



निर्देशक की डेस्क से

ICAR-IISR की तरफ से बधाई!

सोयाबीन भारत एवं विश्व की एक महत्वपूर्ण तिलहनी फसल है। यह मनुष्यों, पशुओं एवं मछलियों के लिए अच्छी गुणवत्ता वाले प्रोटीन के सबसे किफायती स्रोतों में से एक है। इसके क्षेत्रफल एवं उत्पादकता में वृद्धि हमारे शोध का मुख्य लक्ष्य है। भा. कृ. अनु. प.- भारतीय सोयाबीन अनुसंधान संस्थान, इंदौर से "सोयाबीन समाचार" के वर्तमान अंक को प्रस्तुत करने में मुझे बहुत खुशी है।

यह यह जुलाई से दिसंबर, 2021 की अवधि के लिए समाचार और घटनाओं, और प्रमुख अनुसंधान उपलब्धियों की झलक प्रदान करेगा। एक नई पहल के रूप में, हमने नई जारी किस्मों और बेहतर कृषि पद्धतियों का लाइव वर्चुअल फील्ड प्रदर्शन किया है। उच्च उपज, जल्दी परिपक्वता, उच्च ओलिक एसिड और अन्य खाद्य ग्रेड विशेषताओं जैसे विभिन्न कृषि और पोषण संबंधी महत्वपूर्ण लक्षणों के साथ पांच नई किस्मों को अधिसूचित किया गया था। संस्थान के कृषि-व्यवसाय रुष्मायन केंद्र ने युवा उद्यमियों का प्रशिक्षण शुरू कर दिया है। इस यूनिट में नए उपकरण लगाए गए हैं। इस खरीफ सीजन के दौरान विभिन्न महत्वपूर्ण विषयों पर कई वेबिनार आयोजित किए गए। आई.सी.ए.आर.- मध्य भारत समाचार ने किसानों के बीच जबरदस्त लोकप्रियता हासिल की है।

सोयाबीन उत्पादन और उपयोग में काम करने वाले उद्योग और गैर सरकारी संगठनों के साथ संबंधों को मजबूत किया गया है। सोयाबीन फसल सीजन के दौरान यू-ट्यूब चैनल और वाट्सएप के माध्यम से किसानों को लघु फिल्मों और सलाह दी गई। कई महिला किसानों को विभिन्न सोया-खाद्य पदार्थों को तैयार करने के बारे में भी प्रशिक्षित किया गया, जो इसके स्वास्थ्य को बढ़ावा देने वाले लाभ हैं।



From Director's Desk

Greetings from ICAR-IISR!

Soybean is an important oilseed crop of India and world. It is one of the cheapest source of good quality protein for humans, animals and fish. Increasing area and productivity of soybean is the main focus of our research plan. I have great pleasure in presenting the current issue of "Soybean News" from ICAR-Indian Institute of Soybean Research (ICAR-IISR), Indore.

It will provide glimpses of news and events, and salient research achievements for the period July to December, 2021. As a new initiative, we have conducted live virtual field demonstration of newly released varieties and improved agronomical practices. Five new varieties were notified released with various agronomically and nutritionally important traits such as high yield, early maturity, high oleic acid and other food grade characteristics. The Agri-Business incubation Centre of the Institute has started training of young entrepreneurs. New equipment have been installed in this unit. Several webinars were organized during this Kharif season on various important topics. The ICAR- Madhya Bharat Samachar has gained tremendous popularity among farmers.

Promotions of all the staff has been done in time. Several webinars were organized during the Kharif 2021 season to guide the farmers. The linkages with industry and NGOs working in the soybean production and utilization have been strengthened.

During the soybean crop season, short films and advisories were provided to farmers through You-tube channel and Wattsapp. A number of women farmers were also trained regarding preparation of various soya-foods its health promoting benefits.

Visit of Dr A.K. Tiwari, Director, Directorate of Pulse Development, Bhopal to the ICAR-Indian Institute of Soybean Research, Indore

Dr AK Tiwari, Director, Directorate of Pulse Development, Bhopal, along with Deputy Director Agriculture District Indore, Shri SS Rajput visited ICAR-Indian Institute of Soybean Research on July 15, 2021 and discussed various issues related to the various activities and measures including the research trials being undertaken for development and promotion of climate resilient technologies and practices recommended by ICAR-IISR in order to meet the needs of technologies and technical know-how for soybean farmers in the context of changing climate scenario. Dr Nita Khandekar, Director, Indian Institute of Soybean Research, on this occasion informed about achievements of ICAR-IISR especially about the development of climate resilient varieties as well as practices/methods suitable as mitigating strategies in view of changing climatic conditions which included notification and release of 15 soybean varieties during March 2021 which are recommended for the farmers of different climatic zones, out of which 8 varieties have been recommended for Madhya Pradesh.



