



A special interest group of Federation of Seed Industry of India (FSII)

# Federation of Seed Industry of India

Annual Report 2019-2020





We are privileged to present the Federation of Seed industry of India annual report for the year 2019-20. The year included a lot of positive interactions with the regulators and policy makers on various aspects of agricultural business policy. Many improvements and changes were set into motion with the new Seed bill 2019, that was thoroughly discussed and debated. Other policies that were discussed and consulted upon include, policies on germplasm access, digital sequence information, gene editing regulation and GM import regulations. The federation got the opportunity to participate in various national and international events (APSA, APAARI, ISF) and put forward the Indian seed industry point of view.

We had meetings and shared our position and inputs with Union and State ministers of Agriculture, and the offices of Secretary Agriculture and Joint Secretary Seeds in Agricultural ministry. We also interacted with Chairperson of NBA, PPVFRA, FSSAI, GEAC and presented our case regarding various industry related issues.

The federation took up aggressive outreach via social media as well as print media. Farming and industry related issues were taken up in social media posts and both technology and industry point of view was conveyed in print media publications. Other than the monthly newsletter, through which we share the latest happenings with multiple stakeholders, we initiated other campaigns. One of them had farmers sharing views and issues, another had seed industry employees talking about their motivations and also a women's day video with our member employees talking about their journey. These got a positive response from our members and also on media platforms. We also initiated interviews of industry leaders and eminent academicians sharing their views on status of agriculture in India.

Multiple outreach events were organized in collaboration with other associations or Universities to create awareness and provide a platform for open discussion on issues like GMO acceptance, gene editing, Fall armyworm issue and germplasm access.

The federation worked proactively with the government at the centre as well as in States to manage the nation-wide lockdown, so that agricultural operations went on smoothly and farmers received the seeds for sowing in right time. There were multiple representations made to the authorities along with virtual meetings to smoothen out the process and any glitches faced by various member companies in different states and regions. These efforts were continued in various phases of the lockdown. A separate report is attached for the said period. Overall a challenging and yet positive year for the federation as we worked closely with our members to bring out various issues at the forefront and engage in multi-stakeholder interactions. We present to you the various glimpses of our initiatives through this report.

# April 2019

AAI participated in the Pan-Asia Farmers Exchange Program in Manila, The Philippines. Our delegation included 2 progressive farmers and 2 media persons who were interested in the field of agriculture. The five-day tour included visits to farmer's fields, seed packaging plants and IRRI research fields. Multiple presentations on various aspects of the agricultural technology were made and these led to interactions and discussions amongst the participants from various countries of the region.



Two articles appeared post the Farmer Exchange tour.



#### Advocacy and Outreach-

**FSII** wrote to Joint Secretary-Seeds and DGFT with a Request to Remove Hybrid Rice Seeds from Restricted Export Category (Chapter 10 of Schedule- 2 of ITC (HS) Classification of Export & Import Items). We also approached CM of Punjab regarding the sale of TL-Hybrid rice seeds in the state.

FSII also connected with PPVFRA regarding second year hybrid seed production for DUS testing and the notice on "Plant breeder rights".

FSII also wrote to Union Minister of Agriculture on seed import duty for Watermelon and musk melon seed import.

**AAI** wrote to DDG-Crop science to reconsider yield and Bt protein expression requirements for advancement of Bt cotton hybrids.

# May 2019

# Advocacy and Outreach-

**FSII** also approached Joint Secretary-Seeds regarding compulsory treatment of seeds for the control of Fall Army worm (FAW). FSII submitted comments on draft guidelines on Access to Biological Resources and Associated Knowledge and Equitable sharing to NBA and Ministry of Environment. FSII put in the request for inclusion of vegetables Seeds in the Appendix 3B of MEIS export policy and for amending schedule -2 for better clarity.

In continuation of our discussion with DDG-Crop Science on Bt protein expression requirements for advancement of Bt cotton hybrids, AAI proposed that protein expression studies may be conducted in different labs.

**AAI** connected with FSSAI to discuss the impact of delay in formulation of GM Food import regulations and requested the authority to expedite the process.

# June 2019

## Advocacy and Outreach-

**AAI** approached Agriculture Commissioner regarding cotton industry issues related to Bt protein expression requirements for advancement of Bt cotton hybrids and challenges in complying with the Refuge in Bag (RIB) in Bt cotton standards as per Government notification.

# July 2019

FSII promoted the Asian Solanaceous Round Table that was held in Bangalore through social media and website. The event was held to discuss the latest market trends in the solanaceous crops.

Dr Shivendra Bajaj participated at the 3rd Annual AgriBiotech India Summit 2019 and spoke on the regulatory scenario of Biotechnology on India and its role in managing water scarcity.

FSII delegation also met the Hon'ble Minister of State for Agriculture, Farmers' Welfare and Panchayati Raj, Shri Parshottam Rupala to discuss the challenges faced by farmers and role of technology in increasing farm productivity and income.

Mr Ram Kaundinya's article on the misses and expectations of the agri industry from the Union Budget was covered in The Hindu Business Line.

Through Alliance for Agri Innovation we kept talking about positive stories on GM and other technologies which saw good engagement from our readers.



**AAI** wrote to PM of India requesting approval of cultivation of genetically modified crops in India.

**FSII** presented Union Minister of State for Agriculture with five-point programme to mitigate agricultural distress. FSII also approached multiple agencies including Union Minister of Agriculture, Niti Ayog, Chief Minister of Maharashtra and Convenor of committee, CMs of Haryana, Karnataka, MP, UP, Gujarat and Arunachal Pradesh to request for seed industry's representation to the "High powered committee of Chief Ministers for Transformation of Indian agriculture".

# August 2019

**Event:** FSII collaborated with University of Hyderabad and Research and Innovation Circle of Hyderabad (RICH) to discuss the advancement of GM in India

Topic: Current scenario and path forward for GM crops in India

Objective: To deliberate on GM crisis & advancing the technology in India

The event was held in Hyderabad, India and was attended by Dr Dayanand, Dean of the School of Lifesciences, University of Hyderabad (UoH); Dr S R Rao, Regulatory Expert of Biotechnology; Dr Rakesh K Mishra, Director, Centre for Cellular & Molecular Biology (CCMB), representatives from FSII, farmer representative from Shetkari Sanghatana, other farmer organisations, scientists, industry, government officials, students and other stakeholders. The event saw large participation and was attended by over 200 people.

