



Newsletter

Q2 (Apr – Jun, 2021)



Shri H. R. C. Prabhu

From the desk of Sr. Scientist & Head I/c,

Rice is the staple food of Goa. The crop is cultivated over an area of 41,970 ha with a production of 118,000 Tonnes annually. The average productivity of the crop is about 2,830 kg/ha. The crop is being cultivated both in Kharif (Sod) and Rabi (Vaigon) seasons, with an area of approximately 67 % and 33%, respectively. Goa has at least 16, 000 hectares of land under Khazan lands. Khazan cultivation is unique to Goa. In the olden times, the Portuguese had scientifically conceived the Khazan lands for both cultivations of paddy and Aquaculture, pisciculture, and fish. Due to high salinity in these lands, The ICAR-Central Coastal Agricultural Research Institute, Old Goa, Goa has released following salinity tolerant rice varieties paddy varieties for coastal region. The characters are as follows,

Goa Dhan 1 High yielding salinity tolerant rice variety suitable for coastal saline soils Duration : - 130 – 135 days Yield: - 27 – 29 q/ha (salinity condition) 45 – 50 q/ha (normal condition)	Goa Dhan 2 High yielding salinity tolerant rice variety suitable for coastal saline soils Duration : - 125 – 130 days Yield: - 28 – 30 q/ha (salinity condition) 40 – 45 q/ha (normal condition)
Goa Dhan 3 High yielding salinity tolerant rice variety suitable for coastal saline soils Duration : - 120 – 125 days Yield: - 30 – 35 q/ha (salinity condition) 50 – 55 q/ha (normal condition)	Goa Dhan 4 High yielding salinity tolerant rice variety suitable for coastal saline soils Duration : - 125 – 130 days Yield: - 30 – 35 q/ha (salinity condition) 50 – 55 q/ha (normal condition)

Celebrated “World Bee Day”

ICAR- Krishi Vigyan Kendra, North Goa and ICAR-Central Coastal Agricultural Research Institute CCARI, Goa, celebrated “World Bee Day” on 20th, May 2021. A one-day programme entitled ‘Augmenting rural income: The Beekeeping way’ was organized virtually at ICAR-CCARI Goa. Dr B L Kashinath, Principal Scientist and Head, KVK, North Goa, welcomed the guests and briefed about the training program. Dr Lakhan Singh, Director, ICAR-ATARI, Pune, Maharashtra was the Chief Guest of the programme. Dr Parveen Kumar, Director, ICAR-CCARI, Goa, explained the background of celebrating World Bee Day on May 20 every year from 2018 and onward. He explained that United Nations Council accepted the proposal from Slovenia to celebrate 20th May, the birth anniversary a pioneer of beekeeping Anton Jansa, from Slovenia, as World Bee Day. The purpose to observe World Bee Day is also to acknowledge the role of bees and other pollinators in the ecosystem. The programme was attended by more than 55 participants, which included beekeeping farmers, officials of the Directorate of Agriculture, scientists, subject matter specialists, technical staff of the KVK, North Goa and the ICAR-CCARI, Goa. Dr. Lakhan Singh, Director, ICAR-ATARI, Pune, Maharashtra explained the significance of beekeeping in augmenting the income of farmers. He briefed the success stories of beekeeping with the example of Madhushakti which is start-up project initiated by 100 women in Pune since 2 years and now ventured into FPO with branding and marketing of honey and earning additional income to farming. He emphasized that the KVKs showcase beekeeping by having units on their campus for training and demonstration. He also urged to create network groups of beekeepers and providing common processing and marketing facilities to them.

In the technical session lectures on ‘Scientific Beekeeping for augmenting rural income’ by Mrs. Shishira Uttappa and

‘Meliponiculture - Beekeeping through stingless bees by Shri. HRC Prabhu, Subject Matter Specialist (Plant Protection) were delivered. These talks covered scientific bee-keeping husbandry practices, benefits, capital requirements, marketing, networking, branding and success stories of beekeeping and how to get maximum income etc. In the end conducted interactive session with farmers and scientists.



