



SOYBEAN NEWS

सोयाबीन समाचार

भा.कृ.अनु.प- भारतीय सोयाबीन अनुसंधान संस्थान

I.C.A.R-INDIAN INSTITUTE OF SOYBEAN RESEARCH

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निदेशक की कलम से

प्रिय पाठकगण,

भारत का विश्व खाद्य तेल की अर्थव्यवस्था के रूप में पाँचवाँ स्थान है। तथापि, देश में कुल खाद्य तेल की आवश्यकता की पूर्ति हेतु 50% से अधिक का आयात हमें करना पड़ता है। इस परिदृश्य में, सोयाबीन देश में खाद्य तेल की आवश्यकताओं को पूरा करने में लगातार बहुत महत्वपूर्ण भूमिका निभा रही है। सोयाबीन वर्तमान समय में देश की कुल तिलहन एवं खाद्य तेल के उत्पादन में क्रमशः 47% एवं 26% का योगदान दे रही है। सोयाबीन में स्वास्थ्यवर्धक अच्छी गुणवत्ता वाले प्रोटीन, खनिज तथा आइसोफलेवोन जैसे न्यूट्रास्यूटिकल्स मौजूद होते हैं। अतः यह फसल भारतवासियों के लिए पोषण संबंधित सुरक्षा प्रदान करने में अत्यधिक समर्थवान है।

वर्ष 2017-18 के दौरान, सोयाबीन का उत्पादन 10.5 मिलियन हेक्टेयर के क्षेत्र से 11.39 मिलियन टन होने का अनुमान है। सोयाबीन फसल को इसके विभिन्न महत्वपूर्ण चरणों में मौसम के प्रतिकूल स्थिति जैसे सूखा का सामना करना पड़ रहा है। सूखा के अलावा, कीट और बीमारियों द्वारा भी फसल प्रभावित हुई थी। कीड़े जैसे सफेद मक्खी, स्टिमपलाई, सेमीलूपर, गर्डलबीटल और यहां तक की सफेद ग्रब, जिससे फसल प्रभावित थे, किंतु इससे पूर्व कभी भी इसे नहीं दर्शाया गया था। बीमारियों में एन्थेक्नोज, पॉड ब्लाइट, चारकोल रॉट तथा वाई.एम.वी. बीमारियाँ सबसे अधिक थी। जलवायु परिवर्तन का प्रभाव से कीड़ों और रोगों द्वारा बीमारियों की वृद्धि हो रही है। इन समस्याओं का समाधान करने के लिए हमारे पास प्रौद्योगिकियाँ हैं, किंतु किसानों को भी सतर्क रहना जरूरी है तथा इन स्थितियों से बचने के लिए उचित कार्रवाई करनी होगी। इस संबंध में, सभी स्टॉक होल्डर्स के लिए परिचालित हमारी साप्ताहिक सलाह से किसानों को इन समस्याओं का सामना करने में काफी मदद मिली है। जलवायु परिवर्तन, किस्मों और उत्पादन प्रौद्योगिकियों का विकास जोकि जलवायु परिवर्तनों के कारण होने वाले नुकसान को कम कर सकता है, हमारे संस्थान की सर्वोच्च प्राथमिकता रही है।

भा.कृ.अनु.प. - भारतीय सोयाबीन अनुसंधान संस्थान, इन्दौर की "सोयाबीन समाचार" के वर्तमान अंक को प्रस्तुत करते हुए अत्यंत हर्ष की अनुभूति हो रही है। यह अंक जुलाई-दिसम्बर 2017 की अवधि के दौरान समस्त समाचार तथा घटनाओं एवं प्रमुख अनुसंधान उपलब्धियों की झलक प्रस्तुत करेगा।

From the Director's Desk

Dear Readers,

India has the fifth largest vegetable oil economy in the world. However, the country is meeting its edible oil demand by importing more than 60% of its requirement. In this scenario, soybean will continue to play crucial role in meeting the edible oil requirement of the country. Currently, soybean contributes to 47% of the total oilseeds and about 26% of the total edible oil produced in the country. Soybean is packed with good quality protein, minerals and nutraceuticals like isoflavones which have immense health benefits. Therefore, the crop has a greater potential to provide nutritional security to the Indian masses.

