application of supplementary sulphur is not recommended if SSP is used as phosphorus source. • Ginger candy, sweetened Amla etc preparation should be conducted under vocational training
10	Saiha	C. Rachael Programme Co-ordinator i/c	<ul style="list-style-type: none"> • Bavistin should not be recommended for seed treatment of rhizome rot of ginger • Without recommended prototype/protocol demonstration related to human well being should not be conducted • Rabbitry activities should be included in training programme.
11	Tinsukia	Dr. A.C. Sharmah Programme Co-ordinator	<ul style="list-style-type: none"> • Each SMS including PC should take up OFTs • Continuation of trial on the same field is recommended for rhizome rot • Surpentine method of growing pointed gourd can be demonstrated • For drudgery reduction technologies, parameters on loading and unloading etc may be recorded.
12	Chandel	G.P. Kabui Programme Co-ordinator i/c	<ul style="list-style-type: none"> • Thickness of Polythene packaging material should be well defined for storage of food materials • Varietal evaluation should include local check
13	Upper Subansiri	Dr. Purmina Devi Programme Co-ordinator i/c	<ul style="list-style-type: none"> • Parameters on disease incidence of rhizome rot to be included.
14	Dhemaji	Mr. Horindro Gogoi Programme Co-ordinator i/c	<ul style="list-style-type: none"> • Try OFT another one year on brinjal var. RCAG-15 • Neem cake can be tried on pulse crop for control of root knot nematode • Chemical castration of pig recommended for conducting in other KVKs
15	East Khasi Hills	Smt. I. Kharkongor Programme Co-ordinator i/c	<ul style="list-style-type: none"> • Abandon those trial (Lentil) not accepted by farmers
16	Tirap	Dr. D.S. Chhonkar Programme Co-	<ul style="list-style-type: none"> • Tapioca var. Shree Vijaya may be tried in Manipur condition.

		ordinator	<ul style="list-style-type: none"> • Customs service of implements should neither be conducted as OFT or FLD • Increase in number of OFTs and FLDs suggested • OFT on Control of white grub to be taken up with technology from AAU
17	Dhalai	Subrata Shib Programme Co-ordinator	<ul style="list-style-type: none"> • Pseudomonas is not appropriate for late blight of Potato • Training on Extension functionaries should be taken up
18	Kohima	Longma Yanger Pongen Programme Co-ordinator i/c	<ul style="list-style-type: none"> • More appropriate observations to be taken up on Rabbitry-ZPD • ITKs should be validated before demonstration • Suggestion for increasing the number of OFTs and FLDs
19	Kokrajhar	Dr. M.K. Bhuyan Programme Co-ordinator	<ul style="list-style-type: none"> • Boro rice should not be a prioritised. • Suggestion to increase the number of OFTs. • For ongoing trials at least some observations must be presented-ZPD • Revise hard and soft copy • Every activity taken up under convergence must be highlighted in the report.
20	Mamit	Mr. Vanlalhrauaia Hnamte, Programme Co-ordinator	<ul style="list-style-type: none"> • OFTs on agro-forestry to be subject specific. • Regular observations in the ongoing OFT should be taken and highlighted in the report-ZPD • Suggestion to increase the number of FLDs-ZPD

Proceedings of Technical Session –II (Group B)

Venue : Imphal Hotel, Manipur
Date : 26.04.2012
Chairman : Dr. Premjith Singh, DEE, CAU, Imphal
Co-Chairman : Director of Agriculture, Govt. of Mizoram
Rapporteur : Th. Motilal Singh
 Kh. Hera Singh

