

5th Farming
2022

**3rd National
Conference**

POST EVENT REPORT



**Realigning Indian Agriculture
for a Sustainable Future**
March 10-12, 2022,
Bhubaneswar, Odisha

ORGANIZERS



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INTRODUCTION

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ATPBR* together with the Kalinga Institute of Industrial Technology (KIIT) Bhubaneswar, Odisha organized its 3rd National Conference in the 5F Farming series on the theme “Realigning Indian Agriculture for a Sustainable Future” from 10-12 March, 2022 at the KIIT campus, The Indian Council of Agricultural Research (ICAR), Odisha University of Agriculture & Technology (OUAT), Advanta India Ltd, I&B Seeds Pvt Ltd, Institute of Life Sciences (ILS) and Rama Devi Women University were supporting organizations.

The ‘5F FARMING’ has its emphasis on contributions of crop improvement and scientific crop management practices towards enhancing the availability and accessibility of ‘Food, Feed, Fiber, Fuel and Fine chemicals.

Deliberations by eminent professionals comprising of industrialists, researchers and farmers along with distinguished delegates and academicians educated the participants on the latest advancements in the fields of genetics, agronomy, water use efficiency, farm automation, artificial intelligence in agriculture, plant protection etc. Over 250 delegates from 52 Organizations and 11 States representing major national geographical regions including Karnataka, Maharashtra, Telangana, Andhra Pradesh, Madhya Pradesh, Uttar Pradesh, Haryana, Punjab, Chhattisgarh, Delhi, Bihar, Orisha, benefited from the deliberations.

SUMMARY

Attendees from national and multinational seed companies like Advanta, Rasi Seeds, I&B Seeds, Syngenta, Indo American Hybrid Seeds, United Genetics, Vachan Seeds, Akshara Seeds & Services and also from KIIT, OUAT showcased their latest technical capabilities in an exhibition. This conference brought together industry experts, senior scientists, educationists, marketing professionals and farmer representatives to deliberate on current status and future prospects in important areas like 1) Technology platforms for speedy & precise crop improvement, 2) Potential of improved agronomy and breeding to meet needs of farmers especially small holders, 3) Policy, Skill and Infrastructure development to help to know what is the latest in these areas and what needs to be done, and 4) Marketing Challenges faced by the small farmers, like labour shortage, low prices for their produce etc. National and Multinational seed companies like Advanta, Rasi Seeds, I&B Seeds, Indo American Hybrid Seeds, United Genetics, Vachan Seeds, Akshara Seeds & Services and many more showcased their latest technical capabilities, product portfolios and explored opportunities for collaboration. Progressive farmers and students were the major beneficiaries of this conference. The key outcome of the deliberations is listed under recommendations below



Fig 1. Conference was inaugurated by Dr. Trilochan Mohapatra, Secretary, Department of Agricultural Research and Education & Director General, ICAR, on March 10, 2022, There were around 250 participants representing major national geographical regions including Karnataka, Maharashtra, Telangana, Andhra Pradesh, Madhya Pradesh, Uttar Pradesh, Haryana, Punjab, Chhattisgarh Delhi, Bihar, Orisha representing 52 organizations that benefited from the deliberations.

** Foundation for Advanced training in Plant Breeding (ATPBR) is a non-profit organization working to strengthen plant breeding capacity in India. The main focus area is to provide 1, advanced plant breeding training, 2, organize conferences, workshops and awareness sessions, 3, technology liaising, 4, customized training program for industries and help leverage technology to transform farmers` productivity for better profitability.*

KEY RECOMMENDATIONS OF THE CONFERENCE

Session 1: Inauguration

- **Dr Trilochan Mohapatra, DG, ICAR**, focused on how sustainable agriculture is helping reduce carbon, chemical and water footprints. Rural engagement is helping alleviate poverty among rural farmers and recommended that data on such indicators needs to be stringently followed.



- **Dr. Jackie Hughes DG, ICRIASAT** in her virtual address focused on the need of modernizing agriculture and food systems – including farm automation for small farmers. She also emphasized on need to improve supply chains, create infrastructure for rapid generation advancement in breeding and building new research partnerships.

Conclusions were, 1. technology helped farmers to achieve higher yield, but income

Session 2: Sustainable crop improvement

- **Mr. Ram Kaundinya, DG, FSII**, in his talk on 'Future priorities for seed industry' made it clear that the industry needs to ensure meeting the aspirations of various economic layers of the users of the seeds. Key points were:
 - By 2030, Indian seed industry should aim for attaining \$ 8 billion in size, with \$ 1.4 bn. in exports, Export business should be around 10% share of the global trade.
 - Focus on delivering high performing cultivars in combination with higher nutrition.
 - Focus on improvement of "neglected" crops and open-pollinated varieties. NBPGR needs to collaborate with industry
- Among GM crops, herbicide-tolerant traits should be allowed.
- Poor respect for IPR in the industry needs improvement
- Expanding seed production facilities is a priority in order to meet the demand, especially for exports. Need to expand into non-traditional areas.
- Need to have a greater number of ISTA and other accredited laboratories.
- Prashant Belgamvar, Head Business, South Asia, Advanta Seeds, showed how they are securing small farmers' prosperity with value-chain partnerships under which 65,000 farmers will be given commercial seed production contracts. Advanta helps in sustainability by innovation – single & multicut forage crops; early maturing 105 days rice; nutri gardens for small farmers; drip irrigation and mulching in solanaceous vegetables; biodegradable packaging and multiple virus resistant okra
- **Dr B. M. Khadi, Ex Dean, UAS, Dharwar** while talking on role of genetically modified crops emphasized that regulatory approval of GM crops is essential so that innovations like Camelinasativa – a Brassica oilseed crop that is rich in Omega-3 fatty acids, and modified "amarantin" – derived from Amaranthus that is comparable to captopril in its action in the management of hypertension/ cardiac conditions reach farmers and consumers.

Session 3: Modern Technology & Biotic Resistance (GMO & Non-GM)

- **Dr. Kshirod K. Jena - Former Principal Scientist - IRRI, Manila, Philippines** and Professor Emeritus, School of Biotechnology, KIIT University indicated that three gene pools from Oryza species confer broad-spectrum disease & insect resistance in rice. He also specified that some species help obtain 2-3 times higher yields under lesser inputs. Investments in pre breeding are necessary as these are long term projects
- **Mr. Rajkumar Joshi** discussed about his successful attempts to develop Anthracnose resistance in Chilli using CRISPER/CAS 9 technology – achieved through targeted mutation (knocking out) of CaERF28. Main recommendation was that STU is an efficient editing system, but IP is a major concern.
- **Dr. Radhamani Anandalakshmi- Vice President (Research), I & B Seeds Pvt Ltd** emphasised that modern technologies like DH, MAB, tilling, Random mutagenesis, Gene editing and others futuristic technologies are very effective to develop non-GM crops more precisely and quicker than before.

