

ANNUAL ZONAL WORKSHOP - 2022

KRISHI VIGYAN KENDRAS OF
A&N ISLANDS, ODISHA & WEST BENGAL

MAY 27-29, 2022

ORGANIZED BY: WBUAFS - JALPAIGURI KRISHI VIGYAN KENDRA

VENUE: DREAMLAND RESORT, LATAGURI

ICAR - AGRICULTURAL TECHNOLOGY APPLICATION RESEARCH INSTITUTE KOLKATA



ANNUAL ZONAL WORKSHOP 2022 of KVKs of ZONE V

WBUAFS KVK JALPAIGURI
DREAMLAND RESORT, LATAGURI
27-29 MAY, 2022



ICAR- ATARI KOLKATA

PROCEEDING

Inauguration

(May 27, 2022)

Chief Guest:	Shri Biplab Mitra, Hon'ble Minister of Agriculture Marketing, Govt of W.B
Guests of Honour:	Dr. Jayanta Roy, Hon'ble MP, Jalpaiguri Dr. A. K. Singh, Hon'ble DDG (Agriculture Extension), ICAR, New Delhi Swami Atmapriyananda Maharaj, Pro Chancellor, RKMVERI, Belur Math
Chairman:	Prof. C. Guha, VC, WBUAFS, Kolkata
Other dignitaries:	Dr. S. K. Roy, Director, ICAR-ATARI, Prof. T. K. Mandal, DREF, WBUAFS Prof. Partha Das, Registrar, WBUAFS, Dr. F. H. Rahman, PS, ICAR-ATARI, Dr. P. P. Pal, PS, ICAR-ATARI Zone V, Kolkata
Rapporteurs:	Dr N. C. Sahu, Head, Sasya Shyamala KVK, RKMVERI Dr A. Das, Head, KVK, Bhadrak Dr S. Sahu, Head, KVK, Balasore

At the outset, Prof Partha Das, Registrar, WBUAFS welcomed the hon'ble Guests, esteemed dignitaries and all the participants of Annual Zonal Workshop.

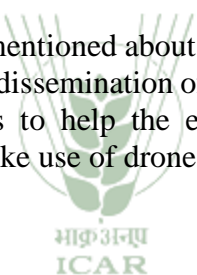
The Chief Guest, Shri Biplab Mitra, Hon'ble Minister complimented the KVKs for their contribution in the development of farm sector through transfer of technology and services rendered to farming community. He stated that, West Bengal is rich in natural resources and agriculture of the state is so diversified. He highlighted the initiatives of Govt of W.B in creating marketing avenues and strengthening infrastructure facilities for realization of good prices of farmers' produces. He elaborated about different schemes of Govt of WB for agriculture marketing. Suphal Bangla Project is one of such initiative in which a number of FPOs are involved in marketing of their produces eliminating middle men in value chain. He also informed about various other projects like Organic haat, Training Institute on Agriculture marketing, Green chilli market, e-NAM, online transaction facilities etc as implemented by Govt for strengthening market support to farming community. Hon'ble Minister, emphasized on the need for enhancing onion production in the state for which his Govt has taken steps to minimize price fluctuation and scarcity of onion.

Further, to promote export oriented production environment, Govt of W.B has formulated Agriculture Export Policy for facilitating export of fresh and processed produces including animal based products. He hoped for appropriate recommendations coming out of this Zonal Workshop which will give right direction to the Govt for agricultural development of this zone.

Dr. Jayanta Roy, Hon'ble MP, Jalpaiguri welcomed all the participants and expressed his gratitude for coming to Jalpaiguri. He mentioned that, he often visits the KVK in his constituency i.e Jalpaiguri KVK under WBUAFS for last 2-3 years and get aware about the KVK activities. Before that he had little idea about KVK. He highlighted that, during COVID pandemic country didn't face food crisis due to the continuous efforts of KVKs, farmers and scientists for which he expressed his happiness. He emphasized on promoting natural farming on the back drop of decreasing soil fertility and productivity due to use of chemical inputs in farming. Farmers are really not aware of natural farming for which he urged all participants to make the farmers aware about this technology. He emphasized on popularizing value addition technology for enhancing farmers' income.