Further elaborated about the overall scenario of varietal preference given by majority of the farmers to single short duration variety i.e. JS 95-60 which of late has found not been able to cope up with the increased insect pest load being experienced very frequently now a days. To go ahead with this, the ICAR-IISR has started promotion of other soybean varieties which also include JS 20-34, JS 20-69, and JS 20- 98 in addition to latest varieties like NRC - 127, NRC -130, NRC -138, NRC – 142, RVSM- 2011- 35. RSC- 10-46. RSC-10-52. and AMS 100-39 through organization of training and other extension programmes. Incharges of various divisions Dr. Sanjay Gupta (Crop Improvement), Dr Mahaveer Prasad Sharma (Crop Protection) and Dr B.U. Dupare (Crop Production) were present during visit.

Webinar on “Speciality Soybean for Food & Nutritional Security”

Commemorating 75 glorious years of the India’s independence, as " Azadi ka Amrut Mahotsav " the ICAR-IISR, Indore has conducted a webinar on “Specialty Soybean Varieties for Food & Nutritional Security” on 26th August, 2021 under the theme of "Food and Nutritional Security for Farmers" consequent on the directive received from Indian Council of Agricultural Research, New Delhi. About 750 participants including progressive farmers, scientists, officers from agricultural and allied department as well as soybean based industries attended the webinar using online zoom platform which also was telecasted simultaneously on the YouTube channel of the institute. Acting Director of the Institute Dr Nita Khandekar spoke about the gross under-utilization of

soybean for protein and various traditional food items like soymilk, soy paneer, yoghurt, snacks etc. can be prepared using soybean for increasing their nutritional properties through fortification.

The speaker of this webinar, Dr Vineet Kumar, Principal Scientist, discussed about the need and nutritional properties of specialty soybean varieties of soybean developed by ICAR-Indian Institute of Soybean which if promoted can bring desirable changes in the health of those who cannot afford protein rich food items. He also said the institute has succeeded in the development of the first Kunitz trypsin inhibitor free soybean variety of the country “NRC 127”, which has been notified by the Government of India during the year 2018 and whereas “NRC 142” having both the desirable characters of Free from KTI as well as lipoxigenase-2 acid, responsible for beany/off flavor to soy products. Further discussed about another specialty soybean variety “NRC. 147” having high oleic acid content, responsible for increasing the shelf life of soy oil. The variety has about 43-45% oleic acid compared to only 23% normally available in other varieties of soybean, which is more preferred character from the view point of vegetable oil industry. The programme was chaired by Dr B U Dupare and co-chaired by Dr Savita Kolhe.

ICAR-IISR, Indore conducted a “Live-Virtual Field Demonstration” of Improved Soybean Varieties and Agronomic Practices, First time in India

ICAR-Indian Institute of Soybean Research (ICAR-IISR) organized “Live Virtual Field Visit” of the Demonstration Plot of the field covering Improved Soybean Varieties & Production Technologies through 'YouTube channel' and 'Facebook page' for the first time on 27 September 2021 under the celebrations of "Azadi ka Amrit Mahotsav". Dr Nita Khandekar, the Acting Director of the institute, in her address to the farmers, said that through this "live virtual programme" the latest soybean varieties and other technologies & practices developed by the institute will reach more and more farmers. She also briefed that the ICAR-IISR is formulating new strategies and mechanisms for the spread of the new varieties’ seed released by the institute among the farmers of Madhya Pradesh. These varieties have resistance to insect/disease which at present are the serious concern to the soybean growers.

This year, the institute in its demonstration plot, have grown a total of 9 soybean varieties (NRC 127, NRC 128, NRC 130, NRC 138, NRC 142, RVSM 2011-35, RSC 10-46, RS. C. 10-52, and A.M.S. 100-39) recommended for different regions/states of the country on 1 hectare plot area. In addition, other agronomic practices especially useful in case of adverse weather conditions like drought and excessive rainfall viz; soybean cultivation using Broad Bed Furrow/Ridge & Furrow method were demonstrated which are visited physically every year by the farmers of major soybean growing states of the country. As the farmers are not able to visit in large numbers due to the present Covid situation, this innovative method has been used to reach the soybean stakeholders.