Session 4: Sustainable Farming - Agronomy Interventions

- **Dr. CL Laxmipathi Gowda**, *Former Deputy Director General- ICRISAT*, and Co-Founder, GRSV Consulting Services, recommended that instead of going full steam with organic farming, limited use of specific agrochemicals (organic and other fertilizers) within established safety levels for health should be recommended to farmers. Key elements are 1. minimum or no tillage, 2. permanent soil cover/mulch using crop residues, 3. crop rotation or/and associations. Also, recommended small farm machineries to seed under no-till condition and use of non-persistent herbicides for weed control.
- **Mr. Shekhar Bhadsavle** - *Founder and Managing Trustee, Saguna Rice Technique (SRT) and Saguna Rural Foundation (SRF)* spoke on his successful 'no till sustainable farming for soil conservation & higher farm incomes'. He proved that water retention and water holding capacity is much higher in no-till soil than conventional tilled soil and it improves organic carbon content from 0.3 to 1.5 percent.
- **Dr. Binay Kumar Choudhury** - *Chairman, Control Union Inspection and Certification India Pvt Ltd.*, recommendations on Certification process for organic farming were:
 - Organic agriculture (OA) practices are suitable for a few small farmers only
 - OA is more feasible in perennial horticulture and plantations crops
 - Balanced use of organic and inorganic (bio-organic) inputs is the most sustainable way to succeed in OA
 - For exporting organic products- strict adherence to importing company organic certification process is required. GMO and any pesticides traces are not allowed while testing with 700+ organic certification tests.
 - Traceability is most important in organic farming.
 - Three main pillars of organic certification are - environmental protection, social equity, economic viability.

Session 5: Panel Discussion: Seed Delivery Systems

The Panel discussions was moderated by

Mr. Sharad Deshpande, Managing Partner, Silvia Seeds Inc.

1. **Mr. R Mallikarjun**, *Managing Partner, Atlas Seeds* focused attention to following areas in commercial seed production
 - a. Easy and quick accessibility of seed certification labs and access to easier quarantine certification to make Indian Seed Producers competitive
 - b. Emerging opportunity in Leh for seed production. Dry and optimal temperature from May to August can be favourable to develop off season seed production there.
2. **Dr Hari Gopal Krishna Gutlapalli**, *Team Lead -PD, Kaveri Seeds* showed how efficient trialing system is the backbone for identifying new promising products. Attention needs to be given to maintenance breeding, quality seed production to ensure success of new products

3. **Mr. Kiran Gubba**, CEO, Gubba Cold Storage mentioned how to enhance traceability of seed value chain (seed production and multiplication, seed distribution and marketing, warehousing, processing and packaging) by integrating innovation with digital technology.

Session 6: Panel Discussion – FPO's and Sustainable Marketing for Ensuring Higher Farmer Income

Moderated by **Dr. Suren Tikoo**, *Co-Founder & Director Research – Breeding & Development, Tierra Seeds Pvt Ltd Director.*

Dr. Partha Das Gupta (Former Director, Syngenta Foundation, India) emphasised that Government mission to launch 10,000 FPOs, across the country to be facilitated by SFAC, NABARD and other agencies, is a commendable initiative. But it is important to do critical assessment of performance of the existing FPOs, and to determine the course of action for those that are not up to the mark, or soon likely to become non-viable. He also said that considering the fact that there are 75 to 80 million smallholder farmers in the country, 10,000 is too small a number, if each FPO had to have 1,000 members.

Dr. B. R. Athani - *Founder Chairman, Gramachetana Organic Crop Producers Co-op Ltd, Bagalkot* stated that the primary objective is to double the income of small and marginal farmers over the next 3 years. This involves following comprehensive and inclusive interventions. I) conducting an analysis with involvement of farming communities using the specially designed tool (by WOTR) to understand how these communities in dry land terrain may be vulnerable to climate change. II) to incorporate appropriate mechanisms based on analysis to develop clusters of small/marginal farmers interested in adopting right crops / mixed farming that are appropriate to situations III) to train target area farmers for such farming practices through technical training programs. FFS and visits to demo model farmers who are following best practices are a few means. IV) to facilitate access to fair and remunerative markets as collective efforts by linking organized producer groups through FPO partners to fair and appropriate marketing opportunities for getting higher returns for their produce both as raw and value-added products. This can be achieved through several initiatives like direct buy back from the farmers, certified organic produce and integrated livestock, which will ultimately lead to significantly increase their net incomes

Dr. Bidhan Mohapaatra, *Agri-economics, IRRI, Odisha* concluded that A sustainable farming system can be planned with a suitable cropping system and livestock development for smallholders' upliftment and conservation of biodiversity. An efficient scale-up of this model in the medium and long term can facilitate effective implementation of government policies, thereby improving the livelihood of millions of small farmers

gain was not commensurate with increased production due to price fluctuation in market, 2. growing vegetable was more remunerative but required more capital to buy be inputs and the costlier hybrid seeds, 3, commercial hybrid seed production was more profitable, 4. advantages seen of farmers operating in group, though sustainability of such groups is difficult and hence needs critical analysis., 5, aggregation of small farmers is a priority, 6. The FPO model needs more backing and must be increased in number and 7 reforms are necessary for raising farming efficiency.

Session 7: Panel Discussion -Skill development & Entrepreneurship/Start-up in Agriculture

The Panel discussions on “Skill Development & Entrepreneurship/Start Ups in Agriculture” was chaired by **Dr. M. J. Vasudeva Rao** and co-chaired by **Dr. Sharan Angadi**. The speakers included **Dr. Kanokwan (May) Chodchoey** of APSA (virtual), **Dr. C.L.L. Gowda**, Formerly DDG-R, ICRIASAT, **Dr. Sharan Angadi**, *Director, ATPBR*, **Mr. Sanjog Sahu** of *Mati Farms*, and **Dr. Amita Joshi**, *BIRC, New Delhi (virtual)*. The panel summed up the discussion as follows

- Skill development of the region and in the country relevant to crop improvement area is an important gap and needs to be organized to prepare next generation to meet the challenges ahead.
- Need to evolve newer systems like mentorship, internships, finishing schools, hands-on training, trainer training, university connect, webinars, etc to fulfil this gap
- Organizational and financial support besides incentivization for skill development are critical
- Skill sets needed by the industry is to be differentiated from knowledge or information.
- Skills vs automation could be an issue of future which needs examination
- Skill set and knowledge required for career development in seed industry should be prioritized
- APSA, ATPBR and other institutions should become emerging platforms for skill development by acting as a bridge between academia and the industry.

ATPBR AWARDS

ATPBR launched a prestigious Awards program in the year 2020 with the objective of honoring the distinguished Plant Breeders, scientists and achievers for their outstanding contributions towards enhancing food security and sustainability of production practices in India. Recognitions were also for the dignitaries who have made extraordinary contributions to support and development of seeds industries. At the Awards ceremony on the night of March 11th ATPBR recognized dignitaries in three categories 1. Excellence in Seed Sector, 2. Women achievers in Seed sector, 3. Lifetime achievement award, for the years 2021 and 2022. Since the conference was cancelled for the year 2021 due to the COVID pandemic, awards for both the years were given together this year.



