



APART RICE WEEKLY

November 7-12, 2022

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APART: RICE WEEKLY **(November 7-12, 2022)**

FIELD DAY-CUM-CROP CUTTING PROGRAMME ON MECHANICAL TRANSPLANTED OF RICE (MTPR) DEMO AT KVK, KARBI ANGLONG

On Nov 11, 2022 field day-cum-crop cutting programme under Mechanical Transplanting of Rice demonstration was successfully conducted at village Sibnagaropaddy variety Bahadur-Sub1 under APART. Dr. Subal Maibangsa (Head, KVK, Karbi Anglong), Bishnu Jyoti Saikia (Project Associate), Ms Renuwara Parbin (Assistant Project Scientist) and Mr Ankur Bora (Research Technician), Mr Satya Jyoti Bora (Research Technician) APART, KVK, Karbi Anglong and total number of 30 participants were present in the programme. The program started with the welcome address by Mr Bishnu Jyoti Saikia (PA, APART) and he briefed the objectives of the programme. Ms Renuwara Parbin, APS, APART delivered the brief overview of APART and also highlighted the detailed characteristics of Stress Tolerant Rice Varieties (STRVs). On the other side Dr. Subal Maibangsa (Head, KVK, Karbi Anglong) explained the method of rice cultivation, importance and advantages of adoption of STRVs in Assam. The crop was grown using the mechanical rice transplanter which is used to reduce labour, speeds up the planting process and significantly increases the yield of rice during the harvesting period. When asked about their experiences of growing Bahadur-Sub1, the beneficiaries in the surrounding area expressed great satisfaction on the crop's performance. Crop cutting was done through reaper. Various parameters of the crop were collected at field by using Kobocollect App. The program concluded with vote of thanks by Ms Renuwara Parbin, APS, APART, KVK, K. Anglong.



Contributors:



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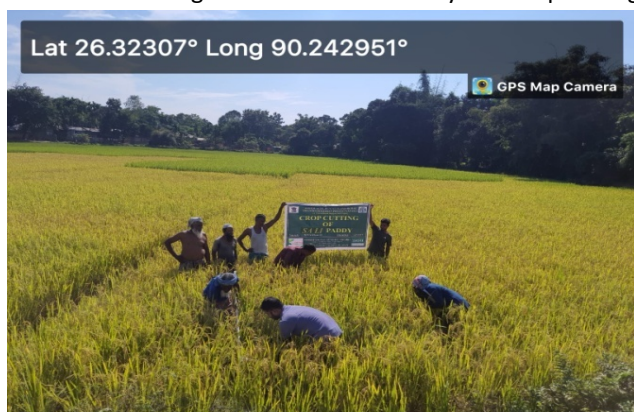


Renuwara Parbin,
Assistant Project Scientist, APART,
KVK, Karbi Anglong

CROP CUTTING OF LCD-STRV DEMONSTRATION OF SALI PADDY UNDER APART, KVK, DHUBRI

On November 3, 2022, APART, KVK Dhubri conducted a crop cutting of the LCD-STRV Demonstration, for the variety BINADhan 11. The crop cutting was carried out in the village Koimari of Dhubri District, by the APART team which included Ms Kankana Bordoloi (PA, APART), Ms Rimjim Sikha Bora (APS, APART), Mr Chandan Bora (RT, APART). The team collected data for various parameters like plant height, number of tillers, grain weight, bundle weight, etc., from which analysis can

be done on the overall performance of the variety. The main objective of the crop cutting was to compare the performance of the demonstrated variety with the local variety, which the farmer usually cultivates, and popularization of the variety among the farmers based on its performance. The farmers were highly satisfied with the performance of BINA Dhan 11 and willing to cultivate this variety in the upcoming season.