Addressing the Zonal Workshop virtually, **Dr A. K. Singh**, Hon'ble DDG, AE, ICAR complimented the KVKs of this zone who are doing commendable works and transferring many of the ICAR developed technologies to farmers' field. He mentioned that, KVK has become very important organ in ICAR system and it is delivering wonderfully throughout the country communicating with the farmers and convincing them in adopting new technologies. The country is able to achieve surplus food grain production in cereals and pulses but yet to achieve self-sufficiency in oilseed production. He emphasized on the need for doing more work in developing mustard based intercropping system to increase the area, production and productivity. He stated that, there has been quantum jump in fish production and we need to focus on development of fishery based IFS models.

Talking about climate smart technologies, he mentioned about excellent works carried out by different KVKs in NICRA project. He urged upon the need for dissemination of successful climate smart technologies to other non-NICRA KVKs. He requested the KVKs to help the existing FPOs with suitable technologies. He emphasised to give more thrust on new areas like use of drone technology in agriculture and natural farming.



Swami Atmapriyananda Ji Maharaj, Pro Chancellor of RKMVERI in his virtual address stressed upon the need of translational research from lab to home over the traditional concept of lab to land. He wished for integration of traditional knowledge with modern technologies for sustainability of agriculture. He emphasized on the concept of 'One Health' with Soil-Plant-Animal-Human continuum (SPAHC) based on principle of *Ekatwa* or oneness. He suggested that KVKs may integrate human health with their existing soil-plant-animal health programmes. ICAR and ICMR may collaboratively think of implementing this one health programme.

Prof. T. K. Mandal, DREF, WBUAFS gave an insight into the activities of KVK and involvement of KVK in implementing various other projects like CFLD, TRFA, GKRA etc. Many national and international organizations are interested to do collaborative works with KVK looking at their achievement and potentialities. He expressed his happiness over the good guidance of ATARI of this zone for which maximum KVKs have been classified in A grade category. Further, highlighting the issues of KVK staff he requested ICAR to take care of job related issues KVK staff.

Dr. S. K. Roy, Director, ATARI, Kolkata presented an overview of the activities and achievements of KVKs of zone V comprising of A&N Islands, Odisha and West Bengal.

- An outlay of budget of total Rs.107 crores for 2021-22 towards implementation of mandated activities of KVKs and other programs
- Out of total of 944 sanctioned strength, 283 are lying vacant in KVKs under various host institutes. He requested those host institutes for recruitment against the vacant posts.
- Present status of infrastructure development in KVKs: 56 KVKs have administrative buildings, 53 KVKs have farmers' hostel, 36 have staff quarter facilities, 41 have SW test lab., 55 have 4 wheelers, 53 have tractors
- Mandated activities: 433 OFTs with 11,450 farmers, FLDs on oilseed 534 ha, pulses in 218ha, Training for 1,12,000 PF, 14,000 RYs, 19,000 EFs, Sponsored training for 12,500 farmers.
- Seed and QPM production: 2 lakh ton seeds, 59 lakhs planting material, 25,000 kg biofertilizer, 5 crore fingerlings etc.
- Soil test and soil health card: 53,000 samples tested
- KVK scientists attended HRD training on drone technology at New Delhi. Subsequently, drone demonstration to be conducted in all KVKs.
- Other important projects implemented at different KVKs under this ATARI: CFLD, Farmers' first, ARYA, NICRA, GKMS, GKRA, CSISA, DAMU, Pulse seed hub, NEMA
- Director raised certain issues which needs attention of concerned host organization and KVKs:
 - Timely submission of AUC
 - Timely release of funds by host institute to KVKs
 - Host institute of ICAR/SAU KVKs to fill the vacant position
 - Funds for works need to be utilized fully

Prof Chanchal Guha, Hon'ble VC, WBUAFS urged upon all KVKs to take special interest in adopting climate resilient technologies in the backdrop of climate change. He opined that, KVKs are mouthpiece of the host organizations and appreciated their role in improvement of livelihood of farming community.

Dr. P. P. Pal, PS, ATARI, Kolkata proposed vote of thanks to the chair and to all the participants.

