

From the Editor's Desk

KVK, Ri-Bhoi has been endeavouring to assist the farmers, rural youth and the extension personnel to cope the needs of the farming communities in the district.



This issue of KVK Newsletter is to provide the highlights of the work done by KVK Ri-Bhoi in the form of On Farm Trials on natural dyes, seed priming, ginger-pea cropping system, maize-frenchbean cropping system, single bud transplanting techniques, organic sources of nutrients in tomato etc ; Frontline Demonstrations on biopesticides, vegetables production, pulses production, zero energy cool chamber, UHD plantation of Banana etc, Trainings, Awareness programmes and Seed production of paddy, maize, Pea, spices (like ginger and turmeric), etc.). Externally funded projects like NICRA, TSP, CFLDs etc are also being implemented in different villages of Ri-Bhoi district for the benefit of the farmers. The authors would like to express their sincere gratitude to all the staff of KVK, Ri Bhoi who have directly or indirectly contributed to the successful compilation of this edition of KVK Newsletter.

We would like to dedicate this publication to the farming community of Ri Bhoi District and we hope that it will make a difference in the lives of the farmers.

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Senior Scientist & Head
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ON FARM TESTING (OFT)

ON FARM TESTING (OFT)

Ginger - Garden pea using Jalkund water for higher productivity & soil fertility

An intervention was undertaken on ginger garden pea cropping system using Jalkund water for higher productivity with 30 numbers of farmers of Kyrdem and Umeit Villages of Ri Bhoi District of Meghalaya in order to reduce the problem of low productivity of existing cultivar, ginger variety Nadia and garden pea variety Arka riya was adopted in the test. 07 demonstrations were demonstrated during the trial covering an area of 5 ha. The trial was done in comparison to the conventional method using monocropping of ginger crop only. The result shows that the pod yield production is 120.51 q/ha, with B.C.ratio of 3.37.



Ginger followed by Garden pea Var. Arka Priya

Evaluation of Natural Dyes for higher Income

An intervention was undertaken during Kharif 2017 on evaluation of Natural Dyes for higher Income amongst the 10 numbers of local weavers of Nongrim Village of Ri-Bhoi District. The Test was undertaken in order to reduce the dying cost spent in purchasing expensive chemical dyes. The natural dyes were extracted from plants like teak, croton, turmeric, tealeaves, lac, onion leaves, guava leaves, etc. The result showed that there was a B.C. ratio of 3.1 in natural dyes as compared with synthetic dyes with a B.C. ratio of 1.2 only.



Evaluation of natural Dye

Seed priming in pea for improving productivity and nutrient efficiency in acid soils

An intervention was undertaken on seed priming in pea for improving the productivity and nutrient efficiency in acid soils with 20 numbers of farmers of Mawbri and Umeit villages of Ri-Bhoi district, Meghalaya covering an area of 7 ha. The technology demonstrated during the test include soaking of seed overnight with nutrient solution like 1% $ZnSO_4 \cdot 7H_2O$ and 1% KH_2PO_4 . The result shows that with the adoption of this technology there was 92% germination compared to farmer's practice with 80% germination with a B.C. ratio of 2.30 compared to farmer's practice with B.C. ratio of 2.06



Seed priming in pea

Vertical Farming for rural farm women

An intervention was undertaken during Kharif 2017 on Vertical Farming for Rural Farm Women at Mawblang Village of Ri-Bhoi District. The Trial was undertaken in order to help landless farm women to have their own nutritional kitchen garden. The result revealed that in 3 months duration about 3 kg mint, 3.5 kg coriander, 2.3 kg chillies, 3.8 kg carrot, 3.8 kg to 5 kg beetroot, 12 kg cabbage, 10 kg, Chinese cabbage, 10 kg lettuce and 3 kg broccoli were harvested. It was also found that drudgery is less with this technology, the cost of the trial was Rs 500 with B.C. ratio of 4.7 compared to farmers practice that cost Rs 300 with B.C. ratio of 1.3.



