

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

13/12/2023

To,

Deputy Director General (Crop Science),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha Provisionally Admitted Starred/Unstarred Question Dy. No. 7722 regarding “
Adequate Production of Pulses and Oilseeds” due for answer on 19/12/2023-reg.


Sir,

With reference to your email/letter from <skjhaicar@gmail.com> dated : 04/12/2023. Please Find the requisite information in relation to soybean crop for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	whether the Government is aware that inspite of several incentive schemes, the country has not become self-reliant in the production of pulses and oilseeds so far;	NA	लागू नहीं
b)	if so, the reasons therefor;	NA	लागू नहीं
c)	whether the Government proposes to take any additional steps to promote adequate production of pulses and oilseeds	Yes	हाँ
d)	if so, the details thereof?	1. Horizontal expansion of soybean in non-traditional areas and rice fellows through FLDs 2. Improvement of productivity through advance science and technology applications like gene editing, input application by drone and sensor technology	1. गैर-पारंपरिक क्षेत्रों और चावल परती भूमि में एफएलडी के माध्यम से सोयाबीन का क्षेत्र विस्तार 2. उन्नत विज्ञान और प्रौद्योगिकी अनुप्रयोगों जैसे जीन संपादन, ड्रोन और सेंसर प्रौद्योगिकी द्वारा इनपुट अनुप्रयोग के माध्यम से उत्पादकता में सुधार

Regards,

Yours faithfully


(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

12/12/2023

To,
The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Private Memberc' Resolution tabled by shri Lavu Srikrishna Devarayalu, MP in the Lok Sabha on 15.12.2023 (Friday) - Reg

Sir,

Please Find the requisite information regarding above mentioned subject for your kind perusal.

(viii) diversify cropping systems in selected regions and efficiently manage resources along with promoting low water-requiring crops and varieties, along with perennial vegetation such as agro-forestry, agri-horticulture and medicinal and aromatic plants which may serve as income and employment-generating options in drought-prone areas in the State of Andhra pradesh;

Reply:

Diversification options with Soybean crop in state of Andhra Pradesh

Soybean crop is diversified with wheat, maize, chickpea, pigeonpea, sugarcane including horticultural crops, under soybean based cropping system either through rotation and intercropping.

a) Adoption of soybean based cropping system

Soybean forms an excellent cropping sequence for effective utilization of residual nitrogen as well as to effectively control of large spectrum of weeds and insects and pests. In addition, availability of 85 to 130 days' maturity duration varieties, it fits well in any of the traditional cropping sequences and intercropping system. Remunerative cropping systems for different zones are given in Table 1. Soybean farming is considered as one of the most cost-effective ways for sustaining soil fertility by fixing atmosphere N₂ to the extent of 50-300 kg ha⁻¹. Furthermore, soybean act as a cheaper protein (40%) and oil (20%) source to promote living standards and food security of small and marginal farmers. Even under minimum agriculture input/management practices and climatic adversities soybean fetches profitable returns to the farmers. Soybean, also offers employment through trading, processing, industrial uses, value addition and has tremendously improved socio-economic status of soybean small and marginal farmers in central India. Hence, soybean production and commercialization would be a milestone for improving food and nutritional security as well as to meet sustainable agriculture. Nevertheless, soybean area has to be expanded in non-traditional areas/non-conventional season to reach the benefits of miracle crop to small and marginal farmers at different parts of the country. Under rainfed conditions soybean can be successfully grown as component crop with Mango and Guava i.e. under agri-horti system during initial year of establishment of orchards/mango/guava saplings.