Sl. No.	Name of KVK	Annual Report presented by (Name & Designation)	Remarks/ Suggestion
1	West Sikkim	Dr. Laxuman Sharma SMS(Biotechnology)	<ul style="list-style-type: none"> • House accepted the proceeding
2	Nagaon	Dr. Mrinal Saikia Programme Coordinator	<ul style="list-style-type: none"> • Varieties older than 10 years may be avoided in OFT. Toria

			variety M-27 must be replaced with new variety
3	North Tripura	Dr. Dillip Kumar Das Programme Coordinator	<ul style="list-style-type: none"> Improvement of activities is required. Initiative must be taken on seed production.
4	Serchhip, Mizoram	Ms. Lanunpui Programme Coordinator	<ul style="list-style-type: none"> Recommended to replace the IR-64 with CAU-R1 While selecting rice variety for OFT, preference of locale taste (sticky) should be taken into account OFT on Nutritional Gardening needs improvement with planning of more fruit and vegetable components Orchid packaging for increasing shelf life of cut flower may be introduced Suggested to form a KVK-ring amongst the KVK of Mizoram
5	Lawngtlai, Mizoram	-do-	<ul style="list-style-type: none"> 10 micron thick plastic film can be used for mulching for which subsidy is available under Horticulture Mini Mission being implemented by Mizoram govt so as to be cost effective. Smokeless chullah may be taken up by Home Science discipline Due care should be taken in OFT on weaning diet to maintain minimum standard dose of 4 meals/day. If supplementary food is given, it should be mentioned so as not to attract undue comment. Recommending lower dose is a crime. Horticulture, SMS must taken up citrus plant management activities
6	Dimapur	Dr. Anamika Sharma Programme Coordinator	<ul style="list-style-type: none"> OFT by Soil Science discipline should include soil

			<p>parameters</p> <ul style="list-style-type: none"> • Apart from taking OFT on control of stem borers of rice, it is advisable to consider control of gall midge. • Varietal evaluation or any intercropping trial must be taken up by the plant breeders • Parameters of assessment must be increased in regard to management of pest and disease of paddy • Nutritional garden should be given priority • In case of nutrient management of piggery, local material feed replacement percentage must be worked out. • The house appreciated for good presentation
7	Ukhrul	Dr. L. Loken Singh Programme Coordinator i/c	<ul style="list-style-type: none"> • In OFT, treatments should be different for the same variety • Treatment and local check must be of same variety • The activities on the major issue/ problem must be taken up in collaboration with the research station/university or expert with a proven technology • Spraying of Roger on tomato is not advisable. A safer insecticide should be selected • In depth study of OFT on tree trunk borer of tree bean is advisable as it is a wide spread problem in Manipur • Fish production should be prioritized for self sufficiency • Tuber seed production of potato is important and if successful, it will be a boon to the farmers of Manipur
8	West Garo Hills	Dr. T. Samajdar	<ul style="list-style-type: none"> • Zero tillage cultivation of toria

		Programme Coordinator i/c	<p>may be introduced</p> <ul style="list-style-type: none"> • Problems should be identified before stating rejuvenation of cashew nut • Since Biofor PF is a proven technology from AAU, Jorhat, it is recommended to go direct to FLD losing 2 years on OFT • Use of Furadon on cabbage should be avoided or replaced with safer insecticides • Taste and preference of the farmers must be listed out before conducting any FLDS
9	Chirang	Dr. K. Das Programme Coordinator	<ul style="list-style-type: none"> • Treadle pump technology may be adopted by other KVKs for irrigation • The chairman suggested that technology for OFT must be refined for feasibility
10	West Tripura	Dr. Lakshman Chandra Patel, Programme Coordinator	<ul style="list-style-type: none"> • OFT on Rabbit rearing is not demand driven, it may be dropped • Freshwater pawn rearing may be taken up in consultation with College of Fisheries, Tripura • The house has recommended not to provide fish meal in case of carps production
11	North Sikkim	Dr. Tshering Thengchup Bhutia, Programme Coordinator	<ul style="list-style-type: none"> • OFT on Agroforestry should be taken up • In SRI cultivation of rice, high yielding variety may be used instead of local variety • The technology for extending the shelf life of Orchid for Sikkim must be taken up soon
12	Bishnupur	Dr. R.K. Imotomba Singh Programme Coordinator	<ul style="list-style-type: none"> • Four bee boxes may be kept per hectare of Toria grown under FLD. Apiculture along with Neem based insecticides is the need of the hour. • Protective cultivation using

