



APART RICE WEEKLY

Oct 31- Nov 05, 2022

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APART: RICE WEEKLY **(October 31 to November 05, 2022)**

Crop Cutting of Cluster Demonstration under APART, KVK, Karbi Anglong

Crop cutting of Cluster Demonstration variety BINADhan 17 was conducted by KVK, Karbi Anglong under APART on Nov 4, 2022. The crop cutting was done at village Kheroni (West Karbi Anglong) to disseminate technology among the farmers by showcasing its better yield performance over local popular variety. When farmers were asked of their feedback regarding cultivation of BINADhan 17, the beneficiary farmers along with farmers of nearby areas said that they are highly satisfied with the performance of variety BINADhan 17 as well as with the paddy's non-lodging characteristics. Renuwara Parbin (Assistant Project Scientist) and Satya Jyoti Bora (Research Technician), APART, KVK, Karbi Anglong were present in the programme and were actively involved in the crop cutting activity and recorded the data for necessary parameters.



Training and Demonstration on Postharvest Machineries under APART, KVK, Karbi Anglong

On Nov 02, 2022 a one-day training and demonstration programme on post harvest machineries was organized under APART, KVK, Karbi Anglong at village Kawaram Basti under Bokajan block. Mr. Saurajyoti Baishya, (IRRI Specialist), Renuwara Parbin (Assistant Project Scientist), Ankur Bora (Research Technician) and a total of 30 participants, including male and female farmers were present in the training and demonstration programme. The programme started with a welcome address by Renuwara Parbin (Assistant Project Scientist, APART, KVK, Karbi Anglong) who explained about the objectives of the programme. During the programme, Mr. Saurajyoti Baishya highlighted the approach of postharvest machinery usage in Assam and shared that it is one of the most successful methods for increasing the profitability of the farmers. Post harvest machineries can help the farmers to reduce operational time and ease out the agricultural operations. The programme concluded with the vote of thanks by Renuwara Parbin APS, KVK, Karbi Anglong.



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 KVK, Karbi Anglong



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Crop Cutting Organised under APART by RARS, Diphu

On Nov 01, 2022, a crop cutting programme was organised under APART on Cluster demonstration at villages Thesobil, Ampathar and Kheroni of West Karbi Anglong district. The varieties were BINADhan 17 and BINADhan 11, respectively. The crop cutting process was initiated by Mr. Mirlong Bey (RT, APART) in the presence of Mr. Saurajyoti Baishya (Specialist, Postharvest & RVC, IRRI) & Mrs. Anjela Deka (PA, APART), and various parameters of the crop were collected at field by using Kobo Collect app. The farmers were satisfied with the crop performance.



On Nov 04, 2022, a crop cutting programme was organized under APART on cluster demonstration at village Zero point in Bokajan block of Karbi Anglong District by RARS, Diphu. The variety was Bahadur-Sub 1. The crop cutting process was initiated by Mr. Mirlong Bey (RT, APART) in the presence of Dr. K. D Singha (Chief Scientist, RARS, Diphu) & Mrs. Anjela Deka (PA, APART) in 5m² area. The grain moisture content at the time of harvest was around 23 %. Various key parameters of the crop were collected at field by using Kobo Collect app from 5m² and 1m² area to determine the yield of the crop.



Demonstration on Post harvest Machinery under APART by RARS, Diphu

On Nov 1, 2022, a demonstration programme on postharvest machinery was conducted by RARS, Diphu under APART at village Thesobil of West Karbi Anglong district. Mr. Saurajyoti Baishya (Specialist, Postharvest & RVC, IRRI), Mrs. Anjela Deka (PA, APART), Mr. Mirlong Bey (RT, APART) and a total of 21 farmers were present in the programme.

Mrs. Anjela Deka, PA, APART started the programme with welcome address and told participants about APART, its objectives and aim of organizing the programme. Mr. Saurajyoti Baishya delivered lecture on the importance of postharvest management of rice & its value-addition. He stressed on the various postharvest machineries used in rice and also how to minimize the losses. He demonstrated the usage of Super bag and moisture meter to the participating farmers. The programme concluded with vote of thanks from Mrs. Anjela Deka. Mr. Mirlong Bey, RT helped in smooth running of the programme.