One-on-one interaction of Mr Kaundinya, DG, FSII with media was conducted a day prior to the event to highlight the concern over the technology. The event was also widely covered in the media and major publications like Andhrajyoti, Sakshi, Surya, The Times of India, Business Standard and The Hindu Business Line.





#### Blogs

The following blogs and LinkedIn blogs were published in the month of August 2019 - Ensuring sustainable future of food which focused on various ways to improve crop productivity through technological interventions and innovations. Direct Seeded Rice for efficient rice production and growing nutritional crops which are adaptive to climate change.



#### Advocacy and Outreach-

**FSII** wrote to Principal Secretary – Agriculture, Andhra Pradesh to share industry views regarding establishment of Integrated Agri Testing Labs and Proposed MOU with seed companies.

**AAI** met officials at DBT and GEAC to discuss the various issues and regulations pending with the said authorities. DBT organized an Interactive session on Institutional Biosafety Knowledge Portal (IBKP) upon AAI request, to address the various issues faced by our members.

# September 2019

Event: FSII urges adoption of hybrid rice to increase rice productivity

Topic: Seed Technology Innovation for Sustainable Rice Production

**Objective:** To discuss ways to enhance rice productivity sustainably and improve farmers profitability in India

The event was held in New Delhi and was attended by Hon'ble Union Minister of State for Agriculture and Farmer's Welfare, Shri Kailash Choudhary; Dr Prem Kumar, Hon'ble Minister of Agriculture, Government of Bihar; Dr SK Malhotra, Agriculture Commissioner, Government

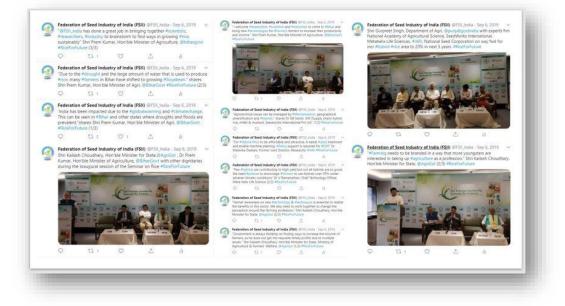
of India and Mr VK Gaur, Chairman & Managing Director, National Seed Corporation. The event saw participation of more than 150 individuals who represented senior government officials, farmer organizations, scientists and industry representatives.

Deliberations at the seminar brought forward the need for long-term research investments in bringing more productive hybrids with improved grain characters, strengthen seed production systems by geographic diversification and take up more intensive promotion of hybrid in new areas through PPP mode.

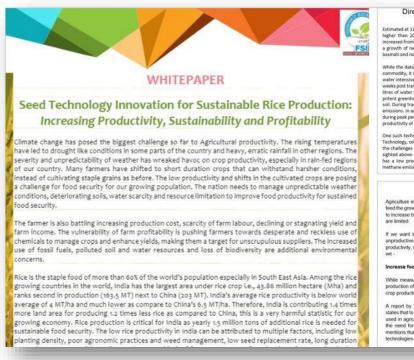
The event was widely covered in the media and major publications like Business Standard, Punjab Tribune, Punjab Kesari, Pioneer, Rashtriya Sahara, Dainik Bhaskar, Delhi News, Daily Hunt, ANI, UNI etc.



The event was widely covered in the social media through real time tweeting and tagging the Central and State Governments by bringing their focus to the subject. The speakers and guests were also tagged to receive more traction.



To leverage the event, FSII developed a white paper on the challenges and solutions that were deliberated during the event, a LinkedIn blog and a blog for the website were also developed and cross promoted through social media.



#### Direct Seeded Rice (DSR) Technology- A hidden gem

Estimated at 10.0.5 million groups, india set a new record in the production of rice in 20.6-17 and this is higher than 20.5-16 estimates which tood at 10.44.1 million forcome, in which, agricoflumul exports increased from INR 2,27,193 crores in 2012-13 to INR 2,27,54crore in financial year 2016-17 registering growth of nearly 0.15%. This success can be primarily attributed to the higher exports of rice (both summaria and non-basimol) followed by subject, cotton and segar.

While the data indicates how rice is an integral part of India - both in terms of production and trading commodity, it is essential to note its impact in natural resources. Conventionally, production of rice its a water intense activity. The transplanet rice needs to be water lodged for a least 1.3-2 inches for 5-6 weeks port transplanting, to control growth of week. Due to this practice, 1 kg of rice requires 2000 3000 litters of water (Sporters Agrowells). This practice also based to greenhouse gas emissions a methane, a potent greenhouse gas is emitted from the flooded rice fields produced by bacteria in the waterlogged ensures. In addition to these, there are different problems like lowering water table, scarcity of labour during peak periods, checkristrating solution has the demands some alternative establishment method to sustain productivity of rice as well as natural resources.

One such technology is the Direct Seeded Rice (DSR) which makes rice production water efficient. DSR Technology, one of the oldest techniques of crop establishment, has a low input demand and in light of the challenges sighted above; is gianing popularity again. Of Rethnology sobes almost all the problems sighted above. It is less labour intensive, requires less water, less drudgery, helps in early crop maturity, nas a low production cost, provides better soli physical conditions for following crops and reduces methane emissions.

#### Ensuring sustainable future of food

Agriculture in the 21st century is facing significant challenges, most importantly the pressure to feed the growing population. Set to reach 9.8 bition people by 2050, the food demand is estimated to increase by 50%. This burden will be passed on to the developing countries, where resources are limited.