The main attraction of this live programme was direct interaction of farmers with the breeders and scientists who developed these varieties and technologies. During the virtual scientist-farmer interaction moderated by Dr BU Dupare, breeders of the institute



namely Dr Sanjay Gupta, Dr Anita Rani and Dr Vineet Kumar provided relevant information and also addressed the farmers' queries. This innovative and novel method of "Live Virtual Field Demonstration programme" was attended by about 750 farmers belonging to soybean growing states of the country who applauded the efforts of the ICAR-IISR through their positive comments. . The whole programme was coordinated by Dr B.U. Dupare and Dr. Savita Kolhe .

Webinar on "GM Soybean: Status and Biosafety Aspects"

A Webinar on "GM Soybean: Status and Biosafety Aspects", was organized jointly by the ICAR-Indian Institute of Soybean Research (IISR), Indore and Biotech Consortium India Limited (BCIL), New Delhi on November 29, 2021 under the chairmanship of Dr Nita Khandekar, Director, ICAR- IISR. The deliberations of the webinar included presentations and remarks by scientists and experts in soybean research, GM crops, biosafety issues and animal feed requirements. The webinar was attended by various stakeholders, including senior scientists, members of regulatory committees, industry, researchers etc.

Dr Nita Khandekar, Director, IISR informed about the research efforts underway in the IISR using marker-assisted breeding and other techniques and also sequencing of the soybean genome. She emphasized on the need for using advanced technologies including genetic engineering and gene editing for soybean crop improvement, as the productivity has to be increased for growing demand. Dr Milind B. Ratnaparkhe presented an overview of GM soybean and its status. He informed that globally GM soybean is being grown in more than 80% area of soybean cultivation. The major trait being herbicide tolerance and other traits include insect resistance, nutritionally improved oil etc. Molecular breeding, genetic modification and gene editing are three ways to improve crop production. Molecular breeding and transgenic approach have been taken by IISR scientists to develop drought-tolerant varieties. Gene editing is being used for seed composition traits as well. Dr. Sujit K Dutta, Joint Commissioner, Department of Animal Husbandry and Dairying discussed about nutritional requirements of livestock sector and challenges being faced. The production cost of chicken meat in India is very high due to high domestic soya prices. He stressed about increasing production of soybean in India to counter the soaring prices. He also indicated that GM soybean is being used world over and the same technology can also be used in India to ensure availability in cost effective manner so that the livestock sector can grow.

Dr Amrish Kumar Tyagi, Assistant Director General (Animal Nutrition & Physiology), ICAR discussed the nutritional deficit in animal feed, particularly in dairy sector and subsequent impact on milk production. He emphasized that increase in animal sector productivity can contribute to doubling farmer's income. Genetic modification of soybean can be a reasonable solution. He stressed on appropriate feeding studies of GM crop products before its adoption as food and feed. Dr B. Dinesh Kumar, Former Director ICMR-National Institute of Nutrition (NIN), discussed safety assessment methodologies of GM crops. He informed that compositional analysis, toxicity and allergenicity studies are carried out as part of safety assessment of GM crops. He shared

examples of various studies undertaken in NIN for GM crops developed in India viz. brinjal, mustard, okra, cotton etc. Dr Vibha Ahuja discussed the global status of GM crops and informed that the products of GM crops are being traded across more than 70 countries

Webinar on "Plant variety protection intricacies and impact on trait development"

ICAR-IISR, Indore organized Webinar on "Plant variety protection intricacies and impact on trait development" on 10th December, 2021. Dr R. R. Hanchinal, Ex-Chairman, PPV&FR Authority and Ex-Vice Chancellor, UAS, Dharwad, delivered the talk. The aim of the webinar was to encourage the farmers, scientist from different universities and research institutes to register any new or extant plant varieties under the PPV&FR Act, 2001, in order to safeguard intellectual property rights. Dr Hanchinal, emphasized the need to protect farmers' right. He further added the need for recognizing farmers with rewards in order to acknowledge their contribution in conserving local varieties. Farmers' varieties are eligible for registration and farmers are totally exempted from payment of any fee in any proceedings under this Act. The Protection of Plant Varieties and Farmers' Rights Authority also confers Plant Genome Savior "Farmer Reward" and "Farmer Recognition". The period of protection for field crops is 15 years and for trees and vines is 18 years and for notified varieties it is 15 years from the date of notification under section 5 of Seeds Act, 1966. Farmers can claim for compensation if the registered variety fails to provide expected performance under given conditions. Later on, a scientific interaction involving question-answer session was conducted. The webinar was convened by Dr Giriraj Kumawat and vote of thanks was proposed by Dr Sanjay Gupta.