Fig 2. All awardees received the awards in the categories of 1. Excellence in Seed Sector 2. Women achievers in Seed sector, 3. Lifetime achievement award for the year 2021

For the year 2021, Excellence in Seed Sector award was conferred on the unsung Hero Mr. N. Krishna Bhat for his tremendous efforts to support Indo American Hybrid Seeds in its establishment and sustainability. Mr. Naren Bhat received the award on behalf of his grandfather.



Fig 3. Mr. Naren Bhat received the awards in the categories of Excellence in Seed Sector on behalf of his grandfather Mr. N. Krishna Bhat, for the year 2021

In the same category, the foundation recognized Mr Gubba Kiran of the Gubba Cold Storage for the year 2022 for serving Indian Seed industry by preserving the seed vigor and viability of seeds. Gubba Cold Storage is serving more than 500 seed companies handling millions of tons of valuable seeds, especially nucleus, breeder, foundation and truthfully labeled Seed. GubbaCold Storage is aptly called the “lifeline” and a catalyst in the growth of the Indian Seeds Industry. In addition, Gubba Cold Storage is providing value added services, such as Seed Quality Laboratory Services (SQLS); Biotechnology Laboratory Services (BTLS), and Multi Location Product Testing Services (MLTS).



Fig 4. Mr Gubba Kiran (CEO - Gubba Cold Storage) received the awards in the categories of Excellence in Seed Sector, for the year 2022

For ‘Women achiever’ foundation honored four women - two for the year 2021 and two for the year 2022. All the four are legendary in their own fields and influenced the seed sector with their immense contributions.

Dr. K. Madhavi Reddy, Principal Scientist and Head, Division of Vegetable Crops, IIHR Bangalore and Ms. A K Jayalekha, former Lead Breeder- Pearl millet, Bayer Crop Sciences jointly awarded Women Achiever award for the year 2021.

Dr. K. Madhavi Reddy worked at the ICAR-Indian Institute of Horticultural Research, Bengaluru in Solanaceous Vegetable Crop Improvement programmes and is the Principal Investigator (PI) for Chilli and Bell pepper crop improvement programs and co-Investigator in Tomato and Brinjal crop improvement. She served as PI for six GTZ-AVRDC projectson Development of multiple disease resistant high yielding Chilli cultivars for Asia. She also served as PI for DBT, DST and NASF/ICAR network projects. PPV&FRA, New Delhi has recognized her as Nodal Officer for development of DUS guidelines and DUS testing of Chilli, Sweet pepper and Paprika.

Dr. Madhavi has also contributed to the development of four tomato and four brinjal varieties and has guided 10 Ph. D. and 8 M. Sc. students and published more than 100 research articles in reputed journals.

Ms. A K Jayalekha spent her entire career of 28 years working on pearl millet, a short duration and hardy crop in the harsh arid and semi-arid regions globally, including India. She developed more than 12 hybrids that were adopted by the farmers. Important among them are: Proagro 9444, a high grain and fodder hybrid with tolerance to heat, drought tolerance

and to downy mildew, smut and ergot diseases. 9444 was commercialized in 2000 for both kharif and summer seasons and is still in the market. Proagro 9450 hybrid was adopted in >1.8 lakh ha at its peak.



Fig 5. Dr. K. Madhavi Reddy, Principal Scientist and Head, Division of Vegetable Crops, IIHR Bangalore and Ms. A K Jayalekha, former Lead Breeder- Pearl millet, Bayer Crop Sciences jointly awarded Women Achiever award for the year 2021

Dr. Malavika Dadlani, Former Jt. Director (Research), ICAR and Dr. R. Saraswathi, Professor (PB and Genetics), Department of Rice, Tamil Nadu Agriculture University were recognized jointly for the year 2022. Dr. Malavika Dadlani a former Joint Director (Res) of ICAR-IARI, New Delhi, led the teams to standardise protocols for protein and DNA markers for variety identification and hybrid purity testing in rice, pearl millet, sunflower, soybean and capsicum spp. A number of seed companies adopted these for in-house quality control. As the Principal Investigator (PI) of NSP (Seed Technology Research), she led (1990's - 2004) the standardisation of poly-lined packaging requirements for seed storage of many crops that are being used by seed companies in public and private sectors. She also standardised the seed testing protocols for medicinal plants and on-farm seed invigoration protocols for field crops which are included in the Package of Practices by the SAUs.

Dr. R. Saraswathi has been responsible for nucleus seed production of 12 early maturing and four medium duration rice varieties at Aduthurai for more than 12 years. For about six years, she produced and distributed breeder seeds of 10 early, medium and long duration rice varieties. Truthfully labelled seeds of eight rice varieties that were produced have directly reached the farmers from TNAU. She is presently the hybrid rice breeder of TNAU at Coimbatore (from 2015) under AICRIP, using three-line and two-line hybrid breeding technology. Her hybrid CO 4 was commercialized to three private seed companies. She is also actively involved in development of new CMS lines, maintainer lines and diversification of restorers in hybrid rice program. She serves as an Advisory Committee member representing TNAU for Hybrid Rice Development Consortium (HRDC), IRRI, Philippines (2017-23).



Fig 6. Dr. Malavika Dadlani, Former Jt. Director (Research), ICAR and Dr. R. Saraswathi, Professor (PB and Genetics), Department of Rice, Tamil Nadu Agriculture University were recognized jointly for the Women Achiever award for the year 2021

For the 'Life-time achievement award Men category', ATPBR recognized the efforts and contributions of Dr. M J Vasudeva Rao (Co-founder, GRSV consulting services) for the year 2021

Dr. M J Vasudeva Rao started his Plant Breeding career as an Agricultural Research Services (ARS) Scientist at AICRIDA and AICSIP, Hyderabad of ICAR. He joined ICRISAT, Hyderabad to work as Sorghum Breeder and later as Groundnut Breeder. He then shifted to private sector Seed Companies (ICI Seeds/ITC Zeneca/Advanta India), and finally served at Metahelix Life Sciences, Bengaluru as President Ag Technologies. At ICRISAT, his unique "Checker-board" layout field-screening methodology was adopted for AICSIP national Striga resistance screening trials in India. He also developed the Cumulative Thermal Time (CTT) concept to select for earliness in groundnut. While working with Advanta India, he and his colleagues developed grain sorghum hybrids for heavy black cotton soils of Karnataka and Maharashtra. Several of his rice hybrids have made their impact with farmers in India across Bihar, Jharkhand, Gujarat, Assam, Karnataka and other states. PAC 432 was the world's first commercial mustard hybrid bred in India with high oil yield and white rust tolerance. At Metahelix Life Sciences, he piloted the commercial release of two Bt Cotton hybrids expressing synthetic cry IC gene Event MLS9124, and this event is one among the five Bt Cotton events released in India. Most of these hybrids are nationally notified for cultivation.