Performance of vertical farming

performance of Maize- French-bean cropping system

An intervention was undertaken during Rabi 2017-18 on performance of Maize-Frenchbean cropping system at Sarikuchi and Kyrdem Village of Ri-Bhoi District. The Trial was undertaken in order to overcome Low cropping intensity due to monocropping. During the test 3 numbers of technology option were demonstrated and compared i.e. Technology option 1 : Maize – fallow; Technology option 2 : Frenchbean; and Technology option 3 : Maize– French cropping system. While comparing the technologies, It was found that with Technology option 1 : the grain yield was 28.80q/ha, net return was Rs 12228 / ha and B.C. ratio was 1.48; with Technology option 2: the grain yield was 8.50q/ha, net return was Rs 5750 / ha and B.C. ratio was 1.37 and with with Technology option 3 : the grain yield was 45.02q/ha, net return was Rs 33476 / ha and B.C. ratio was 2.31.



Performance of Maize- French-bean

Performance evaluation of Okra varieties

An intervention was undertaken during 2017-18 on performance evaluation of Okra varieties at Nonglakhiat Village of Ri-Bhoi District. The Trial was undertaken in order to overcome Low productivity of existing cultivars. During the trial 3 numbers of technology option were demonstrated and compared i.e. Technology option 1 : Okra variety. Arka Anamika; Technology option 2: Okra variety Pusa A-4; and Technology option 3 : farmers practice with local variety. While comparing the technologies, It was found that with Technology option 1 : the yield was 188.6 q/ha, net return was Rs 254879 / ha and B.C. ratio was 2.58; with Technology option 2: the yield was 135.50q/ha, net return was Rs 184500 / ha and B.C. ratio was 2.19 and with Technology option 3 : the yield was 102.50 q/ha, net return was Rs 105475 / ha and B.C. ratio was 1.69.



Performance of Okra Varieties

Performance of transplanting technique of Turmeric for reduction of seed cost

An intervention on performance of transplanting technique of turmeric was undertaken during 2017-18 at Umeit Village of Ri-Bhoi District in order to overcome the problem of higher seed cost due to high seed rate. The Test was undertaken in comparison with the conventional method. It was found that with the performance of the transplanting technique, the seed cost was Rs 82456, the yield was 290.2 q/ha, net return was Rs 2397944 / ha and B.C. ratio was 5.82. where as with the conventional method, the seed cost was Rs 115235, the yield was 185.6 q/ha, net return was Rs 166165 / ha and B.C. ratio was 2.44. It was also found that with the transplanting technique the farmers could save upto 71.55% of the seed cost.



Performance of transplanting technique of Turmeric for reduction of seed cost

Performance of transplanting technique of Ginger for reduction of seed cost

An intervention on performance of transplanting technique of ginger was undertaken during 2017-18 at Umeit Village of Ri-Bhoi District in order to overcome the problem of higher seed cost due to high seed rate. The Trial was undertaken in comparison with the conventional method. It was found that with the performance of the transplanting technique, the seed cost was Rs 75587, the yield was 255.45 q/ha, net return was Rs 335313 / ha and B.C. ratio was 5.43 where as with the conventional method, the seed cost was Rs 135450, the yield was 205.50 q/ha, net return was Rs 172800 / ha and B.C. ratio was 2.27. It was also found that with the transplanting technique the farmers could save upto 55.80 % of the seed cost.