During 2017-18, soybean production is expected to be 11.39 million tons from an area of 10.5 million hectares. The crop suffered from adverse weather condition particularly drought at different critical stages of soybean. In addition to drought the crop was also infested by number of insects and diseases. Insects such as white fly, stem fly, semiloopers, girdle beetle and even white grub which was not reported in soybean earlier infested the crop. Anthracnose, pod blight, charcoal rot and YMV. Increasing infestation by insects and diseases is manifestation of changing climate. We have the technologies to address these problems and farmers have to be vigilant and take appropriate action to avert these situations. In this regard, our weekly advisory circulated to all the stakeholders has helped the farmers to overcome some of these problems. Developing climate resilient varieties and production

technologies that can reduce the losses occurring due to climate aberrations is the top priority of this institute.

I am glad to present the current issue of “Soybean News” from ICAR-Indian Institute of Soybean Research (ICAR-IISR), Indore. It will provide glimpses of news and events, salient research achievements for the period July-December 2017.

Salient Research Achievements

- Screening of 541 pre-breeding lines at Ludhiana and Delhi led to the identification of 74 and 126 lines resistant to YMV disease, respectively
- Estimation of kunitz trypsin inhibitor (KTI) through densitometry and ELISA in soybean seeds was standardized. Densitometry of protein profile of 102 soybean varieties revealed wide genetic variation for KTI activity, and its contribution to total trypsin inhibitor activity. ELISA of low- and high-KTI genotypes exhibited 8-fold genetic variation for Bowman Birk inhibitor (BBI)
- Soybean genotypes, namely, NRC 142 and NRC 143 free from both Kunitz trypsin inhibitor and lipoxygenase-2 have been developed by pyramiding null alleles for these undesirable traits through Marker Assisted Forward Breeding
- Kunitz trypsin inhibitor free lines, namely, NRC 144 and NRC 145 with clear hilum have been developed.
- PI 159923, TGX 709-50E and J732 genotypes have been identified as drought tolerant accessions based on lower drought susceptibility index (<1.0), less mean canopy temperature differential than the check JS 97-52 (6.760C) and thicker roots than JS 97-52 (average diameter 0.4052 mm) under water stress condition
- A high yielding advance breeding line Drt 17-27 5/2 was identified for drought resistance index >1.0 and root system architecture traits.
- NRC 128 entry ranked 1st in Northern Plain Zone (3370 kg/ha), ranked 2nd in North Eastern Hill Zone (1665.50 kg/ha) and Eastern Zone (1981.50 kg/ha) under IVT trial and promoted to AVT I in these three zones.
- Two extra early maturing genotypes were developed with yield potential of 1925 and 1983 Kg/ha and maturity duration of 76-84 days, respectively
- Two mass-array based multi-trait functional marker assays (MTFMA) has been developed for high-throughput genotyping of soybean germplasm accessions and breeding populations
- The two MTFMA multiplex panels were used



for genotyping of 280 soybean genotypes and several germplasm sources have been identified with rare alleles of agronomic and quality traits.

- High lignin varieties (VL Soya 1, MACS 450) were crossed with bold seeded genotypes (NRC 7, EC 538828, PS 1029, JS 95-60) and vegetable type (Karune) with the objective of strengthening the seed coat in the segregating bold seeded lines.
- Lignin content of seed coat of advanced breeding lines of cross VL Soya 1 × EC 538828 showed a variation of 1.38-3.28, 1.22 - 5.028 and 1.35 - 4.04 mg/g seed coat in yellow, brown and black seeded lines, respectively.
- Soybean varieties JS 20-69, Hara Soya, PS 1029, JS 20-98 were identified to sustain such adverse situation of Kharif 2017 and yielded more than 20 q/ha. Few other varieties, namely, JS 20-29, JS 20-34, Hardee, JS 97-52 yielded between 15-20 q/ha.
- “Soybean Market Monitor” a quarterly publication covering soybean production scenario in India and world, domestic and international price movements of soybean

