

**PROCEEDINGS OF THE ANNUAL REVIEW WORKSHOP ON CLUSTER FRONTLINE
DEMONSTRATION UNDER NFSM AND NMOOP HELD AT AAU, JORHAT DURING
AUGUST 9-10, 2017-18
(ICAR-ATARI, ZONE VII)**

The Annual Review meeting of Cluster Front Line Demonstration under NFSM and NMOOP for the KVKs under zone VI and VII was held at Assam Agricultural University, Jorhat during August 9-10, 2017 wherein 54 KVKs from ICAR-ATARI, Umiam and ICAR-ATARI, Guwahati participated from all the states of Northeast India.

The Honorable Vice Chancellor in his address as Chief Guest of the inaugural session thanked ATARI for selecting AAU as the venue for the workshop. The Vice Chancellor advised the house to review the last three years work and analysis the feedback. Showing his deep concern about the low productivity in pulses, he advised the participants to identify the reasons for low productivity and to plan the strategy accordingly. He also highlighted that the Northeast region of the country has ample scope for becoming a hub of pulse seed production. During the inaugural session, Dr. G. N. Hazarika, Director of Research (Agri) emphasized the utilization of rice fallow for production of oilseed and pulses. Dr. Hazarika also advised for quality seed production of pulses to meet the farmers demand. He further informed the house the University has produced 240 q of breeders' seed of black gram and green gram this year. Dr. Bidyut C. Deka, Director, ICAR-ATARI, Umiam briefly narrated the objectives of the workshop and requested the participants to visit the bio-fertilizer and bio-pesticide production unit of the university. Earlier Dr. A.K. Tripathi, Director, ICAR-ATARI, Guwahati welcomed the participants to the two days workshop. During the workshop a publication entitled "Birding the rainbow", a compilation of success stories published by ICAR-ATARI, Umiam was also released by the honourable Vice-chancellor. Dr. H. C. Bhattacharyya, Director of Extension Education, AAU proposed the vote of thanks.

Immediately after the inaugural session, the group was divided into two groups for technical session. The group A consisting of five states, viz., Manipur, Meghalya, Mizoram, Nagaland and Tripura was chaired by Dr. Bidyut C. Deka and Co-chaired by Dr. Roy, The Head, NBSS & LUP, Jorhat centre. Dr. A.K. Tripathi with Dr. H. C. Bhattacharyya as Co-Chair chaired the technical session of group B consisting of Assam, Arunachal Pradesh and Sikkim. During the technical, Dr. H. K. Borah and Dr. P. C. Sharma, both Principal Scientist from RARS, Shillongoni, AAU were the expert in both the sessions and put forwarded their valuable suggestion.

GENERAL RECOMMENDATION:

- All the KVKs should upload the monthly progress report, PMO report, package of practices (in local languages), Cluster Frontline Demonstration, Direct Benefit Transfer and other such routine activities and report in KVK portal regularly.
- A list of the technology assessed, refined during last five years through OFT/FLD suitable for the district should be prepared with details of technology and their source as per the format supplied to all the KVKs and submit the same to ATARI on or before September 15, 2017.

- All KVKs should purchase the soil testing kit as early as possible and utilise the same for analysis of the soil samples of CFLDs besides farmers' sample.
- In cluster frontline demonstration the minimum area in one cluster should not be less than 5 ha in hills and 10 ha in valley.
- KVKs are suggested to apply sulphur as well as other micro-nutrient in rape and mustard for better yield. Honey bee may also be integrated with the crop.
- The house suggested conducting OFTs on varietal evaluation of Soybean to find out new suitable varieties by the KVKs of Manipur and Mizoram in their regular OFT programme.
- All the KVKs are suggested to conduct CFLD programme in each block of the district to disseminate the technology instead of concentrating in a particular area.
- The crops under CFLD should be grown in cropping sequence mode as far as possible.
- All the KVKs are suggested to send good quality photograph with success stories as well as good quality videos to ATARI.
- Short duration Green gram variety SGC-16 and Black gram variety SBC-14 may be grown in both kharif and summer season as both are resistant to YMV and cercospora leaf spot.
- It is suggested that the KVKs of Manipur and Nagaland may purchase the pulses seeds from KVK Thobal as the KVK is producing seeds under seed hub programme.

