

PROFORMA FOR ANNUAL REPORT OF KVKs 2023 (January- December)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

| Address | Telephone | | E mail |
|---|-----------|-----|-------------------------|
| Krishi Vigyan Kendra, Ri-Bhoi ICAR Research Complex for NEH Region, Umroi Road, Umiam-793103, Meghalaya | Office | FAX | icarkvkribhoi@gmail.com |
| | | | |

1.2 .Name and address of host organization with phone, fax and e-mail

| Address | Telephone | | E mail |
|---|------------------------------|----------------|-------------------------------|
| | Office | FAX | |
| Director, ICAR Research Complex for NEH Region, Umiam – 793 103, Meghalaya | 0364- 2570257, 9451990546 | 0364 - 2570363 | director.icar-neh@icar.gov.in |

1.3. Name of the Programme Coordinator with phone & mobile No

| Name | Telephone / Contact | | |
|-----------------------|--|------------|---------------------------|
| | Residence | Mobile | Email |
| Dr. Md. Mokidul Islam | ICAR Research Complex for NEH Region, Umroi Road, Umiam-793103, Meghalaya | 9089611347 | mokidul.islam@icar.gov.in |

1.4. Year of sanction:F..No. 9-21/2002-AE-IDated 31st July, 2002; Established: 3rd August 2002

1.5. Staff Position

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Category (SC/ST/OBC/Others) |
|---------|-----------------------------|-------------------------|---------------------------------|------------------|-----------------|---------------------|-----------------|-----------------------------|
| 1 | Sr. Scientist & Head | Dr. M. Mokidul Islam | Senior Scientist and Head | Agronomy | Level 14 | 177400.00 | 01-10-2015 | Gen |
| 2 | Subject Matter Specialist | Moloy Sarmah Baruah | Subject Matter Specialist (T-9) | Animal Science | Level 12 | 112400 | 04.07.2006 | Gen |
| 3 | Subject Matter Specialist | Ms. Meghna Sarma | Subject Matter Specialist (T-9) | Agronomy | Level 12 | 99800.00 | 04.07.2006 | Gen |
| 4 | Subject Matter Specialist | Mrs. Mousumi Gohain Das | Subject Matter Specialist (T-9) | Plant Protection | Level 12 | 96900.00 | 06.07.2006 | SC |
| 5 | Subject Matter Specialist | Mrs. Eliza C. Syiemlieh | Subject Matter Specialist(T-9) | Home Science | Level 12 | 99800.00 | 01.08.2006 | ST |
| 6 | Subject Matter Specialist | Dr.PopihaBordoloi | Subject Matter Specialist(T-6) | Soil Science | Level 11 | 85800.00 | 01.12.2015 | Gen |
| 7 | Subject Matter Specialist | Mr. Bankitkumar Mukhim | Subject Matter Specialist(T-9) | Fishery Science | Level 12 | 88700.00 | 07.02.2018 | ST |
| 8 | Programme Assistant | Mrs. Jessica Dohdong | Programme Assistant (T-7/8) | Home Science | Level 11 | 71800.00 | 01.06.2017 | ST |
| 9 | Computer Programmer | Mr. Pynshaitbor Jana | Programme Assistant T-5 | Computer Science | Level 7 | 55200.00 | 14.05.2010 | ST |
| 10 | Farm Manager | Mr. Albertson L. War | Farm Manager T-5 | Plant Pathology | Level 7 | 50500.00 | 16-01-2015 | ST |
| 11 | Superintendent / Accountant | Vacant | - | - | - | - | - | - |
| 12 | Stenographer | Vacant | | | | - | - | - |
| 13 | Driver | vacant | - | - | - | - | - | - |
| 14 | Driver | Vacant | - | - | - | - | - | - |
| 15 | Supporting staff | Mr. Winter Kharhujon | SSS Gr. I | NA | Level 2 | 32000.00 | 07.12.2006 | Gen |
| 16 | Supporting staff | Mr. Binandra Rabha | SSS Gr. I | NA | Level 1 | 34400.00 | 12.10.2020 | Gen |
| | Total | | | | | | | |

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) : 3.0827

b. Total cultivable land with KVK (in ha):1.58

c. Total cultivated land (in ha):

| S. No. | Item | Area (ha) |
|--------|---------------------------|-----------|
| 1 | Under Buildings | 0.0827 |
| 2. | Under Demonstration Units | 4.70 |
| 3. | Orchard/Agro-forestry | 10.2173 |
| | Total | 15.00 |

1.7. Infrastructural Development:

A) Buildings

| S. No. | Name of building | Source of funding | Stage | | | | | |
|--------|------------------------------|-------------------|-----------------|--------------------|-------------------|---------------|--------------------|------------------------|
| | | | Complete | | | Incomplete | | |
| | | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction |
| 1. | Administrative Building | ICAR | Dec 2009 | 518 | 48.22 lakh | | | |
| 2. | Farmers Hostel | ICAR | Dec 2009 | 309 | 38.28 lakh | | | |
| 3. | Staff Quarters (6) | Nil | Nil | Nil | Nil | | | |
| 4. | Demonstration Units (2) | Nil | Nil | Nil | Nil | | | |
| 5 | Fencing | ICAR | Dec 2009 | 518 | 48.22 lakh | | | |
| | Rain Water harvesting system | ICAR | Dec 2009 | 309 | 38.28 lakh | | | |
| | Threshing floor | | | | | | | |
| | Farm godown | | | | | | | |

B) Vehicles

| Type of vehicle | Regd. No. | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|-----------------|-------------|------------------|------------|----------------|----------------|
| Bolero | ML10 B/6286 | 2017 | 652992.00 | 217819 | Good |

| | | | | | |
|---|-------------------------------|------|-----------|----|-------------|
| Power Tiller | Kamco Power Tiller | 2005 | 173265.00 | NA | Not working |
| Small Tractor with small Trolley and cultivator | Small Tractor ML10 C 0240 | 2019 | 484424.00 | | Working |
| Power tiller | Power tiller with accessories | 2019 | 483000.00 | | Working |

C) Equipments& AV Aids

| Name of the equipments | Year of purchase | Cost (Rs.) | Present status |
|---------------------------|------------------|------------|----------------|
| Ricoh photocopier | 2023 | 72380.00 | Good |
| Computer all in one PC | 2023 | 67793.00 | Good |
| Computer all in one PC | 2023 | 76500.00 | Good |
| Refractometer | 2022 | 5733.00 | Good |
| Brush cutter | 2022 | 17600.00 | Good |
| Photo copier | 2022 | 72380.00 | Good |
| UPS | 2022 | 7600.00 | Good |
| Weighing balance | 2022 | 5740.00 | Good |
| Computer | 2019 | 30000.00 | Good |
| UPS | 2004 | 3226.00 | Good |
| Inkjet printer | 2004 | 16940.00 | Good |
| Epson Printer cum scanner | 2023 | 24950.00 | Good |
| Epson printers (4 nos.) | 2023 | 44348.00 | Good |
| Epson printers | 2022 | 44348.00 | Good |
| Digital camera | 2010 | 13990.00 | Good |
| Refrigerator | 2004 | 12200.00 | Good |
| Oven Inalsa | 2004 | 5170.00 | Good |
| Laptop Computer | 2005 | 68502.00 | Good |
| Juicer | 2006 | 2700.00 | Good |
| Sewing machine | 2006 | 8400.00 | Good |
| Lexus juicer | 2003 | 1893.00 | Good |

| | | | |
|--------------------------|------|---------|-------------------------|
| Hand compression sprayer | 2003 | 2252.00 | Good |
| Groundnut decorticator | 2006 | 1900.00 | Good |
| Laminar Air Flow | 2011 | 46320 | Working |
| BOD Incubator | 2011 | 65787 | working |
| Mridaparikshak | 2016 | 75000 | Good , need upgradation |

1.8. A). Details SAC meeting* conducted in 2023

| Date | Name and Designation of Participants | Salient Recommendations |
|----------------------------|---|---|
| 20 th Feb' 2024 | <ol style="list-style-type: none"> 1. Dr. A.K. Mohanty, Director, ATARI, Zone VII, Umiam 2. Dr.S K Das, Director In-charge, ICAR RC for NEH Region, Umiam–Chairman 3. Dr. B. P. Singh, Principal Scientist & Head DTAC, ICAR RC for NEH Region, Umiam 4. Dr. M. Mokidul Islam, Principal Scientist & Head, KVK Ri Bhoi-Member Secretary 5. Mrs P. Iawim, District Agriculture Officer, Nongpoh 6. Dr. (Mrs) M. Thabah, A.H & Vety Officer, Nongpoh 7. Shri. M. Makdoh, District Horticulture Officer, Nongpoh 8. Shri. H. Papang, Agriculture Development Officer, Umsning 9. Shri. R. Nongkynrih, Programme Manager, Department of Fisheries, Nongpoh 10. Fr. Anugrah K, Deputy Director, RRTC, Umran 11. Shri. Graphite Lyngdoh, BTM, Umsning Block, ATMA Nongpoh 12. Smt. Sarah Wahlang, ATM, Bhoirymbong Block, ATMA Nongpoh 13. Shri. M. Dkhar, Asst General Manager, NABARD, Nongpoh | <p>A) In relation to progress report for Jan-Dec. 2023 of SMS Agronomy the house has suggested and remark as follows:</p> <ol style="list-style-type: none"> 1. The ATARI Director suggested to include other data like parameters of disease resistance in millet crops 2. It was also suggested to mention the problem identified, records of soil fertility in different farmers field so as to apply FYM based on the soil test 3. It was suggested for OFT-2 to change the title to Performance of high yielding of finger millet under lower altitude 4. To be taken up as OFT: Cultivation of Maize + Frenchbean on the recommended nutrient dose with 500 kg lime/ha to check the soil fertility improvement <ol style="list-style-type: none"> 5. For FLD-1 to be taken as trial for SMS Home Science for making chips with Kufri Chipsona 6. FLD-2 for field pea popularization, if the farmers are growing Pea (Var. TRCP- 8) then comparison should be done with Arkel so that the best can be selected and disseminated to farmers field by State Department. 7. Change of title for FLD- 3 to Popularization of Pea Var. IPFD 10-12 through Zero Tillage 8. In regard to FLD- 4 |

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| | <p>14. Dr.Sourabh Deori,Senior Scientist, Division of Aniaml & Fisheries Science,ICAR RC forNEH Region, Umiam</p> <p>15. Dr. T Ramesh, Principal Scientist Soil Science, Division of System Research and Engineering, ICAR RC for NEH Region</p> <p>16. Dr. Amit Kumar, Senior Scientist Genetics & Plant Breeding, NBPGR, ICAR RC for NEH Region, Umiam</p> <p>17. Dr Meghna Sarma, SMS Agronomy, KVK Ri Bhoi</p> <p>18. Dr. Moloy S Baruah, SMS Animal Science, KVK Ri Bhoi</p> <p>19. Smt. Eliza C Syiemlieh, SMS, Home Science</p> <p>20. Shri. Bankitkumar Mukhim, SMS, Fisheries Science,KVK Ri Bhoi</p> <p>21. Dr Popiha Bordoloi, SMS, Soil Science, KVK Ri Bhoi</p> <p>22. Mr. Albertson L. War, Farm Manager, KVK Ri Bhoi</p> <p>23. Mr. Winter Kharhujon, S.S.S, KVK Ri Bhoi</p> <p>24. Mr. Binandra Rabha, S.S.S, KVK Ri Bhoi</p> <p>25. Shri. Fillbert N Lyngkhai, Project Manager, CBBO, KVK Ri Bhoi</p> <p>26. Shri. Samuel Klein, Project Assistant, CBBO, KVK Ri Bhoi</p> <p>27. Smt. Elgiva Wanshnong, SRF, NICRA-TDC, KVK Ri Bhoi</p> <p>28. Smt. Arbis Rani, Farmer, Bhoirymbong</p> <p>29. Shri. Elbert Ramde, Farmer, Bhoirymbong</p> <p>30.</p> | <p>9. Millet Score Card to be done and should publish in paper</p> <p>In relation to Annual Action Plan for Jan-Dec. 2024 of SMS Agronomy the house has suggested and remark as follows:</p> <ol style="list-style-type: none"> 1. It was also suggested that next year Megha Maize- 1 and Megha Maize- 2 to be incorporated in State Action Plan so that the variety can be popularized 2. For OFT-1 it is suggested to take parameters on cultivation of 1. Zinc 2. Iron 3. Both Zinc + Iron biofertilized rice 3. Promotion of Jalkund should be removed from FLD <p>B) In relation to progress report for Jan-Dec. 2023 of SMS Animal Science the house has suggested and remark as follows:</p> <ol style="list-style-type: none"> 1. In regard to OFT the title should be change to Performance of Improved Birds Breed under Backyard Poultry System. 2. FLD on popularization of improved breeds is suggested to develop one to two breeding units for production of more piglets for distribution to other villages. 3. Trials should be taken whatever technology that has been generated to set up a project with the help of NABARD and Head of DTAC, ICAR <p>4. In relation to Annual Action Plan for Jan-Dec. 2024 of SMS Animal Science the house has suggested and remark as follows:</p> <ol style="list-style-type: none"> 1. For FLD- 2: parameters to be taken upto 10 months old starting from weaning 2. To propose training programme on AI in collaboration with Division of Animal Science <p>C) In relation to progress report for Jan-Dec. 2023 of</p> |
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| | | |
|--|--|--|
| | | <p>SMS Home Science the house has suggested and remark as follows:</p> <ol style="list-style-type: none"> 1. The nutritional content of pickle should be labelled in FLD 2. Nutritional content of Nutri thali should be given 3. Nuti-content in Nutritional garden should be based on the nutritional status of the area, then plan accordingly the components of nutritional garden <p>In relation to Annual Action Plan for Jan-Dec. 2024 of SMS Home Science the house has suggested and remark as follows:</p> <ol style="list-style-type: none"> 1. It OFT- 2, the dryers should be compared both between the dryer from engineering division, ICAR with the VL Solar dryer and observation of cost of effieciency relation should be done. <p>D) In relation to progress report for Jan-Dec. 2023 of SMS Fishery Science the house has suggested and remark as follows:</p> <ol style="list-style-type: none"> 1. FLD on popularization on integrated fish pig vegetable in Ri Bhoi districtshould be incorporated with cultivation of spice as high value crops (Ginger and Turmeric) in place of vegetable cultivation 2. It was suggested to practice central pond in fish cum paddy for FLD- 2 3. To form group of paddy cum fish farmers- FPO <p>In relation to Annual Action Plan for Jan-Dec. 2024of SMS Fishery Science the house has suggested and remark as</p> |
|--|--|--|

| | | |
|--|--|---|
| | | <p>follows:</p> <ol style="list-style-type: none"> 1. The Chairman suggested to go for combination of 2 species to follow according to 2021 technology published in Indian Farming Journal 2. To change OFT-1 to performance of 2 or 3 species culture Gonius+Common Carp+ IMC 3. In OFT-2 should be done only for Rohu as periphyton is done mainly for Rohu 4. Title should be changed for OFT-2 to Performance of Rohu fish on periphyton based fish farming 5. For FLD-2 to incorporate horticultural crops 6. Supplement of lime through application of wood ash (50% lime & 50% wood ash) <p>E) In relation to progress report for Jan-Dec. 2023 of SMS Soil Science the house has suggested and remark as follows:</p> <p>In relation to Annual Action Plan for Jan- Dec. 2024 of SMS Soil Science the house has suggested and remark as follows:</p> <p>General recommendation given by all the members are as follows:</p> <ol style="list-style-type: none"> 1. The Head of DTAC suggested the KVK SMS, DAO, DHO, NABARD, etc to provide advisory to farmers through whatsapp groups. A lecture to farmers or stakeholders should be given about digital tools. He told to download the All India Radio app called Newzone Air so that the farmers can listen. 2. The Principal Scientist Soil Science suggested that statistical analysis is very important for presenting the data so as |
|--|--|---|