and products, import and export of soybean and products from India

- Soybean Gyan- A Mobile App for Soybean Farmers is developed by ICAR-Indian Institute of Soybean Research, Indore. The information available in different literatures about different aspects of Soybean Farming viz agronomic practices, production technology, crop management, insect management, disease management, weeds management, food uses and health benefits and farm machinery. It also provides expert's recommendations about important aspects viz. farm preparation, suitable selection of soybean varieties, seed treatment, fertilizer doses, sowing, seed-rate, harvesting, seed storage etc. The contents in the App are in Hindi Language to make it farmers friendly. It also provides the facility to the soybean farmers to submit their queries along with photos about the problems faced by them in real field conditions. The solutions are then sent through SMS generated by the system by domain experts of the institute.



Fig 1&2 Main screen of Soybean Gyan Mobile App

News and Events

- Institute Management Committee (IMC) Meeting

The 28th meeting of the Institute Management Committee of ICAR-IISR, Indore was held on 18th August, 2017 under the chairmanship of Dr V. S. Bhatia, Director of the institute. At the outset chairman warmly welcomed the members of the IMC. A 10 minute audio-video live film was presented to highlight the brief information about the institute, its mandate and salient research achievement of the institute. Administrative officer and member secretary briefed the present day status of the establishment of institute highlighting the total staff of the institute, current position of the scientific cadre, recruitment and promotion of the staff. Member secretary also informed about major infrastructural facilities developed at the institute like ten green houses, three rain-out shelters, four polyhouses and one glass house.



Institute Management Committee Meeting



- **Organization of Foundation Day and Soybean Mela:** The institute organised its 31st Foundation Day on 11th December 2017. On this occasion, Dr. P. S Bhatnagar, (Founder Director), Dr. S.P Tiwari (Former Director) and Dr. V.S Bhatia, Director ICAR-IISR, highlighted the important role played by this institute in soybean improvement. “Soybean Kisan Mela” was also organised on same day in which more than 850 progressive farmers from major soybean growing states like Madhya Pradesh, Maharashtra, Rajasthan and Gujarat participated. The event was sponsored by the

Department of Agriculture & Cooperation, Ministry of Agriculture and Farmers Welfare, Government of India. About 40 exhibition stalls comprising ICAR/SAU/KVK/Private companies associated with soybean R&D exhibited their technologies and products during this Mela. Further, 5 progressive farmers, Shri Ramavtar Meena (Rajasthan), Mrs. Manjulabehan Chauhan (Gujarat) Shri Laxman Singh Mandloi, Shri Farukh Sheikh (Madhya Pradesh), who harvested record soybean yield during the year, were felicitated during the event.



Institute Management Committee Meeting



Participation of Farmers in Kisan Mela

- **Launch of Mobile App :** The ICAR-IISR launched its Mobile App “Soybean: Gyan Samadhan” on 11th December 2017 developed in association with Tata Consultancy Services. The App was launched on the occasion of 31st

Foundation Day of the institute by Dr. S.P. Tiwari, Chairman of Institute Research Advisory Committee and its Founder Director Dr. P.S. Bhatnagar. The App covers variety of information on package of practices,

management of insect-pest and diseases, weather forecasting, prices of soybean in different mandis etc along with soybean calendar.