			<p>poly houses may be adopted to produce off season vegetables</p> <ul style="list-style-type: none"> • OFT on bamboo fibre extractor may be adopted in other KVKs • Multidisciplinary technology as a package to the farmers • Dairy or cattle rearing must be given special attention so as to bring the alarming need of the organic farming in the region. • Thrust must be given on women empowerment through post harvest management and agro-forestry concept
13	Papumpare	Mr. Hemanta Nongbri SMS (Hort)	<ul style="list-style-type: none"> • While selecting variety of rice, local preference of taste and productivity should be considered, otherwise farmers may reject the variety • Instead of applying Monocrotophos and weeding in Khasi Mandrin, full package of citrus rejuvenation is advisable • Full information on OFT on diary should be furnished
14	Mon, Nagaland	Dr. Manoj Singh Sachan Programme Coordinator	<ul style="list-style-type: none"> • House accepted the proceeding
15	Kolasib	Dr. Om Prakash Programme Coordinator	<ul style="list-style-type: none"> • OFT on Grand nine banana should be included
16	Churachandpur	Mr. L. Somendro Singh SMS(Soil Sc)	<ul style="list-style-type: none"> • Market linkage for cultivation of Aloe Vera under FLD should be explored • Recommended for integrated farming system to upgrade the production and productivity of the hill-farming system.

17	West Khasi	Mariana Nungbri Programme Coordinator	<ul style="list-style-type: none"> House accepted the proceeding with appreciation
18	Darrang	Dr. P. K. Bodoloi Programme Coordinator	<ul style="list-style-type: none"> House accepted the proceeding
19	East Siang, Pasighat	Dr. Mahesh Pathak Programme Coordinator	<ul style="list-style-type: none"> Endosulfan is banned and should be replaced
20	Longleng, Nagaland	Dr. H. M. Sangtem Programme Coordinator	<ul style="list-style-type: none"> House accepted the proceeding
21	Hailakandi	Dr. Shamsheer Singh Programme Coordinator i/c	<ul style="list-style-type: none"> House accepted the proceeding
22	Kamrup	Dr. D. N. Kalita Programme Coordinator	<ul style="list-style-type: none"> House accepted the proceeding
23	Zunheboto	Dr. Rakesh Humar Chourasia Programme Coordinator	<ul style="list-style-type: none"> House accepted the proceeding
24	West Kameng	Dr. N. D. Singh Programme Coordinator	<ul style="list-style-type: none"> House accepted the proceeding
25	Sonitpur	Dr. O. C. Deka , Programme Coordinator	<ul style="list-style-type: none"> House accepted the proceeding
26	Tamenglong	Dr. A. Suresh Meitei , Programme Coordinator i/c	<ul style="list-style-type: none"> House accepted the proceeding

Proceedings of Technical Session –III (Group A)

Venue : Conference Hall, Imphal Hotel, Manipur

Date : 27.04.2012

Chairman : Dr. Premjit Singh, DEE, CAU

Co-chairman : Mr. M. Neog, Associate Director of Extension, AAU

Rapporteur : S. Sumangol Singh, SMS, KVK, Thoubal

: L. Kanta Singh, SMS, KVK, Imphal West

Sl. No	Name of KVK	Annual Report presented by (Name & Designation)	Remarks/ suggestion
1	Karbi Anglong	Dr. A. K. Deka, Programme Coordinator	<ul style="list-style-type: none"> • Cost of feed for piggery must be carefully assessed • Acceptance of farmer for the technology must be consider while formulating OFTs for all KVKs
2	Jaintia Hills	Mr. G. Dohling, Programme Coordinator	<ul style="list-style-type: none"> • Full package/components of an IPM for controlling any pest must be considered while conducting OFTs • For taking up management on disease and insects OFTs can be conducted in a holistic manner rather than taking up part by part • Changing an existing cropping pattern by convincing the farmer is a difficult task, KVKs must think on this line to formulate activities
3.	Sivasagar	Dr. Phuleshwar Nath, Programme Coordinator	<ul style="list-style-type: none"> • Proper assessment of the activities taken up by the KVKs should be done properly/step wise
4	Changlang	Dr. Narendra Kumar, Programme Coordinator	<ul style="list-style-type: none"> • House passed the proceedings
5	West Siang	Mr. A Kirankumar Singh SMS (Agronomy)	<ul style="list-style-type: none"> • Programme coordinators must attend the zonal and other workshops.
6	Imphal East	Dr. T. Medhabati Devi, Programme Coordinator	<ul style="list-style-type: none"> • Maize sheller should be taken up for FLD instead of OFT
7	Champhai	SMS, Animal Science	<ul style="list-style-type: none"> • During crop selection for OFTs/FLDs farmer's choice/demand should be considered For technologies expected to do well it may directly be taken for FLD in order to save time. Repetition of technologies for OFTs by different KVKs/other organisations may be avoided if KVKs exchange their findings which may be directly demonstrated in their respected district, if it is considered priority one for the district.
8	Makokchung	Dr. Rongsensusang SMS Animal Science	<ul style="list-style-type: none"> • Rabbitry suggested for KVK Makokchung
9	East Sikkim	Dr. A K Mohanty, Programme Coordinator	<ul style="list-style-type: none"> • Alternate arrangements such as acid tolerant varieties/crops to liming may sought for.
10	Lower Subansiri	SMS Plant Protection	<ul style="list-style-type: none"> • Presence of PC is very important in highest forum of KVKs.