Performance of transplanting technique of Ginger for reduction of seed cost

Evaluation of organic sources of nutrients on soil health and yield of tomato

An On Farm Testing was conducted on evaluation of organic sources of nutrients on soil health and yield of tomato during the Rabi 2017 with 10 farmers of Thadnongjau and Liarkhla villages of Ri-Bhoi district covering an area of 0.5 ha. The test was undertaken in order to overcome the problem of Low productivity due to poor soil fertility management. During the test 3 numbers of technology option were demonstrated and recorded i.e. Technology option 1 : FYM @ 5t ha + Vermicompost @1 t/ha ; Technology option 2 : Poultry manure @2t/ha+ Pig manure @2 t/ha ; and Technology option 3 : Farmers Practice (FYM 1t/ha). While comparing the technologies, It was found that with Technology option 1 : the yield was 196 q/ha, cost was Rs 71400 / ha., net return was Rs 124600 / ha and B.C. ratio was 2.74; with Technology option 2: the yield was 146 q/ha, cost was Rs 80400 / ha., net return was Rs 65600 / ha and B.C. ratio was 1.46 and with Technology option 3 : the yield was 131 q/ha, cost was Rs 85000 / ha., net return was Rs 46000 / ha and B.C. ratio was 1.54.



Evaluation of organic sources of nutrients on soil health and yield of tomato

Performance of Integrated Nutrient Management in Capsicum (Var. Carlifornia Wonder)

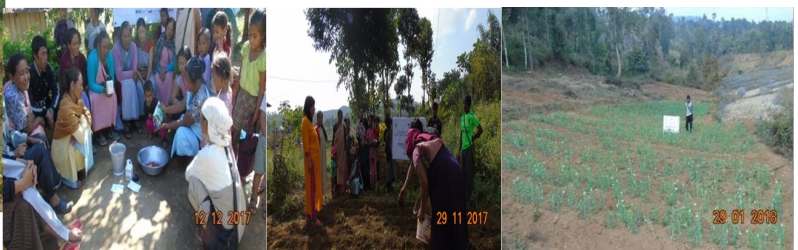
An On Farm Testing was conducted on performance of integrated nutrient management in capsicum during the Rabi 2017 with 10 farmers of Kdongkhulu and Khweng villages of Ri-Bhoi district covering an area of 0.5 ha. The test was undertaken in order to overcome the problem of Low productivity due to poor soil fertility management. During the test 2 numbers of technology option were demonstrated and recorded in comparison to farmers' practice i.e. Technology option 1 : 50% RDF (150:100:100) + Vermicompost @ 1.0 t/ha ; Technology option 2 : Vermicompost@ 2.0 t/ha + Lime @ 500kg/ha + 2% urea spray at branching & pod initiation stage. While comparing the technologies, It was found that with Technology option 1 : the yield was 132 q/ha, cost was Rs 88444 / ha., net return was Rs 17556 / ha and B.C. ratio was 2.98; with Technology option 2: the yield was 108 q/ha, cost was Rs 96086 / ha., net return was Rs 119914 / ha and B.C. ratio was 2.24 compared to farmers' practice with yield of 86 q/ha, cost was Rs 82000 / ha., net return was Rs 90000 / ha and B.C. ratio was 2.09.



Performance of Integrated Nutrient Management in Capsicum (Var. Carlifornia Wonder)

Seed priming in pea for improving productivity and nutrient efficiency in acid soils

An On Farm Testing was conducted on Seed priming in pea for improving productivity and nutrient efficiency in acid soils during the Rabi 2017 with 20 farmers of Mawbri and Umeit villages of Ri-Bhoi district covering an area of 1.0 ha. The test was undertaken in comparison to farmers' practice in order to overcome the problem of Low yield due to low seed germination and population. The treatment used in seed priming was Seed soaking overnight by nutrients solutions (1% ZnSO₄.7H₂O, 1% KH₂PO₄) whereas, in farmers' practice seed priming was not done. During the test, it was recorded that with seed priming, the seed germination was 92 %, the yield was 139.25 q/ha, cost was Rs 36900 / ha., net return was Rs 55625 / ha and B.C. ratio was 2.30; compared to farmers practice with the seed germination of 80 %, the yield was 29.6 q/ha, cost was Rs 35600 / ha., net return was Rs 38800 / ha and B.C. ratio was 2.06.



