

APART: RICE WEEKLY **(30th Nov -5th Dec, 2020)**

Field day and crop cutting of Learning Centre Demonstration under Regional Agricultural Research Station, North Lakhimpur

A field day on Learning Centre Demonstration (LCD) of paddy variety Ranjit-Sub1 planted in Sali season 2020 under APART was organized at Haribor Naharani village of Naoboicha Development Block Lakhimpur on 3rd December, 2020. The field day was attended by Mrs Yater Das, Jr. Scientist (PBG), RARS, North Lakhimpur, Mr Gautam Roy Chaudhury, ADO, Naoboicha Block, Ms. Porismita Dutta, PA, APART, Mr. Champak Saikia, RT, APART and Sanjay Kr. Yadav, RT-IRRI, APART. Mrs Yater Das briefed on the significance of STRVs in the flood prone areas, its benefits and how the farmers can be benefitted. Observations on various growth and yield attributing parameters such as plant height, number of grains per panicle, number of filled and unfilled grains per panicle, number of effective tillers per plant, panicles per sq. m etc., were recorded. The variety resulted in average grain yield of 5.2t/ha. The attendees along with the beneficiary Mr Mohendra Gogoi were satisfied with the performance of var Ranjit-Sub1 as the area was not suitable for local varieties due to flood but Ranjit-Sub1 showed optimum performance overcoming all the adversities.

Contributor: Ms. Porismita Dutta, Project Associate, APART, RARS, North Lakhimpur



Field day and Crop cutting of LCD at Haribor Naharani, Naoboicha Ddevelopment Block, Lakhimpur



Field day at Cluster demonstration (paddy variety, Ranjit-Sub 1) under KVK, Lakhimpur

A field day programme was organized by Krishi Vigyan Kendra, Lakhimpur under APART on 4th Dec, 2020 on paddy variety Ranjit-Sub1. This field day-cum-crop-cutting was done at village Bokanadi under Nowboicha Development Block to disseminate the technology among farmers by showcasing its flood tolerant character along with its better yield performance. Ms Mouchumi Dutta Project Associate, APART interacted with the farmers and explained the ongoing APART activities under KVK. She also tried to draw the farmers' attention towards innovative cropping system approach and use of mechanization, by explaining their benefits over conventional

practices. The field day was also attended by Mr. Gautam Roy Choudhury, ADO Nowboicha Development Block who discussed the important features of STRVs and paddy procurement process under APART project.



Crop-cutting of Ranjit-Sub1

The said programme was successfully completed in the presence of total 53 farmers including women. The demo farmer Mr. Lachit Borgohain shared his experience and feedback regarding cultivation of Ranjit-Sub1, with the farmers of nearby villages and was fully satisfied with the performance of flood tolerant rice variety, Ranjit-Sub1. A crop cutting exercise was also carried out by Mr. Durlov Bora, Research Technician, APART and Mr. Sanjay Kumar Yadav, Research Technician, IRRI, and the observations on different parameters like plant height, panicle length, biomass yield, grain yield, etc. were also recorded and the average yield of paddy demonstrated plot was recorded as 5.9 ton/ha.

Contributor: Mouchumi Dutta, Project Associate, KVK, Lakhimpur



Demonstration of Post-Harvest machinery at Phulguri village on 28th November, 2020 under APART, KVK, Nalbari



A demonstration programme on Post-harvest machinery was conducted successfully at Phulguri village of Nalbari district on 28th November, 2020 under APART, by KVK, Nalbari on paddy variety **Ranjit-Sub1** in the presence of 30 participants. The programme was successfully completed in the presence of Mr. Pranjit Bharali, Asst. Project Scientist, APART, KVK Nalbari. During the programme, the APART team interacted with the farmers and discussed about the Custom Hiring Center (**CHC**) and different machineries related to rice value chain. The IRRI Specialist, Mr. Amlandeep Saikia was also present during the programme, who explained the major features and benefits of the reaper machine for harvesting paddy crop. Mr. Rupam Deka, Research Technician, APART, KVK, Nalbari demonstrated the Reaper.

Demonstration of Post-Harvest machinery at Panigaon village on 4th December, 2020 under APART, KVK, Nalbari

A demonstration programme on Post-harvest machinery was celebrated successfully at Panigaon village of Nalbari district on 4th December, 2020 with a new height adjustable reaper under APART by KVK, Nalbari on variety, **Ranjit-Sub1**, in the presence of 30 participants. The Programme was successfully completed in the presence of Mr. Dipankar Kalita, Project Associate, APART, KVK Nalbari. During the programme the APART team have interacted with the farmers and discussed about the Custom Hiring Center (**CHC**) and different machineries related to Rice value chain. Mr. Amlandeep Saikia, Specialist, IRRI, was also present during the programme, who explained the major features and benefits of the reaper machine for harvesting paddy crop. Mr. Rupam Deka, Research Technician, APART, KVK, Nalbari gave the demonstration of Reaper.