Contributors:



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Kankana Bordoloi
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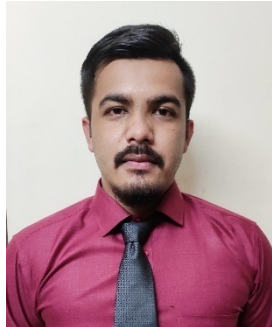


Rimjim Sikha Bora
APS, APART, KVK, Dhubri

RICE VARIETY CAFETERIA EVALUATION AND FIELD DAY ORGANISED BY DOA, KOKRAJHAR

A field day and evaluation programme of rice varietal cafeteria was organised by DoA, Kokrajhar on November 10, 2022 at Pratapkhata village of Dotma block, Kokrajhar. The programme was attended by Mr. Akhoy Jyoti Bharadwaj (Junior Researcher, IRRI), Mr. Pradyumna Kumar Mohapatra (RT, IRRI), Mr. Manabendra Roy Choudhury (DEC, APART), Mr. Mrityunjay Basumatary (ATM, ATMA) and Mr. Daimalu Mushahary (RT, APART).

The event started with a welcome speech by Mr. Mrityunjay Basumatary which was followed by a speech from Mr. Manabendra Roy Choudhury who emphasized on rice variety cafeteria, its evaluation and importance. Mr. A. J. Bharadwaj presented a brief overview of APART and explained about the whole evaluation process. It was followed by the on field evaluation process led by Mr. P. K. Mohapatra. All the farmers and officials actively participated in the programme. The farmers were very much satisfied with the performance of the STRVs as well as the local varieties. The programme ended with the vote of thanks from Mr. Daimalu Mushahary. More than 30 farmers attended the programme.



Contributor:
Akhoy Jyoti Bharadwaj,
Junior Researcher (IRRI)

ON THE SPOT EVALUATION OF RICE VARIETY CAFETERIA BY DIFFERENT STAKEHOLDERS AT RARS, NORTH LAKHIMPUR

A Participatory Evaluation Programme of Rice Variety Cafeteria was held under Assam Agribusiness and Rural Transformation Project (APART) at Regional Agricultural Research Station (RARS), North Lakhimpur on November 10-11, 2022. The programme started with an inaugural speech by Dr. Prabal Saikia, Chief Scientist, RARS, North Lakhimpur. He briefly mentioned about different rice varieties viz., Stress Tolerant Rice Varieties (STRVs), Premium Quality Rice (PQR) varieties, semi-deep water rice varieties, deep-water rice varieties and high-yielding rice varieties grown in randomized block design in the cafeteria. The programme was organized to enable different stakeholders including farmers, extension functionaries from DAO-ATMA, scientists, seed dealers and millers, to select the suitable varieties of their preference based on qualitative as well as quantitative traits in the particular agro-climatic region as outlined by Dr. D. Choudhury, Principal Scientist (PBG). Dr. P.K. Pathak, Senior Scientist & Head, Krishi Vigyan Kendra, Lakhimpur was present in the programme along with Scientists from International Rice Research Institute (IRRI), Regional Agricultural Research Station and Krishi Vigyan Kendra, Lakhimpur. Dr. N.K. Tyagi, Senior Specialist, Seed and Mr. Vivek Kumar, Specialist, Agricultural Extension, IRRI along with Ms. Jutika Das, Project Scientist, APART, explained the entire process of evaluation in the Cafeteria. All the participants visited all the 72 plots for on spot evaluation of the 24 rice varieties planted in three replications at Research and Seed production farm of RARS, North Lakhimpur, which was guided by Scientists and APART team members of RARS and KVK, North Lakhimpur. The farmers were given different colour tags for their positive and negative votes. They voted the varieties based on different preferred characteristics, such as plant height, tillering, number of grains per panicle, more number of effective tiller, etc. The programme concluded with a vote of thanks by Dr. Pinky Pathok, Project Associate, APART, RARS, North Lakhimpur.