Demonstration on Seed priming in pea

ON FARM TESTING (OFT)

Yield performance evaluation of oyster mushroom strains

An intervention was undertaken during Kharif 2017 on yield performance evaluation of oyster mushroom strains with 5 Farmers of Umrynjah and Kdonghulu Villages of Ri-Bhoi District. The Trial was undertaken in order to help farmers to double their income. During the test a new mushroom strain i.e. PL-14-02 was introduced in comparison to the existing strain i.e. P. Florida. The result revealed that in PL-14-02 the yield was 168 kg/100 bags with a net return of Rs 22600/- and B.C.ratio of 3.05 compared to the existing strain, P. Florida. the yield was 90kg/100 bags with a net return of Rs 7000/- and B.C.ratio of 1.64.



Performance of PL-14-02

FRONTLINE DEMONSTRATION (FLD)

Sl. No	Details of Technology	Venue	No. of Demo	Area (ha) / unit	Beneficiaries
1	Promotion of biopesticide (Trichoderma) for management of late blight of potato	Umleng Pahamrinai Mawmai Lalumpih	4	0.5	5
2	Popularization of bottle gourd var. Sharda	Madan Nonglakh iat	5	0.5	35
3	Popularization of Nutrition Garden	Umlaleng	5	0.5	10
4	Enhancement of income through pulse production Pea (var. Prakash/ Vikash), Rajmah (var. Tripura Sel 1) & Blackgram (Tripura Mashkolai)	Thad-nongjiaw, Umleng Pahamrinai, etc.	12	10	674
5	Zero energy cool chamber	Nongthymmai, Mawbri	1	5	5
7	Vegetables production under Low cost polyhouse	Umeit Madan Nonglakh	5	700 m ²	66

FRONTLINE DEMONSTRATION (FLD)

Sl. No	Details of Technology	Venue	No. of Demo	Area (ha) / unit	Beneficiaries
	Low-cost housing model for pig rearing	Mawshud & Sohlia	4	4 units	4
	Income enhancement through oilseed production <i>Groundnut variety ICGS 76</i>	Madan Nonglakh iat,			
9	Popularization of colocasia var. Mukta Kashi	Madan Nonglakh iat	5	1	50
10	Promotion of community Vegetable nursery under protected condition	Umeit Thad-nongjiaw	2	200 m ²	41
11	Cultivation of Gerber under low cost polyhouse	Umeit Umkon Thad-nongjiaw	4	400 m ²	40
12	Popularization of HYV of groundnut (Var. ICGS 76)	Lalumpum,	21	20	57
13	Promotion of biofertilizer (Azospirillum @ 3.5kg/ha + PSB @ 3.5kg/ ha + 50% RDF) in paddy for higher productivity	Lalumpih Umkon Umeit	10	5	25
14	Promotion of Paddy (var. RCM-10)- pea (var. Vikash) cropping system	Pahamrinai Thad-nongjiaw	35	10	79
15	Popularization of Rajmah var. Tripura sel-1	Pahamrinai Thad-nongjiaw Mawbri Nonglakh iat	8	10	44
16	Soil amelioration through Liming @ 500 kg/ha+ 50% RDF in Maize (RCM 1-3) to enhance productivity	Lalumpih Umkon Pahamrinai Madan Nonglakh iat	10	2	35
17	Popularization of blackgram	Mawbri Nonglakh iat Mawthei, etc.	10	10	30
18	Acid soil management in Kharif Blackgram with lime @500kg / ha	Umkon Umeit Umsning	7	10	30
8	Popularization of Banana var. Grand Naine	Lalumpih Umkon	2	0.15	40
6	CFLD on Blackgram var. Tripura Mashkolai	Thad-nongjiaw,	4	32.5	43

DISCIPLINE WISE TRAINING PROGRAMME

THEMATIC AREA WISE TRAINING PROGRAMME

Discipline	No. of courses	Beneficiaries		
		Male	Female	Total
Agronomy	2	11	6	17
Soil Science	24	142	343	485
Horticulture	16	130	330	460
Plant Protection	8	42	186	228
Home Science	10	30	200	230
Sponsored Trainings	4	28	33	61
Total	64	383	1098	1481