Contingency meeting for off season soybean breeder seed production

The contingency meeting was held on 13th December, 2017 at ICAR-IISR, Indore for discussion regarding seed production during rabi/summer. Soybean breeder seed production has suffered during kharif 2017 due to adverse climatic condition. Therefore, contingency plan meeting was organized to analyse the causes of such failure and formulate future course of action to mitigate such shortfall. The meeting was chaired by Dr. V.S. Bhatia, Director, ICAR-IISR, Indore and attended by Mr. S. Selvaraj, Deputy Commissioner (Seeds), DAC, Ministry of Agriculture and Farmers' Welfare, Dr. D.K. Agarwal, Director I/C, ICAR-IISS, Mau, Dr. Sharad Tiwari, Director Farms, JNKVV, Jabalpur, Dr. S.S. Sengar, Director Farms and Seeds, IGKVV, Raipur, Mr .S.M. Pundkar, General Manager (Production), MSSC, MS and other stake holders, Scientists and Representatives from State Agricultural Universities of major soybean growing states. In the meeting, it was decided to take up 110 ha area with a production target of 817 q of soybean breeder seed of JS 93-05, JS 335, JS 20-29, JS 95-60, JS 20-34, JS 20-69, NRC 37 and NRC 86 at JNKVV, Jabalpur, UAS, Dharwad, VNMKV, Parbhani, MPKV, Rahuri, PDKVRRS, Amravati and IISR, Indore.



Contingency meeting for breeder seed production

Sankalp Se Siddhi

The institute organized a programme "Sankalp Se Siddhi" jointly in association with Krishi Vigyan Kendra, Kasturbagram, Indore on 29th August 2017. The chief guest of the function was Smt. Sumitra Mahajan, Honb'le Speaker, Lok Sabha along with other dignitaries and about 1000 farmers from Indore district.



Smt. Sumitra Mahajan, Honb'le Speaker, Lok Sabha participated in Sankalp Se Siddhi



- **Model Training Course** : The institute has successfully organized a Model Training Course on Technologies and Approaches for Management of Biotic & Abiotic Stresses in Soybean Production' during September 5-12, 2017 with the participation of 25 officers belonging to state agriculture department of seven states. The course was sponsored by the Directorate of Extension, Ministry of Agriculture and Farmers' Welfare, Government of India



Inauguration of MTC training

- **World Soil health Day** : ICAR-IISR participated in World Soil health Day on 5th December 2017, organised by KVK, Kasturaba Gram, Indore. Dr. Billore delivered lecture about the importance of soil health and its management for sustaining crop productivity. Around 200-250 farmers were presented on this occasion. Experts of different subject delivered lectures on improved agricultural production technologies. Soil health card were distributed to the farmers of different districts.



- **Mera Gaon Mera Gaurav** : The programme is being implemented in 25 villages of Indore districts in which five multi-disciplinary teams of scientists are maintaining close contact with farmers. During kharif 2017, a total of 50 frontline demonstrations on improved soybean production technology have been laid out in the selected villages. Apart from soybean, the scientists are facilitating information flow of other agricultural commodities and the agricultural / developmental schemes launched by Government of India for the overall development of rural masses.



MGMG field Visit and Interactions with farmers

- **Vigilance Awareness Week** : As per the instructions of the Central Vigilance Commission and Indian Council of Agricultural Research, New Delhi, the Vigilance Awareness Week was observed at ICAR-Indian Institute of Soybean Research during 30th October to 4th November 2017. During the inauguration of

the week, the vigilance pledge was administered by the Director, Dr. V.S. Bhatia on 30th October. During this week, different competitions viz. Essay Competition on 1st November (Topic-Corruption at Grass Root Level), Slogan Competition on 2nd November and Ex-tempor on 3rd November, have been conducted with the participation of institute staff. The valedictory programme of the Vigilance Awareness Week was conducted on 6th November 2017 in which the Institute Vigilance Officer Dr. B.U. Dupare presented a brief report of the activities conducted in the week followed by the address of the Director.



Vigilance awareness Week

Swachh Bharat Abhiyan

The institute is regularly organizing cleanliness drives on last Saturday of every month and taking up the activities for cleanliness and maintenance of Office Building, Laboratories, Canteen, Farm section



Buildings, Residential Campus and various roads located in IISR campus. Under the programme, various activities as outlined in the Annual as well as Five Year Plan are being conducted especially organization of *Swachhata Pakhwara*, Public rally, cleanliness programme at public/tourist places, digitization and dislose of old office records, use of bio-degradable waste for compost making etc.