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|--|--|--|
| | | to see whether it is statistically significant or not. The ATARI Director ask to include geographical and statistical data. He also encouraged to work in groups to get more papers for publication. He also suggested to go for copyright of video films and for documentation should be more scientific |
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** Attach a copy of SAC proceedings along with list of participants*

PROCEEDINGS OF 18th SCIENTIFIC ADVISORY COMMITTEE MEETING 2024

The 18th Scientific Advisory Committee Meeting of KVK, Ri Bhoi was held on 20thFeb' 2024 in the conference hall of KVK Ri Bhoi, ICAR RC for NEH Region, Umiam under the chairmanship of Dr. S. K Das, Director In-charge, ICAR RC for NEH Region. The meeting was attended by the following members–

- Dr. A.K. Mohanty, Director, ATARI, Zone VII, Umiam
- Dr.S K Das, Director In-charge, ICAR RC for NEH Region, Umiam–Chairman
- Dr. B. P. Singh, Principal Scientist & Head DTAC, ICAR RC for NEH Region, Umiam
- Dr. M. Mokidul Islam, Principal Scientist & Head, KVK Ri Bhoi-Member Secretary
- Mrs P. Iawim, District Agriculture Officer, Nongpoh
- Dr. (Mrs) M. Thabah, A.H & Vety Officer, Nongpoh
- Shri. M. Makdoh, District Horticulture Officer, Nongpoh
- Shri. H. Papang, Agriculture Development Officer, Umsning
- Shri. R. Nongkynrih, Programme Manager, Deparment of Fisheries, Nongpoh
- Fr. Anugrah K, Deputy Director, RRTC, Umran
- Shri. Graphite Lyngdoh, BTM, Umsning Block, ATMA Nongpoh
- Smt. Sarah Wahlang, ATM, Bhoirymbong Block, ATMA Nongpoh
- Shri. M. Dkhar, Asst General Manager, NABARD, Nongpoh
- Dr.Sourabh Deori,Senior Scientist, Division of Aniaml & Fisheries Science,ICAR RC forNEH Region, Umiam
- Dr. T Ramesh, Principal Scientist Soil Science, Division of System Research and Engineering, ICAR RC for NEH Region
- Dr. Amit Kumar, Senior Scientist Genetics & Plant Breeding, NBPGR, ICAR RC for NEH Region, Umiam
- Dr Meghna Sarma, SMS Agronomy, KVK Ri Bhoi

- Dr. Moloy S Baruah, SMS Animal Science, KVK Ri Bhoi
- Smt. Eliza C Syiemlieh, SMS, Home Science
- Shri. Bankitkupar Mukhim, SMS, Fisheries Science, KVK Ri Bhoi
- Dr Popiha Bordoloi, SMS, Soil Science, KVK Ri Bhoi
- Mr. Albertson L. War, Farm Manager, KVK Ri Bhoi
- Mr. Winter Kharhujon, S.S.S, KVK Ri Bhoi
- Mr. Binandra Rabha, S.S.S, KVK Ri Bhoi
- Shri. Fillbert N Lyngkhai, Project Manager, CBBO, KVK Ri Bhoi
- Shri. Samuel Klein, Project Assistant, CBBO, KVK Ri Bhoi
- Smt. Elgiva Wanshiong, SRF, NICRA-TDC, KVK Ri Bhoi
- Smt. Arbis Rani, Farmer, Bhoirymbong
- Shri. Elbert Ramde, Farmer, Bhoirymbong

At the outset of the meeting Dr. M. Mokidul Islam, Principal Scientist & Head, KVK, Ri-Bhoi welcomed all the dignitaries. After the welcome address the Senior Scientist, Soil Science Dr. T. Ramesh, Principal Scientist, Soil Science, DSRE, ICAR RC for NEH Region gave a brief remark on the major soil constraints leading degradation of Natural Resource and decline in food production. The Optimum pH of 6-7 is required to be maintained so lime application at 3-4 days before sowing in furrows @ 500kg/ha/season is sufficient to increase soil pH for availability of maximum nutrients in the soil. Dr. B. P. Singh, Principal Scientist & Head DTAC, ICAR RC for NEH Region, requested the line department for their valuable suggestions for the welfare of the farmers and appealed the officers to engage rural youths in entrepreneurship. Dr. S.K. Das, Director In-Charge, ICAR RC for NEH Region, made a remark that Ri Bhoi district is most suitable for agricultural science because of the altitude and temperature. He explained about the five thumb rules of extension 1. Create awareness 2. Development of interest 3. Evaluation of farmers (Resources evaluation) 4. Small scaled trial 5. Adoption (the rate of impact of technology on adoption). Dr. A. K. Mohanty, Director, ATARI Zone VII, ICAR, Umiam gave a presentation on Reorienting KVKs for Transplanting Research to Development. Thereafter discipline wise presentation of Annual Progress Report for January-December 2023 and Action Plan January-December 2024 was done by the SMSs' KVK Ri Bhoi followed by the open discussion and suggestions from the members.

The recommendations and the action taken against the recommendation were discussed in details and suggestions were given by the members. During the technical session many suggestions were given to improve the performance of the KVK by the various scientific advisory committee members that are as follows:

- In relation to progress report for Jan-Dec. 2023 of SMS Agronomy the house has suggested and remark as follows:
- The ATARI Director suggested to include other data like parameters of disease resistance in millet crops
- It was also suggested to mention the problem identified, records of soil fertility in different farmers field so as to apply FYM based on the soil

test

- It was suggested for OFT-2 to change the title to Performance of high yielding of finger millet under lower altitude
- To be taken up as OFT: Cultivation of Maize + Frenchbean on the recommended nutrient dose with 500 kg lime/ha to check the soil fertility improvement
- For FLD-1 to be taken as trial for SMS Home Science for making chips with Kufri Chipsona
- FLD-2 for field pea popularization, if the farmers are growing Pea (Var. TRCP- 8) then comparison should be done with Arkel so that the best can be selected and disseminated to farmers field by State Department.
- Change of title for FLD- 3 to Popularization of Pea Var. IPFD 10-12 through Zero Tillage
- In regard to FLD- 4
- Millet Score Card to be done and should publish in paper
- **In relation to Annual Action Plan for Jan-Dec. 2024 of SMS Agronomy the house has suggested and remark as follows:**
- It was also suggested that next year Megha Maize- 1 and Megha Maize- 2 to be incorporated in State Action Plan so that the variety can be popularized
- For OFT-1 it is suggested to take parameters on cultivation of 1. Zinc 2. Iron 3. Both Zinc + Iron biofertilized rice
- Promotion of Jalkund should be removed from FLD
- **In relation to progress report for Jan-Dec. 2023 of SMS Animal Science the house has suggested and remark as follows:**
- In regard to OFT the title should be change to Performance of Improved Birds Breed under Backyard Poultry System.
- FLD on popularization of improved breeds is suggested to develop one to two breeding units for production of more piglets for distribution to other villages.
- Trials should be taken whatever technology that has been generated to set up a project with the help of NABARD and Head of DTAC, ICAR
- **In relation to Annual Action Plan for Jan-Dec. 2024 of SMS Animal Science the house has suggested and remark as follows:**
- For FLD- 2: parameters to be taken upto 10 months old starting from weaning
- To propose training programme on AI in collaboration with Division of Animal Science
- **In relation to progress report for Jan-Dec. 2023 of SMS Home Science the house has suggested and remark as follows:**
- The nutritional content of pickle should be labelled in FLD
- Nutritional content of Nutri thali should be given
- Nuti-content in Nutritional garden should be based on the nutritional status of the area, then plan accordingly the components of nutritional garden
- **In relation to Annual Action Plan for Jan-Dec. 2024 of SMS Home Science the house has suggested and remark as follows:**

- It OFT- 2, the dryers should be compared both between the dryer from engineering division, ICAR with the VL Solar dryer and observation of cost of efficiency relation should be done.
- **In relation to progress report for Jan-Dec. 2023 of SMS Fishery Science the house has suggested and remark as follows:**
- FLD on popularization on integrated fish pig vegetable in Ri Bhoi district should be incorporated with cultivation of spice as high value crops (Ginger and Turmeric) in place of vegetable cultivation
- It was suggested to practice central pond in fish cum paddy for FLD- 2
- To form group of paddy cum fish farmers- FPO
- **In relation to Annual Action Plan for Jan-Dec. 2024 of SMS Fishery Science the house has suggested and remark as follows:**
- The Chairman suggested to go for combination of 2 species to follow according to 2021 technology published in Indian Farming Journal
- To change OFT-1 to performance of 2 or 3 species culture Goni+Common Carp+ IMC
- In OFT-2 should be done only for Rohu as periphyton is done mainly for Rohu
- Title should be changed for OFT-2 to Performance of Rohu fish on periphyton based fish farming
- For FLD-2 to incorporate horticultural crops
- Supplement of lime through application of wood ash (50% lime & 50% wood ash)
- **In relation to progress report for Jan-Dec. 2023 of SMS Soil Science the house has suggested and remark as follows:**
- **In relation to Annual Action Plan for Jan- Dec. 2024 of SMS Soil Science the house has suggested and remark as follows:**
- General recommendation given by all the members are as follows:
- The Head of DTAC suggested the KVK SMS, DAO, DHO, NABARD, etc to provide advisory to farmers through whatsapp groups. A lecture to farmers or stakeholders should be given about digital tools. He told to download the All India Radio app called Newzone Air so that the farmers can listen.
- The Principal Scientist Soil Science suggested that statistical analysis is very important for presenting the data so as to see whether it is statistically significant or not.
- The ATARI Director ask to include geographical and statistical data. He also encouraged to work in groups to get more papers for publication. He also suggested to go for copyright of video films and for documentation should be more scientific.
- At the end of the open discussion session, a vote of thanks was delivered by Shri. Bankitkumar Mukhim, SMS, Fishery Science, KVK Ri Bhoi .

2. DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

| Sl. No. | Farming system/enterprises |
|---------|---|
| 1. | Agri + Horti+ AH+ Fishery |
| 2. | Agri+ Horti+ AH |
| 3. | Agri+ Horti |
| 4. | Agri + Seri + Horti + AH |
| 5. | Agri + Horti + AH + Seri |
| 6. | Enterprises: <ol style="list-style-type: none"> 1. Agri – Paddy, Maize, groundnut 2. Horti – Tomato, Ginger, Turmeric, Cabbage, cauliflower, chilies, pineapple, strawberry 3. AH & Vety – Poultry, Pig, Goat, Dairy, Duckery 4. Fishery – Polyculture 5. Seri – Mulberry silk worm 6. others -Jalkund |

2.2 Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

| Sl. No | Agro-climatic Zone | Characteristics |
|--------|--------------------------|---|
| 1 | Subtropical hill zone | 400-1200 m MSL, Temperature: 30°C-12°C, All area of Ri-Bhoi district except southern part |
| | Mild/ tropical hill zone | 200 - 800 m MSL, Temperature: 32 - 12°C, Southern part of district |

2.3 Soil types

| Sl. No | Soil type | Characteristics | Area in ha |
|--------|--------------------|---|------------|
| 1 | Dark reddish brown | The soils are derived from Gneissic complex parent materials: they are dark reddish brown in colour varying in depth from 20-200 cm. The texture of soils varies from loamy to fine loamy | NA |