Thematic Area	No. of courses	Beneficiaries		
		Male	Female	Total
Vegetable and fruits production	4	41	66	107
Flower cultivation	1	9	6	15
Production Technology	3	5	51	56
Mushroom Cultivation	5	12	130	142
Biological Control	4	13	36	49
Nutritional security	1	3	7	10
IDM	2	20	22	42
INM	4	22	91	113
Organic input production	3	20	58	78
Resource conservation	1	8	12	20
Crop Diversification	3	21	6	27
Nursery management	1	7	3	10
Orchard management	4	5	24	29
Soil health	7	59	191	250
Vermi composting	2	9	32	41
Value addition	6	0	123	123
Food Processing	5	0	95	95
Nutritional security	3	10	57	67
Pulse production	5	64	181	245
Oilseed production	3	20	10	30
IFS	1	21	13	34
Rural craft	1	0	16	16
Protected cultivation	6	40	51	91
Total	75	409	1281	1690

SPONSORED TRAINING PROGRAMME

Title of the training	Thematic area	Category	Duration	Beneficiaries	Sponsoring agency
Protected cultivation of flower, vegetables as well as nursery raising under low cost polyhouse	Nursery management	RY	9	6	NCUI Shil-long
Growing horticultural crops for income generation	Income generation	RY	12	9	TISS gu-wahati
Vegetable, fruits and spices value addition and technology support	Horticultural crop production	RY	1	55	Basin Development unit Nong-poh
Protection and multiplication of horticultural crops under low cost poly house	Protected cultivation	RY	7	17	KVK



CELEBRATION OF MAHILA KISAN DIWAS

The KVK Ri Bhoi had organised and celebrated “Mahila Kisan Divas”, a national farm womens’ day on the 15th of October 2017, at Kyrdem village of Ri-Bhoi District. During the programme, The Senior Scientist and Head KVK– Ri-Bhoi, highlighted the objective of the programme followed by farm products exhibition and drawing competition amongst the farmers in which prizes were distributed to the 1st, 2nd, 3rd and consolation winner of both exhibition and drawing competition as part of the celebration. A total of 70 numbers of farmers attended the programme.

CELEBRATION OF WORLD SOIL DAY

On the 5th of December 2017 the KVK Ri Bhoi organized the World Soil Day in collaboration with Division of NRC, ICAR RC for NEH Region. The programme was graced by Dr. Celestine Lyngdoh, local MLA of Ri-Bhoi Constituency. On this occasion the Director , ATARI-VII, Director ICAR, RC, NEH Region, Dr. N. Prakash and Dr. Arnab Sen, PS and Nodal Officer of KVK’s, KVK Ri-Bhoi Staffs and about 300 number of farmers from near by villages were present during the programmed. About 250 numbers of soil health card, seeds and mini soil testing kit were distributed to the farmers.

AWARENESS PROGRAMME ON PPV & FRA

An awareness programme on PPV&FRA was conducted on 26th of March 2018. during the programme about 160 numbers of farmers attended the programmes. Exhibition on indigenous germplasm was also conducted during the programmes along with farmers; scientist interaction.



CELEBRATION OF MAHILA KISAN DIWAS

CELEBRATION OF WORLD SOIL DAY



CELEBRATION OF PRODUCTIVITY WEEK

CELEBRATION OF WOMEN'S DAY

PROGRAMME ON PPV & FRA

CELEBRATION OF PRODUCTIVITY WEEK

The KVK Ri Bhoi had organized and celebrated “Productivity week” from 12th to 18th of February 2018 in collaboration with Division of NRM, ICAR RC NEH Region, Umiam. Dr. U.K. Behere, Dean , COA, CAU, Umsning, talk about methods of increasing crops production, group discussion was conducted with the farmers and input like frenchbean (Var. Anupam seed) were distributed. KVK Ri-Bhoi Staffs and about 60 numbers of farmers were present during the programme.