Visit of ADG (OP) to ICAR-IISR, Indore

Dr. Sanjeev Gupta, Assistant Director General, (Oilseeds and pulses), Indian Council of Agricultural Research (ICAR) New Delhi visited ICAR- Indian Institute of Soybean Research, Indore today on 17th Sept 2021 and reviewed the progress of experiments and research trials being conducted at the Institute during this Kharif season. Dr Nita Khandekar, Acting Director, ICAR-IISR while welcoming Dr Sanjeev Gupta briefly presented the salient achievements made by the institute in recent years and its preparedness in the changed climatic scenario on account of aberrant weather conditions being experienced in the major



soybean growing states. The institute for the first time has been



successful in identification, release and notification of twenty four varieties in a single year having suitability for various soybean growing states of the country. These include eight soybean varieties especially suitable for Madhya Pradesh having characters like earliness, disease, pest tolerance, food grade characters etc.



Dr Gupta also visited the institute research-cum-experimental block and interacted with the concerned scientists about the progress of research programmes being undertaken. The visit included Crossing Block for improvement in yield and other quality parameters, Indigenous & exotic germplasm having characteristics for suitability across the latitudes, advanced varietal/station trials, DUS (distinctiveness, uniformity & stability), nucleus and breeder seed production, food grade and specialty soybean varieties, agribusiness incubation centre and demonstration block showcasing the newly developed varieties as well as methods recommended for mitigating the adverse impact of climate change.



In his brief address to the scientific staff, Dr Gupta stressed upon the dire need of identification of more germplasm having characteristics of water logging tolerance, climate resilience, high oleic acid content and also for the development of disease resistant varieties for major diseases which occur across the soybean belt of the nation. He also drew the attention of house towards incorporation of qualities like anti dehiscence (non seed shattering), anti pre-harvest sprouting (Anti-vivipary) and several other important characters in the current ongoing research activity. He emphasised on further working on resource conservation technologies in soybean. He further said that he was impressed with the vast areas of research being carried out at the institute and urged the scientist to work hard in the interest of the nation.



ICAR-Indian Soybean Research Institute, Indore in association with Tribal Research and Training Center, Deogarh Baria (Gujarat) organizes training programme on “Improved Soybean Production Technology”

ICAR-IISR organized “Online Farmers Training Programme on Improved Soybean Production Technology for Gujarat State” on August 12, 2021 in association with Tribal Research and Training Centre, DeogadhBaria (Gujarat) as a part of celebrations under the "Azadi ka Amrut Mahotsav" commemorate 75 years of the country's independence. A total of 77 progressive farmers from Dahod, Panchmahal, Vadodara and Amreli districts of Gujarat State participated in this training programme. Dr Nita Khandekar, Director of the ICAR-IISR briefed about increasing trend in the area of soybean experienced during the recent years in the state of Gujarat. Keeping in mind the technological needs of the Gujarat farmers, the institute has decided to organize a training programme which will facilitate flow of information among the farming community regarding latest recommended varieties and package of practices for production and protection of crop from biotic and abiotic factors. On this occasion, Dr Girishbhai Patel, Head of Tribal Research and Training Centre, Deogadh Baria (Gujarat) informed that the area of soybean crop which earlier was concentrated in the tribal dominated Dahod area adjoining Madhya Pradesh is now gradually increasing in other districts. He also informed that breeder seed production program of NRC 37, a popular variety of soybean, is also being taken up in Gujarat. A total of 5 technical sessions were organized in this online training program by Dr S. D. Billore, Dr Rakesh Kumar Verma, Dr A. N. Sharma, Dr Laxman Singh Rajput, Dr Mrinal Kuchlan as lead speakers.