Paddy crop cutting programme on Head to head demonstration, at Ghograpar on 4th December, 2020 under APART, KVK, Nalbari

A paddy crop cutting program was successfully conducted at Ghograpar area of Nalbari district on 4th December, 2020, on Head to head (H2H) demonstration, paddy variety **Ranjit-Sub1** under APART, KVK, Nalbari. On that particular occasion, the Assistant Project Scientist, Mr. Pranjit Bharali, APART, KVK Nalbari interacted with the farmers and discussed about various new technologies & different STRVs introduced under APART. Mr. Bharali also discussed about the sequential cropping and relay cropping system with the f



Mr. Biswajit Gogoi, Research Technician, APART, KVK Nalbari helped in organizing the paddy crop cutting programme. The APART team has also observed various parameters of that particular field like plant height, total biomass yield, grain yield, straw yield, grains/panicle, test weight, etc. The average yield of the particular plot was calculated and it was 5.9 t/ha.



Mr. Dipankar Kalita, PA, APART, KVK, Nalbari



Mr. Pranjit Bharali, APS, APART, KVK, Nalbari

Contributors

Field day on Learning Centre demonstration along with crop cutting, APART, RARS, Titabar

A field day programme was organised at Barpasi village, Jorhat district on 4th December, 2020, at Learning Centre Demonstration (LCD) plot, paddy variety Ranjit–Sub1 under APART. The programme was attended by Dr. Pradip Chandra Dey (Principal Scientist, Crop Physiology, RARS, Titabar); Dr. Ajay Kumar Medhi, Principal Scientist, Crop Physiology cum Farm Manager, RARS, Titabar; Dr. Rituraj Saikia, Junior Scientist, Entomology, RARS, Titabar; Ms. Jutika Das, Project Scientist, APART; Mr Devamitra Tarafdar, Project Associate, APART, RARS, Titabar and Mr Rajib Sahu Research Technician, APART, RARS, Titabar. A total number of 57 farmers including male and female have participated in the field day. The programme was initiated by Mr D. Tarafdar, who gave a brief idea about the purpose of the programme to the participants.



Contributor: Mr. Devamitra Tarafdar, Project Associate, APART, RARS, Titabar.



Dr. A. K. Medhi and Dr. P.C. Dey had an interactive session with the farmers where they provided useful information regarding the benefits of the various introduced technologies to the farmers, under APART. They also described about the STRVs and solutions regarding various farming problems. Dr. R. Saikia suggested various useful methods to the farmers for controlling rice pests. After the in-house session, the APART personnel along with the farmers visited the demonstration field for a crop cutting session. Mr. R. Sahu, carried out the crop cutting with the help of the farmers. During the crop cutting programme, various parameters of the crop such as plant height, total biomass yield, grain yield, straw yield, grains/panicle, test weight etc were recorded by the APART staff. The average yield of the particular plot was found to be 6.1 t/ha.



Zero till sowing of mustard, lentil and pea after harvesting of paddy- a rice based cropping sequence using GIS & Remote Sensing

After harvesting of paddy most of the fields are kept fallow in Assam for animal grazing. In this year 2020, an initiative has been taken by the International Rice Research Institute (IRRI) in under APART by sowing of mustard, lentil and green peas after harvesting of paddy by using fluted roller seed-cum-fertilizer drill and inclined plate crop planter seed-cum-fertiliser drill.

After harvesting of paddy there is sufficient moisture available in rice fallow fields, where crops like mustard, lentil and green pea can easily be grown in the retained soil moisture after paddy harvest. The main objective is to increase the cropping intensity and net income of the farmers.

On 1stDecember, 2020 at Chakalaghat village of Nagaon in Mr Dip Bora's field sowing of these three crops was completed.



Crop cutting & field day on Cluster demonstration



Harvesting of Ranjit-Sub1 on Cluster demonstration was conducted under World Bank financed APART by KVK, Nagaon. The programme was conducted on a Cluster Demonstration of paddy at Miribheti village under Kaliabor Block of Nagaon district, Assam, on 3rdDecember, 2020 to showcase the performance of Ranjit-Sub1 among the farmers. The crop cutting experiments were carried out in the rice fields of Mr. Ajit Hazarika and Mr. Bhodeswar Hazarika. Along with crop cutting, a field day was celebrated with 25 farmers of the village on the same day. Assistant Project Scientist, Bidisha Borah and Research Technician, Durlov Chandra Kalita organised the program. After a brief discussion with the farmers, the APART personnel along with farmers went to the field for crop cutting session. The average yield of the particular plot was found to be 5.1 t/ha.