CELEBRATION OF WOMENS' DAY

The KVK Ri-Bhoi had celebrated “International Women's Day ” on 08th March, 2018. among the KVK Ri-Bhoi Staffs in the KVK Ri-Bhoi office.

CELEBRATION OF SWACHATA DIVAS

The KVK Ri-Bhoi had celebrated “Swachhta Hi Divas” on 28th March, 2018. During the programme, cleanliness drives was carried out among the KVK Ri-Bhoi Staffs within the KVK Ri-Bhoi office campus.

KVK RIBHOI WON THREE AWARDS

During the year 2017-18, the KVK Ri-bhoi, had won “ Outstanding Institute KVK Award for the Year 2017” from ICAR, RC for NEH Region, Umiam; the KVK Ri-bhoi had also won “ The Pandit Deen Dayal Upadhyay Krishi Vigyan Protshahan Puraskar Zonal award 2017-18”; and one of the progressive farmers of KVK Ri-Bhoi, Shri Kynshew Dapsuk Kharkrang of Umeit Village Ri-Bhoi district had won “TheJagjivan Ram Abhinbav Kisan Puruskar Zonal award for the year 2017-18”



KVK RI-BHOI RECEIVING THD BEST KVK AWARD



MR. K.D. KHARKRANG A PROGRESSIVE FARMER OF KVK RI-BHOI WHO WAS AWARDED



KVK RI-BHOI CELEBRATION OF SWACHATA-DIVAS



SOIL TESTING DONE AT KVK RI-BHOI

Special & Awareness programmes conducted

Water Harvesting Structures -Jalkund for Vegetables Cultivation

An intervention on water harvesting structure through Jalkund for vegetables cultivation was demonstrated to 12 numbers of beneficiaries. Repairing of old Jalkund was also carried out in the NICRA adopted village of the district. The technology was taken up in order to help the farmers during water scarcity in winter season for vegetables cultivation. The farmers are utilizing the water from the Jalkund for vegetable cultivation, for low cost poly house nursery, for protected cultivation, for nutrition garden, etc.



Water Harvesting Structures -Jalkund

Promotion of community Vegetable nursery under protected condition

The intervention was undertaken on Promotion of community Vegetable nursery under protected condition in the NICRA adopted village. Demonstrations were conducted with 41 numbers of beneficiaries covering an area of 200 m² each. During the intervention, seedlings of cabbage, cauliflower, broccoli, tomato, capsicum and knoll khol were cultivated. It was found that the gross cost was Rs 29567 per 100 m², gross return Rs 78630 per 100 m², net return Rs 49063 per 100 m² with B.C. Ratio of 2.65.



Community vegetable nursery under protected cultivation

Vegetable Production Under Polyhouse

An intervention was made in vegetable production under polyhouse in the NICRA adopted village. Demonstrations were conducted with 66 numbers of beneficiaries covering an area of 700 m² each. Vegetables like tomato, var. MT-3, Knol khol Var. Early white, cabbage var. Rare ball, etc. It was found that the demonstration yield from Tomato was 412 kg per unit /100 m², with gross cost of Rs 8540 per unit /100 m², gross return of Rs 19457 per unit /100 m², net return of Rs 10917 per unit and B.C. ratio of 2.27. ; from Knol Khol was 259 kg per unit /100 m² with gross cost of Rs 3504 per unit /100 m², gross return of Rs 8770 per unit /100 m², net return of Rs 5266 per unit and B.C. ratio of 2.50. ; and Cabbage was 315 kg per unit /100 m² with gross cost of Rs 4550 per unit /100 m², gross return of Rs 10450 per unit /100 m², net return of Rs 5900 per unit and B.C. ratio of 2.29.



Vegetable Production Under Polyhouse

Cultivation of Gerbera Under Low Cost Polyhouse

An intervention was made in Cultivation of Gerbera under polyhouse in the NICRA adopted village. Demonstrations were conducted with 40 numbers of beneficiaries covering an area of 400 m² each. It was found that the average demonstration yield 200 flowers per m² per year, with gross cost of Rs 95862 per ha. ; gross return of Rs 20867 per ha. ; net return of Rs 112808 per ha. and B.C. ratio of 2.17.