Contributor :
Dr. Pinky Pathok,
Project Associate, APART,
RARS, North Lakhimpur

PARTICIPATORY VARIETY EVALUATION AT KRISHIVIGYAN KENDRA, MORIGAON

A day long participatory Rice Varietal Evaluation programme was organized by Krishi Vigyan Kendra, Morigaon under Assam Agribusiness and Rural Transformation Project (APART) on Nov 9, 2022. The programme started with a welcome address by Saurav Baruah, SMS (Soil Science). Dr. Rijusmita S. Deka, Sr. Scientist & Head, KVK, Morigaon discussed the main objective of the programme and briefly discussed on selection and evaluation of rice varieties. This was followed by a lecture of Mr Indra Mohan Talukdar, D.A.O., Morigaon and Ms Binita Barman, Sr. ADO, DOA, Morigaon. Dr. Rohit Namdeo, PH Specialist, IRRI, delivered a lecture on importance and the use of machineries in agricultural farms. Also, Mrs Porismita Dutta, Project Associate, Mr Sanju Borgohain, Asstt. Project Scientist, Mr Rupam Bonia and Mr Robin Hazarika, Research Technicians, APART, KVK, Morigaon were present in the meeting.

Crop Cafeteria is a replicated trial of different (traditional, prevalent or newly introduced) rice varieties at a particular place to enable the stakeholders/ farmers to select a suited rice variety of their preference in a particular region/agro-climatic zone. The rice varieties were raised in such a manner that all the varieties have synchronous flowering and matured at the same time. A total of ten varieties were established in the rice variety cafeteria field.

The main focus was on spot varietal evaluation by different stakeholders such as private seed growers, extension functionaries, farmers, farmer producer companies, rice millers, scientists, DoA-ATMA and other govt. officials, etc. The variety selection by the stakeholders was based on important yield parameters such as grain type /quality and other crop characteristics and it also focused on creating awareness about different STRVs and PQR varieties among different stakeholders for its faster adoption.

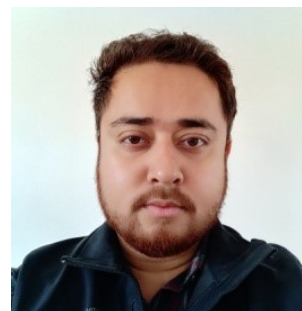
The programme included an evaluation session of varieties by the farmers present. A total of 50 participants from different locations were present in the programme. The male and female participants were given different colour tags for positive and negative voting. The farmers voted based on the phenotypic characters which resulted in selecting BINADhan 17 as one of the best variety among all planted 10 varieties. The programme was appreciated by everyone present and was concluded by a vote of thanks by Mrs. Porismita Dutta.



Contributors:



Porismita Dutta,
Project Associate, KVK, Morigaon



Sanju Borgohain,
APS, KVK, Morigaon

AWARENESS TRAINING ON HARVEST & POSTHARVEST MACHINERY

An Awareness Training on different harvest and postharvest machinery was organized under APART project by KVK, Darrang. A total of 30 number of farmers attended the programme on November 05, 2022, at village Daipam. The programme was started with a welcome speech by Ms. Shilpi Devi Borah, PA, KVK, Darrang, who discussed on STRVs and also briefed the activities of APART project. Mr. Amlandeep Saikia, Junior Researcher, IRRI, was the resource person present in the entire programme. The main purpose of organizing the training was to show case the farmers regarding the various postharvest implements, like crop-harvester, portable rice mill, power weeder, moisture meter, IRRI Super bags, etc. Hands on demonstration on moisture meter and IRRI Super bag was given by Mr. Rana Gogoi and Mr. Kushil Gogoi, Research Technicians, APART, KVK, Darrang. The farmers were interested to use the machines which were shown during the programme. Lastly, the programme concluded with a vote of thanks.