Contributor:
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Field Day on 'Sali Paddy' Organized by RARS, North Lakhimpur

A field day on rice including crop cutting was organized at vill. Phukondoloni of Karunabari block by Regional Agricultural Research Station (RARS), North Lakhimpur under the World Bank-funded 'Assam Agribusiness and Rural Transformation Project (APART)' on November 2, 2022. Around 35 farmers, Junior Scientists of RARS, North Lakhimpur, Dr. Yater Das, Mrs. Bithika Phukon, and APART staff Dr. Pinky Pathok, Project Associate and Mr. Champak Saikia, Research Technician participated in the programme. The main objective of the programme was to make awareness about the performance of Stress Tolerant Rice Varieties (STRVs) in the district. During *Sali* season, four STRVs, namely Ranjit-Sub 1, Bahadur-Sub 1, Swarna-Sub 1 and BINADhan 11 were demonstrated at farmers' field by providing seeds, fertilizers and need-based

pesticides. Crop cutting was conducted for short duration rice variety-BINADhan 11. The crop cutting experiments provided information on quantitative parameters such as average plant height (100 cm), duration (117 days), grain moisture (13.80 %), etc. The average yield obtained was 46.00 quintals/hectare which was found to be higher than local varieties growing nearby. Later on, an interactive session between farmers and scientists was organized so that information on improved varieties can be disseminated to the fellow farmers. The beneficiaries expressed satisfaction on performance of the variety and told that they will go for STRVs in the next season and supply surplus seeds to fellow farmers to replace the low-yielding varieties.



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Dr. Pinky Pathok,
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Training on Postharvest Machineries (2022-23)

On November 4, 2022, a training programme on post-harvest machineries were organized by Krishi Vigyan Kendra, Kokrajhar in collaboration with International Rice Research Institute (IRRI) under Assam Agribusiness & Rural Transformation Project (APART). Dr. S. K. Paul Chief Scientist RARS, Gossaigaon, Ms. Pooja Basumatary (SMS, Horticulture), Dr. Muzaharul Islam (SMS, Animal Science), Ms. Priyanka Borah (SMS, Agronomy), Mrs. Porna Sharma (Community Science), Mr. ParthaJyoti Borah (Farm Manager), Mr Akshay Jyoti Bharadwaj (Junior Researcher, IRRI) and Mr. P. K. Mahapatra (Research Technician, IRRI) were present in the programme. A total of 30 participants were present in the training programme. The programme started with the welcome address by Ms Narzina Parbin, APS, KVK, Kokrajhar. Dr. Sunil Kr. Paul (Chief Scientist RARS, Gossaigaon) gave an introductory speech regarding the programme. Mr P.K. Mahapatra briefly explained about the uses of postharvest machineries. Mr. Akhoy Jyoti Bharadwaj, Junior Researcher, IRRI, briefly explained the different processes, technology and machineries which are being used for postharvest operations and also discussed about the advantages and disadvantages of machineries. Mr Sunil Pator (Project Associate, APART), Narzina Parbin (Assistant Project Scientist, APART), Ms Nasreen Hussain APS (CIP) APART, KVK, Kokrajhar were present during the entire programme. The training was closed with a vote of thanks by Mr Sunil Pator (PA, APART).





Demonstration on Postharvest Machineries (2022-23)

A demonstration programme on postharvest machineries were successfully conducted under Assam Agri-business & Rural Transformation Project (APART) on November 5, 2022 at Sapkata village by KVK, Kokrajhar with the technical support of International Rice Research Institute (IRRI) in the presence of 30 participants of the locality. The programme started with the welcome address by Narzina Parbin, Asst. Project Scientist, APART, KVK, Kokrajhar. Thereafter, Mr. P. K. Mahapatra, Research Technician, IRRI briefly elaborated about the various paddy varieties. He also talked about uses of moisture meter and other machineries which are generally used after harvesting of the paddy, such as solar bubble dryer, etc. The programmes was technically guided by the IRRI, Junior Researcher Mr. Akshay Jyoti Bharadwaj. During the technical session, he organised a brief demonstration on use IRRI Super bag and briefly described about the various postharvest machineries like combine harvester, reaper, open drum thresher and portable rice mill. During the last part of the programme, Narzina Parbin, APS, APART talked about the paddy cultivation and its benefits. Mr Sunil Pator PA, APART and Ms Nasreen Hussain APS, CIP, APART actively participated in the entire proprogramme. All the participants were very much satisfied and they also showed their interest in the machineries for further use in their cultivation. The demonstration programme successfully ended with the vote of thanks by Ms Narzina Parbin.