2.4. Area, Production and Productivity of major crops cultivated in the district

| Sl. No | Crop | Area (ha) | Production (ton) | Productivity (Qtl /ha) |
|--------|-----------------|-----------|------------------|------------------------|
| A | | | | |
| 1 | Beetroot | 33 | 343 | 10394 |
| 2 | Cabbage | 64 | 1306 | 20406 |
| 3 | Cauliflower | 44 | 255 | 5795 |
| 4 | Radish | 38 | 389 | 10237 |
| 5 | Tomato | 212 | 3350 | 15802 |
| B | Carrot | 62 | 510 | 8226 |
| 1 | Cucumber | 103 | 732 | 7107 |
| 2 | Capsicum | 111 | 795 | 7162 |
| 3 | Beans | 70 | 636 | 9086 |
| 4 | Brinjal | 49 | 382 | 7796 |
| C | Ladies Finger | 102 | 830 | 8137 |
| 1 | Turnip | 39 | 278 | 7128 |
| 2 | Bottle Gourd | 98 | 1113 | 11357 |
| 3 | Knol-Khol | 28 | 251 | 8964 |
| 4 | Lettuce | 49 | 235 | 4796 |
| 5 | Pumpkin | 71 | 545 | 7676 |
| D | Mustard (Leave) | 58 | 398 | 6862 |
| 1. | Onion | 75 | 861 | 11480 |
| 2. | Bitter Gourd | 72 | 697 | 9681 |
| 3. | Teasle Gourd | 57 | 416 | 7298 |
| 4. | Ridge Gourd | 95 | 1074 | 11305 |
| 5. | Broccoli | 72 | 611 | 8486 |
| 6. | Squash | 2 | 36 | 18000 |
| 7. | Pea | 63 | 72 | 1143 |
| 8. | Cow Pea | 13 | 19 | 1462 |
| 9. | Chillies green | 119 | 242 | 2034 |
| 10. | Turmeric green | 182 | 1460 | 8022 |
| 11. | Arecanut green | 194 | 110 | 567 |
| 12. | Khasi Mandarin | 273 | 1142 | 4183 |
| 13. | Assam lemon | 55 | 372 | 6764 |

| | | | | |
|-----|---------------|------|-------|-------|
| 14. | Pomelo | 44 | 427 | 9705 |
| 15. | Black-pepper | 169 | 137 | 811 |
| 16. | Strawberry | 50 | 527 | 10540 |
| 17. | Sweet Potato | 166 | 1128 | 6795 |
| 18. | Ginger | 1032 | 10998 | 10657 |
| 19. | Tapioca | 73 | 461 | 6315 |
| 20. | Banana | 951 | 17655 | 18565 |
| 21. | Papaya | 206 | 1642 | 7971 |
| 22. | Pineapple | 4063 | 53035 | 13053 |
| 23. | Winter Potato | 9 | 30 | 3333 |
| 24. | Jackfruit | 91 | 904 | 9934 |

2.5. Weather data

| Month | Rainfall (mm) | Temperature ° C | | Relative Humidity (%) |
|-----------|---------------|-----------------|---------|-----------------------|
| | | Maximum | Minimum | |
| January | 6.8 | 2 | 22.0 | 2.9 |
| February | 17.6 | 4 | 24.7 | 4.1 |
| March | 24.8 | 9 | 29.2 | 7.4 |
| April | 32.0 | 16 | 30.1 | 12.5 |
| May | 78.4 | 24 | 28.8 | 15.3 |
| June | 90.2 | 23 | 30.2 | 17.8 |
| July | 95.6 | 26 | 29.1 | 19.8 |
| August | 38.6 | 18 | 32.0 | 19.5 |
| September | 110.7 | 23 | 32.0 | 18.5 |
| October | 112.6 | 23 | 29.7 | 15.0 |
| November | 45.2 | 2 | 27.0 | 7.8 |
| December | 25.4 | 1 | 25.8 | 4.8 |

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

| Category | Population | Production | | Productivity |
|---------------------|---------------------|--------------|--------------|-----------------|
| | | 2012 | 2019 | Growth Rate (%) |
| Cattle | Exotic/Crossbreed | | | |
| | Indigenous | 9295 | 16468 | 77.17 |
| | Total | 27614 | 38094 | 37.95 |
| Buffalo | Indigenous | 36909 | 56581 | 53.30 |
| Total Bovine | Total Bovine | 5043 | 4259 | -15.55 |
| Goat | Indigenous | 41952 | 60840 | 45.02 |

| | | | | |
|------------------------|--------------------------|--------------|---------------|--------------|
| Pig | Exotic/ Crossbred | 24033 | 14629 | -39.13 |
| | Indigenous | 12596 | 50282 | 299.19 |
| | Total pig | 17082 | 3397 | -80.11 |
| Sheep | Indigenous | 29678 | 53679 | 80.87 |
| Total Livestock | Total Livestock | 10 | 13 | 30.00 |
| Poultry | Fowl- Desi | 95673 | 129161 | 35.00 |
| | Fowl-Improved | 327182 | NA | NA |
| | Duck- Desi | 129772 | NA | NA |
| | Duck-Improved | 960 | NA | NA |
| | Turkey | 21 | NA | NA |
| | Others-Guineas fowls etc | 76 | NA | NA |
| | Total poultry | 167 | NA | NA |

Note: Pl. provide the appropriate Unit against each enterprise

2.7 Details of Operational area / Villages (2023)

| Sl. No. | Taluk/ Eleka | Name of the block | Name of the village | Major crops & enterprises | Major problem Identified | Identified thrust area |
|---------|--------------|---------------------------------------|--|--|--|--|
| 1 | | Bhoirymbong, Umling, Jirang, Umsning, | Purdwa,Umwang ,Umsariang, Umketieh, Phamshikam,Pah amsyiem, Umsaitphrah,Mar ngar, Khweng, Thadondgiaw, Mawbri,Mawlasn ai | Paddy, Maize, Groundnut,Millet, Pea, Potato, Jalkund | <ul style="list-style-type: none"> • High cost of production • Low productivity,lodging of Paddy • Unscientific method of cultivation • Use of local cultivars • Lack of Awareness and skill • Lack of processing units • Marketing constraints | <ul style="list-style-type: none"> • Promotion of natural farming for improving livelihood and sustainability • Popularization of HYV's of Crops with proper scientific package and practices to enhance farmers income • Introduction of Jalkunds for water conservation • Popularizing processing varieties of potato for enhancing income |

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2023

| Discipline | OFT (Technology Assessment and Refinement) | | | | FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises) | | | |
|--------------|--|-------------|-------------------|-------------|--|-------------|-------------------|-------------|
| | Number of OFTs | | Number of Farmers | | Number of FLDs | | Number of Farmers | |
| | Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| Agronomy | 2 | 2 | 20 | 20 | 3 | 4 | 55 | 90 |
| Fishery | 1 | 1 | 5 | 5 | 3 | 3 | 30 | 30 |
| Home Science | 2 | 1 | 40 | 20 | 2 | 1 | 40 | 20 |
| Animal Sc | 2 | 2 | 25 | 25 | 2 | 1 | 25 | 25 |
| Soil Science | 2 | 2 | 20 | 20 | 2 | 2 | 20 | 20 |
| Total | 9 | 8 | 110 | 90 | 12 | 11 | 170 | 185 |

Note: Target set during last Annual Zonal Workshop

| Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit) | | | | | Extension Activities | | | |
|--|---------|-------------|------------------------|-------------|----------------------|-------------|------------------------|-------------|
| Number of Courses | | | Number of Participants | | Number of activities | | Number of participants | |
| Clientele | Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| Agronomy | 12 | 12 | 360 | 500 | 8 | 15 | 100 | 150 |
| Fisheries Science | | | | | | | | |
| Farmers | 9 | 11 | 180 | 215 | 0 | | | |
| Rural youth | 4 | 4 | 80 | 88 | 0 | | | |

| | | | | | | | | |
|------------------------|----|-------------|-----|----------------------------------|---|-------------|-----|-----|
| Extn. Functionaries | 1 | 1 | 20 | 20 | 0 | | | |
| Animal Science | 7 | 7 | 100 | 115 | 0 | | | |
| Home Science | | | | | | | | |
| Farmers | 12 | 12 | 207 | 211 | | | | |
| Rural youth | 0 | 4 | 80 | 88 | | | | |
| Extn. Functionaries | 1 | 1 | 18 | 18 | | | | |
| Farmers | 3 | 3 | 45 | 54 | | | | |
| Rural youth | 4 | 4 | 60 | 81 | | | | |
| Total | 20 | 24 | 410 | 452 | 8 | 15 | 100 | 150 |
| Seed Production (ton.) | | | | Planting material (Nos. in lakh) | | | | |
| Target | | Achievement | | Target | | Achievement | | |

3. B. Abstract of interventions undertaken during 2023

| Sl. No | Thrust area | Crop/ Enterprise | Identified problems | Interventions | | | | | |
|--------|---------------------|---------------------|--|---|---------------------|---|--|--|---|
| | | | | Title of OFT if any | Title of FLD if any | Title of Training if any | Title of training for extension personnel if any | Extension activities | Supply of seeds, planting materials etc. |
| | Varietal Evaluation | Megha maize 1 and 2 | Low productivity due to use of local cultivars and poor management practices | Performance of improved Maize varieties for higher productivity | - | Improved Cereal production technology through hyvs of Maize | NA | Training, Method demonstrations, field day | Seeds, Fertilizers and plant protection chemicals |

| | | | | | | | | | |
|--|--|--------------------|--|--|--|--|----|--|---|
| | Varietal Evaluation | Fingermillet | To increase production and productivity of millets in Ri-Bhoi district | Performance of high yielding varieties of fingermillet under low altitudes | | | | Training, Method demonstrations, field day | Seeds, Fertilizers and plant protection chemicals |
| | popularization of processing varieties of Potato | Kufri Frysona | Low productivity due to use of local cultivar | ---- | Promotion of improved processing variety of Potato (Var. Kufri Frysona) | Scientific production technology for potato processing variety | NA | Training, Method demonstrations, field day | Seeds, Fertilizers and plant protection chemicals |
| | Water Conservation | Jalkund | Water scarcity during winter season for growing vegetables | ----- | Promotion of Jalkund for multipurpose use of water | Water conservation through small water harvesting structures | | Trainings | Silpauline sheets |
| | Popularising HYVs of Pea | Maize (var RCM 76) | Poor performance due to use of local cultivars - | ----- | Promotion of Pea crop (Var. TRCP 8) under raised bed in rice fallows for rabi season | Scientific cultivation techniques for growing HYV of pulses | NA | Training, Method demonstrations, field day | Maize Seeds, Fertilizers and plant protection chemicals |
| | Value addition | Millets | Non utilization of millets for value addition | Performance of Value addition of millets into value added products | - | Value-added products from millets | - | - | All ingredients like millets, sugar, milk etc |
| | Value addition | Ginger | Not processing of ginger into other high value-added products. | - | Performances of Value addition of Ginger for higher income | Processing of Ginger into different value added products | - | - | All ingredients like ginger Oil, spices, vinegar |

| | | | | | | | | | |
|--|--------------------------------|---------------------------|--|--|---|--|---|--------------------------------|-----------------------------|
| | Fisheries management | Labeogoniuss | Low productivity unavailability of suitable species for mid-range altitude region. | Performance Of Minor Carp In Poly Culture | na | | | Training, method demonstration | Fingerlings, feed, lime etc |
| | Evaluation of breed | Rainbow Rooster, Vanaraja | Low productive performance local birds | Performance Of Rainbow Rooster Under Backyard Poultry Breeds | na | | | Training, method demonstration | Fingerlings, feed, lime etc |
| | Fisheries management | IMC and Amur carps | Low growth and productivity of local common carps | | Popularisation Of Amur Common Carp | | | Training, method demonstration | Fingerlings, feed, lime etc |
| | IFS | Integrated Fish Farming | Low productivity and production from single enterprise | | Popularisation Of Paddy Cum Fish Farming System For Higher Income | Integrated Paddy cum Fish farming System | | Training, method demonstration | Fingerlings, feed, lime etc |
| | Fodder management | Kent and Hybrid Napier | Scarcity of green fodder during lean season | | Popularization Of Different Fodders During Lean Season | | | Training, method demonstration | Fingerlings, feed, lime etc |
| | IFS | Integrated Fish Farming | Low productivity and production from single enterprise | | Popularization of Integrated Fish-pig-vegetable in Ri Bhoi district | Integrated fish Pig farming system | | Training, method demonstration | Fingerlings, feed, lime etc |
| | Backyard poultry | Poultry | Low reproductive performance of indigenous poultry | Performance of Rainbow Rooster under Backyard system. | - | “Backyard poultry production with improved breeds” | - | Awareness meeting | Poultry chicks 750 |
| | Introduction of improve breeds | Piggery | Low productive performance of indigenous pigs | - | Popularization of improved crossbreed pigs | Pig farming with improved breeds | - | Group discussion | Piglets 15 |

| | | | | | | | | | |
|--|---------------------------|--|--|--|--|--|--|--|--|
| | Soil Fertility Management | Finger Millet (Var. VL 379)/ Organics | Low productivity due to poor soil fertility management | Performance of Finger Millet under Organic Soil Fertility Management (Second Year) | | | | | |
| | Soil Fertility Management | Megha SA2, Rapeseed/Mustard Var.: M-27/ Organics | Low productivity due to poor soil fertility management | Effect of Organics on Soil Health and crop productivity in Lowland Rice-Mustard/Rapeseed cropping system in acidic soil. | | | | | |
| | Acid Soil Management | Organics/ ginger | Low productivity due to soil acidity problem | | Promotion of organic ginger production practices for soil acidity management and productivity enhancement. | | | | |

| | | | | | | | | | |
|--|--------------------------------------|-----------------------|--|--|--|--|--|--|--|
| | Organic Farming | Organics/ Turmeric | Low productivity due to poor soil Fertility Management | | Promotion of Organic nutrient management in Turmeric FYM @ 10 t/ha + vermicompost @ 5 t/ha + Trichoderma harzanium @10 ml/ kg of seed + Azotobacter 10 ml / kg of Seed + Neem cake @250 kg/ha+ 150 kg/ha Rock Phosphate + Lime 500 kg/ha | | | | |
| | Organic Farming | Turmeric/ Organics | Low productivity due to poor soil Fertility Management | | | Training on Organic Nutrient Management in Turmeric Crop | | | |
| | Organic Farming | Turmeric/ Organics | Low productivity due to poor soil Fertility Management | | | Training on Organic Packages and Practices of Turmeric Cultivation | | | |
| | Production and Use of Organic Inputs | Enriched Compost | Improper decomposition of Organic Manure | | | Training on Promotion of Enriched compost made from locally available biomass for soil nutrient management and profit maximization | | | |

| | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| Drudgery reduction | | | | | | | | | | |
| Farm machineries | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | |
| Integrated Disease Management | | | | | | | | | | |
| Resource conservation technology | | | | | | | | | | |
| Small Scale income generating enterprises | | | | | | | | | | |
| TOTAL | | | | | | | | | | |

* *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3. Abstract of the number of technologies assessed in respect of livestock / enterprises

| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Rabbitery | Fisheries | TOTAL |
|---------------------------|--------|---------|-------|------|---------|-----------|-----------|-------|
| Evaluation of Breeds | | 1 | | | | | | |
| Nutrition Management | | | | | | | | |
| Disease of Management | | | | | | | | |
| Value Addition | | | | | | | | |
| Production and Management | | | | | | | | |
| TOTAL | | 1 | | | | | | |