PARTICIPATORY VARIETAL FIELD DAY OF RICE VARIETY CAFETERIA CONDUCTED BY KVK, DARRANG

A Participatory Rice Variety Evaluation programme on "Rice Variety Cafeteria" was conducted by Krishi Vigyan Kendra, Darrang at village Bahabari under, APART project with the technical support of International Rice Research Institute (IRRI) on November 9, 2022. A total of 25 farmers involving women beneficiaries of that area attended the programme. The cafeteria was established by KVK, Darrang at Shahjahan Ali (beneficiary) field to evaluate the farmers' preferred variety from the 10 rice varieties grown at the particular site. The programme was started with a welcome address by Ms Shilpi Devi Borah, PA, KVK, Darrang and discussed about the main objectives of the programme which was followed by a brief discussion on selection and evaluation of rice varieties by Mr. Jyoti Bikash Nath, Specialist, IRRI and Mr. Amlandeep Saikia, Junior Researcher, IRRI. The evaluation programme was successfully completed with the support of Mr. Hemanta Borkakati, APS, Mr. Dhrubajyoti Kakati (CIP), Mr. Rana Gogoi and Mr. Kushil Gogoi, RT, KVK, Darrang. The evaluation was done on the basis of various visual plant characteristics of different rice varieties. The scientists guided the farmers for identifying the preferred and non-preferred varieties with the help of coloured tags. The scientific staff also participated in evaluation of different varieties. After the evaluation programme, it was recorded that Bahadur-Sub1, 22 Muthi and 20 Muthi rice varieties were most preferred by the farmers among the 10 varieties. At the end of the programme the

feedback was collected from the participants. The programme concluded with a vote of thanks from Mr. Hemanta Borkakati, APS, KVK, Darrang.



Contributors:



Hemanta Borkakati,
Assistant Project Scientist, KVK, Darrang



Amlandeep Saikia,
Junior Researcher, IRRI

DEMONSTRATION ON RICE VALUE CHAIN MACHINERIES UNDER APART, RARS, DIPHU, KARBI ANGLONG

On Nov 10, 2022, demonstration on rice value chain was conducted with the technical support of IRRI at Balipathar by RARS, Diphu under APART. In this programme a total of 30 farmers participated. The programme was started with a welcome speech by Anjela Deka (PA, APART). She briefly explained about the project activities, different organizations involved in the Project, main objectives of the project and aim of the training programme. After that demonstration programme was led by Mr. Saurajyoti Baishya, IRRI Specialist, Postharvest and RVC. He explained the concept of rice value chain, different processes and machines involved in rice value chain to the farmers. He demonstrated IRRI Super bag and its importance for storing the grains after threshing and cleaning. He also demonstrated the digital moisture meter for estimating moisture content in the grains and explained about the implications of different moisture levels during harvesting, threshing and storage in order to minimize the losses. He encouraged farmers to maintain proper moisture level and other procedures to get benefit of Minimum Support Price (MSP) fixed by the Government. Farmers actively participated in the demonstration programme. Mr. Mirlong Bey (RT, APART) helped in smooth conduct of the programme. The programme successfully concluded with a vote of thanks by Ms Anjela Deka (PA, APART).



CROP CUTTING OF HEAD-TO-HEAD DEMONSTRATION UNDER RARS, DIPHU

On Nov 10, 2022, a crop cutting programme on Sali paddy head-to-head demonstration under APART was conducted at village Balipathar in Bokajan block of Karbi Anglong district. The Stress-Tolerant Rice Variety (STRV), Bahadur-Sub 1 was planted in comparison to local variety Goya. The crop cutting process was initiated by Mr. Mirlong Bey (RT, APART) in the presence of Mr. Saurajyoti Baishya (IRRI Specialist) and Ms. Anjela Deka (PA, APART). Various parameters of the crop were collected at field using Kobocollect app. The farmers were very much satisfied with the performance of the crop.



Contributor:
Anjela Deka
Project Associate, APART, RARS Diphu

FIELD DAY AND CROP CUT PROGRAMME ON LEARNING CENTRE DEMONSTRATION OF SALI PADDY 2022-23

In Assam, rice is the main crop during sali season and flood is also a regular phenomenon during this season for which farmers had to face severe setbacks. In Kamrup district under block Rangia, there was a severe flood incidence during the month of June and July. Most of the nurseries with seedlings of Ranjit-Sub1, Bahadur-Sub1, Swarna-Sub1 and PQR varieties could not survive due to submergence under water for more than 20 days. After post-flood situation, few of the beneficiaries were distributed the BINADhan11 seeds. Farmer, Mr. Bichitra Kalita of village Gorput, Rangia and Mrs. Pranita Malakar Dauka of village Gorput Baranhati, Rangia transplanted BINADhan11.