Fig 6. Dr. M J Vasudeva Rao (Co-founder, GRSV consulting services) received the Life-time achievement award for the year 2021

Dr. Narendra Kumar Singh (Vegetable Crops) and **Dr. R.S. Mahala** (Field Crops) were awarded together for the year 2022. Dr. Mahala received the award virtually. As a tomato breeder in Syngenta, **Dr. Narendra Singh** developed many leading tomato hybrids for India and the Middle East market in the 2000s. Few of his hybrids excelled in north African region, especially in the Libyan market. He initiated a platform called ASRT (Asia Solanaceous Round Table) in 2014 to address farmers' issues, via Public- private partnerships. He also initiated the ACRT (Asia Cucurbits Round Table) platforms to foster Public-Private partnership in Asia. Both ASRT and ACRT have had two successful rounds, and a few successful collaborative projects have emerged from these conferences in partnership with World Vegetable Center, Taiwan and BIOTECH, Thailand. Dr Narendra Singh lead Vegetable Research teams for Asia Pacific Region at Syngenta from 2007 to 2011 & H M Clause from 2011 to 2019. He was member of Global R&D Management team at both, and under his leadership at HM Clause developed Asia crop breeding strategy, and delivered many leading hybrids of Tomato, Okra, hot pepper, tropical cauliflower, cucumber, bitter gourd, and sunflower for Asian markets. Successfully lead the global Brassica team of Limagrain for 5 years.

Pearl millet hybrids developed by **Dr. R. S. Mahala** were grown on an average of 2.5 – 3 million hectares or 25-30% of total hybrid volume every year for last two decades in India. His biggest volume hybrids were 86M32 and 86M52, and 86M52 lasted for more than 11 years. This is a very significant contribution towards improving the total productivity and production of the country and increasing the profitability of resource poor farmers. Pearl millet hybrid 86M86 was the first private sector high yielding hybrid in India that had highest iron 56 ppm and Zinc 40 ppm and approved by Govt. of India for Nutri Farm scheme. Dr. Mahala was the recipient of "Gene Dalton Evolutionary Impact Award" in 2013, One of the highest honors within Corteva for the remarkable contributions in plant breeding. Pearl millet research team under Mahala's leadership received several Pioneer global awards such as



Fig 7. Dr. Narendra Kumar Singh and Dr. R.S. Mahala were awarded together for Life-time achievement award for the year 2022. Dr. Mahala received the award virtually.

Last but not the least, ATPBR has recognized the contributions of late Diliip Gokhale. It is a profound privilege for ATPBR to present this Scroll of Honour in recognition of the invaluable contributions made by him to the Indian agriculture. Mrs. Shubdha Gokhale received the award on behalf of her late husband **Mr. Dilip Gokhale**.

Mr. Gokhale used his business acumen to enter the market with a few likely winners such as hybrid sunflower ‘Sunbred-212’, cauliflower ‘Serrano’ (1st hybrid in India), cabbage ‘Quisto’, pepper ‘Picador’, and in due course the blockbuster tomato ‘Avinash-2’ which was price-tagged four times higher than the prevailing rate, setting a new benchmark for a value-added market segment. With the help a strong professional team built by Gokhale, he not only led the company’s seeds division to emerge as a profitable and leading seeds operation of India, but also its team members to evolve as group leaders within and outside the company. Dilip Gokhale soon evolved as a harbinger in Indian seed industry. Not only did he convince the company to invest in R&D in rice and cotton, as the new age of biotechnology ushered in, he joined hands with the Government in sponsoring its nationwide series of biosafety awareness workshops in late Nineties. Recognising his leadership, he was moved to global headquarters in Basel as a part of its core management. Subsequently, with the transition of Novartis into Syngenta, Gokhale as head Seeds for Asia-Pacific was part of major business reforms aimed at achieving greater excellence. He also successfully launched tropical sugar-beet in India. In February 2009, he played a key role making a two-day National Seminar on Agriculture Extension happen under the Govt. of India in partnership with Syngenta Foundation. He was also a part of the Foundation’s team undertaking a major study that led to the publication of book ‘Transforming Indian Agriculture: India 2040 – Productivity, Markets & Institutions’, released in January 2013 by Montek Singh Ahluwalia, Deputy Chairman, Planning Commission.



Fig 8. Mrs. Shubdha Gokhale received the Lifetime Achievement award on behalf of her late husband Mr. Dilip Gokhale.

All the awards were presented by the Chief Guest Mr. P Brahmanand Reddy, Member of Parliament.

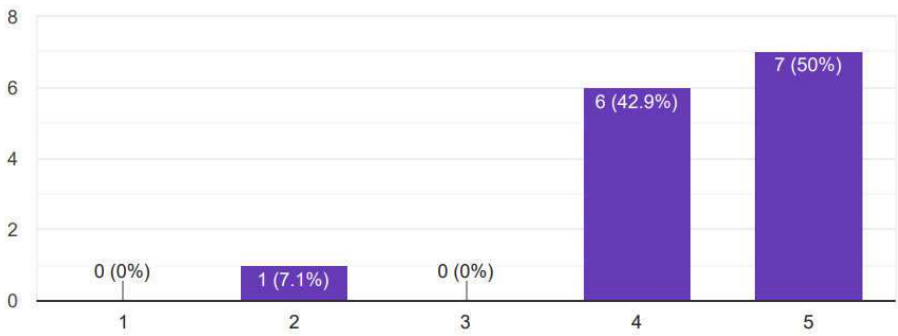


Fig 9. All awardees received the awards in the categories of 1. Excellence in Seed Sector 2. Women achievers in Seed sector, 3. Lifetime achievement award for the year 2022

FEEDBACK:

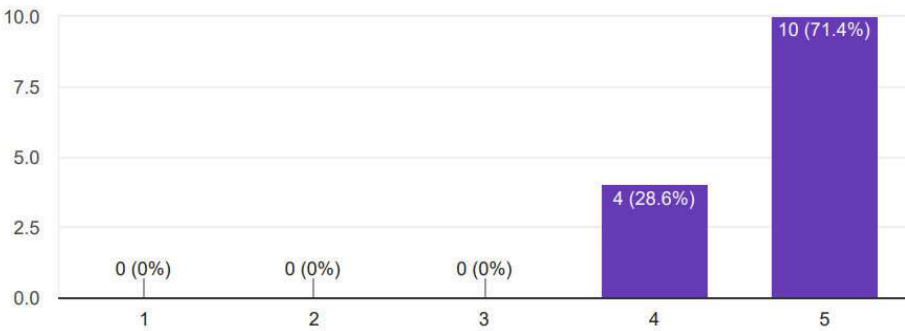
Speakers

All experienced speakers and panellists with their profound knowledge in the areas of their expertise gave an excellent platform for brainstorming and discussion. Speakers at 5F Farming 2022 were rated excellent by 50% of participants, very good by 43% and ok by 7% of participants.