If we want to sustain the food demand, we will have to adopt multiple steps like restoring unproductive land, avoiding deforestation, encouraging technological interventions for seed productivity, resource management, reducing food wastage etc. Therefore, it is consequential that we -

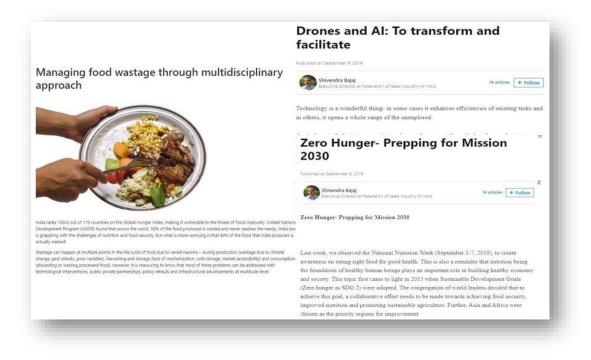
#### Increase food production without expanding agricultural land

hile measures to manage food demand is important, the world must look at ways to boost oduction of agricultural output without expanding the agricultural land. For this, improvement in op productivity is essential by deploying technological interventions and innovations.

A report by World Resources Institute, "Creating Sustainable Food Future, December 2018" states that to make food supply sustainable, it is important to boost efficiency of natural resources used in agriculture. It implies that we need to produce more food per hoctare which will reduce the need for agricultural land and the emissions in production processes. The report further meetions that terms have explayed increased yields by farming in smarter ways and are using technologies which are opening up new potentials.

#### Blogs

The following topics were focussed on blogs and LinkedIn blogs – Managing food wastage through multidisciplinary approach, Drones & AI – for transforming and facilitate and Zero hunger – prepping for mission 2030.



#### Seed World 2019

Topic: Enabling regulatory environment for International movement of seeds

Objective: To discuss and develop a strategic plan for seed sector advancement

The Indian Council of Food & Agriculture (ICFA) jointly organised the event with FSII, International Seed Federation and National Seed Association of India in Bangalore. Mr Ram Kaundinya represented FSII at the event and spoke about encouraging more R&D investments by seed companies to fight climate change and tackle malnutrition. He also emphasised on ensuring IP protection and creating a predictable regulatory environment



# Advocacy and Outreach-

FSII took up the matter of truthful labelling and seed price control with Joint Secretary-Seeds

# October 2019

**Topic:** Regional Expert Consultation on Gene Editing in Agriculture and its Implications on Biosafety Regulation

**Objective:** To highlight the innovations through gene editing, the impact on the agricultural sector, review status of global regulatory policies of gene editing and enable policies for plant and animal breeding innovations.

The two-day event took place at ICRISAT, Hyderabad and was participated by over 500 individuals. Dr Renu Swarup, Secretary, Department of Biotechnology (DBT) was the Chief Guest at the event. Further, 64 participants from 21 countries (Australia, Bangladesh, Bhutan, China, Fiji, India, Iran, Italy, Lao PDR, Malaysia, Myanmar, Pakistan, Papua New Guinea, Philippines, Samoa, Singapore, Sri Lanka, Taiwan, Thailand, USA, Vietnam) participated in the meeting. The participants included senior officials, researchers from National Agricultural Research Systems (NARS), Consultative Group on International Agriculture Research (CGIAR) Centres, experts on biotechnology, representatives of research institutions, donors, private sector and NGOs. Representative from FSII also participated and presented views of seed industry on gene-editing and urged that too much regulations will have an impact on the seed movement and trade. Therefore, a science based consistent regulatory policy environment is required to gain confidence of farmers and consumers. The key recommendations that emerged from the 2-day deliberations and the discussions were that the genetic variation in the final product should not be regulated when-it does not contain a novel combination of

genetic material, the final plant product contains genetic material from sexually compatible plant species or any form of mutagenesis is involved. This will ensure that agricultural innovation can proceed unhindered for the benefit of the farmers and the society.

FSII live tweeted the event for two days and over 60 tweets were put out by tagging participants and respective organisations.





#### **International Day of Rural Women**

FSII celebrated International Day of Rural Women by involving members to share experience of women farmers who have turned entrepreneurs and are running their families, encouraging more farmers to adopt new and innovative methods, imparting knowledge to fellow farmers etc. A video of a women farmer was also shared to showcase the tremendous change that she has brought in her life. Thoughts of FSII's Executive Director was also shared as a quote in the social media. The posts showed participation from various stakeholders and saw engagements.



A blog was also written to show the gender-gap that still persist in the agrarian society and how it can be bridged.

#### Blogs

Write ups on technologies such as GM, gene-editing, CRISPR have been part of blogs put out by the leadership and the organisation. Awareness and benefits of these technologies are presented at the forefront through our social media platforms. The focus has been on small



scale farmers, equipping them with right knowledge and technologies for their benefit. Research papers by agri experts on these technologies are also highlighted through articles, blogs, websites and social media. LinkedIn blogs focused on stubble burning, steps that should be adopted to boost exports, streamlining agri credit infrastructure were some of the issues on which the blogs were written and subsequently published.

#### Advocacy and Outreach-

**FSII** took part in stakeholder meeting on Seed bill 2019 and submitted their recommendations to Union Minister, Ministers of State and JS-Seeds

**AAI** submitted comments and suggestion on the draft GM food import regulations to CEO-FSSAI and met with Advisor-FSSAI regarding the same

FSII took part in meetings organized by the Ministry of Agriculture to develop India's position in the ITPGRFA meeting to be held in Rome in November, 2019

**Participation in International Seed Federation mid-year meeting in Amman, Jordan** – Dr Shivendra Bajaj participated in the ISF mid-year technical meetings held in Amman, Jordan from October 19-23 and update the members on Plant Breeding Innovation and Sustainable Agriculture Committee. He also represented FSII in ISF National Seed Association meeting.

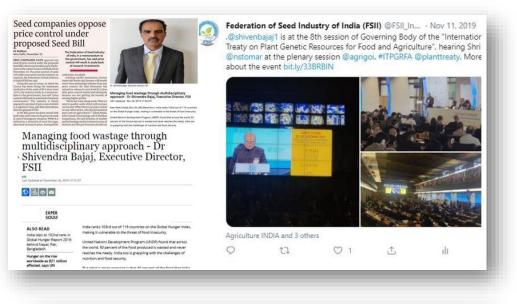
# November 2019

FSII celebrated World Science Day with creatives, blogs and LinkedIn blogs focused on drones, AI, sustainable techniques to produce plants such as hydroponics, importance of soil to grow quality food and articles focused on food wastage.