Visit of Dignitaries

- **Visit of Secretary DARE & DG ICAR :** Dr. Trilochan Mohapatra, Secretary DARE & DG ICAR visited this institute on 23rd September 2017. He visited experimental fields and laboratories of the IISR and interacted with scientists. During his address to IISR staff, DG appreciated the contribution of the institute in the area of soybean research and development. During his visit, DG ICAR was accompanied by Dr. A.K Singh, Vice chancellor

RVSKVV, Gwalior, Dr. S.P Tiwari, Former Vice chancellor and DDG, ICAR, Dr. Anupam Mishra, Director, ATARI, Jabalpur and Dr. S.K Shrivastava, Ex Director IISR.



Secretary DARE & DG ICAR at Tofu Plant, ICAR-IISR Indore



DG ICAR interacting with Scientists in the fields





DG ICAR interacting with scientists in the lab



Release of Soybean monitor/ Market watch E-Newsletter

- **Visit of Chairman RAC :** Dr. S.P. Tiwari, Chairman RAC & Former DDG ICAR invited to institute on 2nd September 2017 to review the experimental fields. Chairman discussed on various aspects of soybean improvement and appreciated the efforts of scientists.



Dr. S.P. Tiwari, Chairman RAC field visit, IISR

- **Visit of DDG (Agri. Extension) :** Dr. A.K. Singh, Deputy Director General (Agricultural Extension), visited institute on 3rd October 2017. Dr A.K Singh appreciated the various technologies developed at this institute for improving economic status of the farmers in the country.



Visit of Dr. A.K. Singh, DDG (Extn.), ICAR



Transfer of Technology

Organization of 3 days training program

- Three days training program on Hybridization technique in Soybean: A three day workshop on Hybridization technique was organized during Aug 17-19, 2017. Total of six soybean breeders from different states participated in

the programme. The training programme was organized to improve hybridization efficiency which is very less in soybean. Pollination without emasculation technique (exploiting protogyny) was demonstrated by the ICAR-IISR plant breeders to the trainees.



Interaction of Director, IISR with trainees during 3 day training programme



Green House Visit of Trainees during training programme

- One day training programme :** During July-Dec 2017, the institute organized 38 one day training programmes on Improved Soybean Production Technology involving 1334 farmers and farm women. Similarly, 11 one day training programmes were organized on "Processing and Utilization of Soybean for Food Uses" with

total participation of 412 women belonging to different districts of Madhya Pradesh.

- Visit to white grub affected soybean fields :** Team of Scientist lead by Dr. V.S Bhatia, Director ICAR-IISR along with Dr. A.N Sharma and Dr S.D Billore visited the white grub affected fields in Shajapur, Dewas district on 5th



Sept 2017. The white grub infestation was very severe and the crop damage ranged from 25 to 100%. Grub population was as high as 2-4 grubs/meter. The grubs were collected and sent to All India Network project (AINP) on Soil Arthropods, Rajasthan Agril. Research station, Drgapur, Jaipur. The insect was identified as *Holotricha cousanguinea* which has only one life cycle in a year. Farmers having standing soybean crop were advised to apply chloropyrifos granules @ 18 kg /ha followed by irrigation. The recommendations were effective. However, due to scarcity of irrigation many farmers could not follow these recommendations, and have to incur heavy loss.



Grub infestation in soybean crop

- ICAR-IISR Scientist team visited some villages in Mandsour district of Madhya Pradesh on 22-23rd August, 2017 for data collection on reasons behind farmer's agitation in region.



IISR Scientists team at white grub affected fields



Interaction among scientists and farmers



Scientist monitoring soybean crop

- Team of Scientist from ICAR-IISR visited Barndwa village in Ujjain district of Madhya Pradesh along with state government officials on 25th August 2017 for identification of diseases, damage assessment in soybean fields and also made awareness about several control measures for the improving soybean production.