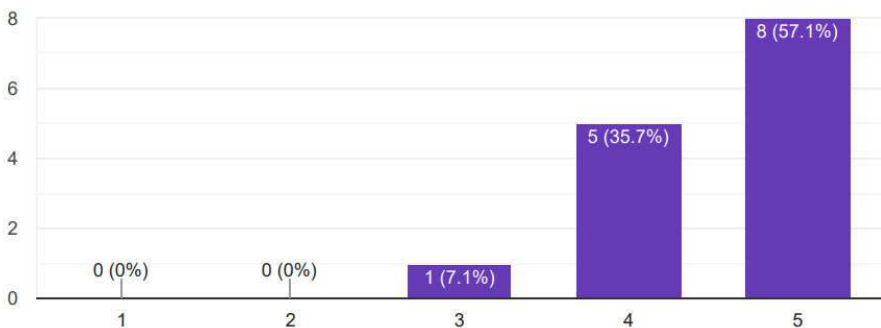
VENUE:

Around 71% participants ranked venue as excellent while 29% ranked it as very good.



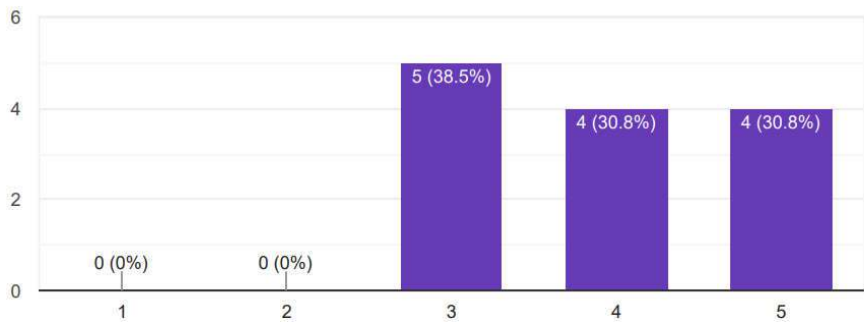
SESSIONS

All sessions of the conference were very much appreciated by the participants. Around 57% ranked sessions as excellent, 36% ranked it as very good, and 7% ranked it as good.



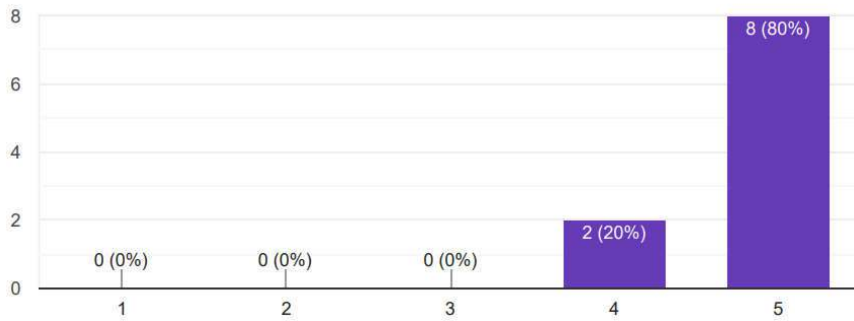
CATERING:

The catering was rated as excellent by 31% of participants, very good by 31%, good by 39% of participants.



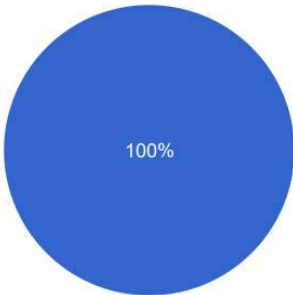
GALA DINNER:

Gala dinner was rated as excellent by 80% of participants, very good by 20% of participants. Award distribution during gala dinner was excellently organized and was well appreciated by all participants.



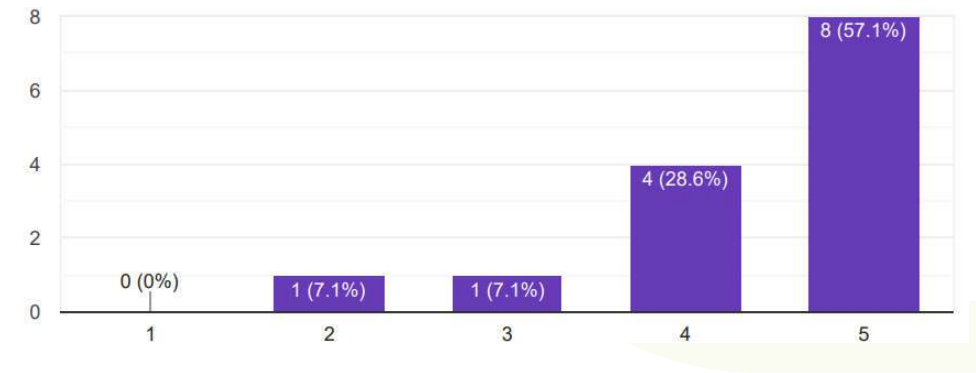
Did conference meet the objective?

In response to the question whether 'Conference meets the objective' 26% participants responded as excellent, 56% as very good, 18% as good and 2% as poor.



How well was the conference organized?

In response to the question whether ‘Conference was organized well’, 33% participants responded as excellent, 58% as very good, and 8% as good.



Themes suggested for the conference 2023

Following are the suggested titles

- Translation of Breeding outputs to farmers-achievements and challenges
- Regenerative farming; only way ahead
- Breeding for nutritional security
- No-till, regenerative method of farming, the way ahead for food production.
- Neglected and underutilised food plant species in India- challenges and opportunities for improvement and value addition
- Opportunities for Indian plant breeding for capturing global markets with superior varieties
- New vistas in plant breeding to meet global food challenges
- Expanding the art and science of plant breeding to meet global food challenges
- New horizons/avenues to strengthen plant breeding
- Strengthening conventional plant breeding for future food security
- synergetic effect of conventional and futuristic breeding technologies
- Harnessing plant potential for environment and food security
- Opportunities for Indian plant breeding for developing superior varieties for global markets
- Globalization of Indian research