FSII leadership also spoke to the media to oppose the price control under the proposed Seed Bill, emphasising that price control will result in scale back of research investment.

Shivendra Bajaj also participated at the 8<sup>th</sup> session of Governing Body of the International Treaty on Plant Genetics Resources for Food and Agriculture held at Rome.

Shivendra Bajaj also represented FSII in Asian Seed Congress organized by Asia Pacific Seed Association held in Kuala Lumpur, Malaysia. Shivendra was the invited speaker in the technical session on Access and Benefit Sharing and updated India's developments on this topic. Shivendra also made a presentation in the National Seed Association meeting in the Asian Seed Congress. He was also the winner of the 3.2 Km fun run organized by APSA during the seed congress.



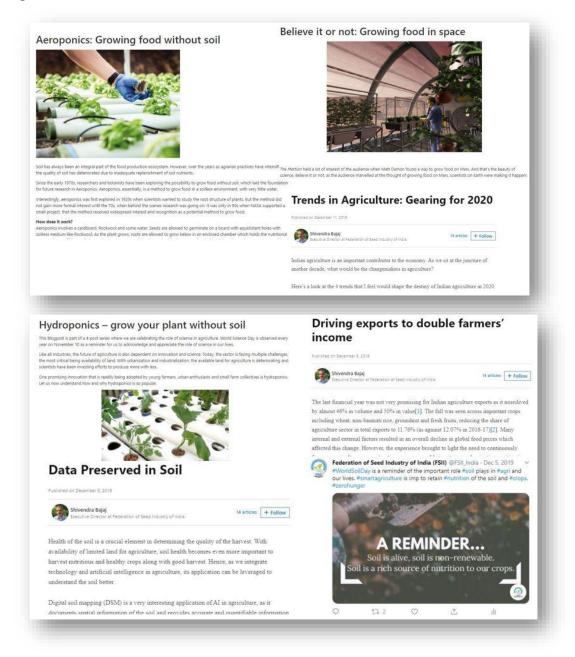


AAI connected with JS and Vice chairperson GEAC regarding various pending guidelines.

# December 2019

The year ended with a positive note where FSII was widely covered through articles written on various topic such as Conservation Agriculture and various ways for farming in future. The article got covered in Dainik Bhaskar, Pioneer, Dainik Savera, Andhra Prabha, Prajapaksha, Surya, The Hans India, Vaartha and Agrospectrum.

While celebrating World Soil Day, various blogs and LinkedIn blogs were also written around Hydroponics, Aeroponics, how food is grown in space, determining the quality of harvest through soil, driving exports to double farmer's income and the trends that will be picked up in Agriculture in 2020.





**FSII** submitted a letter to Secretary Agriculture and JS- Seeds regarding Potential Challenges in complying with the Refugia in Bag (RIB) in Bt Cotton. Also, letters were submitted to Chairman-NBA detailing the issues to be discussed during brain storming session on Access and benefit sharing Mechanism for seed sector

In a major achievement, the National Biodiversity Authority agreed to FSII request and organized a stakeholder meeting with seed industry on the issues faced by the industry. Shivendra Bajaj made the presentation on behalf of FSII.

# January 2020

The United Nations declared the year 2020 as the International Year of Plant Health (IYPH) and FSII took the opportunity to engage. A yearlong campaign was planned for awareness and education of our stakeholders in this subject. Therefore, content was created around it.

FSII also issued a press release urging Government of India to restore the 200% income tax deduction (under the section 35 (2AB) of the Income Tax Act, 1961) for the in-house Research and Development (R&D) expenditure in seed industry in the upcoming Union Budget. Further, it has also been highlighted that India too has a well-developed seed industry, varied agro climatic conditions, seed production expertise and the necessary infrastructure which can make India a global seed export hub. The story was carried widely and appeared in The Hindu Business Line, Outlook India, Business Insider, The Financial Express, UNI etc

Industry Meetings: Dr Shivendra Bajaj participated in the Industry meeting organized by Croplife International held Washington DC and presented India's situation on biotech. Shivendra also met with representatives of American Seed Trade Association (ASTA) and discussed mutual collaborations. As a result of these meetings ASTA agreed to fund the development of Plant Breeding Innovation videos in Indian languages





**FSII** met with Union Minister, Minister of State and Secretary Agriculture to submit recommendations for the upcoming Union Budget for the growth of Indian seed sector. We also connected with JS-Seeds requesting for convening the meeting of the committee under the cotton seeds price (control) order, 2015 to recommend the maximum sale price of Bt cotton seed for the year 2020 and uniform sampling procedures for testing Bt protein in Refugia in Bag (RIB) for cotton hybrid seed.



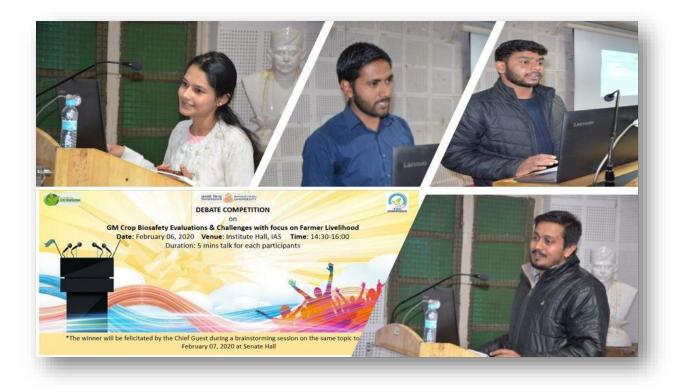
# February 2020

## **Banaras Hindu University Event**

Topic: GM Crop Biosafety Evaluation and Challenges with Focus on Farmer's Livelihood

**Objective:** Re-initiate discussion on access to good quality seed including GM crops

An extempore competition was held where 11 participants were shortlisted for the final competition. Students actively participated in the competition and came forward to share their views on the topic. The research scholars from the Genetics & Plant Breeding (GPB) stream spoke about the cultivation of GM crops and urged to use the potential in utilizing the Genetic Engineering technology to harvest better products. Some participants also focused on the need of the development of GM crops so as to meet the food requirement of the everincreasing population. They also discussed about the Bt cotton cultivation by farmers the illeffects caused by it, the genetic pollution and the hazardous effect to animals and human. The limitation of GM crops.The climate change as a major challenge was also put forth by the students and they supported the notion that growing of GM crops assures desirable yield to the farmers in this situation. Some students discussed about the myths and the lack of awareness regarding GM crops cultivation in our society.