A.4. Abstract on the number of technologies refined in respect of livestock / enterprises

| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Rabbitery | Fisheries | TOTAL |
|---|--------|---------|-------|------|---------|-----------|-----------|-------|
| Evaluation of Breeds | | | | | | | | |
| Nutrition Management | | | | | | | | |
| Disease of Management | | | | | | | | |
| Production and Management | | | | | | | | |
| Feed and Fodder | | | | | | | | |
| Small Scale income generating enterprises | | | | | | | | |
| TOTAL | | | | | | | | |

A.5. Results of On Farm Testing (OFT)

| Sl. No. | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined (Data on the parameter should be provided) | | | | Feedback from the farmer | Feedback to the Researcher | B:C Ratio (if applicable) |
|---------|--|--|--|----------------------------------|---------------|---|--------------------|-------|--------|--------------------------------|-----------------------------|---------------------------|
| | | | | | | | No of grains/cob | G.Yd | N.Ret | | | |
| | Performance of improved maize varieties for higher productivity | Low productivity due to use of local cultivars and poor management practices | Evaluation of HYVs of maize | Maize | 10 | T ₁ -Megha maize-1 | 675 | 39.50 | 43,100 | Satisfied with the performance | Well adopted by the farmers | 2.53 |
| | | | | | | T ₂ -Megha maize-2 | 698 | 40.25 | 44,450 | | | 2.61 |
| | | | | | | T ₃ -FP | | | | | | 1.97 |
| | | | | | | | 487 | 27.8 | 24,366 | | | |
| | Performance of high yielding varieties of fingermillet under low altitudes | Low productivity due to monocropping | Performance of Finger millet varieties under low altitudes | Finger millet | 10 | T ₁ -VL-379 | No. of fingers/ear | | | Satisfied with the performance | Well adopted by the farmers | 2.50 |
| | | | | | | T ₂ -VL-380 | | 18.72 | 28050 | | | 2.41 |
| | | | | | | T ₃ -FP | 6.81 | 18.08 | 26450 | | | 1.8 |
| | | | | | | | 6.38 | 13.08 | 13950 | | | |
| | | | | | | | 5.92 | | | | | |

| | | | | | | | | | | | | |
|---|---|---|--|-------------|---|--|--|---|---|--|---|---|
| 1 | Performance s of Value addition of Millet into nutri rich breakfast items | Non utilization of Millet for value addition | Value addition of Millet | Millet | 5 | 1.Shelf life- winter season Flour - no spoilage or hardening) Pancake- 2days Idly-1 day 2.Sensory acceptabilit y score card rating -1-5 (based on Appearance ,Aroma, Tex ture,Taste,c olor) No of sample: 20 Ranking of Acceptance: Pan cake 100% Idli 85% Flour 80% | 6000 | 18000 | 3 | The farm women are readily accepting the products prepared from millets and they find it highly nutritious. | Spread of the technolog y to other villages and more numbers of millets products with longer shelf life which can be sold in the market. | 3 |
| 1 | Performance Of Minor Carp In Poly Culture | Low productivity unavailability of suitable species for mid-range altitude region. | TO-1 : Labeogonius at 10% inclusion TO-2 : Labeogonius at 20% inclusion | Labeogonius | 5 | Catla Rohu Mrigal C carp Gonius | 512.03±4.0 8 453.5±3.89 7 374.2±12.7 3 839.5±11.1 6 318.31±4.1 | Catla Rohu Mrigal C carp Gonius | 532.16 ±4.5 412.68 ±2.6 353.19 ±8.9 868.53 ±9.9 287.23 ±3.8 | Labeogoniu s can be included in poly culture with carps since the demand for this fish is high | | |

| | | | | | | | | | | | | |
|---|--|--|---|---------|---|---|--|--|--|---|--|--|
| | | | | | | | 3 | | | | | |
| | | | | | | Gross cost Gross return Net return BCR | 12050 45120 33070 2.74 | Gross cost Gross return Net return BCR | 12050 42007 29957 2.49 | | | |
| | | | | | | | Vanaraja | R. Rooster | Indigenous | | | |
| 2 | Performance Of Rainbow Rooster Under Backyard Poultry Breeds | Low productive performance local birds | TO1 : Vanaraja TO2: Rainbow Rooster TO3: Indigenous | Poultry | 5 | Wt at maturity M Wt at maturity F Age at sexual maturity (days) Egg Production(No s)/yr Egg weight(g) Body weight at different age at 8th week 20 th week 40 th week 50 nd week | 3.63±0.159 2.65±0.12 179.6±4.7 138.3±1.7 57 ±2.4 788.2±6.4 1755.5±11.1 2998.6±18 3663.1±20.1 | 3.63 ±0.12 2.5±0.1 178.9 ±0.5 108.7 ±1.8 54.4 ±0.4 753.13±5. 16 1592.15±7 .8 2903.1±19 .2 3634.1±21 .3 | 1.68±0.05 1.3±0.02 198.2 ±1.1 51.2 ±1.4 38.1±0.28 355.12±2.3 795.11±5.3 1129.3±8 1685.4±15.1 | Availabilit y of good and quality chicks especially month old chick is still a constraint | | |

| | | | | | | | | | | | | |
|---|--|--|---|---------|---|--|-------------|-------------|-------------|--|--|--|
| | | | | | | Cost of production (GC) | 6206.5 | 6406.5 | 4729.5 | | | |
| | | | | | | Cost of production (GC)/Bird | 310.325 | 320.325 | 236.475 | | | |
| | | | | | | Total Gross income | 26360 | 19980 | 11030 | | | |
| | | | | | | Net Income | 20153 | 13573.5 | 6300.5 | | | |
| | | | | | | Net income/ Bird | 1007.7 | 678.7 | 315 | | | |
| | | | | | | Mortality | 10% | 10% | 5% | | | |
| | | | | | | Survivability % up to 6 weeks | 90% | 90% | 95% | | | |
| | | | | | | FCR | 2.23 | 2.52 | 3.16 | | | |
| | | | | | | BCR | 4.2 | 3.1 | 2.3 | | | |
| | | | | | | | Vanaraja | R Rooster | Indigenous | | | |
| 2 | Performance Of Rainbow Rooster Under Backyard Poultry Breeds | Low productive performance local birds | TO1 : Vanaraja TO2: Rainbow Rooster TO3: Indigenous | Poultry | 5 | Wt at maturity M | 3.63±0.159 | 3.63 ±0.12 | 1.68±0.05 | Availability of good and quality chicks especially month old chick is still a constraint | | |
| | | | | | | Wt at maturity F | 2.65±0.12 | 2.5±0.1 | 1.3±0.02 | | | |
| | | | | | | Age at sexual maturity (days) | 179.6±4.7 | 178.9 ±0.5 | 198.2 ±1.1 | | | |
| | | | | | | Egg Production(Nos)/yr | 138.3±1.7 | 108.7 ±1.8 | 51.2 ±1.4 | | | |
| | | | | | | Egg weight(g) | 57 ±2.4 | 54.4 ±0.4 | 38.1±0.28 | | | |
| | | | | | | Body weight at different age at 8th week | 788.2±6.4 | 753.13±5.16 | 355.12±2.3 | | | |
| | | | | | | 20 th week | 1755.5±11.1 | 1592.15±7.8 | 795.11±5.3 | | | |
| | | | | | | 40 th week | 2998.6±18 | 2903.1±19.2 | 1129.3±8 | | | |
| | | | | | | 50 nd week | 3663.1±20.1 | 3634.1±21.3 | 1685.4±15.1 | | | |
| | | | | | | Cost of production (GC) | 6206.5 | 6406.5 | 4729.5 | | | |
| | | | | | | Cost of production (GC)/Bird | 310.325 | 320.325 | 236.475 | | | |
| | | | | | | Total Gross income | 26360 | 19980 | 11030 | | | |
| | | | | | | Net Income | 20153 | 13573.5 | 6300.5 | | | |
| | | | | | | Net income/ Bird | 1007.7 | 678.7 | 315 | | | |
| | | | | | | Mortality | 10% | 10% | 5% | | | |
| | | | | | | Survivability % | 90% | 90% | 95% | | | |

| | | | | | | | | | | | | |
|--|---|--|--|--|---|-----------------------------|-------------|---|-------------|---|---|--|
| | | | | | | up to 6 weeks FCR BCR | 2.23 4.2 | 2.52 3.1 | 3.16 2.3 | | | |
| | OFT on Performance of Finger Millet under Organic Soil Fertility Management | Low productivity due to poor soil fertility management | Finger Millet under Organic Soil Fertility Management | Finger Millet/ Organics | 5 | | | T1:12.24 q/ha T2:9.34 q/ha T3: 7.55 q/ha T4:5.87 q/ha | | The Farmers are satisfied by the result of the OFT by achieving higher yield and good Soil Health | Suitable and Low-cost Technology for the Farmers of Ri-Bhoi District for increased the yield. | |
| | Effect of Organics on Soil Health, C-sequestration and crop productivity in Low-land rice-Mustard/Rapeseed cropping system in acidic soil | Low productivity due to poor soil fertility management | Use of Organics on Soil Health, C-sequestration and crop productivity in Low-land rice-Mustard/Rapeseed cropping system in acidic soil | Rice-Rapeseed/ Mustard cropping system | 5 | | | Rice T1:39.14 q/ha Rice T2: 19.34 q/ha Mustard / Rapeseed: T1: 8.2 Mustard/ Rapeseed T2: 4.8 | | The Farmers are satisfied by the result of the OFT by achieving higher yield and good Soil Health | Suitable and Low-cost Technology for the Farmers of Ri-Bhoi District for increased the yield. | |

*Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermicompost kg/unit area.

** Give details of the technology assessed or refined and farmer's practice

3.2 Achievements of Frontline Demonstrations during 2023

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous years and popularized and recommended for large scale adoption in the district

| Sl. No | Crop and Variety/ Enterprise | Technology demonstrated | Horizontal spread of technology | | |
|--------|---------------------------------|--|---------------------------------|----------------|------------|
| | | | No. of villages | No. of farmers | Area in ha |
| 1 | Paddy | Improved cultivation technology | 4 | 66 | 7.0 |
| 2 | Maize | Scientific cultivation techniques for growing HYV of maize | 5 | 79 | 5.0 |
| 3 | Potato | Package and practices for growing HYV of Potato | 5 | 87 | 6.0 |
| 4 | Pea | Package and practices for growing HYV of Pea | 6 | 65 | 7.0 |
| 5 | Jalkund | Water conservation through construction of small micro watershed | -- | 30 | 5.0 |
| 6 | Ginger | Performances of Value addition of Ginger for higher income | 1 | 20 | 0.005 |
| 7 | Organics/ ginger | Promotion of organic ginger production practices for soil acidity management and productivity enhancement. | 5 | 20 | 2 ha |
| 8 | Organics/ Turmeric | Promotion of Organic nutrient management in Turmeric | 5 | 20 | 1 ha |

* Thematic areas as given in Table 3.1 (A1 and A2)

- b. Details of FLDs conducted during reporting period (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

| Sl. No. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ demonstration | | | Reasons for shortfall in achievement | Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc) | Status of soil (Kg/ha) | | |
|---------|--------------------|-------------------------|--|-----------------|-----------|--------|-------------------------------|--------|-------|--------------------------------------|--|------------------------|-------|--------|
| | | | | | Proposed | Actual | SC/ST | Others | Total | | | N | P | K |
| 1 | Potato | Production & management | Scientific cultivation techniques for growing Potato (Kufri Frysona) | Rabi2022 | 2.0 | 5.0 | 70 | | 70 | | Rainfed Sandy loam | 229 | 21 | 126 |
| 2 | Pea | Production & management | Scientific cultivation techniques for growing Pea (TRCP-8) | Rabi 2022 | 5.0 | 5.0 | 85 | | 85 | | Rainfed Sandy loam | 218 | 22 | 128 |
| 3 | Organics/ ginger | Acid Soil Management | Promotion of organic ginger production practices for soil acidity management and productivity enhancement. | 2022-23 | 2.0 | 2.0 | 10 | | 10 | | Rainfed Sandy loam | 280.52 | 12.54 | 143.43 |
| 4 | Organics/ Turmeric | Organic Farming | Promotion of Organic nutrient management in Turmeric | 2023-24 | 1.00 | 1.00 | 10 | | 10 | | Rainfed Sandy loam | 296.15 | 10.09 | 134.09 |

c. Performance of FLD on Crops during 2023

| Sl. No. | Crop | Thematic area | Area (ha.) | Avg. yield (Q/ha.) | | % increase in Avg. yield | Additional data on demo. yield (Q/ha.) | | Data on parameters other than yield, e.g., disease incidence, pest incidence etc. | | Econ. of demo. (Rs./ha.) | | | | Econ. of check (Rs./Ha.) | | | |
|---------|--------------------|---------------------------|------------|--------------------|--------------|--------------------------|--|--------|---|-------|--------------------------|----------|----------|-------|--------------------------|----------|--------|------|
| | | | | Demo. | Check | | H* | L* | | | GC** | GR** | NR* | BCR** | GC | GR | NR | BCR |
| | | | | | | | | | Demo | Local | | | | | | | | |
| 1 | Potato | Production and management | 7.0 | 195.2 | 126.3 | 54.55 | 211.8 | 175.5 | Nil | Nil | 1,03,400 | 2,89,800 | 1,86,400 | 2.80 | 99500 | 1,89,000 | 98450 | 1.80 |
| 2 | Pea | Seed production | 5.0 | 42.34 | 28.95 | 46.25 | 49.6 | 35.65 | Nil | Nil | 55,400 | 1,27,020 | 71,620 | 2.32 | 35,100 | 72,375 | 37,275 | 1.9 |
| 3 | Organics/ ginger | Acid Soil Management | 2.0 | 192q/ha | T2: 135 q/ha | 142.22 | 205.65 | 132.33 | | | 276657 | 960000 | 6,83343 | 3.47 | 364864 | 675000 | 310136 | 1.85 |
| 4 | Organics/ Turmeric | Organic Farming | 1.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

*H-Highest recorded yield, L- Lowest recorded yield ** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio Produce Sale Price must be as per MSP or Registered Marketing Society Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

d. Extension and Training activities under FLD on Crops

| Sl.No. | Activity | No. of activities organised | Date | Number of participants | | | Remarks |
|--------|--------------------------------------|-----------------------------|--------------------------|------------------------|----------|----------|---------|
| | | | | Gen | SC/ST | Total | |
| 1 | Field days | 2 (Potato and maize) | 26.04.2023 20.04.2023 | | 40 20 | 40 20 | |
| 2 | Farmers Training | | | | | | |
| 3 | Media coverage | | | | | | |
| 4 | Training for extension functionaries | | | | | | |
| 5 | Any other (Pl. specify) | | | | | | |
| | Total | 2 (Potato and maize) | 26.04.2023 20.04.2023 | | 60 | 060 | |

e. Details of FLD on Enterprises

(i) Farm Implements

| Name of the implement | Crop | No. of farmers | Area (ha) | Performance parameters / Indicators | * Data on parameter in relation to technology demonstrated | | % change in the parameter | Remarks |
|-----------------------|------|----------------|-----------|-------------------------------------|--|-------------|---------------------------|---------|
| | | | | | Demon. | Local check | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

* Field efficiency, labour saving etc.

