

# NEWSLETTER

## KVK, BAKSA

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### Other information

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### THE JOURNEY SO FAR..

The Krishi Vigyan Kendra (KVK) is a district level innovative science based institutional model established by the Indian Council of Agricultural Research (ICAR), New Delhi for agricultural technology assessment, refinement, and demonstration for its application and capacity development through, training of farmers, rural youth and extension personnel for upliftment of socio-economic condition of entire farming community of the district through scientific intervention in Agriculture and allied sectors. KVK is the gateway for transfer of technology from laboratory to the farmer's field. The KVK, Baksa is under the administrative control of Assam Agricultural University, Jorhat which was established in 2014. Since inception of the institute in an around 150 villages have been covered for dissemination of various technologies through Capacity building, On- Farm Testing (OFT), Frontline demonstrations (FLD) and other flagship programmes, Govt, of India.



## FOREWORD:



*I am pleased to see the Krishi Vigyan Kendra (KVK), Baksa is publishing its Newsletter for the year 2023-24 to record and share its activities and achievements of the year. This will help in systematically storing the accounts of works it has performed and the achievements it has made during the reported year. Despite the difficulties of not having a permanent campus and administrative building of its own and other hindrances, the KVK team has been working with dedication to serve, motivate and skill the farmers, farm women and youths to adopt the innovations and technologies to their production systems for significantly enhancing farm productivity, quality and household income. It is really heartening to see the changes happening in the field because of the team's sincere efforts. I wish to put in record my sincere appreciation for the entire KVK team for their efforts to systematically record the KVK's activities and achievements in the form of its Newsletter. I wish the KVK team success in their sincere endeavor to bring transformation to the farming community of Baksa district.*

Director of Extension Education  
Assam Agricultural University  
Jorhat-13

## MESSAGE:



*Baksa district is located in the north-western part of Assam with the district headquarter at Mushalpur, which is 105 Km away from state capital Dispur, Guwahati and 20 Km away from National Highway no.31 towards north. The district is inhabited by both Bodo community i.e Bodo-Kachari (including Sarania-Kachari, Madahi etc), and Non-Bodo community i.e Koch-Rajbanshi, Adivasi (Tea Tribe), Nepali, Bengali and other religious minorities. The agro-climatic condition of the district is congenial for development of plantation crops. Horticulture crops like pineapple, citrus, papaya etc. has good scope in the district. Baksa is a non-traditional area in respect of Sericulture and it is considered as an additional activity in rural areas. Dairy and Livestock farming has good potential in the district. My sincere appreciation and congratulations to the KVK team for this valuable publication. The successful demonstrations of DFT, FLD of technologies, Trainings conducted in the publication need to be scaling up in the entire district to enhance agricultural production and productivity. This publication will be useful for the farmers, state agricultural department, entrepreneurs and other stakeholders in the Baksa district.*

(G.Kadirvel)  
Director

## EDITORS DESK:



*It is a matter of immense pleasure for me and my entire staff to inform you all that Krishi Vigyan Kendra, Baksa is releasing its Annual Newsletter for the year 2023-24. The KVK, Baksa team is working whole heartedly on technology assessment and facilitating demonstration for its application of location specific technology and capacity development to increase production, productivity and farm income for farmers livelihood on sustainable manner since 2014. Such endeavour of KVK, Baksa brings out remarkable changes among the farmers, farm women and rural youth to adopt scientific production practices for agri-preneur development particularly in the field of Pig cum Fish farming, Poultry farming, Mushroom cultivation, bee keeping, vermicompost production and cultivation of Arecanut and Assam lemon specially foot hill area of Bhutan. I on behalf of all staff of KVK, Baksa would like to express our sincere thanks and gratitude to all well wishers and stakeholders, district administration and all line departments for successful implementation of various KVK activities in the district. I hope our KVK team will work hard and take necessary initiative for development of farming community of the district in the days to come.*

Dr. U. J. Sarma  
Head, KVK, Baksa

## Scientific Advisory Committee Meeting:

The Scientific Advisory Committee (SAC) Meeting of the Krishi Vigyan Kendra, AAU, Baksa was held on 7th March, 2024 at Integrated textile park campus of Kharua, Baksa District which was chaired by Dr. Manoranjan Neog, Director of Extension Education, Assam Agricultural University, Jorhat. The meeting was attended by HoDs of various line departments of the district along with the personals from Baksa district administration. Deliberations regarding formulation of Agricultural Policies for the Baksa district took place. A District Resource Inventory was also published during the meeting.