Special Session on Administrative and Financial management of KVKs

Chairman: Dr S.K.Roy

Panelist: Dr P.K.Pal, DEE, UBKV
Dr U.Thapa, DEE, BCKV
Dr P.J.Mishra, DEE, OUAT
Dr.N.J.Maitra, DDREF, WBUAFS
Dr P.P.Pal, PS, ICAR ATARI, Kolkata
Dr. F.H.Rahman, PS, ICAR ATARI, Kolkata
Dr K.S.Das, PS, ICAR ATARI, Kolkata
Dr. A.Halder, PS, ICAR ATARI, Kolkata
Sri R.C.Pradhan, Asst Accounts Officer

Rapporteurs: Dr N. C. Sahu, Head, Sasya Shyamala KVK, RKMVERI
Dr Aurovinda Das, Sr Scientist & Head, KVK, Bhadrak
Dr Swagatika Sahu, Sr Scientist & Head, KVK, Balasore

Points came out after the discussing the issues:

- Earmarked funds may be given regularly for maintenance of demonstration units, administrative building, farmers' hostel, soil test labs etc.
- Delegation of financial power of Rs.25,000 and impressed cash of Rs.80,000 to Heads of KVKs
- KVKs requested for revision of refreshment cost of participants for residential and non-residential training/ other extension programs
- Training modules and duration may be fixed as per training need/type like 1,2 or more days
- KVKs of SAUS raised the demand for regularization of KVK staff and extending service benefits like NPS, terminal benefits etc.
- Director, ICAR-ATARI, Kolkata raised certain issues for which he urged the concerned host organization and KVKs to act upon them, those are
 - Timely submission of AUC
 - Timely release of funds by host institute to KVKs
 - Host institute of ICAR/SAU KVKs to fill the vacant positions
 - Funds for works need to be utilized fully

Concurrent Technical Session - I

Chairman: Prof. P. K Pal, DEE, UBKV.

Co-chairman: Dr. P.P. Pal Principal Scientist, ATARI, Kolkata,
Prof. T. S Ghimray, UBKV-RRS and
Dr. N.J. Maitra, DDREF, WBUAFS.

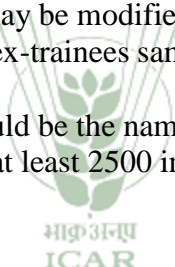
Rapporteurs: Dr. Subrata Mandal, RKVK Birbhum,
Dr. Manas Bhattacharya, KVK Purulia
Dr. S. N. Mishra, KVK Kendrapara.

In this session 12 KVKs from Odisha and 8 KVKs from W.B. presented their Annual Report 2021 and Action Plan 2022. All the presentations were discussed thoroughly and the following general suggestions were made by the house.

1. No. of trainees should be at least 2500 for training if staff strength is sufficient.
2. Few OFTs of few KVKs should be modified
3. Source of technology for OFT programme should be the name of the institute not any journal name.
4. All the concluded OFTs after 2nd year should be taken as FLD programme.
5. Ex trainee sammelam may be conducted even through virtual mode
6. In case of OFT, no. of location is not the no. of villages. It should be no. of trial fields or participants.
7. Bio fortified varieties of different crops may be included where it is possible.
8. Millets may be included in different programme
9. No. of soil testing should be increased
10. No. of OFT and FLD on animal science and fishery should be increased
11. Demonstration in natural farming should be included.
12. Fund from outer sources should be explored more

KVK wise suggestions

- Angul KVK- Background of the OFT programme should be mentioned in the slide.
- Hooghly KVK- There should not be more than 2-3 technology options in OFT. Entrepreneurship development through backyard poultry farming is not possible
- Bhadrak KVK- No. of trainees should be at least 2500. Some modification may be done in OFT-12 in action plan in 2nd year if needed.
- Cooch Behar KVK- In action plan OFT-1 to be modified or it may be taken as on station trial
- Deogarh KVK- Concluded OFT should be taken in the FLD programme
- Murshidabad KVK- Concluded OFT should be taken in the FLD
- Kendrapara KVK- OFT on spine gourd may be modified
- Birbhum KVK- In the action plan online ex-trainees sammelan is not highlighted as was reflected in the annual report.
- Purulia KVK- Source of Technology should be the name of the institute not the Journal name
- Ganjam KVK- No. of trainees should be at least 2500 including online mode