Contributor: Bidisha Borah, Assistant Project Scientist, APART, KVK, Nagaon



Inauguration of custom hiring centre along with training and demonstration on post harvest machineries held under KVK Sonitpur

A Custom Hiring Centre (CHC) was inaugurated at village Seunichuk, Jamuguri under APART, KVK Sonitpur on 4th December, 2020. The programme was attended by a total of 80 farmers from the village and nearby areas. Dignitaries from AAU and IRRI attended the programme. Dr. P.C. Deka (Head, KVK Sonitpur) welcomed the dignitaries and farmers and other participants. He also highlighted the basic objectives and criteria of the programme. The inauguration ceremony was also attended by Dr. Manoranjan Neog, ADEE (T), AAU, Jorhat, Dr. K. K. Nagle, (Director, NER-FMTTI, Biswanath Chariali), Dr. Kanwar Singh (Resident Consultant, IRRI), Dr. Suryakant Khandai (Associate Scientist, Post-harvest machineries and Rice value chain, IRRI) and other dignitaries from Department of Agriculture.



A training programme on post-harvest machineries was also conducted. Dr. Kanwar Singh, Resident Consultant, IRRI highlighted the use of machineries in different post-harvest activities and urged the farmers to take up different post-harvest operations using machines to reduce labour cost, time and drudgery. A demonstration programme was also carried out with the help of a reaper in the field of Mr. Anjan Nath. The farmers expressed their satisfaction over the performance of the machineries and were keen to take up such activities with the help of machineries in future. Ms. Roji Chutia (SMS, Agonomy), Dr. Namita Dutta (SMS, Soil Science), Mr. Rajiv Singh (Farm Manager), Mr. Dibyarishi Bhattacharyya (Junior Researcher, IRRI), Mr. Nitesh Gupta (Project Scientist, APART), Ms. Rupsikha Goswami (Asst. Project Scientist, APART), Mr. Goutam Borah and Mr. Parikhit Mudoi (Research Technician) of Krishi Vigyan Kendra, Sonitpur also attended the programme.

Contributor : Rupsikha Goswami, Assistant Project Scientist, APART, KVK Sonitpur



Field day of Learning Centredemonstration under Krishi Vigyan Kendra, Kamrup

Three field days on LCD-Premium Quality Rice (PQR) and one field day on LCD-Ranjit-Sub1 paddy were organized at village Dharampur, Bongshar, Dolegaon and Bartari on 2nd, 3rd and 4th December, 2020, respectively, in the presence of around 50 farmers/farm women from the locality in each field day. Ms. Komedity Chamua (Assistant Project Scientist, APART, KVK Kamrup) addressed the gathering. Dr. Munmi Bora, Project Associate, APART, briefly informed the farmers about the Krishi Vigyan Kendra, Kamrup as well as about the ongoing APART activities along with other related International Organizations and their technological guidance. Dr. Dharendra Nath Kalita (Head, Krishi Vigyan Kendra, Kamrup), Mr. Rizwanul Helim (Subject Matter Specialist, Krishi Vigyan Kendra, Kamrup) were also present during field day programme. The programme was organized with an objective to imbibe scientific knowledge among the farmers regarding importance of Stress Tolerant Rice Varieties, Paddy Procurement Center, Custom Hiring Center (CHC), integrated agriculture, entrepreneurship for doubling farmers income as well as the need of farm mechanization.



Field day at village Dharampur of Rani block



Crop cut of 5 m² area LCD-PQR at village Dharampur of Rani block



Field day at village Bongshor of Sualkuchi Block

After the crop cut programme it was calculated that LCD- PQR yielded 2.85 t/ha (9.5 mon/bigha), 3.1 t/ha (10.50 mon/bigha), 3.1 t/ha (10.54 mon/bigha) and LCD-Ranjit-Sub1 yielded 4.5 t/ha (15 mon/bigha) in the field of Mahendra Choudhury, Dhaneswar Das, Bishnu Kalita and Govinda Kalita respectively. The farmers who had used the package of best management practices in the learning Centre demonstrations shared with the positive feedback to his fellow farmers. The attendee farmers were highly encouraged and very enthusiastic to adopt these new technologies in the coming years for increasing their productivity & profitability.

Many farmers asked their queries and possible solutions were suggested by the scientists in the programme. The importance and usage of IRRI Super bags for hermetic storage of grains was demonstrated and super bags were distributed among the farmers. Mr. Ananta Gogoi (Research Technician, APART, KVK, Kamrup) and Mr. Arup Jyoti Kakati (Research Technician, APART, KVK, Kamrup) carried out the crop cutting session where various yield-attributing characters like plant height, number of hills per square metre, number of effective tillers per hill, grains per panicle, biomass yield and grain yield from 5 m² area were collected.



Crop cut of 5 m² area LCD-PQR at village Dolegaon of Chayani Barduar block



Field day at village Bortari of Rampur block

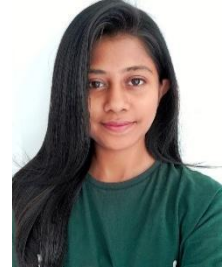


Crop cut of 5 m² area LCD-Ranjit-Sub1 at village Bortari of Rampur block

Contributors :



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**Ms. Komedity Chamua,
APS, APART, KVK Kamrup**