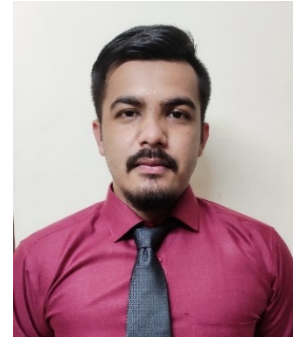
Contributors:



Sunil Pator
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Nazrina Parbin
APS, APART, Kokrajhar

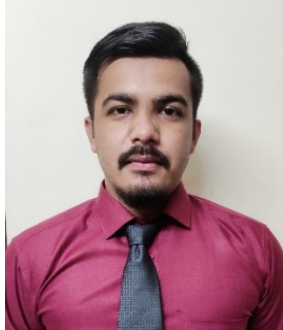


Akhoy Jyoti Bharadwaj
Jr. Researcher, IRRI

Rice Variety Cafeteria Evaluation and Field Day organised by DoA South Salmara - Mankachar

A field day and evaluation programme of rice varietal cafeteria was organised by DoA South Salmara - Mankachar on Nov 03, 2022 at Aidoba village of Mankachar. The occasion was graced by the presence of Mr. Hitesh Mazumdar (ADC, South Salmara - Mankachar), Mr. MoinulHoque (DAO), Mr. Akhoy Jyoti Bharadwaj(Junior Researcher, IRRI) and Mr. Inamul Hasan (ATM, ATMA). The varietal crop cafeteria was grown in the field of Mr. Sanju Hajong, a local resident of Aidoba village.

The event started with the welcome address by Mr. Inamul Hasan, followed by a lecture by Mr. Moinul Hoque who laid emphasis on crop cafeteria, its evaluation and importance. Mr. A. J. Bharadwaj presented a brief overview of APART and explained about the whole evaluation process. Thereafter, Mr. Hitesh Mazumder spoke about importance of latest rice varieties as well as conservation of the local varieties, use of modern agricultural practices and machineries. It was followed by the on field evaluation process. All the farmers and officials actively participated in the programme. The farmers were very satisfied with the performance of the STRVs as well as the local varieties. A total of 30 farmers attended the programme.



Contributor:
Akhoy Jyoti Bharadwaj
Jr. Researcher, IRRI

Participatory Varietal Evaluation of Rice Variety Cafeteria by Krishi Vigyan Kendra, Jorhat

A participatory varietal evaluation of rice variety cafeteria was organized at Khanamukh by Krishi Vigyan Kendra, Jorhat under APART on Nov 1, 2022. There were 11 prominent rice varieties in the cafeteria. The programme was successfully conducted in presence of Dr. Sanjoy Borthakur, Senior Scientist and Head, KVK, Jorhat, Mr. Prithviraj Pegu, ADO, Kaliapani block and Ms. Ankita Sahu, Junior Researcher, IIRI. Subject matter specialists of KVK, APART staffs and about 25 participants of the locality were present in the meeting.

In the beginning of the programme, Dr. Sanjoy Borthakur, Senior Scientist and Head, KVK, Jorhat welcomed all the participants and briefly explained about the objectives of the programme and details of the different varieties used in the rice variety cafeteria. He explained the difference between Premium Quality Rice (PQR) varieties, Stress Tolerant Rice Varieties (STRVs), semi-deep water rice varieties and high-yielding rice varieties. Mr. Prithviraj Pegu, ADO Kaliapani block, explained about various aspects of agriculture, fishery and veterinary related to Krishi Vigyan Kendra and the Department of Agriculture, Assam, and ways for doubling of farmers' income. Then Ms. Sahu explained briefly how to evaluate the varieties and choose the best among them. The selection criteria was totally on visual basis mainly on yield attributing characters like plant height, filled and unfilled grains, crop duration, disease and pest attack, lodging, etc.

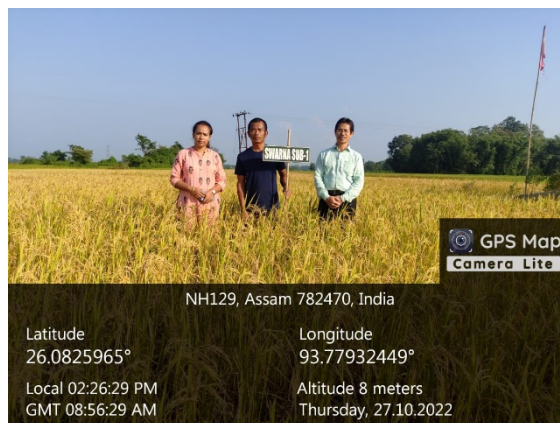
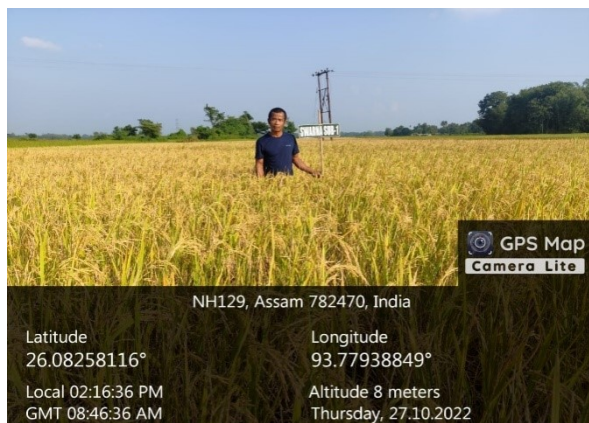
For performance evaluation, the participants were given different coloured tags. The male participants were given blue tag for positive vote and black tags for negative vote. Similarly, the female participants were given yellow tag for positive vote and pink tags for negative vote. The participants were asked to select both good and poor performing varieties as per their preference. Performance evaluation of all the varieties was calculated based on the number of votes, and total score was given to different varieties of the cafeteria. Finally, the best performing variety was selected. The host farmer whose land was used for the rice cafeteria, also discussed the pros and cons of the varieties with the experts present in the programme. The programme was a grand success.