(ii) Livestock Enterprises

| Sl. No. | Enterprise/ Category (e.g., Dairy, Poultry etc.) | Thematic area | Name of Technology | No. of farmers | No. of units | No. of animals, poultry birds etc. | Major Performance parameters / indicators | | % change in the parameter | Other parameters (if any) | | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | | Remarks |
|---------|--|---------------|--------------------|----------------|--------------|------------------------------------|---|-------|---------------------------|---------------------------|-------|--------------------------|-----|-----|------|--------------------------|----|----|-----|---------|
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Demo | Check | | Demo | Check | GC* | GR* | NR* | BCR* | GC | GR | NR | BCR | |
| 1 | | | | | | | | | | | | | | | | | | | | |

(iii) Fisheries

| Sl. No. | Category, e.g. Common carp, ornamental fish etc. | Thematic area | Name of Technology | No. of farmers | No. of units | No. of fish/fingerlings | Major Performance parameters / indicators | | % change in the parameter | Other parameters (if any) | | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | | Remarks |
|---------|--|---------------|--------------------|----------------|--------------|-------------------------|---|-------|--|---------------------------|--------|--------------------------|--------|--------|------|--------------------------|-------|-------|-----|---------|
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Demo | Check | | Demo | Check | GC* | GR* | NR* | BCR* | GC | GR | NR | BCR | |
| 1 | Amur carp | IFS | Paddy cum fish | 10 | 10 | 1000/0.1ha | Growth rate:303±3.45 Survival rate78.6±2.86 Fish production 313±2.45 Rice production 28.91±1.5 | | Rice production22.83±2.21 Maturity in (days) 135 ±4.11 B:C Ratio 2.3 | 59900 | 176775 | 59900 | 176775 | 115875 | 3.2 | 29395 | 67075 | 37680 | 2.3 | |

| | | | | | | | | | | | | | | | | | | | | |
|---|--|-----|-------------------------------|----|----|--------------------------------------|---------------------------------|--|--|-------|------------|---------------|----------------|----------------|----------|-----------|-----------|----------|-----|--|
| | | | | | | | Maturity in days 135±1.30 | | | | | | | | | | | | | |
| 2 | | IFS | IFS- Pig Vegeta bles | 10 | 10 | 1000/0.1ha Piglet 2 nos/0.1 ha | | | | 30960 | 13323 5 | 30 96 0 | 13 32 35 | 10 22 75 | 3.1 1 | 1205 0 | 1960 3 | 75 53 | 1.6 | |

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(iv) Other enterprises

| Sl. No. | Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc. | Thematic area | Name of Technology | No. of farmers | No. of units | Major Performance parameters / indicators | | % change in the parameter | Other parameters (if any) | | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | | Remarks |
|---------|--|---------------|---|----------------|--------------|---|--|---------------------------|---------------------------|-------|--------------------------|-------|-------|------|--------------------------|-------|------|-----|---------|
| | | | | | | Demo | Check | | Demo | Check | GC* | GR* | NR* | BCR* | GC | GR | NR | BCR | |
| | Value addition of ginger | | Performance of Value addition of Ginger for higher income | 20 | 1 | 1.Shelf life at room temperature: there is no spoilage or bacterial growth 2. Sensory acceptability score card rating 1-5 No of sample: 20 • Taste- • Color- • Appearance- • Aroma- • Texture- | 1.Shelf life: moulds formation after 2 months 2.Sensory acceptability 65% | 100% | - | - | 8000 | 25000 | 18000 | 2.2 | 9000 | 17000 | 6000 | 0.6 | |

f. Performance of FLD on Crop Hybrids

| Sl. No. | Crop | Name of hybrids | Area (ha.) | No. of farmers | Avg. yield (Q/ha.) | | % increase in Avg. yield | Additional data on demo. yield (Q/ha.) | | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | |
|---------|------|-----------------|------------|----------------|--------------------|-------|--------------------------|--|----|--------------------------|-----|------|-------|--------------------------|----|----|-----|
| | | | | | Demo. | Check | | H* | L* | GC* | GR* | NR** | BCR** | GC | GR | NR | BCR |
| | | | | | | | | | | | | | | | | | |

*H-Highest recorded yield, L- Lowest recorded yield

** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

3.3. Achievements on Training during 2023

**(Attached separate in Excel format)

Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

| Discipline | Area of training | Title of the training programme | Date (From – to) | Duration in days | Venue | Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel) | General participants | | | SC/ST | | | Grand Total | | |
|------------|------------------|---|------------------|------------------|--------------|--|----------------------|---|---|-------|----|---|-------------|---|----|
| | | | | | | | M | F | T | M | F | T | M | F | T |
| Agronomy | Natural Farming | Cultivation of Hyvs through Jeevamrut and Beejamrut | 23.10.22 | 1 | KVK, Ri-Bhoi | Farmer & Farm Women | | | | 5 | 36 | | | | 41 |

| | | | | | | | | | | | | | | | |
|-----------|---------------------------------|---|----------------|---|------------------|------------------------|--|--|--|----|----|----|----|----|----|
| | Seed produc- tion | Scientific cultivation of growing Hyvs of major crops | 13.02.20 23 | 1 | KVK, Ri- Bhoi | Farmers and farm women | | | | 3 | 15 | | | | 18 |
| Animal Sc | Poultry manag- ement | Scientific poultry farming | 04.04.2023 | 1 | KVK | F | | | | 2 | 18 | 20 | 2 | 18 | 20 |
| Animal Sc | Poultry manag- ement | Scientific poultry farming | 04.04.2023 | 1 | KVK | F | | | | 7 | 11 | 18 | 7 | 11 | 18 |
| Animal Sc | Pigger- y manag- ement | Scientific pig farming | 06.04.2023 | 1 | KVK | F | | | | 7 | 11 | 18 | 7 | 11 | 18 |
| Fisheries | IFS | Integrated Fish Paddy farming system | 15.06.2023 | 1 | Banbudai | RY | | | | 0 | 11 | 11 | 0 | 11 | 11 |
| Fisheries | IFS | Integrated Fish Poultry farming system | 24.07.2023 | 1 | KVK | F | | | | 0 | 25 | 25 | 0 | 25 | 25 |
| Fisheries | IFS | Integrated Fish Poultry farming system | 25.07.2023 | 1 | KVK | F | | | | 2 | 28 | 30 | 2 | 28 | 30 |
| Fisheries | IFS | Integrated Fish Poultry farming system | 04.08.2023 | 1 | KVK | F | | | | 17 | 4 | 21 | 17 | 4 | 21 |
| Fisheries | IFS | Integrated Fish Poultry farming system | 21.08.2023 | 1 | KVK | F | | | | 18 | 2 | 20 | 18 | 2 | 20 |
| Fisheries | IFS | Integrated Fish Poultry farming system | 22.08.2023 | 1 | KVK | F | | | | 6 | 4 | 10 | 6 | 4 | 10 |
| Fisheries | IFS | Integrated Fish Poultry farming system | 29.08.2023 | 1 | KVK | F | | | | 10 | 18 | 28 | 10 | 18 | 28 |

| | | | | | | | | | | | | | | | |
|-----------|----------------------|---|---------------|---|-----------|----|--|--|--|----|----|----|----|----|----|
| Fisheries | IFS | Integrated Fish Poultry farming system | 31.08.2023 | 1 | KVK | F | | | | 6 | 4 | 10 | 6 | 4 | 10 |
| Fisheries | Production of inputs | Feed formulation and production | 04.09.2023 | 1 | Umramblei | RY | | | | 0 | 30 | 30 | 0 | 30 | 30 |
| Fisheries | Production of inputs | Feed formulation and production | 27.09.2023 | 1 | Umramblei | RY | | | | 9 | 13 | 22 | 9 | 13 | 22 |
| Fisheries | Feed management | Feed and feeding management in carps | 29.09.2023 | 1 | Banbudai | RY | | | | 0 | 25 | 25 | 0 | 25 | 25 |
| Animal Sc | Poultry management | Scientific poultry farming | 06.10.2023 | 1 | KVK | F | | | | 6 | 9 | 15 | 6 | 9 | 15 |
| Fisheries | IFS | Sponsored Training Programme on Integrated farming System | 09-13.10.2023 | 5 | KVK | F | | | | 17 | 25 | 42 | 17 | 25 | 42 |
| Fisheries | IFS | Integrated Fish Farming system | 16.11.2023 | | MSFRTI | EP | | | | 20 | 0 | 20 | 20 | 0 | 20 |

Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

| Discipline | Area of training | Title of the training programme | Date (From – to) | Duration in days | Venue | Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel) | General participants | | | SC/ST | | | Grand Total | | |
|--------------|--------------------------------------|--|------------------|------------------|--------------|--|----------------------|---|---|-------|----|----|-------------|----|----|
| | | | | | | | M | F | T | M | F | T | M | F | T |
| Soil Science | Organic Farming | Training on Organic Nutrient Management in Turmeric Crop | 21/04/2023 | 1 | Thadnongjiew | RY | | | | 9 | 6 | 15 | 9 | 6 | 15 |
| Soil Science | Organic Farming | Training on Organic Packages and Practices of Turmeric Cultivation | 26/5/2023 | 1 | Sumer | Farmers and Farm Women | | | | 2 | 18 | 20 | 2 | 18 | 20 |
| Soil Science | Production and Use of Organic Inputs | Training on Promotion of Enriched compost made from locally available biomass for soil nutrient management and profit maximization | 30/05/2023 | 1 | Thadnongjiew | RY | | | | 5 | 17 | 22 | 5 | 17 | 22 |
| Soil Science | Soil Fertility Management | Training on Effect on Biochar on C sequestration, Soil Health and crop productivity in low land rice- mustard cropping system in acidic soil | 31/05/2023 | 1 | Kyrdem | RY | | | | 4 | 19 | 23 | 4 | 19 | 23 |

| | | | | | | | | | | | | | | | |
|--------------|--------------------------------|--|------------|---|--------------|------------------------|--|--|--|---|----|----|---|----|----|
| Soil Science | Soil Testing | Training on Need and importance of Soil Testing | 26/09/2023 | 1 | Mawbri | Farmers and Farm Women | | | | 4 | 14 | 18 | 4 | 14 | 18 |
| Soil Science | Organic Farming | Training on Organic Lakadong Turmeric Production and processing for rural empowerment generation | 20/10/2023 | 1 | Sumer | Farmers and Farm Women | | | | 7 | 9 | 16 | 7 | 9 | 16 |
| Soil Science | Management of Problematic Soil | Training on Biochar production and soil acidity management and Celebration of World Soil Day | 05/12/2023 | 1 | Sumer Umbang | RY | | | | 6 | 15 | 21 | 6 | 15 | 21 |
| Agronomy | Seed production | Scientific practices for growing Hyvs of Maize | 02.05.2023 | 1 | Purdwa | Farmer & Farm Women | | | | 7 | 18 | 25 | | | 25 |
| | Cereal production technology | Maize Production technology | 25.04.2023 | 1 | Mawbri | Farmer & Farm Women | | | | 8 | 10 | 18 | | | 18 |
| | Cereal production technology | Production technology for growing Hyvs of Cereals | 28.04.2023 | 1 | Kyrdem | Farmer & Farm Women | | | | 3 | 12 | 15 | | | 15 |
| | Seed production | Promotion of Hyvs of Maize | 04.05.2023 | 1 | Thadnongiaiw | Farmer & Farm Women | | | | 5 | 15 | 20 | | | 20 |
| | Seed production | Cultivation of Millet crop for nutritional security | 28.06.2023 | 1 | Umktieh | Farmer & Farm Women | | | | 2 | 18 | 20 | | | 20 |

| | | | | | | | | | | | | | | | |
|--------------|-------------------------------------|---|-----------------------------|--------|--------------|---------------------|---|---|---|----|----|----|---|----|----|
| | Seed production | Promotion of millet crop for higher productivity | 3.07.2023 | 1 | Khilehumtrew | Farmer & Farm Women | | | | 4 | 11 | 15 | | | 15 |
| | Crop diversification | Production technology of growing Hyv of pulses | 19.02.2023 | 1 | Khweng | Farmer & Farm Women | | | | 7 | 8 | 15 | | | 15 |
| | Crop diversification | Scientific technology of growing Hyv of Pea | 28.11.2023 | 1 | Khweng | Farmer & Farm Women | | | | 12 | 26 | 38 | | | 38 |
| | Crop diversification | Crop diversification through introduction of pulses | 29.11.2023 | 1 | Umktieh | Farmer & Farm Women | | | | 9 | 17 | 26 | | | 26 |
| | Resource conservation technology | Introduction of Pea var IPFD 10-12 | 08.12.2023 | 1 | Thadnongiaiw | Farmer & Farm Women | | | | | | | | | 45 |
| Home Science | Storage techniques of food products | Storage techniques of food products | 12.01.23 to 13.01.23 | 2 days | Khweng | Farm women | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 12 | 12 |
| Home Science | Value addition of Tubers | Value addition of Tubers | 7.02.23 8.02.23&10.02.23 | 3 days | Khweng | Farm women | 0 | 0 | 0 | 0 | 25 | 25 | 0 | 25 | 25 |
| Home Science | Value addition of Vegetables | Value addition of Vegetables | 20.02.23 | 1 day | Khweng | Farmwomen | 0 | 0 | 0 | 0 | 25 | 25 | 0 | 25 | 25 |
| Home Science | Value addition of chillies | Value addition of chillies | 17.02.2023 | 1 day | khweng | Farm women | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 12 | 12 |
| Home Science | Nutrition Gardening | Nutrition Gardening | 28.3.23 | 1 day | Umroi | Farmers | 0 | 0 | 0 | 3 | 17 | 20 | 3 | 17 | 20 |