Proceedings of Technical Session –III (Group B)

Venue : First Floor, Imphal Hotel, Manipur

Date : 27.04.2012

Chairman : Dr. H. C. Bhattacharya, DEE, AAU, Jorhat

Co-Chairman : Shri Nini Pertin, Dy. Director, Directorate of Agriculture, Arunachal Pradesh

Rapporteur : Kh. Hera Singh, SMS, Imphal west

N. Arun kumar Singh, SMS, Imphal West

Sl. No.	Name of the KVK	Annual report presented by (Name & designation)	• Remarks/suggestions.
1.	Lakhimpur	Dr. N. Deka, Programme Coordinator	<ul style="list-style-type: none">• House suggested to report the technology demonstrated in FLD programmes so that other KVKs in the region also can take up similar FLDs.• It was suggested by the house that under extension activities carried out by the KVKs maximum emphasis should be given on Field Days.• House suggested that other activities like implementation of NICRA, Technology Showcasing etc also should be reflected in the KVK report.• KVKs should implement Technology Showcasing Programme preferably in roadsides covering large area from contingency.
2.	Upper Siang	Indrajit Burman, SMS	<ul style="list-style-type: none">• The house observed that in case of FLD on IPM and other component demonstrations only yield part is reported and it was suggested that besides yield other parameters also should be presented.• Houses also suggested that in FLDs instead of very broad subject like IPM specific technology like Tricho card

			<p>should be taken up.</p> <ul style="list-style-type: none"> • House suggested that KVKs should act as promoter of SHGs rather than formulation as much time is wasted in formulating them, besides many agencies are engaged in formulation of SHGs. • Every demonstration should have Field Days as it is unique method of technology dissemination.
3.	Dhubri	Dr. Chinnoy Kumar Sharma Programme Coordinator,	<ul style="list-style-type: none"> • The house suggested that OFT on black gram with furrow liming should be modified. • For clear visibility of the impact the KVKs should take one village for poultry only, i.e. Speciality village. It also applies for other enterprises. • The house suggested that KVKs should adopt at least two villages for a period of three years besides satellite villages. • Training programme on computer and accounting for SHGs can be taken up by the KVKs with its computer operator and account staff,
4.	Goalpara	Dr. U. K. Baruah, Programme Coordinator	<ul style="list-style-type: none"> • The accepted the presented report.
5.	Lohit Dist. Momo	Dr. P. K. Malik, Programme Coordinator	<ul style="list-style-type: none"> • The house suggested that in case of OFT on plant protection treatment and control should be of same variety. • In OFTs on rice new HYVs should be included. • The house suggested that in post monsoon culture of carps silver carps should be excluded as they are susceptible to diseases. • The KVKs should organize good number of training programmes for Extension Functionaries.
6.	Wokha	Megokhono Meyasi, SMS (Hort)	<ul style="list-style-type: none"> • The house suggested that OFTs