## The Hindu Business Line Summit

Topic: Re-Imagining India's Agriculture

**Objective**: To analyse the issues confronting the agriculture sector, map out the complexities of the problem, chart out strategies and discuss the necessary policy interventions to provide



ahead for farmer-producers and industry partners.

From FSII, Mr Ram Kaundinya, Director General, participated in a panel discussion on Balancing farm productivity & sustainable agriculture. The other panellists who were part of the discussion were Mr Nasim Ali, CEO, Plantations Business, GodrejAgrovet; Mr GV Ramanjaneyulu, ED, Centre for Sustainable Agriculture; Mr John Mathews, President-Marketing, T Stanes and Mr Simon Wiebusch, COO, Bayer.

# Stakeholder Dialogue organised jointly by Trust for Advancement of Agricultural Sciences (TAAS) and Indian Society of Seed Technology (ISST).

Topic: Stakeholder's dialogue on Way Forward for the Indian Seed Sector

**Objective:** To discuss major constraints and find possible solutions for faster growth of Indian seed sector, seek views of different stakeholders on the revised draft "Seed Bill 2019", suggest measures to strengthen seed health and seed quality assurance system in the country, and review options of promoting seed export from India.

Dr M Ramasami, Chairman, FSII spoke about private sector's contribution in the seed industry and Mr Ram Kaundinya, Director General, FSII presented his view on the regulatory reforms for growth of Indian seed sector.



**Topic:** International Conference on Pulse as the Climate Change Crops: Challenges and Opportunities at Bhopal, India

**Objective:** To address long-term sustainability of global agricultural production system through diversification/intensification of crop/farming systems with pulses through an eco-friendly approach. To address the critical gaps in understanding the production constraints, issues of eradication of protein malnutrition for food deprived people, application of modern genetic tools and biotechnological interventions for pulses improvement and in-depth insight

for underline principles of adaptation of pulses to diverse climatic condition. Policy issue, PPP, ICT and social networking including the need for critical support systems were also addressed.

FSII was a co-sponsor of the event and was represented by Dr Shivendra Bajaj.



## FSII's Reaction on budget and review of cotton seed price

FM gives mini doses of joy to b	lotech	Outlook				
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W H0 2, 2020, 04:22 (ST	·	Agri industry & experts give mixed bag of response on				
lowever, Ram Kaundinya, director general, Federation of Seed Industr	Construction Carlo	budget				
FSII), rued the lack of structural reforms in agri-biotech sector. "While t that they wanted to make the Indian farmer competitive, she did not ta		The manyous monitored with help status generate of mill, production by more flow 0 per term and also relationers that any operation of the generators of the delay statute containess to play a statute or delay of the statute of the delay statute containess to play a statute of the statute of the delay statute containess to play a statute of the statute of the delay statute of the delay statute of the statute of the statute of the delay statute of the statute of the statute of the delay statute of statute of the statute of statute				
modern science and technology in seeds"	ik about baing					
Kaundinya also expressed scepticism about the government's emphas Budget Natural Farming (ZBNF) stating that it cannot take our farmers		"While the PM solid that they wanted to make the Indian former competitives, she did not tell anything about using nonless parameters or methodogy in such, transming from mechanization and other inputs which are essential for this," he added.				
competitiveness and financial security.		Eddlar sell industry body SEA said it was expecting at least this year the government will come out with a peakage of assentives for higher production and productivity of othereds to reduce our dependence on import of addle oth.				
Government to review cotton seed price Both the National Seed Association of India (NSAI) and Federation of Seed Industry of India (FSII) have asked the government to raise cotton seed prices. "Cotton seed price should go up by at least 5-10 per cent to treach Rs 770-800 per 450 gm pack. Cost of labour accounts for 60 per cent of the cost of seed production, and it has gone up in the recent past. We feel that there is a need to increase seed price to meet the higher cost of production," NSAI president M Prabhakar Rao told ET. The hike in minimum support price of cotton has also led to rise in seed production, said Ram Kaundinya, director general, FSII. "Ideally, we want the price control order to be revoked as it has resulted in reduction in research investment by both biotech and seed companies. But if it continues, then seed prices should increase by 10 per cent to 88 800-810 per 450 gm packet to offset the cost of seed production," said Kaundinya. <b>Emphasis on new crop</b> technologies to boost India's climate action - Dr Shivendra Bajaj-FSII	नई दिल्ली आम बजट प बह सहकारी क्षेत्र की खोज ने कहा कि जि अन्य बजट र की आय दीप बनाने और व Budget for ac manuer: FSII New Delh, Feb I (07) manser, the Federal Wave Water FSII New Delh, Feb I (07) manser, the Federal Wave Delh, Feb I (07) manser, the Federal Wave Delh, Feb I (07) manser, the Federal Finance Manter Nir today. Ram Karendryn, Die so acton points are velocome Creating pri and waste lands they in FPF mode, entable introduce ordigents	मे सहकारी कर घटाने का किया स्वागत (वाती)। इफको के प्रबंध निदेशक उदय शंकर अवस्थी ने शनिवार को स प्रतिक्रिया में कहा कि इफको से 36000 सहकारी समितियां जुड़ी हैं और कर घटाने के प्रस्ताव का स्वागत करते हैं। उन्होंने वित्त मंत्री को सहकारिता व खबर लेने के लिए बधाई दी है। एफएसएसआई के अध्यक्ष डा. रामासामी वत्त मंत्री द्वारा पेश बजट में कृषि पर विशेष रूप से ध्यान दिया गया है। यह से काफी अलग है। कृषि पर ध्यान केंद्रित किए जाने से सरकार को किसानों गुनी करने में मदद मिलेगे। उन्होंने किसानों को वैश्विक स्तर पर प्रतित्म्यधी न्हें बाजार तक सीधी पहुंच प्रदान किए जाने का स्वागत किया है। 200-21 focuses on agriculture in substantial to of Seel Indury of India (PSII) sid es Sardar. 2014 किए क्या के दिया का स्वायत किया है। 2014 किए कि प्रति (PSII) का कि इक्सकार का कार्यकार कार्य कांक्ष कार्यकार का कार्यकार का कार्यकार का किसानों कार्य कांक्ष कार्यकार का कार्यकार का कार्यकार कार्य कार्यकार कर कार्यकार (PSII) sid es Tor 200-21 in Parlament eter General of (PSII, said, The badget for 200-21 in Parlament eter General of (PSII, said, The badget is a mindo by for apicalizer. The foll carthet. Especially the point mainton to the following are very modi of each back with the involvement of follow gain are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back that Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back with Utate to the following are very modi of each back				