On the occasion of the 71st birth anniversary of Prime Minister Shri Narendra Modi, several programs were organized at the ICAR-Indian Institute of Soybean Research, Indore on 17th September. Dr Sanjeev Gupta, Assistant Director General (Oilseeds and Pulses) of Indian Council of Agricultural Research, New Delhi, Dr. SS Tomar, former Director Research, JNKVV Jabalpur, Dr Nita Khandekar, Acting Director, ICAR- IISR, Indore and staff planted 100 Aonla trees in the institute. Hundred Aonla, mausambi, custard apple trees were also planted and hundred vegetable seed packets distributed among the villager from Rayan village of Dhar district.



This day is being celebrated by the Indian Council of Agricultural Research, New Delhi as the International Year of Millets, Kisan Diwas was also organized on 16th September in Rayan village of Dhar district in which about 100 farmers were participated. The scientists of the Institute also addressed the farmers with regard to the prevention of damage to the crop due to diseases and pests in soybean crop and the latest varieties. Speaking on the occasion, Dr. Nita Khandekar, Director of the Institute called upon the farmers to use new varieties in soybean and adopt the new



techniques given by the Institute and also informed the farmers about the usefulness of nutritious grains like Bajra, Ragi, sorgham etc. in human food and also told about its various uses. On the occasion of the 71st birthday of Prime Minister Shri Narendra Modi ji, 71 girls were made aware of the role of millets in daily diet and were served lunches including millets at the institute.

ICAR-Indian Soybean Research Institute, Indore, organized a programme on “Entrepreneurial Opportunities in Soybean Sector” for the school childrens of Sunshine School, Khandwa Road, Indore on 26th November under the Azadi Ka Amrit Mahotsav commemorating 75 glorious years of Independent India. In this program, school students and teachers were briefed about the Agri Business Incubation Center recently established at the ICAR-IISR primarily for conducting skill oriented training programmes for the youth intersted to initiate start up programme on soybean food derivatives

Dr B. U. Dupare, informed about the prospects of entrepreneurial opportunities in soybean along with the health benefits associated with the soybean based food products. He also said that despite successful commercial cultivation of soybean crop for the last 40 years in the state of Madhya Pradesh, the food uses of soybean till



now are negligible despite its usefulness and nutraceutical composition ie. richness in protein, vitamins, iron, calcium and other medicinal properties, which can help in prevention of dreaded diseases. During the programme, the winners of the poster competition Kumari Khushi, Dipesh Chauhan and Nitin Chauhan were honored by giving first, second and third prizes. The programme was conducted in the presence of School Director Mrs Anjana Kuishwaha and Vice Principal Shri Abhishek Mandloi who appreciated the activities conducted by the ICAR-IISR in promoting secondary agriculture in soybean sector. The program was conducted by Shri Shyam Kishore Verma, Assistant Chief Technical Officer and vote of thanks by Shri Ramendra Nath Srivastava, Chief Technical Officer.

ICAR-IISR, Indore organized Field Day at village Nipania, Tehsil Ichhawar, Sehore district

Indian Institute of Soybean Research, Indore organized Field Day and farmer seminar on 28 September 2021 at village Nipania, Tehsil Ichhawar, district Sehore. Director of Indian Soybean Research Institute, Dr Nita Khandekar, and the team of scientists from the institute including Dr Dupare, Dr Punam Kuchlan, Dr Neha Pandey and along with the team of scientists from Krishi Vigyan Kendra, Sehore and I.T.C. participated in the program. This program was organized by IISR, Indore under the DBT schemes under SCSP where about 200 farmers participated. Dr

Nita Khandekar provided information about how to get more production in less cost in the village. On this occasion some progressive farmers associated with the institute also talked about their success in soybean production and narrated their experiences about the technology developed from this institute. Field visit was also conducted on the fields of scheduled caste farmers during it demonstration plots were also observed. The beneficiary farmers expressed their satisfaction on the efforts and solutions provided by the institute.

93rd ICAR Foundation Day celebrated at ICAR-IISR, Indore

The plantation programme was conducted on the occasion of 93rd ICAR Foundation day on 16th July, 2021 at the experimental farm of the ICAR-IISR on the approach roads located in its experimental farm area in the auspicious presence of Dr Ashok Sharma, Dean of Indore Agricultural College, Dr S.V. Saiprasad, Head, Regional Wheat Research Institute (IARI) and Dr Alok Deshwal along with institute Director Dr Nita Khandekar as well as scientists and employees of the institute. The 19 saplings of Guava and Lemon were planted during the programme, which was organized under the supervision and guidance of Dr Nita Khandekar, the director of the institute, and coordinated by the Farm-in-charge of the institute, Dr Maharaj Singh.