			<p>on feeding trials of pig should be conducted.</p> <ul style="list-style-type: none"> It was observed that some of the PCs had failed to be present in the workshop and it is mandatory for all PCs to be present in the workshop.
7.	Golaghat	Dr. N. N. Shyam, Programme coordinator	<ul style="list-style-type: none"> The house accepted the presented report.
8.	Karimganj	Dr. M. K. Sarmah programme coordinator	<ul style="list-style-type: none"> The house suggested that rice variety Aghoni can be tried in Manipur and AP as they are glutinous and locally preferred.
9.	East Kameng	Dr. Sanjoy Borthakur, Programme Coordinator	<ul style="list-style-type: none"> The house suggested that in case of small pond area instead of OFT on composite fish culture high density rearing should be tested.

Annexure-I

Annual Zonal Workshop of KVK, 2011-12 (25-27 April, 2012)

INAUGURAL SESSION

Date: 25-04-2012

Time	Agenda	
10.00 hrs.	Lighting of Inaugural Lamps and Felicitation to Dignitaries	
10.10 hrs.	Welcome Address	Dr. Imotomba Singh, PC, KVK Bishnupur
10.15 hrs.	Theme & Objectives of the Workshop	Dr. A.K. Gogoi, Zonal Project Director, Zone-III
10.20 hrs.	Address by Guest of Honour	Dr. Palendro Singh, Director of Agriculture, Govt. of Manipur

10.30 hrs.	Address by Guest of Honour	Dr. H.C. Bhattacharria, Director of Extension Education, AAU
10.40 hrs.	Address by Guest of Honour	Dr. B.K. Konwar, VC, Nagaland University
11.00 hrs.	Release of Publications	
11.10 hrs.	Address by Chief Guest	Dr. P.G. Chengappa, Chairman, QRT & Former VC, UAS
11.25	Chairman's Remark	Sri Th. Chaoba Singh, Chairman, Utlou Joint Farming Cum Pisciculture Cooperative Society & Ex-Union Minister
11.35 hrs.	Vote of Thanks	Dr. A.K. Singha

Annual Zonal Workshop of KVKs, Zone-III (25-27 April, 2012)

Workshop Agenda

April 25, 2012	
09.30 hrs.	Registration
10.00 hrs.	Inaugural Session
11.35 hrs.	Tea Break
Technical Session-I (Common)	
	Chairman: Dr. A.K. Gogoi, ZPD, Zone-III Co-Chairman: Dr. A.K. Singha
	Rapporteur: 1. Punithaa K.P. Scientist (AE) 2. L. Somendro Singh, SMS
11.45 hrs.	Technical business with KVKs on different issues of ZPD-III
13.30 hrs.	Lunch Break
Technical Session –I (Group-A)	
	Chairman: Dr. Premjit Singh, DEE, CAU Co-Chairman: Dr. K. Bhutia, Director of Agriculture, Govt. Of Sikkim

	Rapporteur: 1. Kh. Hera Singh 2. N. Arun Kr. Singh
14.45 hrs.	Presentation of Progress Report (20 minutes by each KVK)
16.30 hrs.	Tea Break
16.45 hrs.	Continuation of Technical Session-I
18.30 hrs.	End of Day-I
19.30hrs.	Cultural Programme
April 26, 2012	
Technical Session-II (Group-A)	
	Chairman: Dr. H.C. Bhattacharyya, DEE, AAU, Jorhat Co-Chairman: Mr. N. Pertin, Dy. Director (Agri), Govt. Of A.P.
	Rapporteur: 1. L. Somendro Singh, SMS 2. S. Sumangaol Singh
09.30 hrs.	Presentation of Progress Report by Individual KVK (20 minutes for each KVK)
11.30 hrs.	Tea Break
11.45 hrs.	Continuation of. Technical Session-II
13.30 hrs.	Lunch Break
Technical Session-II (Group-A)	
	Chairman: : Dr. H.C. Bhattacharyya, DEE, AAU, Jorhat Co-Chairman: Dr. Palendro Singh, Director of Agriculture, Govt. of Manipur
	Rapporteur : 1 . L. Somendro Singh, SMS 2. Kh. Brajamani Meetei
14.00 hrs.	Presentation of Progress Report (20 minutes for each KVK)
16.30 hrs.	Tea Break
16.45 hrs.	Continuation of Technical Session-II
18.30 hrs.	End of Day-II Session
April 27, 2012	
Technical Session-III (Group-A)	
	Chairman: Dr. Premjit Singh, DEE, CAU
	Co-Chairman: Dr. M. Neog, Assoc. Director of Extension, AAU
	Rapporteur : 1. S. Sumangol Singh, SMS 2. L. Kanta Singh