Personalia

Appointments

Joining of Scientist/administrative at IISR, Indore

- Dr. Subhash Chandra, Scientist (Genetics & Plant Breeding)
- Dr. Vangala Rajesh, Scientist (Genetics & Plant Breeding)
- Dr. Raghvendra Madar, Scientist (Agronomy)
- Shri Viraj Gangadhar Kamble, Scientist (Plant Biotechnology)
- Dr. Laxman Singh Rajput, Scientist (Plant Pathology)

Superannuation

1. Dr. M.M. Ansari retired from the post of Principal Scientist (Plant Pathology) on 31st July 2017
2. Smt Prakashwati Sura retired the post of SSG-II, on 31st July 2017
3. Shri Roop Singh retired the post of SSG-II, on 31st December 2017



संस्थान में जुलाई-दिसम्बर 2017 के दौरान राजभाषा-कार्यान्वयन संबंधी विभिन्न गतिविधियाँ

राजभाषा विभाग, गृह मंत्रालय, भारत सरकार के दिशा-निर्देश के अनुसार भा.कृ.अनु.परि - भारतीय सोयाबीन अनुसंधान संस्थान, इंदौर में भी इस दिशा में राजभाषा के प्रसार-प्रचार हेतु अनेकानेक कार्यक्रम किए जा रहे हैं। जिनके फलस्वरूप भारतीय सोयाबीन अनुसंधान संस्थान में राजभाषा कार्यान्वयन के क्षेत्र में उत्तरोत्तर प्रगति के साथ अनेक आधारभूत कार्य हुए हैं, जो राजभाषा के प्रगामी प्रयोग में अत्यंत सार्थक सिद्ध हो रहे हैं। इस क्षेत्र में किए जा रहे क्रियाकलापों का संक्षिप्त विवरण निम्नवत् हैं :

क) प्रोत्साहन योजनाएं : संस्थान में सर्वप्रथम राजभाषा संबंधित गतिविधियों के प्रसार-प्रचार हेतु प्रोत्साहन योजनाओं पर ध्यानाकर्षित किया गया। चूंकि यह "क" स्थित क्षेत्र है फिर भी कर्मचारियों, अधिकारियों एवं वैज्ञानिकों में हिन्दी सम्बंधित जागरूकताओं की वृद्धि करने हेतु समयानुसार प्रोत्साहन योजनाओं का आयोजन किया जाता है, ताकि सभी संवर्गों को हिन्दी में कार्य करने हेतु प्रेरणा मिलता रहे। प्रोत्साहन

योजना 2016-17 के दौरान प्रथम पुरस्कार श्री रविशंकर कुमार, कु. प्रियंका सावन द्वितीय पुरस्कार श्री श्याम किशोर वर्मा, श्री अविनाश कलंके, डॉ. मृणाल कुचलान एवं तृतीय पुरस्कार श्री अनिल क्रास्को, श्री अजय कुमार श्रीवास्तव, डॉ. पुनम कुचलान, डॉ. निखलेश पंडया, श्री राकेश चंद्र शाक्या हैं। अतएव प्रोत्साहन योजना के माध्यम से इस कार्य में अत्यधिक सार्थकता प्रदान करने की कोशिश की जा रही है।

ख) हिन्दी कार्यशालाएं : संस्थान में हिन्दीमय वातावरण विनिर्मित करने हेतु प्रत्येक तिमाही में कम से कम एक हिन्दी कार्यशाला का आयोजन किया जा रहा है, जिसमें संस्थान के सभी संवर्गों को आमंत्रित किया जाता है तथा संबंधित विषयानुसार कार्यशालाएं सम्पन्न की जाती हैं। जुलाई-दिसम्बर 2017 में अब तक 02 कार्यशालाओं का आयोजन किया गया, जिसकी सूची निम्नानुसार है :

क्र.	दिनांक	विषय	अतिथि वक्ता
1.	04 सितम्बर 2017	राजभाषा के प्रति समर्पण और विकास के आयाम	डॉ. जयश्री बंसल, प्राध्यापक हिन्दी, देवी अहिल्या विश्वविद्यालय, इन्दौर
2.	07 दिसम्बर 2017	कार्यालय में हिन्दी का प्रयोग - समस्या और समाधान	डॉ. पद्मा सिंह पूर्व प्राचार्य एवं विभागाध्यक्ष - तुलनात्मक भाषा अध्ययन शाला, देवी अहिल्या विश्वविद्यालय, इन्दौर।