Table 1 Remunerative crop diversification options with soybean crop at different zones

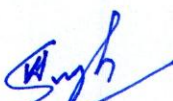
Zone	Crop sequence	Intercropping/mixed cropping
Southern (Karnataka, Tamil Nadu, Andhra Pradesh, Kerala, Southern parts of Maharashtra)	Wheat-soybean-finger millet-peas, oat-cowpea-barley-soybean, soybean-finger millet-beans, soybean-wheat-groundnut	Soybean + pigeon pea, soybean + finger millet, soybean + sugarcane, soybean + sorghum, soybean + groundnut, soybean in coconut/ mango/ guava orchard, and soybean in agroforestry

b) Availability of new/recently released soybean varieties fits well in different cropping system

S. No.	Variety	Notification year	Area/ Zone	Maturity days	Max. Yield (kg/ha)
1	DSb 34	2021	Andhra Pradesh,	101-106	2700
2	MACS 1460	2021	Andhra Pradesh,	93-98	2700
3	RSC 11-07	2021	Andhra Pradesh,	102	3000
4	RSC 10-48	2021	Andhra Pradesh,	98-107	2500
5	KDS 726	2019	Andhra Pradesh,	96-97	2442
6	KDS 753	2020	Andhra Pradesh,	95	2362

Regards,

Yours faithfully



(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

26/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Lok Sabha Diary No. 5579- reg.

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 26/07/2023. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the government has undertaken research on technologies which are relevant to farmers engaged in Aquaculture?, and if so, then details thereof	NA	लागू नहीं
b)	Whether there are some schemes /policy for technological and scientific assistance to farmers in relation to prawn culture done in brackish water areas such as in parliamentary constituency of Sirsa?:	NA	लागू नहीं
c)	If so, then details thereof;	NA	लागू नहीं
d)	Whether Department of Science and Technology, accord relevant technical/scientific periodic inputs to the National Agriculture Research System (NARS) for agricultural advancements;	DST Sponsored Projects	डीएसटी वित्त पोषित परियोजना
e)	If so, then details thereof	Project details given below	परियोजना का विवरण निम्नलिखित है
Name of Division: Crop Science Name of the Institute: ICAR-Indian Institute of Soybean Research, Indore			
S. N.	Title of the Project	Period	Sectioned Amount (Rs.)
1.	Genomic Strategies for improving anthracnose resistance in soybean (Glycine/max L.)	2022-2025	42,36,537
2.	Genome-wide association mapping of charcoal rot resistance in soybean (Glycine Max L.)	2021-2023	27,55,296

Regards,

Yours faithfully



(K.H. Singh)

Director

Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

06/12/2023

To,

Dr Sanjeev Kumar Jha
Principal Scientist (O & P)
Crop Science Division
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha QD No. 3699 due for 12.12.2023 reg promoting agriculture through R&D


Sir,

With reference to your email/letter from <skjhaicar@gmail.com> dated : 04/12/2023. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the Government is laying greater emphasis on Research and Development in the agricultural production;	Yes through development of improved production technologies	हाँ बेहतर उत्पादन प्रौद्योगिकियों के विकास के माध्यम से
b)	If so, the details of the programme prepared for States in that direction	Research and development activities are carried out through AICRP-Soybean at 20 centres in 14 states in collaboration with SAUs	एसएयू के सहयोग से 14 राज्यों के 20 केंद्रों पर एआईसीआरपी-सोयाबीन के माध्यम से अनुसंधान और विकास गतिविधियां की जाती हैं।
c)	The education and training proposed to be provided to the farmers to acquire adequate knowledge to promote agriculture in the States and if so the details thereof?	IISR Indore Coordinate conduct of FLDs across the states.	आईआईएसआर इंदौर राज्यों में एफएलडी के संचालन का समन्वय करता है।

Regards,

Yours faithfully


(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

14/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha Provisionally Admitted Starred Question Dy. No. 1641 regarding "Role of Digital Technology in modernising Agriculture"-regd.

Sir,

With reference to your email from ADG.ICT@icar.gov.in dated: 12/07/2023 please find the requisite information for your kind perusal.

S.No.	Question	Reply	उत्तर
a)	whether digital technology can play a transformative role in modernizing our agriculture	Yes	हाँ
b)	The details of initiatives taken/proposed by the Government to promote digital agriculture in Hooghly of West Bengal, Amravati of Maharashtra, Sitamarhi and Bhagalpur of Bihar, Jammu and Kashmir, Madhya Pradesh, Jharkhand and Sonipat district of Haryana	NA	लागू नहीं
c)	if not, the reasons therefore?	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)
Director
ICAR-Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

19/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha Provisionally Admitted Starred Question Dy. No. 2084 regarding "Production of Oil Seeds and Edible Oil reg"