Cultivation of Gerbera Under Low Cost Polyhouse

Exposure visit to IIHR (Indian Institute of Horticultural Research) Bangaluru

Exposure visit cum training programme on “Organic Horticultural Crop Production Technologies for NE Region” was conducted at ICAR-IIHR, Hessaraghatta lake, Bangaluru for 10 tribal farmers of Ri-Bhoi district, Meghalaya. Trainings on Recent trends and future thrusts in protected cultivation of fruits, vegetables and ornamental crops for domestic and export markets; Integrated water and nutrient management techniques; Integrated management of insect pests, diseases and nematodes in ornamental and vegetable crops grown under protected conditions; Physiological responses of crops ; post harvest management practices for fruits, vegetables and ornamentals crops; commercial seedling production of fruits, vegetables and flowers; etc.

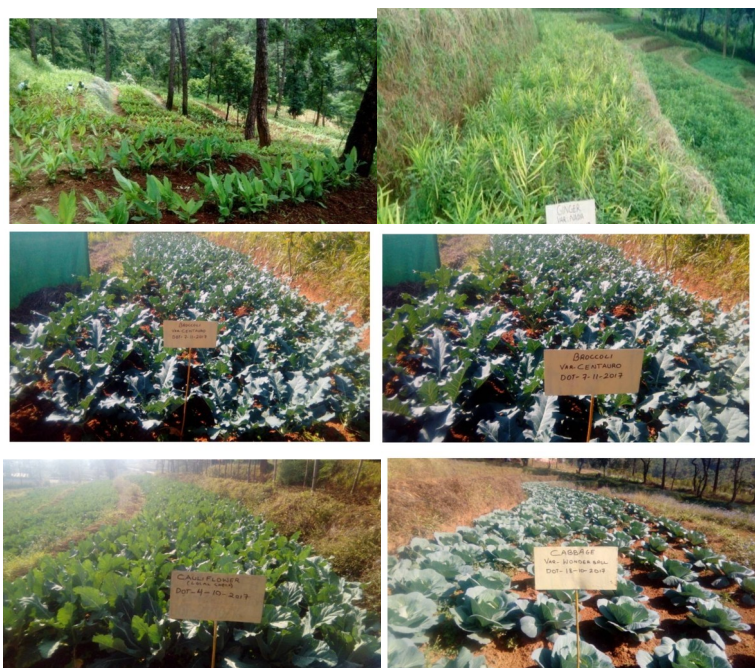


Exposure visit to Bangaluru

KVK RI-BHOI FARM ACTIVITIES

CONSTRUCTION OF VERMI COMPOST UNIT

A vermi composting demonstration unit has been set up and constructed in the KVK Ri-Bhoi farm for training cum demonstration and farm utility purposes.



KVK Ri-Bhoi Farm Activities

CONSTRUCTION OF MUSHROOM PRODUCTION UNIT

A Mushroom demonstration unit has been set up and constructed in the KVK Ri-Bhoi farm for training cum demonstration and farm utility purposes.

KVK—Ri Bhoi Farm production

Types of produce	Crop	Quantity
Seedling production	Tomato	2000 Nos.
Planting Material	Ginger Var. Nadia	30 kg
Planting Material	Turmeric Var. MT-1	100kg
Seed production	Maize Var. DA 61A	70 Kg
Vegetable production	Cauliflower	100 kg
Vegetable production	Cabbage	100 kg
Vegetable production	Broccoli	80 kg
Vegetable production	Pea	60 Kg
Vegetable production	Colocasia	53 kg
Vegetable production	French beans	190 Kg
Value added product	Turmeric Powder Var. MT-1	30 kg

Total farm Revenue Generated was Rs 47, 365/-
Farm Revenue generated from revolving fund was Rs 18, 108/-