MEDIA COVERAGE

MEDIA COVERAGE

ଭୁବନେଶ୍ୱର - ଶନିବାର - ମାର୍ଚ୍ଚ ୧୨ - ୨୦୨୨ BHUBANESWAR - SATURDAY - 12 MARCH - 2022

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● କିଟରେ ଜାତୀୟ ଆଲୋଚନାଚକ୍ର

ଭାରତୀୟ କୃଷିର ପୁନର୍ବିନ୍ୟାସ ଉପରେ ଗୁରୁତ୍ୱ

■ ଭୁବନେଶ୍ୱର, ଚାଟୋପାଡ଼ା (ସିଏନଏ)
ସ୍ୱାସ୍ଥ୍ୟ ଭବିଷ୍ୟତ ପାଇଁ ଭାରତୀୟ କୃଷି
ବ୍ୟବସ୍ଥାକୁ ପୁନଃ ସଜାଡ଼ିବା ପାଇଁ
କିଟରେଡ଼ା ଯୋଜନାଯୋଜନାଚକ୍ର
ଉପସାବିତ ହୋଇଯାଇଛି । ମାର୍ଚ୍ଚ ୧୨
ତାରିଖ ପର୍ଯ୍ୟନ୍ତ ଅନୁଷ୍ଠିତ ହେବାକୁ
ଥିବା ଏ ଦିନିଆ ଆଲୋଚନାଚକ୍ରରେ
ଆଇସିଆର ମହାମାତ୍ର, ଏସିପିଆର
(ପାଉଣ୍ଡେସନ ପରାମର୍ଶଦାତା ଟ୍ରେନିଂ
ଇନ ପ୍ଲସ ଟ୍ରିଟି)ର ନିର୍ଦ୍ଦେଶକ ଡ. କେ.
ବେ. ନାରାୟଣ, ଏସିପିଆରର
ସାଧାରଣ ନିର୍ଦ୍ଦେଶକ ଡ. ସୁରେଶ ଚିନ୍ତା,
ଓଡ଼ିଶା କୃଷି ଓ ବୈଷୟିକ ବିଶ୍ୱବିଦ୍ୟାଳୟର
ରମାଦେବୀ ବିଶ୍ୱବିଦ୍ୟାଳୟର କୁଳପତି
ପ୍ରଫେସର ଅପରାଜିତା ଚୌଧୁରୀ, କିଟ୍
ଟିପିଆରର ନିର୍ଦ୍ଦେଶକ ଡ. ମୃତ୍ୟୁଂଜୟ
ସୁଆର, କିଟ୍ ବାୟୋଟେକ୍ନୋଲୋଜିର
ଡ. ଗାର୍ଗୀ ଦେ ଓ ଡ. ଗୋପାଳ
ଚୌଧୁରୀ ପ୍ରମୁଖ ଯୋଗଦେଇଥିଲେ ।
କିଟ୍ ବାୟୋଟେକ୍ନୋଲୋଜିର ସ୍କୁଲ
ଆନୁକୁଲ୍ୟରେ ଏସିପିଆର,
ଇନଷ୍ଟିଚ୍ୟୁଟ ଅଫ୍ ଲାଇଫ୍ ସାଇନ୍ସ ଯୋଗଦେଇ
ଓଡ଼ିଶା କୃଷି ଓ ବୈଷୟିକ ବିଶ୍ୱବିଦ୍ୟାଳୟ
ସହଯୋଗରେ ଏହି କାର୍ଯ୍ୟକ୍ରମ ଅନୁଷ୍ଠିତ
ହେଉଛି । ଡ. ତ୍ରିଲୋଚନ ମହାମାତ୍ର
କାର୍ଯ୍ୟକ୍ରମକୁ ଉଦଘାଟନ କରି ସ୍ୱାସ୍ଥ୍ୟ
କୃଷି କିଛି ଅଜ୍ଞାନକାମୀ ପୁଅପୁଅ,
ରସାୟନିକ ପୁଅପୁଅ ଓ କଳାପୁଅପୁଅକୁ



ସ୍ୱାସ୍ଥ୍ୟ ଭବିଷ୍ୟତରେ ସହାୟକ ହୋଇଥାଏ
ସେ ସମ୍ପର୍କରେ କହିଥିଲେ । ଦାରିଦ୍ର୍ୟ
ବୁଝାବୁଝା କ୍ଷେତ୍ରରେ ଗ୍ରାମାଞ୍ଚଳ
ନିଯୋଜନ ଏବଂ କୃଷି ନିଯୋଜନର
ଯଥେଷ୍ଟ ଅବଦାନ ରହିଛି ବୋଲି
ସେ କହିଥିଲେ । ଆଇସିଆରଆର
ଏସିପିଆର ମହାନିର୍ଦ୍ଦେଶକ ଡ. ଜାକି
ହରେସ୍ୱ କୃଷି ଓ ଖାଦ୍ୟ ବ୍ୟବସ୍ଥାର
ଆଧୁନିକିକରଣ ଉପରେ ଜୋର ଦେଇ
ଆବଶ୍ୟକ ବ୍ୟବସ୍ଥାରେ ସୁଧାର ଆଣିବା,
ପିକିର ଦୂତ ଉନ୍ନତି ଏବଂ ଗବେଷଣା
ସହଯୋଗିତା ଗଠନ କରିବା ପାଇଁ ମତ
ଦେଇଥିଲେ । ଡ. ଅଗ୍ରସ୍ଥାଳ କୃଷିର ଫଳି
‘ଏପ’ ବର୍ଣ୍ଣନା କରି କୃଷି କ୍ଷେତ୍ରରେ କମ୍
ପୁଣି କଲଗରେ ଅଧିକ ଲାଭ ମିଳିବା
ଉପରେ ଚିନ୍ତା ବ୍ୟକ୍ତ କରିଥିଲେ । ସମ୍ବନ୍ଧ
ସଂରକ୍ଷଣ ଆଧାରିତ କୃଷି ହେଉଛି
ବର୍ତ୍ତମାନ ସମୟର ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ପ୍ରସଙ୍ଗ

ଓ ଏହା ସ୍ୱାସ୍ଥ୍ୟ ଭବିଷ୍ୟତ ପାଇଁ ନିଶ୍ଚିତ
ଆବଶ୍ୟକ ବୋଲି ପ୍ରଫେସର ଚୌଧୁରୀ
ମତ ପ୍ରକାଶ କରିଥିଲେ । କୃଷି କ୍ଷେତ୍ରର
ଔଦ୍ୟୋଗିକ ଦିଗକୁ ନିଜ ଉପରେ
ଆଲୋଚନା କରି ଡ. ସୁଆର କହିଲେ,
ସମନ୍ୱୟ ଓ ଉପଯୁକ୍ତ ରଣନୀତି ପ୍ରସ୍ତୁତ
କରିବା ହେଉଛି ସ୍ୱାସ୍ଥ୍ୟ କୃଷି ଭବିଷ୍ୟତର
ମୂଳ ଚାବି । ଏହା ସହିତ କିଟରେ
ଏସିପିଆର ଏଭଳି ଆଲୋଚନାଚକ୍ର
ଆୟୋଜନ କରିଥିବାରୁ ସେ
ଆଇସିପିଆର କର୍ମଚାରୀଙ୍କୁ ଧନ୍ୟବାଦ
ଜଣାଇଥିଲେ । ଏହି ଅବସରରେ ଡ.
ପ୍ରଧାନ, ଡ. ଅଗ୍ରସ୍ଥାଳ, ପ୍ରଫେସର
ଚୌଧୁରୀଙ୍କୁ ସମ୍ବର୍ଦ୍ଧିତ କରାଯାଇଥିବା
ବେଳେ ଆନ୍ଧ୍ରବିଶ୍ୱବିଦ୍ୟାଳୟ କୃଷି
କୁଳର ପ୍ରତିଯୋଗିତା ଆୟୋଜନ
କରାଯାଇଥିଲା । ଏଥିରେ ଓଡ଼ିଶାକୁ
ବିଦ୍ୟା ଯୋଗଣା କରାଯାଇଥିଲା ।