ICAR-IISR, Indore and PIEMR signed MOU

ICAR-Indian Institute of Soybean Research (ICAR-IISR) and Prestige Institute of Engineering Management and Research (PIEMR), Indore, MP, India on 5th August, 2021 signed an MOU to collaborate and undertake R & D, Technology Development and Extension activities to benefit the farming community, Agro & allied industries, academia and society as a whole. Dr Davish Jain, Chairman PIEMR, expressed his pleasure over signing the MOU between two institutes towards uplifting the farmers in the region and emphasized on lab to land programme and urged for the both institutes to work on application and calibration of the technologies developed at PIEMR so as to have practical applicability at the farmers field. Dr Nita Khandekar, in her address mentioned the need for precision agriculture and machine



learning modules for doubling the production. She emphasized on the need for exchange of ideas, development of collaborative research project between both institutes. Previously, ICAR-IISR has also signed memorandum of understanding for research and higher education with the Telangana State Agricultural University, Hyderabad; Integral University, Lucknow; Agriculture University Jodhpur; Institute of Excellence in Higher Education, Bhopal; Kota Agriculture University, Kota; Barkatullah University, Bhopal and St Aloysius college, (autonomous) Rani Durgavati

University, Jabalpur in the present financial year 2021-22. These efforts will help in intensifying quality research and training manpower that are industry ready. Dr M.P Sharma, Dr Mrinal Kuchlan, Dr Shivakumar M, Dr Raghavendra M, Dr Laxman Singh Rajput from ICAR-IISR were present in the event.

ICAR-IISR, Indore organized a Webinar on Eradication of Parthenium Grass

The ICAR-Indian Institute of Soybean Research, Indore conducted a Webinar on “Management of Parthenium Grass” on 17th August 2021 among the series of programmes, planned on the occasion of “Parthenium Awareness Week”. Dr Sushil Kumar, Principal Scientist, ICAR-Directorate of Weed Research, Jabalpur, delivered a talk on “Problems and Control Measures for Parthenium Grass” in the country. The webinar was attended by a total of 75 participants including farmers as well as KVK Scientists belonging to the states like Madhya Pradesh, Maharashtra, Rajasthan, Bihar and Uttarakhand. Dr S. D. Billore, Principal Scientist, ICAR-IISR expressed this webinar will help to create the awareness among the general public for its complete eradication and thereby reducing the yield losses in kharif crops. The webinar was Co-ordinated by Dr Maharaj Singh, Principal Scientist, ICAR-IISR

ICAR-IISR organized “Vigilance Awareness Week”

A weeklong celebration on account of Vigilance Awareness Week organized by ICAR-Indian Institute of Soybean Research, Indore during 26th October-1st November 2021 has been concluded with the Valedictory-cum-Prize distribution programme with the august presence of Dr MP Sharma, Head of Crop Protection, Dr



B.U. Dupare, Head of Crop Production, as well as Institute Vigilance Officer and Head of Crop Improvement Department Dr



Sanjay Gupta and Institute Director Dr Nita Khandekar. In line with the directives of Central Vigilance Commission, the institute has organized various competitions on the theme "Independent India @ 75: Self-reliance with integrity" which included essay writing, ex-tempore, poster making and slogan competition etc.



On this occasion, Dr Manoj Srivastava, the organizer presented a brief report and name of winners of different competitions who have been facilitated with an appreciation certificate and a gift. On this occasion, the Vigilance Officer of the Institute, Dr Sanjay Gupta informed about the various efforts made by the ICAR-IISR for bringing transparency as well as eradication of corruption. Dr Nita Khandekar, the Acting Director of the institute on this occasion called upon the employees to continue contributing to their fullest capacity for the overall growth of the institute in meeting the expectation of the stakeholders. She further added that everyone should follow the office ethics, protocol, guidelines as well as conduct rules so that we work for the institute with full integrity and honesty.