**FSII** continued with its efforts for early fixing of cotton seed price with JS-Seeds and also took up the query on the dimensions of the Truthful Label on the Seeds Container/package-Specifications for the size, contents, colour, mark or label to be affixed on the Seeds Container.

FSII also write to Advisor and Director Plant protection requesting for declaration of 'Country free from specified pathogens' for ToBRFV and four pospiviriods as quarantine requirement for export of Tomato and Capsicum seed to USA and EU.

FSII participated in Industry Consultation on Digital Sequence Information organized by NBA and submitted FSII and international positions on ABS. A letter was also submitted to Secretary NBA on implementation of BDA.

**AAI** submitted comments for the Draft regulations for Gene editing in agriculture.

# March 2020

FSII engaged with members and run a weeklong campaign on International Women's Day to showcase how women are contributing to the seed industry which is predominantly dominated by men.

With lockdown imposed across the country due to Covid-19, FSII engaged with the Government of India and respective state governments to free the restriction rules for the movement of agri inputs. The news was widely covered and got published in The Financial Express, The Economic Times, Business Standard, The Hindu Business Line, The Times of India, Nav Bharat, Pune Express, Dainik Adhikar, Dainik Bhor, Dainik Navjyoti, Rajasthan Patrika, Andhra Prabha, Prajashakti, Sakshi etc

परान का प्रवर्ग का राष्ट्र गाएँ। संस्ववेत द्वारा किए गएँ प्रयासों का समर्थन करता हैं। अगलं तीन मारु किरातां के लिए एवंद देश में रजाय युरक्षा के लिए खहुत महत्वपूर्ण हैं, क्योंक किसान इस समय खरीफ के आंस की तीयारी कर रहे हैं। बीज ज्यांग पह सुनिश्चित करने के लिए काम कर रहा हैं कि किसानों की जरूरतों को पुरा करने के लिए बीजों का पर्यात उत्पादन, प्रोसेंसिंग, पैकिंग, परिवालन ए सबस के से बी सिप्टेर में लिए एफए स्टिंग का के सी सि दुर्पसर्थ संसद हरीका लेक की जिन संसद स्विका कर की कि जपन महत्व कर से बीका की ता पर महत्व कर से बीका की ता पर महत्व कर से बीका की ता का प्रकार की कर की कर कर हरका कर की कर की कर कर की कर की कर	भले भारत है । हा उन भले के सामय के साराप्त के भी होना के सामय का कि सामय का का साम के भी होना के सामय का कि कि साम का साम का साम भी होना के सामय का कि कि मान के साम का के साम	सिम्भाउ सुमिम्भाउ सुमिम्भाउ सुमिम्भाउ सुमिम्भाउ सुमिम्भाउ सुमिम्भाउ सुमिम्भाउ सुमिम्भाउ सुमिम्भाउ सुमिम्भा सुमि	સંચાર જળાળી રાખ્યા ગંભા તે તો પંચ પંચાય કે	ખુવા માટે કરશે ( મેતા છે. આ છ	AddEan III In several IIII IN several IIII IN several IIII IN several IIII IN sev	(21) स्वर्थिक पत्रां में भीक उत्पादन (क्या) मित्रा और में मीक इस समय देखेंगे ( क्या) में पीकी पर आताहे में स्वीक क्योंकिंग प्राया में की क्या के स्वाय में क्या हुए जीवों लेगों के की क्याई सींग, प्रोतिशिंग पूर्व हैं, जो सिंबर में संस्थन है। विराहा की क्या क्यां की की की सिंग,	of agri in arif sease arif sease	nputs on yar description water and the second of the second on the second of the second of the second on the second of the second of the second of the second of the second of the secon
ਕੋਸ਼ਿਸ਼ਾਂ ਦਾ ਸਮਰਥਨ ਕਰਦਾ ਹੈ। ਉਨਾਂ ਲੋਕਾਂ ਦੀਆਂ ਕੋਸ਼ਿਸ਼ਾਂ ਦੀ ਸ਼ਲ	तती (२०११) में स्वर्थना का तरावणी का तरावणी का तरावणी का का को लोगों को सुरक्षा के लिए निरास स्वर्थ का रहा है। उन्हें होने साल पर ता की स्वा संस्वरोग देने के लिए रुप राजे के लिए की लोगों का स्वर्धकरा जैरा में खादा मुख्य की लातार का कर तर है। या कोडिन्द, को स्वर्गकरा जनताल, एपपराधाई की लाता का का का रहे हैं। या कोडिन्द, को स्वर्गकरा जनताल, एपपराधाई की स्वर्णकरा का स्वर्गकरा के लिए कुछ स्वर्गकरा के लिए सहुत	પ્રયત્નોની પ્રશંસા કરીએ છીએ, જેઓ લેકોની સુરક્ષા માટે સતત કામ કરી રહ્યા છે અને કૃષિ	ખાત્રામાં પ્રાપ્ત થવેલા ભીજે તેવી હાઇન, કોર્ટી, પ્રાંચિંગ, ચોલિંગ, તેલા પ્રોડિંગ, તેલા પ્રોડિંગ, તેલા પ્રાપ્તિ પ્રાપ્ત પ્રાપ્ત પ્રાપ્ત કરતાં પ્રાપ્ત પ્ર પ્રાપ્ત પ્રાપ્ત પ્ર પ્રાપ્ત પ્રાપ્ત પ્રાપ્ત પ્રાપ્ત પ્ર પ્રાપ્ત પ્ર પ્રાપ્ત પ્ર પ્રાપ્ત પ્ર પ્રાપ્ત પ્ર	ઉત્પાદન સુનિશ્વિત થઈ શકે. નેશનલ તથા સ્ટેટ ટોલ બુઘ, ચેક પોસ્ટ તથા હાઈવેઝ પર ગ્રીન રોડ/	सरकार द्वरा किए गए प्रव सन्दर्भन करण है। इस उन प्रथमों की सरहना करने	गरि पर पुरुषे वसी भारत में साल पुर केसी में के देने पार्थ्य, रेसिए, अमेरिशा पर है, को फिल के सोमप्त है। तिना के सोमप्त है। तिना के सोमप्त के तिए पार्थ साथ प्रति में के स्वेत के साथ पार्थ का से साथ पर के दर्ज के साथ के साथ का साथ पर के दर्ज के साथ के साथ का साथ पर के दर्ज के साथ के साथ का साथ पर के साथ का साथ का साथ पर के साथ का साथ पर का साथ का साथ पर का साथ का साथ का साथ पर का साथ का साथ का साथ पर का साथ का साथ का साथ का साथ साथ का साथ का साथ का साथ का साथ का साथ साथ का साथ का साथ का साथ का साथ का साथ साथ का साथ का साथ का साथ का साथ का साथ का साथ साथ का साथ का	मुनिश्चित हो सके। नेवानल एवं स्टेट टोल कुम्ब, चेक चीस्ट वर्ष हाईने फा ग्रीन प्रथ म्पेहल फुट्ट प्रथ सूहल्वी	भारते की अनुसार है पास्ता है . की कंडोर की 500 रहन कर 100 की का सम्पन्न प्रारंद अपने अपने की का सम्पन्न कुर्वाका उनकी हुए पर स्वाप के मुर्वाका उनकी हुए पर स्वाप के स्वारा । उसकी का अपनिय कि कोर्ट की पारंत अपनि का जीत कोर्ट की पारंत अपनि का जीत कोर्ट की पारंत का अपनिय की कोर्ट की पारंत का अपनिय की कोर्ट की पारंत का अपनिय की पारंत कोर्टका के का प्रारंत का पारंत कोर्टका की पारंत का अपनिय कोर्ट की के नित्य उपनारकों की पारंत कोर्टका की पारंत का उसकी की पारंत कोर्टका की पारंत का प्रारंत की