କିନ୍ତୁ ଜାତୀୟ ଆଲୋଚନାଟି

‘ଉପଯୁକ୍ତ ରଣନୀତି ସ୍ୱାୟତ୍ତ କୃଷି ଭବିଷ୍ୟତର ମୂଳ ଚାବି’

ଭୂବେଶ୍ୱର, ୧୧ମ/ଏସ୍-ଏସ୍-୧୨: ଏମନ୍ତ
 ଉତ୍ସବ ଉପଲକ୍ଷେ ପ୍ରସ୍ତୁତ କରିବା ବେଳେ
 ଗୁରୁ କୃଷି ବିଭାଗର ମୁଖ୍ୟ ଚଳି ବୋଲି କୃଷି
 ବିଭାଗର ନିର୍ଦ୍ଦେଶକ ଡ. ମୁଖାଞ୍ଜନ ପୁରୀ
 କହିଛନ୍ତି । ପ୍ରସ୍ତାବ ବିକାଶପଥ ଗଠନର
 କୃଷି ବ୍ୟବସ୍ଥା ପ୍ରଣାଳୀ ସମ୍ପର୍କିତ ଚର୍ଚ୍ଚା
 ମିଳେଇ ଶୁଭର ଉପାଦେୟ ଗୁରୁତ୍ୱ
 ଲାଭାଇ ଶାସନାବଳୀଗଠନ କୃଷି କ୍ଷେତ୍ର
 ଉପଲକ୍ଷେ ବିକାଶପଥ ଗଠନର
 ଅନେକପଦ କରି ଡ. ପୁରୀ ଏହି କହିଛନ୍ତି ।
 ଏହି ଅନେକପଦଗଠନ ଆଜି ଉପସଭାରେ
 ମହାନିର୍ଦ୍ଦେଶକ ଡ. ପ୍ରିୟଙ୍କାମଳ ମହାପାତ୍ର,
 ଏସିପିଆର ନିର୍ଦ୍ଦେଶକ ଡ. ଡେ
 ମାନ୍ୟସିଂହ, ଏସିପିଆରର ପ୍ରଧାନ
 ନିର୍ଦ୍ଦେଶକ ଡ. ସୁରେନ୍ ଦିବି, ଡିଏସ୍-୧୨



ଭୁବନେଶ୍ୱର ଡି. ପି. ଜେ. ଅସ୍ପତ୍ରାଳୟ, ରମାଦେବୀ ବିଶ୍ୱବିଦ୍ୟାଳୟର ଭୁବନେଶ୍ୱର ପ୍ରାଙ୍ଗଣର ଅପରାଜିତା ଚୌଧୁରୀ, କିଟ୍	ବାୟୋଟେକ୍ନୋଲୋଜି ଡି. ଗାର୍ଗୀ ଦେ ଓ ଡ. ଗୋପାଳ ଚୌଧୁରୀ ପ୍ରମୁଖ ସେକ୍ସନରେଡ଼ାଲେ । କିଟ୍ ବାୟୋଟେକ୍ନୋଲୋଜି
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[illegible]

ଜେନ ଦେଇ ଆବଦ୍ଧ ବ୍ୟବସ୍ଥାରେ ପୁରା
ଆସିବ, ପିଠିକୁ ଦୁଇ ଲକ୍ଷରୁ ଓଠ ବେଳେଶ
ସଂଗ୍ରହ କରିବ ଓଠର କିଛି ବାଣୀ ମଧ୍ୟ
ଦେଇଥିଲେ । ତା ଅସ୍ଥାବଳୀ ଶୁଣିବ ୫ଟି
ଏବଂ ୧୩ଟି ବାଣୀକୁ ଶେଷରେ କାମୁଡ଼ି
ଲଗାରେ ଆସି ପାଇ ଲାଭ ଦିଅନ୍ତେ ଦିଶୁ
ବ୍ୟକ୍ତି କରିଥିଲେ । ସମ୍ଭବ ଦିଶୁଛନ୍ତି ଆଧିକାର
ଶୁଣି ଶେଷର ବାଣୀର ସମସ୍ତ ଗୁପ୍ତତାକୁ
ପ୍ରସଙ୍ଗ ତ ଏହା ପ୍ରାୟ କାହାଙ୍କ ମଧ୍ୟ ନିଶ୍ଚିତ
ଆବଶ୍ୟକ ବୋଲି ପ୍ରଚେଦର ନୌଯୁଗା ନର
କରିବ କରିଥିଲେ । ଏହି ଅବସରରେ ତା
ପ୍ରାୟ ୧୮, ଅଷ୍ଟଶ୍ରାଫଳ କାହାଙ୍କ ନୌଯୁଗା
ସମ୍ପାଦିତ କରାଯାଇଥିଲା ବେଳେ
ଆକାଶର ବ୍ୟବସ୍ଥାକୁ ଶୁଣି ବୁଦ୍ଧ ପ୍ରତିଯୋଗିତା
ଆସିଲେ ନୌଯୁଗା ନର



● ଦର୍ଶ-୨୯ ● ଦୃଶ୍ୟ-୨୫ ● ୧୨ ମାର୍ଚ୍ଚ ୨୦୨୨, ଶନିବାର ● ପୃଷ୍ଠା-୧୦ ● Vol - 29 ● Issue-45 ● 12th March 2022, Saturday ● Bhubaneswar

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ସ୍ଥାୟୀ ଭବିଷ୍ୟତ ପାଇଁ ଭାରତୀୟ କୃଷିର ପୁନର୍ବିନ୍ୟାସ ଉପରେ କିନ୍ତୁ ଜାତୀୟ ଆଲୋଚନାଚକ୍ର