Inauguration of Seed Unit at KVK

ICAR - KVK North Goa has recently established a seed unit in its campus to mitigate the problem of unavailability of quality vegetable seeds in Goa. This seed unit was inaugurated by respected



Dr. Parveen Kumar, Director, ICAR – CCARI today at 10:30 am. Dr. B L Kasinath, Head, KVK – North Goa, ICAR welcomed Dr. Parveen Kumar by offering him floral bouquet. After that Director inaugurated the seed unit by cutting ribbon. He also unveiled seed kit and seed packet prepared by KVK. Mr. Dashrath farmer of Karmali village received a seed kit by Director. He also emphasized the importance of availability of quality seeds to Goan farmers at

affordable price and applauded the efforts of KVK staff in narrowing the gap to demand & supply of quality seeds in Goa. The programme was attended by entire staff of KVK.

Dr. Parveen Kumar, Director ICAR – CCARI, Old Goa visited KVK, North Goa campus



Dr. Parveen Kumar, Director ICAR – CCARI, Old Goa visited KVK, North Goa campus on 27/5/2021. Dr. B L Kasinath welcomed him with floral bouquet. During his visit to KVK interacted with staff regarding their duties and targets. He visited all the demonstration units of KVK such as Nursery unit, Virgin Coconut Oil Unit, Vermicompost Unit, Seed Unit. He also took a tour of KVK Administrative building, training hall & farmers hostel. He had also given valuable suggestion for KVK improvement and functioning.

Celebrated ‘World Milk Day’

ICAR – KVK, North Goa celebrated World Milk Day on 1st June, 2021 virtually. The theme of this year World Milk Day was “Sustainability in the Dairy Sector with message on Nutrition”. On this occasion several lectures were kept to promote dairy sector. The program started with welcome address by Dr. Monica Singh, SMS (Agril Extn.) along with brief on why to celebrate milk day. Shri H R C Prabhu, Head i/c, KVK in his address emphasis the importance of dairy in augmenting farmer’s income. Mr. Prasad Sambhari gave lecture on use

of digital technology in Dairy farming followed by lecture on feeding of bypass fast & hydroponic in dairy cattle by Mr. Sanjeev Kunkolienkar. Mr. Subhas Malik gave lecture on labour management dairy. Mr. Alerio Bothelo gave lecture on fodder management in dairy farm. Mrs. Sunetra Talaulikar, SMS (Home Science) highlighted the importance of value addition of milk. Lastly Dr. Sanjay Kumar Udharwar, SMS (Animal Science) gave detailed lecture on clean milk production. The program was attended by 20 dairy farmers. The program ended with vote of thanks by Dr. Monica Suresh Singh.



Farmers Awareness campaign on ‘Balanced use of Fertilizers & Vermicomposting’

ICAR – Krishi Vigyan Kendra, North Goa and ICAR – Central Coastal Agricultural Research Institute, Goa, organized a webinar as a Farmers Awareness campaign on ‘Balanced use of Fertilizers and Vermicomposting’ on 18th June, 2021 through virtual mode following all the SOPs of the COVID-19. The programme was organized in commemoration of India's 75 years of Independence as Bharat Ka Amrut Mahotsav. Hon’ble Shri Shripad Naik, Union Minister of State, Ministry of AYUSH and Minister of State for Defence, Government of India graced the occasion as Chief Guest. The average fertilizer NPK use of the State of Goa is 38 kg/ha which is considered as a suboptimal application. Poor crop growth and yield due to the multinutrient deficiency further aggravates due to the suboptimal use of fertilizer and this led to low productivity of most of the crops in the State. Thus, a programme was organized with an aim

raise the awareness among the farmers about the balanced use of the fertilizers and how to do vermicomposting. Almost 75 participants comprising of farmers, scientist, staff of KVK and other stakeholders attended the programme. Participants from remote areas of Andaman and Nicobar Island also actively participated and interacted during the webinar. Dr. Monica Suresh Singh, SMS (Agricultural Extension), ICAR – KVK, North Goa, welcomed and elaborated about the background and importance to organize the programme.



Hon. Shri Shripad Naik, Chief Guest, in his address, referred to the Vedas for the scientific agricultural practices for the sustainable agricultural development. He also highlighted upon how soil health and human health are strongly interlinked which is also one of the important aspect of AYUSH. He stressed upon the soil fertility related constraints of the State of Goa and need to correct it through scientific approaches. He urged the farmers to do soil testing and ensure a balanced use of fertilizers through soil test based fertilizer application. He complimented the efforts of the ICAR-CCARI and its contribution to agricultural development in the State of Goa.