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Adoption of Swarna-Sub1 by Farmers of KarbiAnglong District

This story is about Mr. Rustom Rongpi, 38 years from Kamala kanta Bey Arong village of Bokajan block of Karbi Anglong district. He owns 16 bighas of land. From the last 2 years, he is cultivating Swarna-Sub 1 in 6 bighas of land. He has procured the seeds from his fellow villager who was earlier APART beneficiary of *Sali* paddy 2019-2020 under RARS, Diphu. He was delighted to see the production of Swarna-Sub1 and that's how he became interested to cultivate this variety in his field. He said that he is getting better yield (640-720 kg/bigha) compared to other varieties and he will cultivate the STRV in next season too. He also mentioned that nearby villagers are also willing to cultivate this variety, so he is thinking to go for seed production in the next season. For that he has requested for seed production training and we have assured him for such training in RARS/KVK in coming days.



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Crop Cutting of BINADhan11 under APART, KVK, Dhemaji

On October 20 and 21,, 2022 crop cutting of BINADhan11 was undertaken at several locations (Purana jedom, Tarajan, Murkongselek, Silapathar and Sitalmari) of Dhemaji district including various demonstrations, namely Minikit, Cluster, Head to head, LCD (STRV) and ICMD (STRV). Data of various growth and yield parameters were taken by the APART team. The average yield of the variety BINADhan 11 was found to be 3.8 ton per ha. The beneficiary farmers were satisfied by the experience of growing the variety and also other farmers of the surrounding areas showed interest in growing the variety in the upcoming season. It captured interests because of good crop performance based on the duration (medium) compared to other varieties and also for the non-lodging characteristics of the variety.



Field Day -cum-Crop Cutting of Learning Centre Demonstration under APART, KVK, Dhemaji

One day programme on “Field Day-cum-Crop Cutting on Stress Tolerant Rice Varieties” under Learning Centre Demonstration (LCD) of variety BINADhan 11 was organized by Krishi Vigyan Kendra, Dhemaji on October 28, 2022 at Sitalmari village under Sissiborgaon block. A total of twenty five participants including farmers and progressive farmers, both male and female, took part in the programme from nearby locality. The farmers were welcomed by Dr. Papori Bora, Project Associate, APART, KVK, Dhemaji who explained about the objective of the programme. The objective of the programme was to invite feedback of the on-going *Sali* paddy cultivation, especially the medium duration rice variety BINADhan 11, create awareness and understanding of STRVs amongst rice farming communities, to facilitate the exchange of information about the varieties and seed systems by improving local seed production, and to generate and pool in the demand for stress-tolerant rice varieties. Mrs. Susmita Gogoi, Subject Matter Specialist (Crop Science), KVK, Dhemaji

interacted with the farmers and informed about the benefit of cultivation of BINADhan 11 due to its medium duration for double cropping purpose to increase the farmers' income. Mr. Sanjay Kumar Yadav, Research Technician, IRRI and Mr. Bubul Mohan, Research Technician, APART, KVK, Dhemaji demonstrated the moisture meter and IRRI Super bag to the participating farmers. In the programme, farmer Mr. Ganeswar expressed his experience of cultivation of BINADhan 11 to the farmers. The programme concluded with a participatory discussion and vote of thanks by Mr. Sourabh Borah, Assistant Project Scientist, APART, KVK, Dhemaji. In the crop cutting of the demonstration plot, the yield of 4.2 ton per ha was obtained.