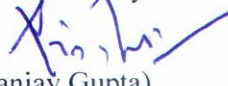
Sir,

With reference to your email from Oilseed and Pulses <opsectionicar@gmail.com> dated: 18/07/2023, F.No.5 -312023 -NFSM-OS. Please find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	The status of various schemes meant for attaining self-sufficiency in production of oil seeds and edible oil and to reduce import burden;	NA	लागू नहीं
b)	The measures that have been taken to expand the area of cultivation oil palm and other edible oil crops;	1. Institute is putting all the technological efforts in popularising soybean cultivation in non-traditional areas particularly in rice fellow areas of Punjab and intercropping of soybean with sugarcane. 2. Institute is developing high yielding (2.5 tonne/ha) soybean varieties and released for cultivation in India (NRC 142, JS 21-72). Several genotypes with high yield potential were being tested at national level for release.	1. संस्थान गैर-पारंपरिक क्षेत्रों में विशेष रूप से पंजाब के चावल वाले क्षेत्रों में सोयाबीन की खेती को लोकप्रिय बनाने और गन्ने के साथ सोयाबीन की सहफसली खेती के लिए सभी तकनीकी प्रयास कर रहा है। 2. संस्थान उच्च उपज देने वाली (2.5 टन/हेक्टेयर) सोयाबीन की किस्में विकसित कर रहा है और भारत में खेती के लिए जारी किया गया है (एनआरसी 142, जेएस 21-72)। उच्च उपज क्षमता वाले कई जीनोटाइप को जारी करने के लिए राष्ट्रीय स्तर पर परीक्षण किया जा रहा है।
c)	The details of the funds allocated and utilized for the above schemes during the last five years, State/UT wise;	NA	लागू नहीं
d)	The time line by which India will rise to the level of edible oil and oil seed exporting country?	NA	लागू नहीं

Regards,

Yours faithfully


(Sanjay Gupta)

In-charge Director
ICAR-Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

20/07/2023

To,

The Assistant Director General (ICT),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha Provisionally Admitted Starred Question for oral regarding "Hyperspectral Remote Sensing Technology for Agriculture"


Sir,

With reference to your email from ADG.ICT@icar.gov.in dated : 19/07/2023 Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
(a)	Whether the Hyperspectral Remote Sensing Technology plays a crucial role in monitoring and assessing the health of crops and soils in the country;	NA	लागू नहीं
(b)	if so, the details and the salient features of the said technology;	NA	लागू नहीं
(c)	Whether the Union Government has entered into a Memorandum of Understanding (MoU) with Pixxel Space India Pvt. Limited recently to develop various geospatial solutions, if so, the details thereof and likely benefits from the MoU;	NA	लागू नहीं
(d)	Whether it is a fact that this is a significant step towards leveraging advanced satellite imaging technology for the benefit of the Indian Agriculture Ecosystem; and	NA	लागू नहीं
(e)	if so, the extent to which this system will reduce dependence on time-consuming and error-prone manual surveys and measurements by harnessing advanced satellite imaging technology in the country particularly in Odisha?	NA	लागू नहीं

Regards,

Yours faithfully


(संजय गुप्ता)

प्रभारी निदेशक

भारतीय सोयाबीन अनुसंधान संस्थान, इंदौर

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

27/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Lok Sabha Question no. 2027 regarding "Internship projects for women farmers".

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 27/07/2023. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the Government proposes to have internship projects to motivate the women farmers in the field of horticulture, fruit/food processing, kitchen gardening, tourism development and agriculture;	NA	लागू नहीं
b)	If so, the details thereof?	NA	लागू नहीं

Regards,

Yours faithfully


(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

18/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha Provisionally Admitted Starred Question Dy. No. 2316 regarding "Benefits of Scientific Research Results"