| | | | | | | | | | | | | | | | |
|--------------|--|--|----------------------|--------|------------|---------------------|---|---|---|---|----|----|---|----|----|
| Home Science | Nutrition Gardening | Nutrition Gardening | 17.10.23 to 19.10.23 | 3 days | Khweng | Farmwomen | 0 | 0 | 0 | 0 | 22 | 22 | 0 | 22 | 22 |
| Home Science | Drudgery reduction | Drudgery reduction | 10.11.23 | 1 day | Umsaitprah | Farmwomen | 0 | 0 | 0 | 0 | 20 | 20 | 0 | 20 | 20 |
| Home Science | Valueaddition of horticultural crops | Valueaddition of horticultural crops | 20.11.23 to 22.11.23 | 3 days | Tyrso | Farmwomen | 0 | 0 | 0 | 0 | 20 | 20 | 0 | 20 | 20 |
| Home Science | Importance of Nutrition garden in Angan wadi centres | Importance of Nutrition garden in Angan wadi centres | 29.11.23 | 1 day | Saiden | Extension personnel | 0 | 0 | 0 | 0 | 18 | 18 | 0 | 18 | 18 |
| Home Science | Mushroom cultivation for value addition | Mushroom cultivation for value addition | 5.12.23 to 6.12.23 | 2 days | Khweng | Farmers | 0 | 0 | 0 | 1 | 14 | 15 | 1 | 14 | 15 |
| Home Science | Valueaddition of ginger | Valueaddition of ginger | 12.12.23 | 1 day | Khweng | Farm women | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 12 | 12 |
| Home Science | Valueaddition of Turmeric | Valueaddition of Turmeric | 13.12.23 | 1 day | Khweng | Farm woman | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 12 | 12 |
| Home Science | Valueaddition of Millet | Valueaddition of Millet | 15.12.23 | 1 day | Mawbri | Farmwoman | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 16 | 16 |
| Fisheries | IFS | Integrated Fish Paddy farming system | 15.06.2023 | 1 | Banbudai | RY | | | | 0 | 11 | 11 | 0 | 11 | 11 |
| Fisheries | Production of inputs | Feed formulation and production | 04.09.2023 | 1 | Umramblei | RY | | | | 0 | 30 | 30 | 0 | 30 | 30 |

| | | | | | | | | | | | | | | | |
|-----------|----------------------|--------------------------------------|------------|---|-----------|----|--|--|--|----|----|----|----|----|----|
| Fisheries | Production of inputs | Feed formulation and production | 27.09.2023 | 1 | Umramblei | RY | | | | 9 | 13 | 22 | 9 | 13 | 22 |
| Fisheries | Feed management | Feed and feeding management in carps | 29.09.2023 | 1 | Banbudai | RY | | | | 0 | 25 | 25 | 0 | 25 | 25 |
| Fisheries | IFS | Integrated Fish Farming system | 16.11.2023 | | MSFRTI | EP | | | | 20 | 0 | 20 | 20 | 0 | 20 |

(D) Vocational training programmes for Rural Youth

| Crop / Enterprise | Date (From – To) | Duration (days | Area of training | Training title* | No. of Participants | | | | | | | | | Impact of training in terms of Self employment after training | | | | Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.) |
|----------------------|------------------------|-------------------|---------------------|--------------------|---------------------|---|---|-------|---|---|-------|---|---|--|--------------------|-------------------------------------|---|---|
| | | | | | General | | | SC/ST | | | Total | | | | | | | |
| | | | | | M | F | T | M | F | T | M | F | T | Type of enterprise ventured into | Number of units | Number of persons employed | Avg. Annual income in Rs. generated through the enterprise | |

*training title should specify the major technology /skill transferred

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

| On/ Off/ Vocational | Beneficiary group (F/ FW/ RY/ EP) | Date (From- To) | Duration (days) | Discipline | Area of training | Title | No. of Participants | | | | | | | | | Sponsoring Agency | Amount of fund received (Rs.) |
|------------------------|--|-----------------------|--------------------|------------|---------------------|-------|---------------------|---|---|-------|---|---|-------|---|---|----------------------|--|
| | | | | | | | General | | | SC/ST | | | Total | | | | |
| | | | | | | | M | F | T | M | F | T | M | F | T | | |
| | | | | | | | | | | | | | | | | | |

3.4.Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2023

| Sl. No. | Extension Activity | Topic | Date and duration | No. of activities | Participants | | | | | | | | | | | |
|----------|--------------------------------|---------------------------------------|-------------------|-------------------|----------------|-----|---|--------------|-----|-----|----------------------------|-----|---|----------------------|-----|-----|
| | | | | | General (1) | | | SC/ST (2) | | | Extension Officials (3) | | | Grand Total (1+2) | | |
| | | | | | M | F | T | M | F | T | M | F | T | M | F | T |
| 1. | Exhibition and Recipes contest | Millets Recipes contest | 21.07.23 | 4 | 0 | 0 | 0 | | | | | | | | | |
| 04.08.23 | | | | | | | | | | | | | | | | |
| 18.08.23 | | | 5 | | 100 | 105 | 1 | 3 | 4 | 6 | 103 | 109 | | | | |
| 03.10.23 | | | | | | | | | | | | | | | | |
| 4 days | | | | | | | | | | | | | | | | |
| 2. | Special Programme | SwachhtaAbiyan (Special Campaign 2.0) | 16-31.10.2023 | 10 | 0 | 0 | 0 | 105 | 150 | 255 | 0 | 0 | 0 | 105 | 150 | 255 |

| | | | | | | | | | | | | | | | | |
|-----|-------------------|--|-------------------|----|---|---|---|-----|-----|-----|---|---|---|-----|-----|-----|
| 3. | Special Programme | International Women's Day | 08.03.2024 | 1 | 0 | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 0 | 0 | 30 | 30 |
| 4. | Special Programme | Mahila Kisan Diwas | 15.10.2023 | 1 | 0 | 0 | 0 | 0 | 26 | 26 | 0 | 0 | 0 | 0 | 26 | 26 |
| 5. | Special Programme | Fertilizer application awareness programme | 22/10/2023 | | 0 | 0 | 0 | 30 | 80 | 110 | 0 | 0 | 0 | 30 | 80 | 110 |
| 6. | Special Programme | World Water Day | 22/03/2024 | 1 | 0 | 0 | 0 | 20 | 30 | 50 | 0 | 0 | 0 | 20 | 30 | 50 |
| 7. | Special Programme | World Soil Day | 5/12/2023 | 1 | 0 | 0 | 0 | 02 | 28 | 30 | 0 | 0 | 0 | 02 | 28 | 30 |
| 8. | Special Programme | PM KISAN Flagship Scheme Programme | 28/02/2024 | 1 | 0 | 0 | 0 | | | 51 | 0 | 0 | 0 | | | 51 |
| 9. | Special Programme | ICAR foundation day | 16 to 18 /07/2023 | 1 | 0 | 0 | 0 | 5 | 7 | 12 | 0 | 0 | 0 | 5 | 7 | 12 |
| 10. | Special Programme | Constitution Day at KVK Ri Bhoi | 26/11/2023 | 1 | 0 | 0 | 0 | 7 | 26 | 33 | 0 | 0 | 0 | 7 | 26 | 33 |
| 11. | Special Programme | National campaign on poshanabhiyan, nutri-garden & tree plantation | 17/09/2023 | 1 | 0 | 0 | 0 | 14 | 41 | 55 | 0 | 0 | 0 | 14 | 41 | 55 |
| 1. | Special Programme | Swachhta Campaign | 1-31st Dec 2023 | 10 | 0 | 0 | 0 | 130 | 122 | 252 | 0 | 0 | 0 | 130 | 122 | 252 |

| | | (Pakhwara) | | | | | | | | | | | | | | |
|-----|-----------------------------------|-----------------|------------|-----|---|---|---|-----|-----|-----|---|---|---|-----|-----|-----|
| 2. | Special Programme | Swachhata Diwas | 23/12/2023 | 1 | 0 | 0 | 0 | 5 | 15 | 20 | 0 | 0 | 0 | 5 | 15 | 20 |
| 3. | Lectures delivered | | | 7 | 0 | 0 | 0 | 35 | 75 | 110 | 0 | 0 | 0 | 35 | 75 | 110 |
| 4. | Diagnostic visits | - | - | 12 | 0 | 0 | 0 | 20 | 32 | 52 | 0 | 0 | 0 | 20 | 32 | 52 |
| 5. | Advisory services | - | - | 332 | 0 | 0 | 0 | 225 | 40 | 255 | 0 | 0 | 0 | 225 | 40 | 255 |
| 6. | Celebration of important days | - | - | 3 | 0 | 0 | 0 | 15 | 60 | 75 | 0 | 0 | 0 | 15 | 60 | 75 |
| 7. | Field Day | - | - | 4 | 0 | 0 | 0 | 40 | 65 | 105 | 0 | 0 | 0 | 40 | 65 | 105 |
| 8. | Scientist visits to farmers field | - | - | 46 | 0 | 0 | 0 | 32 | 64 | 96 | 0 | 0 | 0 | 32 | 64 | 96 |
| 9. | Farmers visit to KVK | - | - | 18 | 0 | 0 | 0 | 155 | 240 | 395 | 0 | 0 | 0 | 155 | 240 | 395 |
| 10. | Group discussion | - | - | 10 | 0 | 0 | 0 | 35 | 60 | 95 | 0 | 0 | 0 | 35 | 60 | 95 |
| 11. | Awareness Camp /programme | - | - | 6 | 0 | 0 | 0 | 115 | 228 | 343 | 0 | 0 | 0 | 115 | 228 | 343 |
| 12. | Kisan Gosthi | - | - | 1 | 0 | 0 | 0 | 55 | 5 | 60 | 0 | 0 | 0 | 55 | 5 | 60 |
| 13. | Method Demonstrations | - | - | 7 | 0 | 0 | 0 | 45 | 80 | 125 | 0 | 0 | 0 | 45 | 80 | 125 |
| 14. | Film show | - | - | 4 | 0 | 0 | 0 | 90 | 110 | 200 | 0 | 0 | 0 | 90 | 110 | 200 |
| 15. | Ex-trainee sammelan | - | - | 2 | 0 | 0 | 0 | 20 | 60 | 80 | 0 | 0 | 0 | 20 | 60 | 80 |
| 16. | Farmers' scientist interaction | - | - | 3 | 0 | 0 | 0 | 10 | 70 | 80 | 0 | 0 | 0 | 10 | 70 | 80 |

| | | | | | | | | | | | | | | | | |
|-----|-----------------------|---|---|-----|---|---|---|------|------|------|---|---|---|------|------|------|
| 17. | KMAS | - | - | 100 | 0 | 0 | 0 | 250 | 350 | 600 | 0 | 0 | 0 | 250 | 350 | 600 |
| 18. | Research publication | - | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 19. | Newspaper Publication | - | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20. | Technical Bulliten | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 21. | Kisan Sarathi | - | - | 5 | 0 | 0 | 0 | 230 | 330 | 560 | 0 | 0 | 0 | 230 | 330 | 560 |
| 22. | Total | | | | 0 | 0 | 0 | 1902 | 2761 | 4663 | 0 | 0 | 0 | 1902 | 2761 | 4663 |

3.5 Production and supply of Technological products during 2023

A. SEED MATERIALS

| Major group/class | Crop wise | Variety | Quantity (qt) | Value (Rs.) | Number of recipient/ beneficiaries | | | | |
|-------------------|-----------|---------------------------------|---------------|-------------|------------------------------------|---|-------|----|-------------|
| | | | | | General | | SC/ST | | Grand Total |
| | | | | | M | F | M | F | |
| SPICE CROPS | Turmeric | MT-1 | 07.0 | 22000.00 | 0 | 0 | 5 | 5 | 10 |
| | Ginger | Nadia | 07.0 | 22000.00 | 0 | 0 | 5 | 5 | 10 |
| CEREAL | Maize | RCM-76 | 0.23 | 15000.00 | | | 10 | 10 | 20 |
| | OATS | Kent | 0.17 | 1700.00 | | | 5 | 5 | 10 |
| | Millets | VI-376 VI-380 L-Madua-352 | 0.54 | 1000.00 | | | 5 | 5 | 10 |
| OILSEEDS | GROUNDNUT | ICGS-76 | 4.0 | 4000.00 | | | 10 | 10 | 20 |
| PULSES | RAJMAH | LOCAL | 2.0 | 8000.00 | | | 10 | 10 | 20 |
| | | | 22.0 | 138700.00 | | | 50 | 50 | 100 |

A1. SUMMARY of Production and supply of Seed Materials during 2023

| Sl. No. | Major group/class | Quantity (q) produced | Quantity (q) supplied | Value (Rs.) of quantity produced | Number of recipient/ beneficiaries | | | | |
|---------|--------------------------|-----------------------|-----------------------|----------------------------------|------------------------------------|--|-------|-----|-------------|
| | | | | | General | | SC/ST | | Grand Total |
| 1. | CEREAL | 1.77 | 1.77 | 17700.00 | | | - | 60 | 60 |
| 2. | OILSEEDS | 4.0 | 4.0 | 4000.00 | | | | 30 | 30 |
| 3. | PULSES | 2.0 | 2.0 | 8000.00 | | | | 10 | 10 |
| 4. | VEGETABLES | 50000 nos. | 50000 Nos. | 50000.00 | | | | 30 | 30 |
| 5. | SPICE CROPS | 14.0 | 14.0 | 44000.00 | | | | 10 | 10 |
| 6. | FLOWER (Gerbera RCGH-22) | 1500Nos. | 1500 Nos. | 15000.00 | | | | 10 | 10 |
| TOTAL | | 22.0/65000 Nos. | 22.0/65000 Nos. | 138700.00 | | | | 150 | 150 |