## MANDATED ACTIVITIES

### On Farm Trials (OFT):

A total of no.s of OFTs were conducted under KVK, Baksa at different locations of Baksa and Tamulpur districts to test some promising technologies under different disciplines. The trials undertaken under different disciplines during 2023-24 are as follows:

### AGRONOMY

- ✦ Assessment of Nano urea formulation on growth and yield attributes of Kharif paddy.
- ✦ Assessment of finger millet varieties in Baksa district.
- ✦ Yellow sarson line AAJYSL5-2.
- ✦ Foliar application of growth regulator in linseed.
- ✦ Nutrient management (micronutrient ) in linseed.
- ✦ Bio-efficacy of different POE herbicides for broad spectrum weeds management in chickpea.

### ANIMAL HUSBANDRY

- ✦ Effect on egg yolk colour by feeding dry marigold as supplement.
- ✦ Feeding of tapioca root as pig feed.

### HORTICULTURE

- ✦ Performance of high yielding and chilli leaf curl virus tolerant chilli var. Arka Tejasvi, Arka Sanvi, Arka Gagan in Baksa district.
- ✦ Varietal Performance of Coloured Cauliflower var. Carotena and Valentena in Baksa district
- ✦ Varietal Performance of Biofortified Sweet potato var. Bhu Sona and Bhu Krishna in Baksa district.

### PLANT PROTECTION

- ✦ Assessment of triple disease resistant tomato var- Arka Abhed and Arka Rakhak.
- ✦ Management of leaf curl disease of king chilli.

### SOIL SCIENCE

- ✦ Fertiliser prescription equations for targeted yield in hybrid rice.
- ✦ Exploitation of potash solubilising bacteria in reduction of potassic fertiliser in sali rice.



**Front Line Demonstrations (FLD):** The tested and promising technologies for Baksa district were demonstrated in farmer's field through FLDs. The technologies demonstrated under different disciplines during 2023-24 are:

### **AGRONOMY**

- ◆ Rice (medium duration var. Numoli)-Toria (var TS-38) cropping sequence
- ◆ Popularisation of hybrid maize variety DKC 9081.

### **ANIMAL HUSBANDRY**

- ◆ Popularisation of rearing of new pig breed HD-K75.
- ◆ Popularisation of hybrid Napier (var. C04) fodder cultivation.

### **HORTICULTURE**

- ◆ Popularisation of nutrient management in ratoon cabbage.
- ◆ Popularisation of HYV Turmeric var. Megha Turmeric-1 in Baksa district.
- ◆ Popularising Arecanut based multiple cropping system.

### **PLANT PROTECTION**

- ◆ Cultivation of Oyster Mushroom.
- ◆ Rearing of Indian honey bee (*Apis cerena indica*).

### **SOIL SCIENCE**

- ◆ Integrated Nutrient Management in Toria .

**Training programmes:** Krishi Vigyan Kendra, Baksa has conducted a total of 60 nos. of mandated trainings during the year 2023-24. Around 1300nos. of trainees from different villages of Baksa district participated in the programmes. The trainings were provided to various groups including progressive farmers and farm women, Rural youths and Extension functionaries. The programmes were conducted mainly under six disciplinary areas covering Horticulture, Agronomy, Animal Husbandry, Fishery Science, Plant Protection and Soil Science. Apart from the mandated trainings, scientists of KVK delivered their service as resource persons in various training programmes of State Departments, NGOs and FPCs.





## COLLABORATIVE PROGRAMMES

### Coconut Development Board:

1. Vocational Training on Friends of Coconut tree .
2. Vocational Training on Coconut based handcraft.
3. Area expansion programme.
4. District level Seminar.



### College of Veterinary Science, Khanapara:

1. Awareness programme on "Poshudhan Jagriti Abhiyan".
2. Promotion of Small Scale commercial layer unit for sustainable livelihood security at Barsimlaguri



Training programme in collaboration with EEI, AAU, Khanapara

Training programme in collaboration with AICRP on Forage Crops

Input distribution programme under TSP



### International Year of Millets:

KVK Baksa popularized Foxtail and finger millet through 6 nos. of demonstration programmes which included 4 new finger millet varieties. A total of around 300 nos. of farmers were sensitized on millet cultivation through training, awareness and field day programmes. The new varieties of millet tested at different locations of the district were: VL Mandua 352, VL mandua 354, Marua Dhan, Gossaigaon local



### Self-Financed Training Programmes for Agricultural Input Dealers on Fertiliser and Insecticide Management:

A total of 4 nos. of input dealer trainings for fertilizer and insecticide dealers were conducted by KVK which were participated by 140 numbers of participants.