Sir,

With reference to your email from Oilseed and Pulses <opsectionicar@gmail.com> dated: 18/07/2023. Please find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the result of research in agriculture sector are not reaching the farmers and this problem has become an obstacle in the development of agriculture sector in the country if so, the reasons therefor including the details thereof;	The responsibility of dissemination of research finding/technology/technical know-how is entrusted to the extension system primarily operated by the state agriculture department. However the ICAR-IISR is educating the officers of state agricultural department on regular basis.	अनुसंधान खोज/प्रौद्योगिकी/तकनीकी जानकारी के प्रसार की जिम्मेदारी मुख्य रूप से राज्य कृषि विभाग द्वारा संचालित विस्तार प्रणाली को सौंपी गई है। हालाँकि ICAR-IISR राज्य कृषि विभाग के अधिकारियों को नियमित आधार पर प्रशिक्षित कर रहा है।
b)	The steps being taken by the government to ensure the access of farmers to the information regarding the scientific research in agriculture sector;	ICAR-IISR is conducting the Trainer's training programme and extension activities through print, electronic mass media. The ICAR-IISR supplementing the efforts of state agriculture department on limited scale by way of conducting FLDs, farmers training, exhibitions and field days etc.	भारतीय सोयाबीन अनुसन्धान संस्थान, इंदौर प्रिंट, इलेक्ट्रॉनिक मास मीडिया के माध्यम से प्रशिक्षक प्रशिक्षण कार्यक्रम और विस्तार गतिविधियों का संचालन कर रहा है। यह संस्थान FLD एवं प्रशिक्षण प्रदर्शनी तथा सोयाबीन दिवस आदि का आयोजन कर सीमित पैमाने पर किसानों को तकनीकी से अवगत करा कर राज्य के प्रसार विभाग की मदद का प्रयास कर रहा है।
c)	Whether the Government has provided assistance to the farmers for promoting the use of modern and state of the art equipment in agricultural purposes;	The ICAR-IISR has provided some assistance to SC/ST farmers under the GOI flagship programme.	भारतीय सोयाबीन अनुसन्धान संस्थान, इंदौर ने भारत सरकार के प्रमुख कार्यक्रम के तहत एससी/एसटी किसानों को कुछ सहायता प्रदान की है।
d)	If so, whether the Government in coordination with the state Government is providing assistance to the farmers to enable to purchase the said equipment at concessional rates;	NA	लागू नहीं

e)	Whether the Government proposes to increase the number of krishi vigyan kendras in the country and if so, the details thereof state-wise particularly in Budaun and Firozabad districts of Uttar Pradesh and Maharashtra ?	NA	लागू नहीं
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Regards,

Yours faithfully



(Sanjay Gupta)

In-charge Director

ICAR-Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

18/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha Provisionally Admitted Starred Question Dy. No. 2594 regarding "Production of Pulses and Vegetable Oils"-reg.

Sir,


With reference to your Letter from Krishi Bhawan, New Delhi Dated: 14 July 2023, File No. 5-39 /2023-NFSM. Please find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the Government has assessed the impact of increase in the cultivation of pulses on the agro-ecosystem:	NA	लागू नहीं
b)	Whether Government is taking action towards crop diversification and if so, the details thereof, State-wise:	NA	लागू नहीं
c)	Whether the Government is aware that the production of pulses and vegetable oils in the country is not sufficient and the scheme which the Government is implementing for increasing the area under these crops;	NA	लागू नहीं
d)	The manner in which the Government is ensuring the promotion of pulse cultivation along with the price of pulse and vegetable oilseeds being sold to farmers, State-wise?	(A) Promotion: Oil seed: Creation of Seed Hubs for Enhancing Quality seeds availability of major oilseed crops under NFSM –Oilseeds Eight (08) Soybean oil seed hubs are functioning in 5 states Centres under seed hub projects : 1. ICAR-IISR, Indore (MP), 2. KVK, Bhanusaheb Bhuskute Smriti Lok Nyas, Govindnagar, Narmadapuram, (MP) 3. B.M. College of Agriculture, RVSKVV, Khandwa (MP) 4. MAF, AU, Kota, Rajasthan 5. AICRP Soybean, VNMKV, Parbhani (Maharashtra)	तिलहनी फसलों को बढ़ावा एन.एफ.एस.एम.-तिलहन के तहत प्रमुख तिलहन फसलों की गुणवत्ता वाले बीजों की उपलब्धता बढ़ाने के लिए 5 राज्यों में आठ (08) सोयाबीन तिलहन केंद्र सीड हब परियोजना के अंतर्गत कार्य कर रहे हैं केन्द्र : 1. आईसीएआर-आईआईएसआर, इंदौर (एम.पी.), 2. के.वी.के., भानुसाहेब भुस्कुटे स्मृति लोक न्यास, गोविंदनगर, नर्मदापुरम, (मध्य प्रदेश) 3. बी.एम. कृषि महाविद्यालय, आरवीएसकेवीवी, खंडवा (मध्य प्रदेश) 4. एम.ए.एफ., ए.यू., कोटा, राजस्थान 5. ए.आई.सी.आर.पी. सोयाबीन, वी.एन.एम.के.वी., परभणी (महाराष्ट्र)