Following are the Action points/recommendations to be taken up by the KVKs as per approved guidelines:

SL NO.	SALIENT RECOMMENDATION
1.KVK, Imphal East	<ul style="list-style-type: none"> • Demonstrated yield of Rape and Mustard is very low as compared to district average. Honey bee colony in Rape and Mustard may be incorporated. • Presentation of power point should be impressive. • Frequent field visit to the demonstration site should be carried out for monitoring from sowing to harvesting by the KVK Scientists. • Sulphur and boron should be applied in mustard and oilseed crops based on soil test value.
2.KVK, Ribhoi	<ul style="list-style-type: none"> • Crop French bean should be replaced by the word Rajma as French bean is used as vegetable not as pulse. • Use sulphur in rape and mustard.
3. KVK, Dimapur	<ul style="list-style-type: none"> • In mustard /oilseed take up the technology of sulphur and all component of micronutrient.
4. KVK, Dhalai	<ul style="list-style-type: none"> • lime should be applied in groundnut and as a sulphur source use single super phosphate. • Verify the sowing date of field pea. • Recruitment of technology agent should be done before September.
5. KVK, Senapati	<ul style="list-style-type: none"> • Suggest to grow Rajma and Ricebean in kharif season instead of Rabi season. • Collect the latest database of the district and state from Joint Director of State Government and incorporate in the report. • Good quality photograph should be used in future presentation.
6. KVK, Lawngtlai	<ul style="list-style-type: none"> • Suggest to take advice from ICAR centre, Mizoram, Kolasib to control pod borer in Soybean
7. KVK, Kohima	<ul style="list-style-type: none"> • Care should be taken in selection of the technology. • Emphasis must be given on line sowing instead of broadcasting in CFLD programme.
8.KVK, North Tripura	<ul style="list-style-type: none"> • Soil test based application of sulphur and boron is suggested for mustard /oilseed crops. • Suggested to conduct OFT on conservation tillage in regular OFT programme. • Introduction of honey bee colony in oilseed growing area is recommended
9. Action: KVK,	<ul style="list-style-type: none"> • Advised to construct log bund across the slope in groundnut cultivated area as

Chandel	the crop was cultivated in sloppy land.
10. KVK, Mon	<ul style="list-style-type: none"> • Location wise yield should be presented in graphical format. • Rouging should be done in cluster FLD programme. • Rajma variety proposed for demonstration should be verified.
11. KVK, Serchhip	<ul style="list-style-type: none"> • Suggest to use lentil variety Moitree or any other latest variety
12. KVK, Bishnupur	<ul style="list-style-type: none"> • Demonstrated yield of lentil is very low compared to district yield. • IPM 2-3 is a green gram variety, not blackgram variety. Suggested for careful selection of a variety in demonstration.
13. KVK, Khowai	<ul style="list-style-type: none"> • Yield should be increased by incorporating various technologies like seed treatment, integrated nutrient management. Innovative technology should be incorporate to increase the yield instead of following the same technologies used in previous year. • Soil application of ZnSO₄ in pulse crops is suggested.
14. KVK, West Garo Hill	<ul style="list-style-type: none"> • Suggested to take AAU toria variety instead of PM 26 and PM 27 if sowing is done after October 15. • For the year 2017-18, it is suggested to reduce the groundnut area to 10 ha from 50 ha and remaining 40 ha area should be covered by toria variety (10 ha to be covered by NRCHB-101 and 30 ha to be covered by AAU toria variety.)
15. KVK, Thoubal	<ul style="list-style-type: none"> • Suggested to replace the existing mustard variety M-27 WITH NEW VARIETY. • Suggested to stop burning of stubble mulch of rice. • Recommended for certification of YMV free pulses seed produced under Seed Hub programme.
16. KVK, Zunheboto	<ul style="list-style-type: none"> • Comparative performance of different sowing date in yield should be presented in histogram
17. KVK, Ukhrul	<ul style="list-style-type: none"> • Yield of pea should be taken as dry pod. • Rajma and ricebean to be grown as kharif crops. • Approval is accorded to reduce the area of Lentil to 10 ha by increasing the rice bean area to 20 ha.
18. KVK, South Tripura	<ul style="list-style-type: none"> • Honey bee component has to be incorporated in the Rapeseed and mustard demonstration plot.

RAPPORTEURS:

- 1. Horindra Gogoi, SMS(Agril. Economics), KVK, Golaghat**
- 2. Priyanka Dutta, SMS(Agronomy), KVK, Sivasagar**
- 3. Daegal A. Massar, SRF, CFLD Pulses**

**List of Participants who attended the Annual Review Workshop on Cluster Frontline
Demonstration under NFSM and NMOOP held at AAU, Jorhat during August 9-10, 2017-18**