ICAR-IISR organized a special cleanliness programme at Patalpani & Tinchha Waterfall

ICAR-IISR, Indore has conducted a cleanliness programme at the popular picnic spots Patalpani as well as Tinchha Waterfall on 21st October 2021 under the special Cleanliness Campaign being organized throughout the country commemorating the birth anniversary of Mahatma Gandhi. The team especially constituted by the institute for the purpose, have collected garbage like plastic, paper, food wrap etc. in the premises of both these tourist places and put them in the dustbins. In addition, the team tried to make the tourists aware about the importance of cleanliness and health



issues. A Gram Sabha was also organized by the ICAR-IISR in its selected village Katkakhedi under the "My Village My Pride"

program, in which the team members interacted with the farmers and villages about various issues of cleanliness. The team included Dr Rajkumar Ramteke, Chairman and other members like Dr B.U. Dupare, Shri Shyam Kishore Verma, and Shri Rakesh Chandra Shakya.

ICAR-IISR organized "Village Cleanliness Awareness Program at Arjun Baroda Village"

Commemorating the 75 glorious years of India's Independence i.e. "Amrit Mahotsav" as well as birth anniversary of Mahatma Gandhi, the ICAR-Indian Institute of Soybean Research, Indore conducted a "Cleanliness Awareness Programme" on 27th October 2021 at Arjun Baroda, village where the institute is promoting its technologies and package of agronomic practices through Mera Gaon, Mera Gaurav (MGMG) Programme. On this occasion, the committee comprising scientists and technical staff of the ICAR-IISR briefed the villagers on "Agriculture, cleanliness and health in rural India" and urged them not to make use of non-degradable material which is responsible for degradation of natural resources. The team included Dr Rajkumar Ramteke, Chairman and other members like Dr B.U. Dupare, Shri Shyam Kishore Verma, and Shri Rakesh Chandra Shakya.



ICAR-IISR organized "Cleanliness Awareness Program at Musakhedi School"

ICAR-Indian Institute of Soybean Research, Indore conducted a "Cleanliness Awareness Programme for School Children" on 30th October 2021 at Shriram Convent School, Musakhedi, village on the occasion of Commemorating the 75 glorious years of India's Independence i.e. "Amrit Mahotsav" as well as birth anniversary of Mahatma Gandhi. Dr B.U. Dupare, Principal Scientist, ICAR-IISR explained the school children about how the children can play a pivotal role for making their home, neighborhood, city and country not only neat and clean but also a best place in the world by maintaining the clean and pollution free environment. The programme was conducted in presence of Dr Rajkumar Ramteke, Chairman and other members like Dr B.U. Dupare, Shri Shyam Kishore Verma, Shri Rakesh Chandra Shakya, Ms Seema Chauhan along with Shri Pramod Raghuvanshi, the Director of Shriram Convent School as well as Principal Mrs Arti Raghuvanshi.

35th Foundation Day Celebration of ICAR-IISR

The ICAR-Indian Institute of Soybean Research, celebrated its 35th Foundation Day at its campus located at Indore on 9th December, 2021. The programme was graced by the participation of well-known research scientists and policy makers of national repute which included Dr Tilak Raj Sharma, Deputy Director General (Crop Science), Dr Sanjeev Gupta, Assistant Director General (Oilseeds and Pulses), ICAR, New Delhi, Dr SK Sharma, (Former Vice Chancellor, CSK Himachal Pradesh Krishi Vishwa Vidyalaya, Palampur and Chairman, Research Advisory Committee of ICAR-IISR who attended the programme on virtual mode. Dr R.R. Hanchinal, Ex Chairman, Plant Variety Protection and Farmers Right Act (PPVFRA) and Ex-Vice Chancellor, University of Agricultural Sciences, Dharwad presided over the function. Shri D N Pathak, Executive Director, Soybean Processors Association of India (SOPA) was the special invitee. More than 100 researchers belonging to different centers of All India Coordinated Research Project on Soybean spread across the country, institute staff, retired employees and selected progressive farmers from Madhya Pradesh attended the event.

Dr Nita Khandekar, Director welcomed the dignitaries and guest and presented the achievements of the institute. She highlighted that the institute for the first time has successfully notified 27 improved soybean varieties which is a record for soybean. Out of these, nine soybean varieties having characteristics of short maturity period, high yield, specialty soybean, resistance to biotic and abiotic factors like NRC 128, NRC 130, NRC 132, NRC 136, NRC 138, NRC 142, NRC 147, NRCSL1, MACSNRC-1667 have been developed by ICAR-IISR. The special guests Dr Sanjeev Gupta and Shri D N Pathak expressed their satisfaction about the contribution made by the IISR scientists in the development of technologies as well as varieties which would help in mitigating the adverse impact of aberrant weather conditions currently experienced by the soybean growers. Shri Pathak emphasized on ensuring availability of newly developed improved soybean varieties to the poorest of the poor and marginal farmers. He also stressed that there is dire need for integrated collaboration among research scientists, extension workers, farmers and private food industries to make it happen.