- S-24 Parganas KVK- OFT on assessment of pollination should be modified in the next year as a new OFT. Health parameter study should be included in the OFT in nutrition garden
- Jajpur KVK- In the OFT programmes no. of trials or location should be corrected. OFT -6 on consortia should be modified.
- Purba Medinipur KVK- OFT on beetlevine should be modified for 2nd year mentioning no.of spraying of KB-kona. Technology options in OFT -1 should be lowered. Cropping sequence-Boro rice/ vegetables should be specific. OFT-9 should be modified
- Kalahandi KVK- Title should be specific in OFT on ground nut. OFT on model seed production should be specific.
- N-24 parganas KVK- Fund utilization is very less.
- Keonjhar KVK- All the concluded OFT should be brought under FLD
- Jasurguda KVK- OFT-1 in the action plan should be skipped.

Concurrent Technical Session - II

Chairman: Prof. P.J. Mishra, DEE, OUAT

Co-Chairman: Dr. A Halder, PS, ATARI Kolkata

Dr. D. Barman, Head, IARI-RS Kalimpong

Prof. Sajeed Ali, UBKV- RRS, Kalimpong

Rapporteurs: Dr. Rakesh Roy, Malda

Dr. Anil Swain, Nayagarh

Dr. S.Sethy, Cuttack

In this session 3 KVKs from Andaman & Nicobar Islands, 10 KVKs from Odisha and 7 KVKs from W.B. presented their Annual Report 2021 and Action Plan 2022. All the presentations were discussed thoroughly and the following general suggestions were made by the house.

1. Private varieties should not be encouraged in KVK programme.
2. All the results should be tested with statistical analysis
3. New SMSs should read the OFTs and FLDs conducted in each KVK for last 10 years as OFTs and FLDs are often repeated. This has to be ensured by Senior Scientist and Head of the KVKs.
4. Good field pictures with field boards are to be presented.
5. Most OFT are on Plant Protection and varietal assessment in crop production other areas should be focused in future.
6. Animal Science & Fishery activities are not much visible in OFT
7. Hydroponics on Veg and fodder has to be popularised.
8. OFTs should be need based and addressed with proper sourcing of technology.
9. Ensure availability of crop varieties before designing any FLDs and OFTs.
10. Banned chemicals should not be included in KVK programmes.
11. Technology on nutritive food by UDKVK should be followed by all KVKs
12. OFT Technology (micropot) of KVK-Bankura should be followed by other KVKs.

KVK wise suggestions

- Port Blair KVK - OFT (technology) on deworming of goat should be dropped.
- Bargarh KVK - Repeat of OFT on wheat and recording of yield parameters. OFT on backyard poultry (Vanaraja) to be replaced with suitable breed. OFT of extension scientist should be rechecked with regard to source of technology.
- Uttar Dinajpur KVK - Local Tulaipanji rice conservation and popularization programme should be taken up
- Cuttack KVK - OFT on Lime and Boron application in tomato should be redesigned to study effects
- Nadia KVK - OFT on Evaluation of different spacing of transplanted plug tray seedling of mustard during rabi season should be reverified with respect to type of mustard and varietal details.
- Gajapati KVK - Addition of more OFTs considering the joining back of scientist from study leave.
- Jagatsinghpur KVK - OFT on mushroom should be changed.
- Malda KVK - Should have intervention on maize-maize-maize cropping system for soil health management. Designing of OFT on agriculture extension should be redesigned.
- Kandhamal KVK - OFT on horticulture-based farming IFS should be redesigned. OFT of onion title should be changed as per treatment options. OFT on mango value addition should be redesigned

- Nayagarh KVK - Short Term Research project with ATMA funding on local available fish feed can be done for establishment of technology.
- Rayagada KVK - OFT on Assessment on disease and pest resistance varieties of rice in rain-fed medium land should be redesigned.
- Nadia KVK - Technology options in OFT on tomato should have only 2-3 options.
- Sundargarh-I KVK - No. of in-service training should be increase. Designing of OFT on agriculture extension should be redesigned.