On November 09, 2022, two number of field days were conducted at two villages, viz., Gorput and Baranhati-Gorput of Kamrup district. The total number of participants in both the field days were 116 numbers in total. The beneficiaries at first were very much reluctant to cultivate the variety BINADhan11. Both the beneficiaries were highly satisfied with the performance of the variety and believed that the variety will definitely help the farmers of flood prone areas and also mentioned that since the variety duration is short i.e., within 120 days they can use the land for next crop like mustard and pea. After transplanting the crop faced severe drought condition but still the variety yielded around 3.9 ton and 3.6 ton per hectare, respectively, as per the crop cut data 1.95 kg/5m² and 1.8 kg/5m² grain yields were recorded in the two different plots. The field day was conducted by APART team of KVK Kamrup under the guidance of Head, KVK Kamrup. Dr. Munmi Bora, Project Associate, APART had briefed about the activities of APART project and the role of KVK Kamrup. The crop cut was demonstrated by Mr. Ananta Gogoi, Research Technician, APART, KVK, Kamrup.



Contributor:
Dr. Munmi Bora,
Project Associate, APART, KVK, Kamrup

PARTICIPATORY VARIETAL EVALUATION OF RICE VARIETY CAFETERIA

A Participatory Varietal Evaluation of Rice Variety Cafeteria Sali season, 2022 was organized by Regional Agricultural Research Station, Assam Agricultural University (AAU), Titabarn under Assam Agribusiness and Rural Transformation Project (APART) on Nov 9, 2022.

The programme started with a welcome address by Dr. A.K. Medhi, Principal Scientist and Incharge of APART, RARS Titabar. Dr. Kanwar Singh, Resident Coordinator, IRRI discussed the main objectives of the program and Dr. Mrinal Saikia, Associate Director of Research, AAU, gave brief information on selection and evaluation of rice varieties. This was followed by a lecture of Mr. Vivek Kumar, Specialist, IRRI. All the instructions and explanations to the farmers about crop cafeteria evaluation were given by Miss Jyotika Das, Project Scientist, APART, AAU.

Moreover, Dr. Debanand Das, Alternate Nodal Officer, APART, Mr. Bhaskar Jyoti Mahanta, PC, APART, Dr. Neeraj Kumar Tyagi, Seed Specialist and Miss Ankita Sahu, Junior Researcher, from International Rice Research Institute (IRRI), Mr P. Goswami GIS Specialist, APART, AAU, Dr. Bubul C. Das, Dr. Ranjit Choudhury, Retired Principal Scientist from RARS Titabar, Dr. Tomizuddin Ahmed Retired Chief Scientist from RARS Titabar, Dr. Kalyan Pathak, Head and Dr. N.T. Rafique Professor, Department of Agronomy, Dr. Surajit Kalita, Junior Scientist, Department of Entomology, Delegates from ASOCA, Titabar Seed Producers, Titabar Rice Millers, Delegates from State Agriculture Department, Titabar Development Block, Staff from APART, AAU along with 30 number of both male and female farmers from Jorhat district were present in the meeting.

The Crop Cafeteria is a replicated trial of different (traditional, prevalent or newly introduced) rice varieties at a particular place to enable the stakeholders/ farmers to select a suited one of their preference in a particular region/agro-climatic zone.

Experimental design: RBD

Number of replication:3

Number of varieties: 24

Plot size: 5mx5m

Total area per variety: 75 m²

The total 24 varieties were planted under rice variety cafeteria at RARS Titabar including 10-STRVs, 6-PQRVs, 7-HYVs and 1-SDWR.

Sowing and transplanting date:

- Batch number 1: Date of sowing (01.06.2022) and Date of transplanting (08.07.2022).
- Batch number 2: Date of sowing (11.06.2022) and Date of transplanting (13.07.2022).
- Batch number 3: Date of sowing (23.06.2022) and Date of transplanting (15.07.2022).

The main focus of different stakeholders was on spot varietal evaluation based on important yield parameters such as plant height, number of tillers, pest and disease resistance, grain type, grain colour, number of grains per panicle and other crop characteristics. The variety evaluation also created awareness about different STRVs and PQR varieties.