The chief guest, Dr T R Sharma, Hon'ble Deputy DG, ICAR, New Delhi delivered the second Dr Prem Swaroop Bhatnagar Memorial Lecture. He enlightened the use of new breeding technologies like

Marker Assisted Breeding, Genome editing techniques, Genome wide association studies (GWAS) and transgenic development for improving soybean crop. According to Dr Sharma, the improvement in the productivity can be seen in the horizontal as well as vertical expansion of the soybean crop in the country. He opined that the soybean varieties older than 10 year should be replaced with the newer improved one to improve production and productivity of the country.

The institute felicitated its retired employees which included Dr G K Gupta (Retired Principal Scientist), Shri Chaudhary Charan Singh (Retired Technical staff) and Shri Dhan Singh (Retired skilled Staff) and the progressive soybean farmers under the scheme of Scheduled Castes Sub-Plan and Tribal Sub-Plan of the Institute of different districts of Madhya Pradesh were given awards. The awardee farmers included Shri Badrilal (Village-Salwa, Ujjain), Shri Dilip Singh (Village Bafapur, Sehore), Shri Balwant Singh (Village-Kalauli, Ujjain), Shri Amar Singh (Village Nipaniya, Sehore), Smt. Kiranbai Haridas (Village Khardosh, Ujjain), Shri Kamal Romade (Badwani), and Shri Kailash Jamra (Village Devariya, Badwani)

The institute released four publications viz. "Soya NRC 128, Vrttika"- Rajbhasha magazine containing articles, poems, and thoughts of the farmers, researchers, employees of the institute; e-book on "Front Line Demonstration of All India Co-ordinated Research Project on Soybean"; folders on "Soybean me ajaivik tanavo ka prabandhan", "Soyabin bhandaran takniki" and "soyabin ka ankuran parikshan kaise Kare?"; and extension bulletin on "Soyabin ki unnat kheti, navintam paddhatiyan evam takniki anushansaye."

In his presidential remark, Dr Hanchinal mentioned that farmers are more interested in the taking two to three crops per year for harnessing more economic benefit which can be attained by developing early maturing varieties. He also emphasized that with the help of modern gene pyramiding technology popular soybean varieties can be improved further by staking multiple traits. During



the Foundation Day programme, the institute has signed MOUs for commercialization of institute technologies with 9 Small Scale Industries/Startup. During the second session, the institute staff has performed various activities in the cultural programmes. The programme was concluded by Dr Satpute compered the programme and presented vote of thanks.

Promotions

Name	Promoted to the post of	w. e. f.
Mr Francis Damascus	T-5 (Driver)	2021

Transfers

Name	From	To	w. e. f.
Dr. Maharaj Singh	ICAR-IISR, Indore	ICAR-CAZRI, Jodhpur	30.11.2021
Mr. Saurabh Meena	ICAR-CRIDA, Hyderabad	ICAR-IISR, Indore	14.10.2021

Superannuation

Dr. Surendra Kumar, CTO Library (31.08.2021)

Mrs. Rami Bai, SSS, (31.08.2021)

Obituary

Shri S. N. Verma, T-3 on 06.08.2021.



प्रकाशक/ Published By

डा नीता खांडेकर/ Dr Nita Khandekar
निदेशक/ Director
भा. कृ. अनु. प. – भारतीय सोयाबीन अनुसंधान संस्थान/
ICAR- Indian Institute of Soybean Research
खण्डवा रोड, इंदौर 452001 (मध्य प्रदेश)/
Khandwa Road, Indore (Madhya Pradesh)
Phone: 0091-0731 2476188, 2362835
Fax: 0091-0731-2470520
Email: dsrdirector@gmail.com/ dsraddimin@gmail.com
Website: www.iisrndore.icar.gov.in

**संपादक/ Editors**

डा मनोज कुमार श्रीवास्तव/ Dr Manoj Kumar Srivastava
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छाया चित्र एवं मुख्य पृष्ठ रचना /Photography and Cover Design

डा डी. एन. बारस्कर/Dr D. N. Baraskar