Concurrent Technical Session - III

Chairman: Prof. U. Thapa, DEE, BCKV,

Co-Chairmen: Dr. K. S. Das, P.S, ATARI, Kolkata

Dr. Arun Sit, P.S, CPCRI-RS, Mohitnagar

Rapporteurs: Dr. S. Pattanaik, KVK Mayurbhanj-I

Dr. K. Barui, KVK Howrah

Dr. J. Sen, KVK Sonepur

In this session 11 KVKs from Odisha and 8 KVKs from W.B. presented their Annual Report 2021 and Action Plan 2022. All the presentations were discussed thoroughly and the following general suggestions were made by the house.

1. Participatory seed production to be adopted by all KVKs to increase the quantity of seed production
2. In general, there will be farmers practice and two technology options in OFTs with more number of replications as needed
3. While conducting experiments KVKs should go for statistical analysis
4. Analysis of soil to be done before and after experiments while conducting OFT under thematic area of INM.
5. Multilingual audio guide scanner may be popularized by all KVKs
6. Need based programme to be selected while conducting OFTs
7. Specific role of KVK should be highlighted while enhancing the profit of a particular entrepreneur
8. Resource generated from KVKs should be deposited in Revolving Fund Account & fund should be kept with KVK
9. Source of technology should be from recognized institutes not for a paper or journal
10. Minimum one lakh planting materials to be produced by all KVKs as per the demand of the respective district.
11. The KVKs who have not submitted soft and hard copy of Action Plan & Annual Report should sent to ATARI, Kolkata within one week positively.

KVK wise suggestions

- Balsore KVK - Spawn production unit may be initiated
- Kalimpong KVK - Good variety of potato should be included for replacing the local varieties. ATMA fund to be utilised for horticultural crops like citrus, zinger, cardamom, oranges etc. Millets should be included in action plan
- Bolangir KVK - Kadaknath poultry breed can be popularized after organizing awareness programme.
- Burdwan KVK - Oxyfluorfen herbicide in onion should be recommended instead of Pendimethalin. Resource persons may be outsourced from CRIJAF
- Ganjam KVK - Unconventional fish production to be started.
- Dakshin Dinajpur KVK - OFT on performance of mustard in different irrigation regimes in old alluvial zone of to be refined
- Koraput KVK - OFT on assessment on tree species used as standards for black peeper cultivation to be refined. Assessment on AMC in black peeper- Ensure soil reclamation and go for OFT.
- Malda (Additional) KVK - Presentation format supplied by ATARI was not followed. OFT should be prepared in the proper format.
- Puri KVK - Farmers Practice to be added while submitting the Annual Action Plan. OFT on assessment of Coconut Value added products for income generation to be recasted.
- Sambalpur KVK - Farmers Practice to be added while submitting the Annual Action Plan. Effectiveness of different extension method on Rice Production to be recasted. Impact assessment of CFLD Programme to be dropped. OFT on system of mustard intensification needs to recast in respect

of spacing and seed rate. OFT title on suitable varieties for value addition in tomato & Varietal evaluation of Rajmas to be changed.

- North 24 Pgs (Additional) KVK - In the experiment, effect of bypass fat and milk quality of lactating cow, cost of additional feeding and income due to additional milk produced to be calculated for economic feasibility. OFT title on Performance evaluation of winter fodder for small scale dairy crop to be modified. OFT on assessment of YVMV disease tolerant Okra varieties Kashi Kranti variety to be included in place of Radhika.
- Khurda KVK - Title of OFT on assessment of Arka Vimal variety of cauliflower to be changed. OFT on assessment of Nano DAP fertilizer in green gram needs to be recast.
- Mursidabad (Additional) KVK - OFTs on Groundnut and pointed gourd may be recast on the basis of source of technology and Indian condition.
- Sonapur KVK - OFT on Brinjal, the varieties are to be checked about their wilt resistance characteristics, OUAT varieties having wilt resistance may be included. Grafting Brinjal should be tried.
- Howrah KVK - Sapling of coconut variety Kalpamitra and arecanut var. Mohitnagar may be produced. In OFT on green gram, TO1 &2 (in action plan) to be dropped. Age group of farmers should be specified in OFT on application of different social media during data collection.

Valedictory Session

(May 28, 2022)

The valedictory session of Zonal Workshop started at 1800 hrs with the following members on the dais.