**FSII** wrote to DG-ICAR regarding collaboration between seed industry and ICAR.

**AAI** participated in stakeholder meeting organized by DBT on draft guidelines on gene editing for agriculture, where we reiterated our position.

AAI also connected with DBT regarding the guidelines for stacked GM events.

**Post lockdown FSII** actively connected with Union minister for Agriculture and Union minister for Health regarding the continuation of seed movement and agricultural operations. Similar requests were sent to JS seeds too. To smoothen the seed import for R & D purposes during lockdown, we connected with NBPGR.

FSII also reached out to DPIIT control room for support for smooth seed movement and operations. We also write to Special Secretary-Agriculture for banking services to support agricultural operations during lockdown.

# April 2020

FSII participated in the International Campaign run by CropLife Asia to celebrate the Food Security Frontliners in Covid19. Mr Ravichnadran and Mr Ganesh Nanote were shortlisted and featured as the two farm heroes from India.

Other media opportunities included an interview of Dr Shivendra Bajaj with Seed World and Mr Ram Kaundinya with Agriculture Today. A press release was also issued to showcase the contribution by FSII members towards Covid 19 relief measures. It was widely covered in media and was published by Deshbandhu, Sanjivani, Vir Arjun, Samyuktha Karnataka, Sanje

prabha, Trinity Mirror, Southern Mail, News Today, Dina Bhoomi, The Times of India, Sakshi, Vaartha, Andhra Prabha, Prajapaksham, Aadab Hyderabad etc.



# Advocacy and Outreach-

**FSII** reached out to Union government for urgent policy support during the COVID pandemic as well as smooth operations of seed businesses.

FSII connected with JS-Seeds via video conferencing to put forward our issues in various aspects of the business and their impact. There was an independent connect on seed export too.

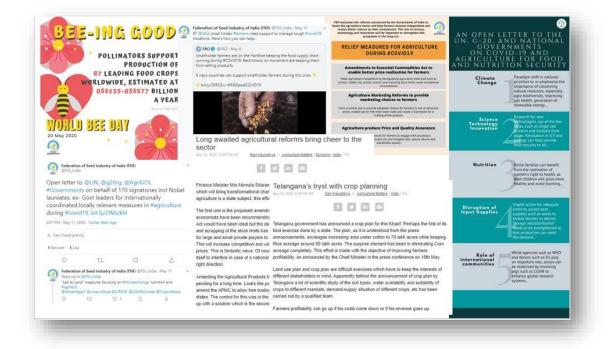
We also connected with NBA, PPVFRA, NBPGR, multiple ICAR institutes, GEAC and JS-Seeds on Digital Sequence Information and continuing Public-Private Partnerships within the seed sector.

# May 2020

FSII welcomed the new initiatives on agri market reforms, price and quality assurance and the reaction was widely covered in the media. Mr Ram Kaundinya's one-on-one interview was conducted with The Economic Times and his article on new crop plan policy by Government of Telangana, Time for Mechanisation and automation and on long awaited agricultural reforms were also published. Dr Shivendra Bajaj's article on Need for GM crops in India and Need for Innovative Technology in agriculture were also published. An article on Growing quality food & Meeting nutritional requirements through Urban Agriculture were co-authored by Dr Ratna Kumria and Dr Shivendra Bajaj.

Further, Mr Ram Kaundinya also moderated a webinar on Approaches and strategies to support Vegetable Farming Post Covid 19 organised by FICCI.

Dr Shivendra Bajaj joined experts from Asia Pacific countries to discuss Impact of Covid 19 on seed trade, a webinar organised by The Asia and Pacific Seed Association (APSA) and made a presentation about India's situation.





**FSII** reached out to JS-Seeds regarding Seed export /import activities impacted by COVID 19 lockdown as well as to NBPGR on R & D related seed import.