କୁ ବନେଶ୍ୱର, ନୂଆଦିଲ୍ଲୀ

ସ୍ଥାୟୀ ଭବିଷ୍ୟତ ପାଇଁ ଭାରତୀୟ କୃଷି ବ୍ୟବସ୍ଥାକୁ ପୁନଃ ସଙ୍ଗଠିତ କରିବା ପାଇଁ କିନ୍ତୁ ଜାତୀୟ ଆଲୋଚନାଚକ୍ର ଉପରାଜିତ ହୋଇଯାଇଛି । ମାର୍ଚ୍ଚ ୧୨ ତାରିଖ ପର୍ଯ୍ୟନ୍ତ ଅନୁଷ୍ଠିତ ହେବାକୁ ଥିବା ଏ ଦିନିଆ ଆଲୋଚନାଚକ୍ରରେ ଆଇଟି-ଏଆରର ମହାନିର୍ଦ୍ଦେଶକ ଡ. ତ୍ରିଲୋଚନ ମହାପାତ୍ର, ଏଟିପିବିଆର (ଫାଇଲ୍‌ସେକ୍ସନ ଫର ଆର୍ବିଆର) ଡିପ୍ୟୁଟି ଡିରକ୍ଟର ଡ. କେ. କେ. ନାରାୟଣନ, ଏଟିପିବିଆରର ପ୍ରାଧିକାର ନିର୍ଦ୍ଦେଶକ ଡ. ସୁରେଶ୍ ଚନ୍ଦ୍ର, ଓୟୁଏଟିର କୁଳପତି ଡ. ପି.କେ. ଅଗ୍ରୱାଲ, ରମାଦେବୀ ବିଶ୍ୱବିଦ୍ୟାଳୟର କୁଳପତି ପ୍ରଫେସର ଅପରାଜିତା ଚୌଧୁରୀ, କିନ୍ତୁ ଟିପିଆର ନିର୍ଦ୍ଦେଶକ ଡ. ମୁଦୁଲିଆ, କିନ୍ତୁ ଟିପିଆର ନିର୍ଦ୍ଦେଶକ ଡ. ଗୋପାଳ ଚୌଧୁରୀ ପ୍ରମୁଖ ଯୋଗଦେଇଥିଲେ । କିନ୍ତୁ ବାୟୋଟେକ୍ନୋଲୋଜିର ଡ. ଗାର୍ଗୀ ଦେ ଓ ଡ. ଗୋପାଳ ଚୌଧୁରୀ ପ୍ରମୁଖ ଯୋଗଦେଇଥିଲେ । କିନ୍ତୁ ବାୟୋଟେକ୍ନୋଲୋଜିର ଡ. ଗାର୍ଗୀ ଦେ ଏଟିପିବିଆର, ଭନେଶ୍ୱର ଅଫ ଲାଇଫ



ସାଇନ୍‌ସେସ୍ ଓ ଡିଜିଟାଲ୍ କୃଷି ଓ ବୈଷୟିକ ବିଶ୍ୱବିଦ୍ୟାଳୟ ସହଯୋଗରେ ଏହି କାର୍ଯ୍ୟକ୍ରମ ଅନୁଷ୍ଠିତ ହେଉଛି । ଡ. ତ୍ରିଲୋଚନ ମହାପାତ୍ର କାର୍ଯ୍ୟକ୍ରମକୁ ଉଦ୍‌ଘାଟନ କରି ସ୍ଥାୟୀ କୃଷି କିଭଳି ଅଙ୍ଗାରକାୟ ପ୍ରତିଷ୍ଠା, ଉପାୟନିକ ପ୍ରତିଷ୍ଠା ଓ କଳ ପ୍ରତିଷ୍ଠାକୁ ହାସଲ କରିବାରେ ସହାୟକ ହୋଇଥାଏ ସେ ସମ୍ପର୍କରେ କହିଥିଲେ । ଦାରିଦ୍ର୍ୟ ଦୂରୀକରଣ କ୍ଷେତ୍ରରେ ଗ୍ରାମାଞ୍ଚଳ

ନିଯୋଜନ ଏବଂ କୃଷି ନିଯୋଜନର ଯଥେଷ୍ଟ ଅବଦାନ ରହିଛି ବୋଲି ସେ କହିଥିଲେ । ଆଇଟିଆରଆଇଏସଏଟିର ମହାନିର୍ଦ୍ଦେଶକ ଡ. କାବି ହରେସ କୃଷି ଓ ଖାଦ୍ୟ ବ୍ୟବସ୍ଥାର ଆଧୁନିକକରଣ ଉପରେ କୋର ଦେଇ ଆବଶ୍ୟକ ବ୍ୟବସ୍ଥାରେ ସୁଧାର ଆଣିବା, ପିଢ଼ିରୁ ଡୁର ଉତ୍ତର ଏବଂ ଉଦ୍ଦେଶ୍ୟ ସହକାରିତା ଗଠନ କରିବା ପାଇଁ ମତ ଦେଇଥିଲେ । ଡ. ଅଗ୍ରୱାଲ କୃଷିର ୫ଟି 'ଏଫ' ବର୍ଣ୍ଣନା କରି କୃଷି

କ୍ଷେତ୍ରରେ କମ୍ ପୁଞ୍ଜି ଲାଗଣରେ ଅଧିକ ଲାଭ ମିଳିବା ଉପରେ ଚିନ୍ତା ବ୍ୟକ୍ତ କରିଥିଲେ । ସମ୍ଭବ ସଂରକ୍ଷଣ ଆଧାରିତ କୃଷି ହେଉଛି ବର୍ତ୍ତମାନ ସମୟର ସ୍ୱଚ୍ଛତା ପ୍ରସଙ୍ଗ ଓ ଏହା ସ୍ଥାୟୀ ଭବିଷ୍ୟତ ପାଇଁ ନିଶ୍ଚିତ ଆବଶ୍ୟକ ବୋଲି ପ୍ରଫେସର ଚୌଧୁରୀ ମତ ପ୍ରକାଶ କରିଥିଲେ । କୃଷି କ୍ଷେତ୍ରର ଔଦ୍ୟୋଗିକ ବିଗ୍ରହ ଉପରେ ଆଲୋଚନା କରି ଡ. ସୁଧାକର କହିଲେ, ସମସ୍ତଙ୍କ ଉପଯୁକ୍ତ ରଣନୀତି ପ୍ରସ୍ତୁତ କରିବା ହେଉଛି ସ୍ଥାୟୀ କୃଷି ଭବିଷ୍ୟତର ମୁଖ୍ୟ ଚାଲି । ଏହା ସହିତ କିନ୍ତୁ ଏଟିପିବିଆର 'ଏକାକୀ' ଆଲୋଚନାଚକ୍ର ଆୟୋଜନ କରିଥିବାରୁ ସେ ଆଇଟିପିବିଆର କର୍ମପକ୍ଷକୁ ଧନ୍ୟବାଦ ଜଣାଇଥିଲେ । ଏହି ଅବସରରେ ଡ. ପ୍ରଧାନ, ଡ. ଅଗ୍ରୱାଲ, ପ୍ରଫେସର ଚୌଧୁରୀଙ୍କୁ ସମ୍ମାନିତ କରାଯାଇଥିବା ଦେଖି ଆଶ୍ଚର୍ଯ୍ୟବିଦ୍ୟାଳୟ କୃଷି କୁଳର ପ୍ରତିଯୋଗିତା ଆୟୋଜନ କରାଯାଇଥିଲା । ଏଥିରେ ଓୟୁଏଟିର ବିଜୟା ଯୋଷଣା କରାଯାଇଥିଲା ।

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