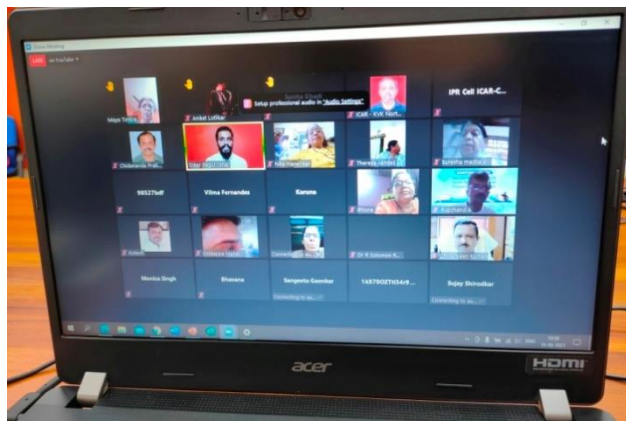
Dr. Parveen Kumar, Director, ICAR – CCARI, Goa welcomed the Chief Guest. In his welcome address, he signified the importance of balanced

use of the chemical fertilizers to improve the agricultural production, productivity and farmers income. He highlighted upon the need to use the fertilizer sources of nutrients owing to the poor fertility of soils resulting in poor crop productivity. He presented the significant achievements of the Institute and its role in sustainable agricultural development of State of Goa to make it self-reliant. In the context of the programme, he highlighted the information technology tool developed by the Institute, ‘Fertilizer Calculator Goa’. It is a dedicate mobile application for the farmers of the State of Goa and adjoining coastal region to assist in decision making of smarter and balanced use of fertilizers. Further, he told about the research and development done by the Institute on developing the organic agricultural practices for different crops. The technical session covered ‘Vermicomposting’ by Shri Shashi Vishwakarama, Technical Officer (Soil Sciences), ICAR - KVK, North Goa, and ‘Balanced use of fertilizers’ by Dr. Gopal Mahajan, Scientist (Soil Science), ICAR – CCARI, Goa. Through the technical session a know-how of vermicomposting on different aspects and use of tools like fertilizer calculator app for balanced fertilizer use were covered. The programme ended with vote of thanks by Dr. Monica Suresh Singh, SMS (Agril. Extn.), ICAR – KVK, North Goa. Mr. H.R.C. Prabhu, Sr. Scientist and Head Incharge, ICAR - KVK, North Goa, coordinated the overall programme.

Online awareness program on “Yoga for Respiratory & Immunity”

An online awareness program on “Yoga for Respiratory & Immunity” was organized on 19th June, 2021, for the benefit of farmers, farm women, staff of Krishi Vigyan Kendra and ICAR – CCARI, Old Goa. The program started with a brief introduction by Mrs. Sunetra Talaulikar, SMS (Home Science), told about present day

challenges to fight against COVID -19 pandemic and the stress management. Shri H R C Prabhu, Sr. Scientist and Head I/C, welcomed all the dignitaries and participants, spoke on the importance of Yoga in life. Dr. Parveen Kumar, Director, ICAR – CCARI in his address briefed on the science of yoga its role in increasing immunity of our body to fight the pandemic and also fitness of mind.



Shri. Dikar Pagui, Yoga Veera from Isha Foundation, spoke on Sadguru Yoga and its benefits in boosting immunity. He also demonstrated Simhakriya, Shrashtanga and Makarasna to enhance lung capacity and to improve immunity.

The program ended with vote of thanks by Dr. Monica Singh, SMS (Agri. Extension) and was attended by 70 participants.

Programme on Vermicomposting Technology under Schedule Tribe Component



A Programme on Vermicomposting Technology under Schedule Tribe Component was organized at Devkond, Dharbandora, on 22-

06-2021. Shri Milindra Velip, BDO, Dhardandora, in his welcome address told about the benefits of Vermicomposting technology as an enterprise for rural women. Smt Swati Tilve, Sarpanch and Smt Sunita S. Gaonkar, Panch, Devkond, also attended the programme. Vermibeds were distributed to all 30 participants initiate vermicomposting.

Program on planting materials, seed kits, Vermicomposting & Value addition of local fruits under SCSP

A program on planting materials, seed kits, Vermicomposting & Value addition of local fruits under SCSP was organized at Zonal Agricultural Office, Valpoi on 23/06/2021.