ग) प्रशिक्षण : संस्थान में राजभाषा के प्रचार-प्रसार हेतु कृषकों एवं प्रशिक्षणार्थियों को प्रशिक्षण संबंधित सारी सामग्रियाँ हिन्दी में भी प्रदान की जा रही हैं।

घ) वेब साइट अद्यतन : संस्थान के वेब साइट से संबंधित कार्यों का अद्यतन भी समयानुसार किया जा

रहा है, जिससे आगंतुकों को संस्थान के विषय में पूरी जानकारी उपलब्ध कराया जा सके।

ङ) मौलिक लेखन कार्य का प्रादुर्भाव : संस्थान में राजभाषा संबंधी विभिन्न क्रियाकलापों के साथ मौलिक लेखन कार्य को द्रुतगामी आयाम प्रदान करने

में अधिकारियों एवं कर्मचारियों की रुचि अद्वितीय है। विभिन्न प्रतिष्ठित संस्थानों द्वारा इनकी लेखनी को स्थान प्राप्त होते हैं।

च) **शब्दकोश में वृद्धि** : संस्थान में प्रतिदिन हिन्दी एवं अंग्रेजी में एक शब्द द्विभाषी रूप में "आज का शब्द" के रूप में प्रदर्शित किया जा रहा है, ताकि कर्मचारियों, अधिकारियों एवं वैज्ञानिकों के हिन्दी शब्द ज्ञान में वृद्धि करने के साथ ही साथ हिन्दी के कार्यालयीन उपयोग में भी सहायता प्रदान कर सके।

छ) **राजभाषा कार्यान्वयन समिति की तिमाही बैठक**

- प्रथम बैठक : दिनांक 07 जुलाई 2017
- द्वितीय बैठक : दिनांक 06 अक्टूबर 2017

ज) **राजभाषा तिमाही रिपोर्ट का प्रेषण** : संस्थान में राजभाषा हिन्दी से संबंधित समस्त कार्यों का विवरण तिमाही हिन्दी रिपोर्ट के माध्यम से संबंधित विभागों को ऑनलाइन एवं द्रुतगामी डाक सेवा से प्रेषित किया जाता है। इस कार्य को धरातलीय रूप प्रदान करने में संस्थान के समस्त संबंधित अनुभाग का सक्रिय एवं सराहनीय योगदान होता है।

झ) **हिन्दी पखवाड़ा का आयोजन** : सरकारी एवं सरकार के अधीनस्थ या संबद्ध कार्यालयों, सार्वजनिक उपक्रमों एवं प्रतिष्ठानों में हिन्दी पखवाड़ा का आयोजन अनिवार्य रूप से सम्पन्न करना अति आवश्यक है। इस संदर्भ में वर्ष 2017 के दौरान निदेशालय में "हिन्दी पखवाड़ा-2017" का आयोजन किया गया, जिसमें विभिन्न प्रकार की प्रतियोगिताओं का आयोजन किया गया एवं सभी प्रतियोगिताओं में संस्थान के वैज्ञानिक, अधिकारी एवं कर्मचारी के साथ-साथ सहायक वर्ग के कर्मियों ने भी अपनी सहभागिता को स्वच्छंद रूप से प्रस्तुत किया किया। "हिन्दी-पखवाड़ा" में हिन्दी भाषियों के साथ ही साथ हिन्दी-तत्पर भाषियों ने भी प्रतियोगिताओं में सम्मिलित होकर अपनी उत्साह को व्यक्त किया।

राजभाषा कार्यान्वयन के क्षेत्र में भा.कृ.अनु.परि - भारतीय सोयाबीन अनुसंधान संस्थान की प्रगति आख्या का एक स्वर्णिम झलक आपके समक्ष प्रस्तुत है। उपरोक्त गतिविधियों पर यदि दृष्टिपात करें तो ज्ञात होता है कि संस्थान में राजभाषा कार्यान्वयन की दिशा में एक सकारात्मक एवं सार्थक कार्य हो रहा है, जो संस्थान में हिन्दी के सुनहरे भविष्य का आभास कराती है।





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