Sl. No	State	Name of KVK	Name of the participants	Designation	Contact No.
1.	Assam	AAU, Jorhat	Dr. K. M. Bujarbaruah	Vice Chancellor, AAU	
2.	Delhi	ICAR HQ	Dr. V.P. Chahal	ADG(AE)	9968722475
3.	Meghalaya	ICAR-ATARI	Dr. Bidyut C. Deka	Director, ICAR-ATARI-VII	9436349416
4.	Assam	AAU, Jorhat	Dr. H.C. Bhattacharyya	DEE	9435194597
5.	Assam	AAU, Jorhat	Dr. G. N. Hazarika,	Director of Research (Agri)	
6.	Assam	ICAR-ATARI	Dr. A.K. Tripathi,	Director, ICAR-ATARI-VI	9436108690
7.	Assam	RARS, Shillongani	Dr. H. K. Borah	Pr. Scientist (PBG)	9435360375
8.	Assam	RARS, Shillongani	Dr. P. C. Sharma	Pr. Scientist (Agro.)	9435361783
9.	Assam	SES DoEE AAU	Dr,R.C.Borah	SES DoEE	
10.	Assam	DoEE AAU	Ms. Mayurshree Dutta	Sr.Accoutant	811866083
11.	Assam	DoEE AAU	Ms. Meenakshi Dutta	JAAAs	9859327020
12.	Assam	DoEE AAU	D.K.Goswami	PA (computer)	
13.	Assam	AAU, Jorhat	Dr. M.Neog	Assoc. DEE	9435093577
14.	Assam	AAU, Jorhat	Dr. R.K.Saud	ADEE(P&I)	9435293057
15.	Assam	AAU, Jorhat	Dr. M. Saikia	Sr.Scientist ext specialist	9435051475
16.	Assam	AAU, Jorhat	S. Saikia	PAC.DoEE	9707605613
17.	Assam	AAU, Jorhat	Dr. M.K Sarmah	Sr.Scientist ext specialist	9435489156
18.	Meghalaya	Ribhoi	Dr. Mokidul Islam	Sr. Scientist and Head	9089611347
19.	Meghalaya	West Garo Hills	A.S.Singh	Sr. Scientist and Head(i/c)	9436112118
20.	Manipur	Bishnupur	Dr. R.K. Imotomba Singh	Sr. Scientist cum Head	9436020718
21.	Manipur	Imphal West	Dr. T. Medhabati Devi	Sr. Scientist cum Head	9612245620
22.	Manipur	Senapati	Dr. N. Jyotsna	Sr. Scientist cum Head	9436031402
23.	Manipur	Thoubal	Khaidem M. S.	Sr. Scientist cum Head	9612692315
24.	Manipur	Thoubal	N. Tomba Singh	SMS (Agro.)	9774753244
25.	Manipur	Chandel	Dr. Deepak Singh	Sr. Scientist cum Head	9471212014
26.	Manipur	Tamenglong	Dr. P.K.Saraswat	Sr. Scientist cum Head	8415832455
27.	Manipur	Ukhrul	Dr. Y.Ramakrishna	Sr. Scientist cum Head	9436158901
28.	Mizoram	Aizawl	Dr. K. P. Chaudhery	Sr. Scientist cum Head	943651669
29.	Mizoram	Kolasib	Dr.C. Lalfakawma	SMS (Plant Protection)	8399069138
30.	Mizoram	Lawngtlai	C. Raulthankhuma	SMS (Agro.)	9402185788
31.	Mizoram	Mamit	Vanlalhrauaia	Sr. Scientist cum Head (i/c)	9436365247
32.	Mizoram	Serchipp	Kenny Zohmingliana	SMS (Agro.)	961547732
33.	Nagaland	Dimapur	James Kikon	ACTO (Soil Science)	9612902239
34.	Nagaland	Kohima	Imtisenla	SMS (Agro.)	9436604193
35.	Nagaland	Longleng	Manoj Kumar	SMS (Agro.)	9612306108
36.	Nagaland	Wokha	Dr. S. K. Baishya	Sr. Scientist cum Head	9436108526
37.	Nagaland	Zunheboto	Dr. Kundan Kumar	SMS (Ag. Extension)	9436607149
38.	Nagaland	Mon	Dr.Ruokuovilie Mezhatu	Sr. Scientist cum Head	943601124
39.	Tripura	Dhalai	Mr. Pradip Kumar Das	SMS (Ag. Extension)	7085060961
40.	Tripura	North Tripura	Abhijit Debnath	Sr. Scientist cum Head	9612394594
41.	Tripura	South Tripura	Dr. Biswajit Debnath	SMS Fishery	9774610910
42.	Tripura	Khawoi	Dr. Deepak Nath	Sr. Scientist cum Head	9863110550
43.	Assam	AAU, Jorhat	U. Saikia	Photographer DoEE	9435295277
44.	Meghalaya	ATARI Zone VII	Daegal. A. Massar	SRF CFLD Pulses	9615613406