B. Production and supply of Planting Materials (Nos. in No.) during 2023

| Major group/class | Crop | Variety | Quantity (In No.) produced | Quantity (In No.) supplied | Value (Rs.) of quantity produced | Number of recipient/ beneficiaries | | | | |
|-------------------|-------------|-----------------|----------------------------|----------------------------|----------------------------------|------------------------------------|---|-------|----|-------------|
| | | | | | | General | | SC/ST | | Grand Total |
| | | | | | | M | F | M | F | |
| VEGETABLES | Cabbage, | WONDER BALL | 20000 Nos. | 20000 Nos. | 20000.00 | 0 | 0 | 0 | 20 | 20 |
| | Cauliflower | PUSA SNOW WHITE | 20000 Nos. | 20000 Nos. | 20000.00 | 0 | 0 | 0 | 20 | 20 |
| | Broccoli | Green Magic | 10000 Nos. | 10000 Nos. | 10000.00 | 0 | 0 | 0 | 10 | 10 |

| | | | | | | | | | | |
|--------|---------|-------------------|----------|-----------|----------|---|---|---|----|----|
| FLOWER | Gerbera | (Gerbera RCGH-22) | 1500Nos. | 1500 Nos. | 15000.00 | 0 | 0 | 0 | 10 | 10 |
|--------|---------|-------------------|----------|-----------|----------|---|---|---|----|----|

C. Production of Bio-Products during 2023

| Major group/class | Product Name | Species | produced Quantity | | Value (Rs.) | Number of Recipient /beneficiaries | | | | |
|-------------------|--------------|---------|-------------------|------|-------------|------------------------------------|---|-------|---|-------------|
| | | | No | (Kg) | | General | | SC/ST | | Grand Total |
| | | | | | | M | F | M | F | |
| BIOAGENTS | | | | | | | | | | |
| | | | | | | | | | | |
| BIOFERTILIZERS | | | | | | | | | | |
| 1 | | | | | | | | | | |
| BIO PESTICIDES | | | | | | | | | | |
| 1 | | | | | | | | | | |

D. Production of livestock during 2023

| Sl. No. | Type/ category of livestock | Breed | Quantity | | Value (Rs.) | Number of Recipient beneficiaries | | | | |
|---------|-----------------------------|-------|----------|-----|-------------|-----------------------------------|---|-------|---|-------|
| | | | (Nos) | Kgs | | General | | SC/ST | | Total |
| | | | | | | M | F | M | F | |
| | | | | | | | | | | |
| | | | | | | | | | | |

3.6. Literature Developed/Published (with full title, author & reference) during 2023

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): _____)

(B) Articles/ Literature developed/published

| Item | Title /and Name of Journal | Authors name | Number of copies | |
|-----------------|--|----------------------------|---|------------------------|
| | | | Produced/ published | Supplied / distributed |
| Popular article | Construction of Jalkund for hill agriculture | Meghna Sarma&Mokidul Islam | Submitted to Intensive Agriculture(Accepted,2023) | |

| | | | | |
|-----------------|---|--|--|-----|
| | Effect of climate change on weed flora shift | Meghna Sarma&Mokidul Islam | Biotica Research Today, Jan,2024,6(1):36-38. | |
| | Popular article on Plant response to temperature in various crop growth stages | Meghna Sarma&Mokidul Islam | The Agriculture, Vol-2, Sept, 2023, pp-97-101 | |
| | Vermicomposting for sustainable agriculture | Meghna Sarma&Mokidul Islam | The Agriculture, Vol-3, Dec, 2023, pp-421-424 | |
| Reports | Annual Action plan 2023 of KVK, Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | Annual report 2023-24 of NICRA KVK, Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | Annual Action plan 2023-24 of NICRA KVK, Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | Monthly progress report of KVK Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | Monthly progress report of NICRA KVK Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | Quarterly progress report of KVK Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | Quarterly Monitorable target report of KVK Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | Half yearly report KVK Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | TSP /STC Annual Report of KVK Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | Natural Farming Annual Report of KVK Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| | SAP Annual Report of KVK Ri-Bhoi by Senior Scientist & Head, Staff of KVK | | | |
| Popular article | Area and distribution of problematic soils in India | Meghna Sarma&Mokidul Islam | The Agriculture, Vol-3, Jan, 2023, pp-139-141 | |
| Popular article | Types of Maize and its production technology” | Meghna Sarma&Mokidul Islam | The Agriculture , Vol-2, January, 2023, pp-6-9. | |
| Research paper | Impact assessment of FLD for popularization of finger millet in Ri-Bhoi district of Meghalaya | Meghna Sarma&Mokidul Islam | Journal of Agrisearch, 10(3):213-216. Sept, 2023 | |
| Research paper | Quality Protein Maize (QPM): Impact Assessment in Ri-Bhoi district of Meghalaya | Meghna Sarma&Mokidul Islam | Journal of community mobilization and sustainable development (Accepted Dec, 2023) | |
| Leaflet | Natural farming (Local language) | Meghna Sarma&Mokidul Islam | | 150 |
| Journals | Aqua-rice- Integrated Farming System- A Sustainable Farming for Enhancing farmers Income | Bankitkumar Mukhim, M Islam, Moloy Sarma Barua & Elgiva Wansh ong | | 300 |
| Journals | Fish health management in hill aquaculture: Best practices and strategies | Chandan Debnath, Bankitkumar Mukhim, Tasso Tayung, Sanjay Kumar Das, | | 150 |

| | | | | |
|---------|---|---|--|--|
| | | Sandeep Ghatak | | |
| Leaflet | Soil Health Card (SHC): A boon for Enhancing Soil Productivity: | P. Bordoloi, M.M. Islam, M. Sarmah Baruah, E. Wanshnong (2023) Published by ICAR-KVK Ri-Bhoi, ICAR (RC) for NEH Region, Umiam, Meghalaya. | | |

N.B. Please enclose a copy of each. In case of literature prepared in local language, please indicate the title in English

(C) Details of Electronic Media Produced

| S. No. | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number produced |
|--------|---|---|-----------------|
| 1. | Documentary Video Film | IFS development | 5 |
| | Documentary Video Film | Aqua rice integrated farming system- A sustainable farming for enhancing farmers income | 5 |

24.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

| S. No. | Crop / Enterprise | ITK Practiced | Purpose of ITK |
|--------|-------------------|---------------|----------------|
| | | | |

3.10 Indicate the specific training need analysis tools/methodology followed for

3.11 Field activities

- i. Number of villages adopted: 25
- ii. No. of farm families selected: 52
- iii. No. of survey/PRA conducted: Nil

3.12. Activities of Soil and Water Testing

- Status of establishment of Lab :
1. Year of establishment :2016
2. List of equipments purchased with amount :

| Sl. No | Name of the Equipment | | | Qty. | Cost |
|--------|-----------------------|--------------------------|--------------|------|------|
| | S&WT lab | Mini lab/ Mridaparikshak | Manufacturer | | |
| 1 | | 2 | | | |
| Total | | | | | |

3. Details of samples analyzed (2023) :

| Details | No. of Samples analysed | No. of Farmers | No. of Villages | Amount (In Rupees) realized |
|-----------------|-------------------------|----------------|-----------------|------------------------------|
| Soil Samples | | | | |
| Water Samples | | | | |
| Plant Samples | | | | |
| Petiole Samples | | | | |
| Total | | | | |

1. Details of Soil Health Cards (SHCs) (2023)

- No. of SHCs prepared:
- No. of farmers to whom SHCs were distributed:
- Name of the Major and Minor nutrients analysed:
- No. of villages covered:

3.13. Details of SMS/ Voice Calls sent on various priority areas

| Message type | Crop | | Livestock | | Weather | | Marketing | | Awareness | | Other Ent. | | Total | |
|--------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|
| | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary | No. of Message | No. of Beneficiary |
| Text only | 407 | 406 | 153 | 200 | 0 | 0 | 0 | 0 | 25 | 25 | 65 | 65 | 650 | 696 |

| | | | | | | | | | | | | | | |
|---------------------|-----|-----|-----|-----|---|---|---|---|----|----|----|----|-----|-----|
| Voice only | | | | | | | | | | | | | | |
| Voice and Text both | | | | | | | | | | | | | | |
| Total | 407 | 406 | 153 | 200 | 0 | 0 | 0 | 0 | 25 | 25 | 65 | 65 | 650 | 696 |

3.14 Contingency planning for 2023

a. Crop based Contingency planning

| Contingency (Drought/ Flood/ Cyclone/ Any other please specify) | Proposed Measure | Proposed Area (In ha.) to be covered | Number of beneficiaries proposed to be covered | | |
|---|------------------|--------------------------------------|--|-------|-------|
| | | | General | SC/ST | Total |
| | | | | | |
| | | | | | |
| | | | | | |

a. Livestock based Contingency planning

| Contingency (Drought/ Flood/ Cyclone/ Any other please specify) | Number of birds/ animals to be distributed | No. of programmes to be undertaken | No. of camps to be organized | Proposed number of animals/ birds to be covered through camps | Number of beneficiaries proposed to be covered | | |
|---|--|------------------------------------|------------------------------|---|--|-------|-------|
| | | | | | General | SC/ST | Total |
| | | | | | | | |
| | | | | | | | |

4.0. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period only)

| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) | |
|---|---------------------|---------------|------------------------|------------------|
| | | | Before (Rs./Unit) | After (Rs./Unit) |
| | | | | |

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

4.3 Details of impact analysis of KVK activities carried out during the reporting period

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations established during 2021

| Name of organization | Nature of linkage |
|---|---|
| Meghalaya State Fisheries Research and Training Institute, Mawpun , | Subject Matter Expert |
| 1. ATMA, Ri Bhoi District Nongpoh | Training & farmers Scientist Interactions, short term research .For undertaking demonstration on Lakadong turmeric in Jirang block of the district. KVK Ri Bhoi and ATMA Ri Bhoi district, Nongpoh organized a district level kisan mela on the theme, “Creating awrenss among farmers about the latest technologies for increasing their farm income”. |
| 2. FXB India Suraksha (NGO), Mawroh, Nongpoh | For undertaking demonstration and training programmes. |
| 3. IARI, Pusa, New Delhi | For dissemination of their technologies suitable for NEH Region. Received various vegetable seed materials for distribution and popularization among farmers. |
| 4. VPKAS, Almora | For dissemination of their technologies suitable for NEH Region. Received various vegetable seed materials for distribution and popularization among farmers. |
| 5. IIHR, Hessargahta | Training, inputs & demonstration .For dissemination of their technologies suitable for NEH Region. Received various vegetable seed materials for distribution and popularization among farmers. Training for KVKs staff and progressive farmers Technologies of ICAR – IIHR suitable for NEH Region. |
| 6. Horticulture and Soil Science unit of Division of System Research and Engineering (DSRE), ICAR NEH, Umiam, Meghalaya | For farmers programme at institute level. |
| 7. DDM NABARD, Nongpoh Ri Bhoi district | For initiation of process to form FPOs’. |
| 8. ICAR – Indian Institute of Agricultural Biotechnology, Ranchi, Jharkhand | For establishing 5 numbers of naturally ventilated polyhouses in the farmers field. |
| 9. NCDC, Regional Office, Guwahati | For establishing FPO’s in Ri Bhoi district. |
| 10. ASCI New Delhi | KVK Ri Bhoi as training partner for conducting skill development training programme under ASCI QP Mushroom Grower, Floriculturist protected cultivation & Aquaculture Worker |
| 11. CIH, Medziphema Nagaland | Training & inputs. Conducting 3 days training on Doubling farmers income through holistic approach in cultivation of horticultural crops |
| 12. NBPGR RS, Umiam | Training, Melas. Biodiversity Fair Cum Plant Genetic Resources Awareness Camp |
| 13. IARI, New Delhi | Inputs. Popularization of IARI varieties in North East Programme |

| | |
|--|---|
| 14. Directorate of Coldwater Fisheries Research (DCFR), Bhimtal, Uttarakhand | Training & inputs. Training programme of Fish Farming |
| 15. MANAGE Skill Training For Rural Youth | Training& inputs .Training for Rural youth on Production of Biopesticides; on Post harvest activities of fish handling and processing of fishes and Fish rearing and management |
| 16. DAO/DHO | Meeting/training /demonstrations, field visit, joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration |
| TSP ICAR NEH Region | Meeting/training /demonstrations, field visit, joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration |

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2023

| Name of the scheme/ special programme | Activity | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|--|---|-------------------------------|----------------------|--------------|
| CBBO/FPO | Trainings and other activities related to Promotion of FPO by KVK Ri Bhoi | 2023-24 | NCDC | 1,00,000 |
| Swachhta Abhiyan (Special Campaign 2.0) | Swachhta Abhiyan (Special Campaign 2.0) | 16-31.10.2023 January 2024 | Swachhta Action Plan | 48,810.00 |
| International Women's Day | International Women's Day | 08.03.2024 | | |
| Mahila Kisan Diwas | Mahila Kisan Diwas | 15.10.2023 | | |
| Fertilizer application awareness programme | Fertilizer application awareness programme | 22/10/2023 | | |
| World Water Day | World Water Day | 22/03/2024 | | |
| ICAR foundation day | ICAR foundation day | 16/07/2023 | | |
| Constitution Day at KVK Ri Bhoi | Constitution Day at KVK Ri Bhoi | 26/11/2023 | | |
| National campaign on poshanabhiyan, nutri-garden & tree plantation | National campaign on poshanabhiyan, nutri-garden & tree plantation | 17/09/2023 | | |
| World Environment day Celebration | Environment day celebration and tree plantation campaign | 05/06/2023 | | |

| | | | | |
|--|--|-----------------|------------------|----------------|
| Swachhta Campaign (Pakhwara) | Swachhta Campaign (Pakhwara) | 1-31st Dec 2023 | | |
| SwachhtaDiwas | Kisan Samman Sammelan | 23/12/2023 | | |
| Training in collaboration with ATARI & IIPR | Training cum demonstration in collaboration with IIPR | 2023-24 | ATARI –IIPR | 61,000.00 |
| NARI | Training cum demonstration under NARI | 2023-24 | NARI | 80,000.00 |
| KSHAMTA | Training cum demonstration under KSHAMTA | 2023-24 | KSHAMTA | 80,000.00 |
| Natural Farming | Training cum Demonstration under Natural Farming | 2023-24 | Natural Farming | 1,30,000.00 |
| CIFE Mumbai | Training cum demonstration under CIFE Mumbai | 2023-24 | CIFE-Mumbai | 2,82,625.00 |
| CBBO/FPO | | | | |
| Strategic Strengthening of meat value chain of Meghalaya for self-reliance to ensure food safety and livelihood improvement of tribal beneficiaries of Ri-Bhoi, West Khasi Hills, West Garo Hills. S.O.RC/TSP/1/HQ/2020-21/02 dt.17.03.21 | Training, demonstrations, awareness programme and other farmers related activities | 2021-24 | TSP-Butcher Kits | Rs.13.025lakhs |

| | | | | |
|---|--|-----------|-------------------|-------------|
| Strategically Improving Animal Health through Clinical Support emphasizing recent Animal Health Technological Interventions for tribal farmers of Meghalaya. S.o. RC/BP/AH/TSP/ 2020 /421 dt.31.03.2021 | Training, demonstrations, awareness programme and other farmers related activities | 2022-24 | TSP-Animal health | 11.10 lakhs |
| Outscaling of Natural Farming through KVKs | Training, demonstrations, awareness programme and other farmers related activities | 2022-23 | Natural farming | Rs.2,62,944 |
| World Soil Day | World Soil Day | 5/12/2023 | Natural farming | |