Mr. Vishwanath Gawas, Zonal Agricultural Officer in his welcome address thanked ICAR – KVK, North Goa for selecting Valpoi block for the program and told about the State Government Schemes. Mr. H.R.C. Prabhu, Sr.Scientist & Head I/C, briefed the activities of KVK, specifically on vermicomposting and the procedure of composting were explained to the farmers.

Mrs. Sunetra Talaulikar, SMS (Home Science) spoke on value addition of local fruits like jackfruit, kokum & cashew and to empower the rural women. Ten farmers were given inputs required for processing of fruits and detail technical information.

Mr. Shashi Vishwakarma, Technical Officer (Soil Science) talked about the

importance soil testing and soil health card. He also explained the management practices in different fruit and spice crops. At the end of the program fruit plants, spice plants and vermibeds were distributed to SC farmers. The program was attended by 60 farmers and Mr. Bhat from ZAO proposed vote of thanks.

Jackfruit Processing

Goa is a small state located on the western ghats of India with lot of biodiversity. Jackfruit is an underutilized fruit and lot of fruit gets wasted in villages. Jackfruit has been identified as fruit for North Goa under “One District One Product” by Ministry of Food Processing, hence lot of potential for value addition and processing for improvement in rural economy of the state.

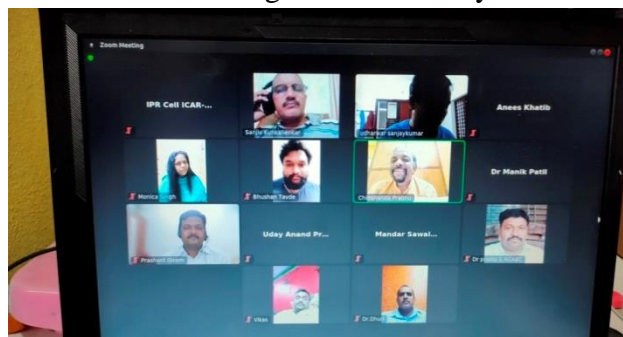


Keeping this in view KVK organized 03 training program on 23rd, 25th & 28th June, 2021 in collaboration with ATMA – North Goa on Jackfruit Processing. Different value-added products like jackfruit pickle, halwa, squash etc, were demonstrated to the participants. Jackfruit has been identified as super food today which was neglected earlier. Due to its nutritive value, it will be an important fruit crop in future. The program was attended by 20 participants from Sattari taluka and hands on training was imparted to them. Jack meal was also prepared from jackwine to jackfruit dessert that included jackfruit biryani, cutlet, paratha, momos, jack seed kheer, patolli, jackfruit chilly & jackfruit pickle. Participants were motivated to take up this as an enterprise.

Webinar on “Advance breeding technique and bypass fat”

ICAR – KVK, North Goa, ICAR – CCARI, Goa, organized a webinar on “Advance breeding technique and bypass fat” on 28-06-2021. Dr. Prashant Giram, Veterinary Consultant, Animal Genetics and Breeding, was guest speaker and spoke on sorted semen technique for improving the breeds.

Dr. Sanjaykumar Udharwar, Subject Matter Specialist (Animal Science), ICAR – KVK, North Goa, in his lecture briefly talked about Bypass fat & mineral mixture and coordinated the programme. Shri HRC Prabhu, Sr. Scientist and Head Incharge, ICAR – KVK, North Goa, in his concluding remarks thanked the speakers for sharing innovative techniques information among Goan Dairy farmers.



Four Awareness Programmes on “Balanced use of fertilizers”

Four Awareness Programmes on “Balanced use of fertilizers” were organized on 30-06-2021 at Cumbharjua and Corlim villages.



Shri HRC Prabhu, Sr. Scientist and Head incharge in his address explained the activities of KVK. Shri Shashi Vishwakarma spoke of Soil Sampling methods and its analysis. Dr. Gopal Mahajan, Scientist (Soil Sciences), talked on Balanced use of Fertilizers in paddy and other crops.

Shri Siddesh Naik, ZP Member, appreciated the activities of KVK and urged the farmers to utilize their services. The programme was attended by around 150 farmers following all SOPs of Covid – 19.