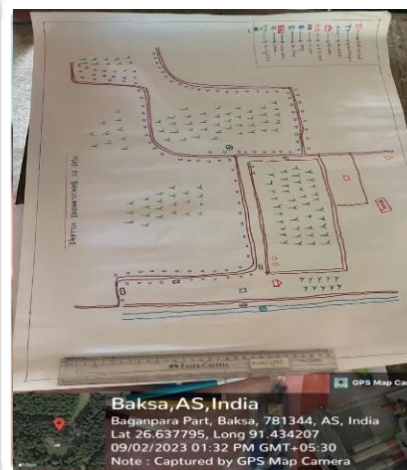
### Mega Project on Rapeseed & Mustard Value Chain Development Through Promotion of Scientific Cultivation in Assam:

Under this project two varieties of Toria (TS-38) and Mustard (PM-28) was demonstrated at around 40ha of land in Baksa district.



## Participatory Rural Appraisal:

Under the PRA programme three nos. of villages covered namely- Bagulamari, Rampur, Heramjhar of Baksa district to find out the information about problems, Needs, and potential in a village.



## Cluster Frontline Demonstration:

- Under Pulse crop (Blackgram, Lentil) an area of 20 ha were demonstrated covering 50 nos. of farmers in 10 nos. of villages.
- Under Oilseed crops (Torina, Sesamum) an area of 76 ha were demonstrated covering 190 nos. farmers in 12 locations.



## SUCCESS STORY

Mrs. Anamika Barman Medhi, now an inspiration in her locality is a hardworking, innovative, and ambitious farm women from her childhood. In 2021, she participated in a training conducted by Krishi Vigyan Kendra, Baksa on low cost vermicompost technology along with other SHG members. Vermicomposting, easy to adopt with low cost and revenue generating even from the rural areas, has attracted her right away. She started with 15 no's of Vermibag in 2021 and in the consecutive year, she increased the number of bags to 20 numbers. Her products got certification from Assam Agricultural University through KVK, Baksa. This helped her product to receive authentication and to get a premium price. At present her annual income is Rs 4,05,800.00 from vermicompost, earthworm and vermiwash. Now, she can supplement her household through the extra income. This year KVK, Baksa has facilitated her in construction of concrete Vermicompost unit by collaborating with Coconut Development Board.





## Other Extension Activities:

- ◆ Diagnostic visits- 35
- ◆ Field Day-6
- ◆ SMS Advisory services- 72
- ◆ Awareness programmes- 25
- ◆ Animal Health Camp- 2
- ◆ Celebration of Important Events- 10
- ◆ Kisan Mela- 1
- ◆ Method Demonstration- 5
- ◆ Flagship Programme- 5
- ◆ Exhibitions- 4
- ◆ Farmer scientist Interaction-10
- ◆ Entrepreneurs meet under HRD Programme-1



## Publications

### Book/Booklet:

1. Cultivation and value addition of Millet
2. গাহৰি পালন

### Popular articles:

1. High Value Horticulture Crops: An Intervention for Economic Upliftment of Farmers
2. Homolomena aromatica- A COMMERCIALY EXPLOITED PLANT FROM NATURAL HABITAT
3. Oilseed Crops in Assam: A Thriving Agriculture Sector

### Leaflet:

1. Rapeseed and Mustard cultivation in Assam
2. মাটি পাৰীক্ষাৰ বিশ্লেষণাত্মক কৌশল
3. ফলমূলৰ শস্যত পুষ্টিৰ অভাৱ আৰু ইয়াৰ প্ৰতিকাৰ
4. বাৰিষাৰ প্ৰাক আৰু পশ্চাত্ৰকালীন পশুধনৰ প্ৰতিপালন
5. বৈজ্ঞানিক পদ্ধতিত হাঁহ পালন
6. বৈজ্ঞানিক পদ্ধতিত ৰাজহাঁহ পালন

## Natural Farming Under KVK-Baksa:

2 nos. of trainings and 1 awareness programme was conducted for sensitising the farmers towards natural farming. A fruit based demonstration unit was also established at KVK campus.



## Formation of FPC by Baksa:

2 nos. of FPC were established by KVK, Baksa.

1. Sewali FPC, Barama
2. Seujidhara FPC, Nagrijuli