9-30 hrs.	Presentation of Progress Report (20 minutes for each KVK)
11.00hrs.	Tea break
11.30hrs.	Continuation of Technical Session-III
1.30hrs.	Lunch break
Valedictory (Common)	
	Chairman: Dr. A.K. Gogoi, ZPD Co-Chairman: Dr. Dr. A. Saleque, PS & In-charge, GRT, AAU
2.20hrs.	Presentation of Proceedings and Open Forum

April 25, 2012	
09.30 hrs.	Registration
10.00 hrs.	Inaugural Session
11.35 hrs.	Tea Break
Technical Session-I (Common)	
	Chairman: Dr. A.K. Gogoi, ZPD, Zone-III Co-Chairman: Dr. A.K. Singha
	Rapporteur: 1. Punitha K.P. Scientist (AE) 2. L. Somendro Singh, SMS
11.45 hrs.	Technical business with KVKs on different issues of ZPD-III
13.30 hrs.	Lunch Break
Technical Session –I (Group-B)	
	Chairman: Dr. H.C. Bhattacharyya, DEE, AAU Co-Chairman: Mr. C. Lalniliana, Director of Agriculture, Govt. of Mizoram
	Rapporteur: 1. S. Sumangol Singh, SMS 2. L. Kanta Singh
14.45 hrs.	Presentation of Progress Report (20 minutes by each KVK)
16.30 hrs.	Tea Break
16.45 hrs.	Continuation of Technical Session-I
18.30 hrs.	End of Day-I
19.30hrs.	Cultural Programme
April 26, 2012	
Technical Session-II (Group-B)	
	Chairman: Dr. Premjit Singh, DEE, CAU, Imphal Co-Chairman: Mr. C. Lalniliana, Director of Agriculture, Govt. of Mizoram

	Rapporteur: 1. Th. Motilal Singh 2. Kh. Hera Singh
09.30 hrs.	Presentation of Progress Report by Individual KVK (20 minutes for each KVK)
11.30 hrs.	Tea Break
11.45 hrs.	Continuation of. Technical Session-II
13.30 hrs.	Lunch Break
Technical Session-II (Group-B)	
	Chairman: : Dr. Premjit Singh, DEE, CAU, Imphal Co-Chairman : Mr. C. Lalniliana, Director of Agriculture, Govt. of Mizoram
	Rapporteur : 1. Th. Motilal Singh 2. Kh. Hera Singh
14.00 hrs.	Presentation of Progress Report (20 minutes for each KVK)
16.30 hrs.	Tea Break
16.45 hrs.	Continuation of Technical Session-II
18.30 hrs.	End of Day-II Session
April 27, 2012	
Technical Session-III (Group-B)	
	Chairman: Dr. H.C. Bhattacharyya, DEE, AAU, Jorhat
	Co-Chairman: Mr. N. Pertin, Dy. Director (Agri), Govt. Of A.P.
	Rapporteur : 1. Kh. Hera Singh 2. N. Arun Kr. Singh
9-30 hrs.	Presentation of Progress Report (20 minutes for each KVK)
11.00hrs.	Tea break
11.30hrs.	Continuation of Technical Session-III
1.30hrs.	Lunch break
Valedictory (Common)	
	Chairman: Dr. A.K. Gogoi, ZPD Co-Chairman: Dr. Dr. A. Saleque, PS & In-charge, GRT, AAU
2.20 hrs.	Presentation of Proceedings and Open Forum

Annexure-II

List of Participants in Annual Zonal Workshop of KVKs, 2011-12

Venue: Imphal Hotel, Manipur

Date: 25-27 April, 2012

A. KVK

Sl. No.	Participants	KVK	Contact No.	E-mail
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