FSII connected with Additional Director and Special Commissioner agriculture in AP regarding Seed Control Order (1985) – Issuing stop sales for premium hybrid Chilli seeds - positioned at Private Dealer Outlets in the district of Guntur.

**AAI** wrote to GEAC chairperson to expedite the formulation of regulations for GM feed import, similarly we connected with Chairperson FSSAI regarding the GM food import regulations that are pending with the authority.

# June 2020

The month was filled with interviews and articles of the leadership in the media. The topics that were covered were – preparation of Kharif sowing, Importance of pulses, Importance of plant architecture for sustainable agriculture, India need oilseeds mission, Rural entrepreneurship through agriculture, Skill development in agriculture for a self-reliant India and Covid 19 crisis an opportunity to upgrade agriculture sector.

FSII also started an interview section called 'Thoughts & Views' to capture the views of experts in the agriculture sector. We started the section with the interview of Dr Siang Hee TAN, Executive Director, CropLife Asia.



**FSII** wrote to Chairperson PPVFRA seeking extension in filing of applications due to Covid-19 pandemic.

FSII wrote to Secretary Agriculture regarding FDI and seeking support for agricultural research. We also reached out regarding farmer's agreement on price assurance and farm services ordinance 2020.

**AAI** organized a video conference with RCGM regarding issues related to IBKP. We also requested CEO-FSSAI to look into the pending GM oil import applications.

# July 2020

The month was filled with interviews and articles of the leadership in the media. The topics that were covered – New business opportunities for Investors in Agriculture, Condusive regulation for adoption of new plant breeding technologies, GMO crops are safe and nutritious and India needs to feed its population, R&D is the way forward for a robust agriculture sector and India can become a hub for seed exports.

A press release was also issued from AAI to celebrates 25 years of growing GMO crops globally which was widely covered in the media. Apart from this, through social media, AAI has been posting positive stories around GM technologies on regular intervals. Resulting, the prestigious Genetic Literacy Project published Dr Shivendra Baja's article on GMOs safety and why India needs to adopt it.

Mr Ram Kaundinya was a speaker at the webinar conducted by International Consortium on Applied Bioeconomy (ICABR) on Regulation of Biotechnology in Livestock and Plants. A webinar on 'Do India's Agri-Reforms Unleash New Opportunities?' was moderated by Mr Ram Kaundinya.

In the interview section on 'Thoughts & Views'. FSII covered Mr S Nagarajan, COO, Rallis India Ltd.





**FSII** connected with Chairman NBA on legislative and operational issues related to the seed industry. We also wrote to JS- Seeds on various industry issues.

**AAI** was invited to 20th meeting of scientific panel on GMO & Foods, which was attended by CEO-FSSAI to present our case of pending oil import applications. The CEO agreed to request GEAC to take up the applications till FSSAI was ready with the GM food import regulations.

AAI also submitted recommendations to address the illegal planting of HTBT cotton to Secretary Agriculture.

# August 2020

The month started with a press release urging Government of India and respective State Governments to allow Bt Brinjal Field Trials in India. It was widely covered in media – The Print, Agriculture Today, BioVoice, Agriculture Post, Dainik Bhaskar, Nav Bharat etc

Further, articles by leadership on Safety and regulation of GM crops in India, To Bt or Not to Bt – does this question persist anymore, Biologicals in Agriculture, Abrupt Ban of 4 Seed chemicals could spell doom and Transforming vegetable sector were published.

FSII also shared reaction on the Unsolicited seeds that were received through parcel in US and other countries. Our reaction was widely covered through The Times of India, The Financial Express, Deccan Herald, Business Today, NavBharat Times, Prabhat Khabar and Mr Kaundinya was interviewed by CNBC Awaz and CNBC TV 18.

FSII also ran a campaign on Independence Day by involving member companies to nominate their employees who are from farming background and are making a difference in the seed industry. An overwhelming response was received by FSII and the social media posts gathered a lot of traction. A special video was also developed by FSII for farmers on Independence Day by urging consumers to accept and give the farers the freedom to adopt technologies for their filed and help to elevate their socio-economic status in the society.

Mr Ram Kaundinya joined agri experts to discuss the Implementation of Access to Plant Genetic Resources and Benefit Sharing (ABS) in agriculture. The webinar was organised by Alliance of Bioversity International and CIAT, ICAR-NBPGR, Indian Society of Plant Genetic Resources (ISPGR), National Biodiversity Authority (NBA), Protection of Plant Variety and Farmers' Right Authority (PPV&FRA) and Trust for Advancement of Agricultural Sciences (TAAS).

In the section 'Thoughts & Views' FSII covered Dr S. Rajendra Prasad, Vice-Chancellor, University of Agricultural Sciences, Bangalore.







**FSII** connected with government regarding the possibility of online submissions of applications to Central Variety Release Committee (CVRC).

**AAI** wrote in support of allowing trials to Union Minister for Agriculture, Agricultural Secretary, Chief Ministers and Agricultural secretaries of 8 states for which GEAC had granted Bt Brinjal trial approval.

AAI also re-submitted the comments on draft regulations on GM food import to FSSAI. An update of the IBKP issues was also submitted to RCGM.

AAI wrote to Chairman-FSSAI, CEO-FSSAI, Chairman CEBC, DG DGFT regarding the FSSAI order on requirements of Non-GM cum GM certificate accompanied with imported food consignments.

# AAI has collaborated with CLA and APAARI on - Outreach and communication strategy for Gene Editing acceptance in India

Gene editing focused social media outreach efforts are being made to create awareness regarding the <u>technology</u>, <u>benefits</u>, <u>potential and regulation</u> has been taken up.





#### Newsletters

#### Seed Connect – FSII Newsletter



#### Agri Innovation Post – AAI Newsletter



# Additional Activities

CSR Booklet



# Website Development



Video Development – Plant Breeding Innovation

AAI collaborated with ASTA to develop Plant breeding Innovations videos for the Indian audience in multiple languages (English, Hindi, Marathi and Telugu). These were posted on our YouTube channel.



https://www.youtube.com/watch?v=q9jvkxygdxM&t=52s

FSII Video development – Understanding GMOs



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