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district yes

| Sl. No. | Programme | Nature of linkage | Remarks |
|---------|-----------|---|--|
| 1 | Training | Training & farmers Scientist Interactions, short term research .For undertaking demonstration on Lakadong turmeric in Jirang block of the district. KVK Ri Bhoi and ATMA Ri Bhoi district, Nongpoh organized a district level kisan mela on the theme, “Creating awrenss among farmers about the latest technologies for increasing their farm income”. | Trainings demonstration and millet recipe was conducted in collaboration with ATMA nongpoh |

5.4 Give details of programmes implemented under National Horticultural Mission

| S. No. | Programme | Nature of linkage | Constraints if any |
|--------|-----------|-------------------|--------------------|
| | | | |

5.5 Nature of linkage with National Fisheries Development Board

| S. No. | Programme | Nature of linkage | Remarks |
|--------|-----------|-------------------|---------|
| | | | |

5.6 MGMT of KVKs during 2023

| No of Villages | Participants | | No of Visit made | Participants | | No of demonstration | Participants | | No of Farmers meeting | Participants | |
|----------------|--------------|--------|------------------|--------------|--------|---------------------|--------------|--------|-----------------------|--------------|--------|
| | SC/ST | Others | | SC/ST | Others | | SC/ST | Others | | SC/ST | Others |
| | | | | | | | | | | | |

5.7 Natural Farming during 2023

| No. of demonstrations conducted | Participants | | No. Trainings | Participants | | No. of Awareness Programs | Participants | |
|---------------------------------|----------------|--------|---------------|------------------|--------|---------------------------|-------------------|--------|
| | SC/ST | Others | | SC/ST | Others | | SC/ST | Others |
| 2(2.0 ha) | 12(M)+28(F)=40 | | 6 | 56(M)+140(F)=196 | | 5 | 115(M)+203(F)=318 | |
| | | | | | | | | |

5.8 Achievements under DAMU KVKs during 2023 (only selected KVKs)

| No of KVKs | Beneficiaries | Advisories given (no) | Training organised (no) | Dissemination of Advisories |
|------------|---------------|-----------------------|-------------------------|-----------------------------|
| | | | | |

5.9 Format for Current Progress of Cluster Demonstrations on Organic Farming under PKVY during 2023 (only selected KVKs)

| No. of clusters formed | No. of Farmers registered | Area covered (Ha) | No. of LRP identified | Number of clusters linked to certification agency | No. of clusters in which organic production started | Name of crops which are produced organically in clusters |
|------------------------|---------------------------|-------------------|-----------------------|---|---|--|
| | | | | | | |

| Number of clusters linked to markets | Mobilization/ awareness camps organized | | Farmers meetings organized | | Training programmes organized | | Exposure visits organized | |
|--------------------------------------|---|----------------|----------------------------|----------------|-------------------------------|----------------|---------------------------|----------------|
| | No. of activities | No. of farmers | No. of activities | No. of farmers | No. of activities | No. of farmers | No. of activities | No. of farmers |
| | | | | | | | | |

6.0 Report on Agri Drone project (only selected KVKs)

| S.N o. | Name on the Project Impleme nting Centre (PIC) | No. of Kisan Drones Sanctio ned | Target Area for Kisan Drone Demonstr ation (Ha) | No. of Kisan Drone s Purch ased by the PIC | Make and Model of Purch ased Kisan Drone | Purch ased cost of each drone (Rs.) | No. of Kisan Demonstr ation organized | Date and Place of Kisan Drone Demonstr ation | Operation carried out (Pesticide/N utrient application) | Area Covered under the Kisan Drone Demonstr ation | Numbe r of farmers particip ated | Advantag es of using Kisan Drones as observed during the demonstr ations | Problems any encounte red in Drone Purchase and their Demonstr ation | Additi onal Remar ks if any |
|-----------|--|---|---|---|---|--|---|---|---|---|--|--|--|---|
| | | | | | | | | | | | | | | |

6.1 Status of NARI during 2023

| Name of Nutri- SMART Village | T 1 | T 2 | T 3 | Are a (ha) | No of Beneficiari es | Name of crop | T1 | | | T2 | | | T3 | | |
|---------------------------------------|--------|--------|--------|------------------|----------------------------|--|---------------------------|---------------------|----------------------|---------------------------|---------------------|----------------------|---------------------------|---------------------|----------------------|
| | | | | | | | Name of variet y | Yield (q/ha) | Consumptio n (kg) | Name of variet y | Yield (q/ha) | Consumptio n (kg) | Name of variet y | Yield (q/ha) | Consumptio n (kg) |
| Umsaitprah | - | - | - | 0.05 | 10 | Green leafy vegetables Tomato Cucumber chilies | Local | 30kgs | 20 | | | | | | |
| | | | | | | | Hybrid | 55kgs | 35 | | | | | | |
| | | | | | | | Hybrid | 68kgs | 45 | | | | | | |
| | | | | | | | Hybrid | 65 | 35 | | | | | | |
| Khwenng | | | | 0.05 | 20 | Green leafy vegetables Tomato Cucumber chilies | Local | 78kgs | 45 | | | | | | |
| | | | | | | | Hybrid | 40kgs | 35 | | | | | | |
| | | | | | | | Hybrid | 67kgs | 43 | | | | | | |
| | | | | | | | Hybrid | 80 | 39 | | | | | | |

7. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2023

7.1 Performance of demonstration units (other than instructional farm)

| Sl. No. | Demo Unit (Name and No.) | Year of estd. | Area | Details of production | | | Amount (Rs.) | | Remarks |
|---------|--|---------------|---------------------------|--|----------------------|--------------|----------------|----------------------|-----------------------------------|
| | | | | Variety/ species/ breed | Type of Produce | Qty. | Cost of inputs | Gross income | |
| 1 | Nutritional garden under NARI | 2019 | 300m ² | Vegetable production | Vegetable production | 500 kg | | Rs 6000.00 per annum | Sold as per ICAR recommended rate |
| 2 | Naturally ventilated polyhouse | 2020 | 12x8 m, 96 m ² | Broccoli Cabbage Cauliflower Chilli | Vegetable seedlings | 25000 | | 7800.00 | Distributed to farmers |
| | Hydroponic | 2021 | 48 m | Lettuce | Vegetable production | 80 kg/year | | Rs 3200.00 per annum | Sold as per ICAR rate |
| | Floriculture production under low cost Protected cultivation | | 100 m ² | Gerbera | Flower seedlings | 15500 | | - | Distributed to farmers |
| | Mushroom unit | 2018 | 20x8m | Florida | Fresh mushroom | 82kg/unit | 12000 | 14400 | |
| | Vermicompost unit | 2018 | 5x2.5x1 | | 5000 kg | 5000 kg/unit | 28900 | 42600 | |

7.2 Performance of instructional farm (Crops) including seed production during 2023

| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---------------------|-------------------|--------------------|-----------|-----------------------|--------------------|------|-------------------|-----------------|---------|
| | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |

| | | | | | | | | | |
|----------|----------|------------|--------------------|-------------------------------|--------------------------|-------------|--|----------|---|
| Turmeric | April | December | 250 m ² | Megha – Turmeric-1 & Lakadong | Powdered & seed material | 2.0 Quintal | | 12000.00 | Distributed to farmers and utilization in farm and Demonstration purposes in farm |
| Ginger | April | December | 250 m ² | Nadia | Seed material | 9.0 Quintal | | 54000.00 | Distributed to farmers and utilization in farm and Demonstration purposes in farm |
| Legumes | November | February | 250 m ² | Pea | Vegetable | 80 kg | | 2400.00 | Sold as per ICAR rate |
| Cereal | April | June -July | 250 m ² | Maize | Seeds | 3.0 Quintal | | 18000.00 | Distributed to farmers and utilization in farm and Demonstration purposes in farm |
| Oilseeds | Oct-Nov | February | 250 m ² | Toria | Seeds | 5 kg | | - | Distributed to farmers and utilization in farm and Demonstration purposes in farm |

| | | | | | | | | | |
|---------|--|--|--------|--|--|--|--|--|---|
| Jalkund | | | 3x2x1m | | | | | | utilization in farm for live saving and micro irrigation and Demonstration purposes in farm |
|---------|--|--|--------|--|--|--|--|--|---|

7.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2023

| Sl. No. | Name of the Product | Qty | Amount (Rs.) | | Remarks |
|---------|---------------------|-------|----------------|--------------|---|
| | | | Cost of inputs | Gross income | |
| 1. | Vermi compost unit | 9.0 q | | | Distributed to farmers and utilization in farm and Demonstration purposes in farm |

7.4 Performance of instructional farm (livestock and fisheries production) during 2023

| Sl. No | Name of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
|--------|--------------------------------------|-----------------------|-----------------|------|----------------|--------------|---------|
| | | Breed/ species | Type of Produce | Qty. | Cost of inputs | Gross income | |
| | | | | | | | |
| | | | | | | | |

7.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure during 2023

| Date | Title of the training course | Client (PF/RV/EF) | No. of Courses | No. of Participants including SC/ST | | |
|------|------------------------------|-------------------|----------------|-------------------------------------|--------|-------|
| | | | | Male | Female | Total |
| | | | | | | |

7.6. Utilization of hostel facilities (Month-Wise) during 2023

Accommodation available (No. of beds):

| Months | Title of the training course/Purpose of stay | Duration of Training | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|--------------|--|----------------------|------------------------|----------------------------|--------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| Total | | | | | |

Note: (Duration of the training course X No. of trainees)=Trainee days

8. FINANCIAL PERFORMANCE

8.1 Details of KVK Bank accounts

| Bank account | Name of the bank | Location/ Branch | Account Number |
|----------------------------|---------------------|-----------------------------------|--------------------|
| With Host Institute | NA | NA | NA |
| With KVK | State Bank of India | ICAR Complex Branch, Umiam-793103 | 32427092435 |
| Natural Farming KVK-RiBhoi | | ICAR Complex Branch, Umiam-793103 | 42368437133 |
| Revolving Fund | State Bank of India | ICAR Complex Branch, Umiam-793103 | 10228761292 |

8.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2023

| Item | Released by ICAR/ATARI (in lakh) | | Expenditure (in lakh) | | Unspent balance as on 31 st March, 2018 |
|--------------|----------------------------------|--------|-----------------------|--------|--|
| | Amount | Amount | Amount | Amount | |
| | | | | | |
| | | | | | |
| TOTAL | | | | | |

8.3 Utilization of KVK funds during the year 2023

| S. No. | Particulars | Sanctioned (in Lakh) | Released (in Lakh) | Expenditure (in Lakh) |
|---------------------------------------|--|----------------------|--------------------|-----------------------|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 255.82112 | 255.82112 | 255.82112 |
| 2 | Traveling allowances | 2.90 | 2.90 | 2.90 |
| 3 | Contingencies | 32.10 | 32.10 | 32.10 |
| <i>A</i> | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | | | |
| <i>B</i> | POL, repair of vehicles, tractor and equipments | | | |
| | Working Capital | | | |
| <i>C</i> | Meals/refreshment for trainees | | | |
| <i>D</i> | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | | | |
| <i>E</i> | Frontline demonstration except oilseeds and pulses | | | |
| <i>F</i> | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | | | |
| <i>G</i> | Training of extension functionaries | | | |
| <i>H</i> | Maintenance of buildings | | | |
| <i>I</i> | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| <i>J</i> | Library | | | |
| <i>K</i> | KSHAMTA | 0.80 | 0.80 | 0.80 |
| <i>L</i> | NARI | 0.80 | 0.80 | 0.80 |
| <i>M</i> | HRD | 0.50 | 0.50 | 0.50 |
| TOTAL (A) | | 292.92112 | 292.92112 | 292.92112 |
| B. Non-Recurring Contingencies | | | | |
| 1 | Works | 101.46 | 101.46 | 101.46 |
| 2 | Equipments including SWTL & Furniture | | | |
| 3 | Vehicle (Four wheeler, please specify) | | | |

| | | | | |
|----------------------------|--|------------------|------------------|------------------|
| 4 | Library (Purchase of assets like books & journals) | | | |
| TOTAL (B) | | 101.46 | 101.46 | 101.46 |
| C. REVOLVING FUND | | | | |
| GRAND TOTAL (A+B+C) | | 394.38112 | 394.38112 | 394.38112 |

8.4 Status of Revolving Fund (Rs. in lakhs) for last three years

| Year | Opening balance as on 1 st April | Income during the year | Expenditure during the year | Net balance with KVK (in lakh) |
|--------------------------|---|------------------------|-----------------------------|--------------------------------|
| January to December 2023 | 356545 | 32441 | 10499 | 378487 |

Note: No KVK must leave this table blank

8.5 Please include information which has not been reflected above. (Write in detail)

8.6 Constraints and Suggestion (Provide point-wise if any, for recommendation)

- (a) Administrative: Lack of administrative staff strength for smooth functioning of activities
- (b) Financial: Less amount and Untimely release of fund for various activities
- (c) Technical: Lack of trained competent personnel

(Signature)
Sr. Scientist cum Head