A.D.G. Visit to KVK Ri-Bhoi farm



Vermicomposting & Mushroom Production Units

PUBLICATIONS:**Research papers**

- Burhan U. Choudhury, Akbar Malang, Richard Webster, Kamal P. Mohapatra, Bibhash C. Verma, Manoj Kumar, Anup Das, Mokidul Islam, Samarendra Hazarika (2017): acid drainage from coal mining: Effect on paddy soil and productivity of rice. *Science of the Total Environment*, 583 (2017) 334-351.
- S.K. Das, T.T Samajdar, Amit Das and M.Islam (2017):Farmer Participatory Pond based cage aquaculture for raising fish seed in South Garo hills, Meghalaya, India. *Indian J. Fish.*, 64 (2): 122-126, 2017 DOI: 10.21077 ijf. 2017. 64.2.61278-19.
- Biplab Mitra, Tanmay Samajdar, Mokidul Islam (2017): Effect of weed control measures in Jute Under Terai Zone of West Bengal, India *Environment & Ecology* 35 (1), 84-87.

Technical Bulletin

- Utpal Barua, Mokidul Islam, G Nongtdo & AK Tripathi (2017): Protection of Plant varieties and farmers Rights—a perspective of Ribhoi district of Meghalaya. Published by KVK Ri-Bhoi Pp. 1-36.
- Barua, Utpal, Islam, Mokidul, and Dohtdong, Jessica (2017): Production to Processing Technology of ginger & Turmeric in Ri-Bhoi Districts of Meghalaya, published by KVK Ri-Bhoi Pp. 1-38
- Mokidul Islam, Utpal Barua, Meghna Sarma, Mousumi G. Das, Eliza C.Syiemlieh, Sharmila Rai, Genielda Nongtdo, P. Bordaloi and A.K.Tripathi (2017): Success Stories on Technology Demonstrations in Ri-Bhoi District of Meghalaya Pp. 1-51.

Technical /Popular articles:

- Mokidul Islam (2017): Prospects of Quality Protein Maize (QPM) Production for Food and Nutritional Security - An Overview. *Transient—A Journal of Natural Sciences and allied Subjects* Vol. VI-2017: 64-80

Working/conceptpaper/policy paper:

- B.C. Deka, M. Islam, A.K. Singha, R. Bordaloi and R. Suchiang (2017): Doubling farmers income in Meghalaya by 2022 Pp 1-36

Scientific / Teaching Reviews:

- Integrated Use of Manure on soil Properties and cocoyam production. *International Journal of plant & Soil science*. Ms. IJPSS_ 37369

Folder

- KVK-Ri-Bhoi, ICAR Research Complex for NEH Region, Umroi Road, Umiam-793103, Meghalaya: Doubling of farmers' income by 2022 under Kisan Kalyan Karyashala
- Compile and edited: DA.K. Misra, Harish G.D., S. Hajong, Utpal Barua, and Mokidul Islam: Conservation of agricultural biodiversity for sustainability: Farmers' perspective and Translated into Khasi by: Mrs. Jessica Dohtdong.

OTHER EXTENSION ACTIVITIES

Name of Activity	No. of program mes (Achie ved)	Beneficiaries		
		Total		Total
		M	F	
Diagnostic visit	50	62	33	95
Scientist visit to farmer`s field	66	293	310	603
Farmers visit to KVK	503	900	1026	1926
Exhibition	1	6	19	25
Advisory /helpline ser-vice	32	130	321	451
Technical bulletin	4	-	-	-
Method demonstration	23	125	165	290
Exposure visit	2	20	0	20
Group discussion/ farmers scientist inter- action	14	183	224	407
Field Days	2	10	31	41
Film show	11	182	317	499
Lecture delivered	2	30	10	40
Soil health card	1	66	50	116
News paper coverage / E-publication	7	-	-	-
Grand Total	718	2007	2506	4513

EDITORIAL BOARD**Chairman:** Dr. Arnab Sen, Nodal Officer KVKs**Editor:**Dr. Md. Mokidul Islam,
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Agriculture search with a human touch