The male and female farmers were given different colour tags for positive and negative voting. The programme was appreciated by everyone present and was concluded by a vote of thanks by Dr. Debanand Das, Alternate Nodal Officer, APART, AAU and Dr. Gitasree Goswami, Project Associate, APART, RARS, Titabar. Mrs. Munna Saikia, Research Technician helped in smooth conduct of the programme.



Contributors:



Dr. A. K. Medhi,
Incharge, APART,
RARS, Titabor



Dr. Gitasree Goswami,
PA, APART,
RARS, Titabor



Munna Saikia,
RT, APART,
RARS, Titabor

CROP CUTTING-CUM-FIELD DAY PROGRAM ON LEARNING CENTRE DEMONSTRATION, SALI SEASON RICE, 2022, ORGANIZED BY RARS, SHILLONGANI, NAGAON

A crop cutting-cum-field day at Learning Centre Demonstration (LCD) plot along with Postharvest demonstration program was conducted on November 9, 2022 in the village Putani Kumargaon under the supervision of Dr. Sharmee Gogoi (Project Associate) and Mr. Partha Protim Borah (Research Technician), APART. The program started with a welcome speech. Dr. Dinesh Hazarika, Principal Scientist was also present in the program who delivered his valuable speech on Stress Tolerant Rice Varieties, Ranjit-Sub1, Swarna-Sub1, Bahadur-Sub1, BINADhan11 and its role on economical growth of the farmer. Mr Janmejay Biswal, Research Technician, IRRI explained the importance of moisture metre and the uses of Super bag for storage.

Similarly, On November 10, 2022, two field day-cum-crop cutting programs were conducted at Learning Centre Demonstration plots of Mr. Toseswar Borah and Mr. Prabhat Bhuyanin at village Dolibari and Bhomoraguri, respectively. Dr. Arunima Deb Choudhury, State Consultant, NFSM and Honorary Consultant, APART also attended the program and described about the importance of right selection of varieties, timely water and weed management, disease and pest management to the participants.

During crop cutting program, various growth and yield attributing characters, viz., plant height, effective tillers per metre square, grains per panicle, straw weight, etc. were measured from an area of 5 metre square.

Contributors:



Dr. Sharmee Gogoi
Project Associate,
RARS, Shillongoni, Nagaon



Partha Protim Borah
Research Technician,
RARS, Shillongoni, Nagaon

PARTICIPATORY VARIETAL EVALUATION OF NON REPLICATED RICE CROP CAFETERIA AT SENCHOWA CONDUCTED BY KVK, NAGAON

On November 07, 2022, a Participatory Varietal Evaluation of Non Replicated Rice Crop Cafeteria was organized at farmers field, Senchowa under Krishi Vigyan Kendra, Nagaon, APART. The programme was attended by Dr. Niranjana Deka, Head, KVK, Nagaon and Dr. Arunima Deb Choudhury, Honorary Consultant, Crops, ARIAS Society, APART along with 25 no of farmers including both male and female.

In the beginning of the programme Dr. Niranjana Deka, Head, KVK, Nagaon welcomed all the participants and briefly discussed about the objectives of the programme, about the different varieties being used for the trial, viz. Premium Quality Rice Varieties (PQRs), Stress Tolerant Rice Varieties (STRVs) and High Yielding Rice Varieties (HYVs). Dr. Arunima Deb Choudhury stressed upon the purpose of conducting Rice Crop Cafeteria and the importance of the trial. Then Ms. Priyanka Deka, Project Associate, APART, KVK Nagaon explained on how to evaluate the varieties by voting based on their performance. For performance evaluation, the farmers were given different coloured tags. The female farmers were given blue and pink coloured tags where blue was for positive vote and pink was for negative vote and the male farmers were given yellow and white coloured tags where yellow was for positive vote and white was for negative vote. The farmers were asked to select the varieties based on their preference both for good and poor performing varieties. Performance evaluation of all the varieties were calculated based on the number of votes and total scores obtained by the varieties. The programme concluded with a vote of thanks to all the participants.



Contributor:

Priyanka Deka
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APART, KVK Nagaon