Contributors:



Dr. Papori Bora,
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APART, KVK, Dhemaji



Sourabh Borah,
Assistant Project Scientist,
APART, KVK, Dhemaji

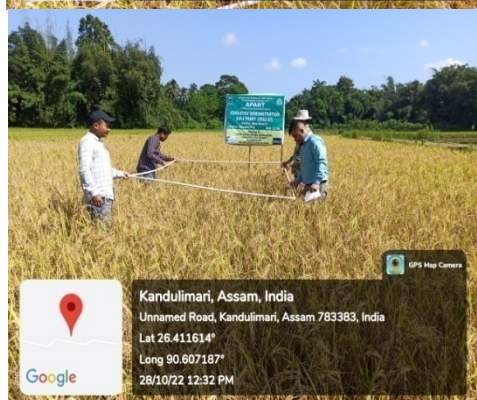
Field Visit, Monitoring and Crop Cutting Activity in Ongoing Sali Paddy Demonstration under APART, KVK, Bongaigaon

Crop cutting activity was successfully carried out in variety BINA DHAN 11 cultivated in the field of Integrated Crop Management demonstration (ICMD-STRV), Head-to-Head demonstration in Siponshila village of Dangtol block and Sonakhuli village of Shrijangram block and Minikit demonstration in Bamungaon village of Shrijangram block under APART,

KVK, Bongaigaon.

The beneficiary farmers were briefed about the objectives of crop cutting in the crop. The men and women have actively participated in this crop cutting activity. The crop cutting was done by measuring an area of 2.5mx2m. Various parameters of rice crop like plant height, numbers of panicles, numbers of grains per panicles, numbers of filled grains, number of unfilled grains were recorded in the crop from the measured area. The total weight of the bundle was also measured. Some of the parameters, e.g., numbers of tillers per plant, numbers of hills are recorded from 1 meter length in the row. After collecting the data, the panicles were cut manually by using sickle and the panicles weight was recorded. All the above mentioned parameters were found satisfactory and recorded in Kobocollect App.

Crop Cutting at ICMD-STRV demonstration at Siponsila



Crop Cutting at Head-to-Head demonstration at Sonakhuli II

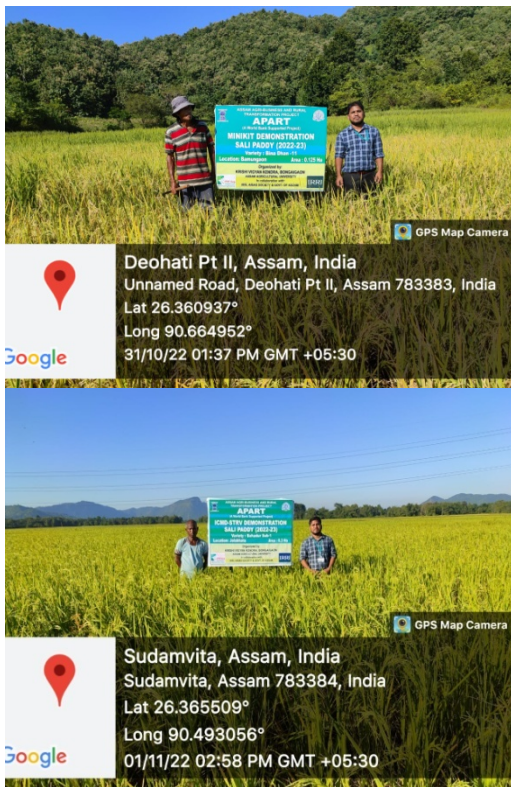


Field Visit and Monitoring

Regular field visit and monitoring was successfully carried out in different locations of ICMD-STRV demonstration in Kasarpara, Jolakhata village of Boitamari block and Raghunandanpur of Boitamari block, Head to Head demonstration in Sonakhuli village of Srijangram block, Jolakhata village of Boitamari block, Bannipara village of Boitamari block and Minikit demonstration in Bamungaon village under Srijangram block under APART, KVK, Bongaigaon.

The varieties cultivated under these demonstrations, such as Ranjit-Sub I, Bahadur-Sub I and Swarna-Sub I were at panicle initiation stage. Variety BINADhan 11 was in full mature stage or at harvesting stage, being early maturing variety. Variety BINADhan 11 was harvested by doing crop cutting activity. Monitoring of current field status regarding incidence of pests and diseases in ICMD-STRV, Head-to-Head and Minikit demonstrations were carried out throughout this week.

Presently, *Sali* paddy under these demonstrations was less infested by pest and diseases. Mainly infestation of yellow stem borer and brown spot disease were observed in some fields of ICMD-STRV, Head-to-Head and Minikit demonstrations. Farmers were advised to take proper control measures and solutions (both indigenous method and chemical method).



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