Co-Chairs: Prof. S. K. Chakrabarti, VC, UBKV and Prof. C. Guha, VC, WBUAFS

Panelists: Director, ICAR-ATARI, Kolkata, DEEs of SAUs of the Zone, PS, ATARI, Kolkata, Heads of RS of ICAR Institutes

Rapporteurs: Dr. S. Mohanty, Puri

Dr. M. Dey Gupta, Bankura

Dr. B. Mohanty, Dhenkanal

At the outset Dr. P. P. Paul, PS, ICAR-ATARI, Kolkata welcomed all the dignitaries present on the occasion along with the Sr. Scientist & Heads of KVKs to the valedictory session and requested the Chairman to run the session.

The rapporteurs for all the sessions presented reports. In reports relating to Technical Session, general things which are applicable to all the KVKs and duly pointed out during the concurrent sessions were presented.

Participants were asked to give feedbacks and two Sr. Scientist & Heads gave feedback about all aspects of the workshop like logistic arrangement, food, conduct of different sessions etc. They appreciated all the organizers for smoothly managing the programme. They also thanked the Director, ICAR-ATARI, Kolkata for successfully monitoring and managing the entire event very meticulously. All sorts of logistic supports were fairly good which was thankfully acknowledged.

Dr. Partha Das, Registrar, WBUAFS, in his remark, thanked ICAR-ATARI, Kolkata for selecting WBUAFS and thanked profusely to all concerned associated with organizing the workshop.

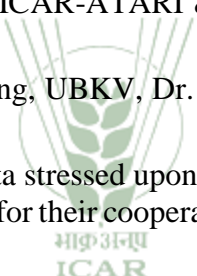
Prof. U. Thappa, DEE, BCKV told that KVK scientists are helping farming community a lot who directly contact and connect with farmers.

Prof. P. J. Mishra, DEE, OUAT told that KVK system is the most resilient system prevailing in the country and wished that KVKs would stress upon production plus activities in coming days. He emphasized to reach the unreached, increase the footfall of farmers and reach maximum number of farmers through digital modes like whatsapp, youtube etc.

Prof. P. K. Pal, DEE, UBKV told that now a days KVK work has been diversified with lot of convergence from different departments. He congratulated ICAR-ATARI & WBUAFS for organizing the programme in such a beautiful place in a very nice way.

Panelists Dr. S. Gurung, Head, RRS, Kalimpong, UBKV, Dr. A. K. Sit, PS & Head, CIPRI Centre etc. gave their remarks before the gathering.

Dr. S. K. Roy, Director, ICAR-ATARI, Kolkata stressed upon Natural farming, seed production programmes etc. and thanked all organizers and participants for their cooperation in conducting all the sessions successfully.



On this occasion, few publications made by KVKs of the zone were released by dignitaries present on the dais. Prof. S. K. Chakrabarty, Vice Chancellor, UBKV thanked all the organizers for nicely conducting the workshop. He also thanked all the participants for cooperating the organizers for which the workshop became a grand success. He told that all the recommendations that emerged during the workshop would be certainly carried forward for implantation.

Prof. C. Guha, Vice Chancellor, WBUAFS appreciated the KVK system being the unique system of its kind which has been accepted by one and all throughout the country. In the recent days, role of KVK in making our country self sufficient in pulse production is praise worthy. He was quite hopeful that the challenge in meeting the fruits and vegetable requirement by 2030 would be also taken care by KVKs of our country. Oilseeds, fisheries and animal science, farmers' income than production would be the areas to stress upon by KVKs.

Dr. N. J. Maitra, Deputy Director of Research, Extension and Farms, WBUAFS proposed a hearty vote of thanks for all the dignitaries who participated in the programmes starting from inaugural session to valedictory session. He thanked profusely to ICAR-ATARI, Kolkata for selecting WBUAFS for organizing the workshop. He thanked all organizers, participants and all concerned in organizing the workshop for their support and co-operation.

There was a field trip conducted for all the delegates to visit experimental fields in the Duars areas and Murti River on 3rd day (May 29, 2022) of the Workshop.

The sessions were coordinated by Dr. F. H. Rahman, Principal Scientist, ICAR-ATARI Kolkata.











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