	<p>6. KVK, Bemetara, IGKV, Raipur (CG)</p> <p>7. Seed Unit, UAS, Raichur, (Karnataka)</p> <p>8. Agricultural Research Station, PJTSAU, Adilabad, (Telengana)</p>	<p>6. के.वी.के., बेमेतरा, आईजीकेवीवी, रायपुर (सीजी)</p> <p>7. बीज इकाई, यूए.एस., रायचूर, (कर्नाटक)</p> <p>8. कृषि अनुसंधान केंद्र, पीजेटीएसएयू, आदिलाबाद, (तेलंगाना)</p>
	<p>(B) Under the project Breeding for food grade characters and high oil content in soybean. NRC 142 soybean variety was released in 2021 for central and southern zones , which has oil content > 22% and in 2023 ,two varieties NRC 150 and NRC 152 have been released in 2023 for central zone ,which have oil content > 21% oil content. In 2022, NRC 149 has been identified for release,which has oil content > 22 %</p>	<p>सोयाबीन के खाद्य मानक एवं अधिक तेल वाली सोयाबीन को विकसित करने की परियोजना के तहत एनआरसी 142 सोयाबीन किस्म 2021 में मध्य और दक्षिणी क्षेत्रों के लिए जारी की गई थी, जिसमें तेल की मात्रा > 22% है और 2023 में, दो किस्मों एनआरसी 150 और एनआरसी 152 को मध्य क्षेत्र के लिए जारी किया गया है, जिनमें तेल की मात्रा > 21% है . 2022 में, एनआरसी 149 को जारी करने के लिए पहचान की गयी है, जिसमें तेल की मात्रा 22% से अधिक है</p>

Regards,

Yours faithfully


 (Sanjay Gupta)
 In-charge Director
 ICAR-Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

06/12/2023

To,

Ravinder Kaur Khandpur
Section Officer
Oilseed and Pulses,
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha Q. Dy. No. 4118 regd. "Production of Pulses and Oilseeds" .

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 06/12/2023. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	The normal production of pulses and oilseeds in the country	NA	लागू नहीं
b)	The quantum of pulses and edible oils imported during the last three years	NA	लागू नहीं
c)	The applicable import duty on pulses and edible oils during the last three years and the current year	NA	लागू नहीं
d)	The names of the major countries from which the pulses and edible oils were imported, year-wise and the total import duty on it. year-wise?	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)

Director

Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

06/12/2023

To,

Ravinder Kaur Khandpur
Section Officer
Oilseed and Pulses,
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Lok Sabha Q. Dy. No. 4118 regd. "Production of Pulses and Oilseeds" .

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 06/12/2023. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	The normal production of pulses and oilseeds in the country	NA	लागू नहीं
b)	The quantum of pulses and edible oils imported during the last three years	NA	लागू नहीं
c)	The applicable import duty on pulses and edible oils during the last three years and the current year	NA	लागू नहीं
d)	The names of the major countries from which the pulses and edible oils were imported, year-wise and the total import duty on it. year-wise?	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)

Director

Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

06/12/2023

To,

The Director IIOR,
ICAR-Indian Institute of Oilseeds Research
Rajendranagar, Hyderabad-500 030

Subject: Rajya sabha Provisionally Admitted Starred/Unstarred Diary No. S3767 regarding
“Government has formulated any plan for creation of oilseeds hubs with a focus on regional approach for larger availability of high-yielding quality seeds as for training of farmers and extension officials in this field” due for answer on 15.12.2023 regd.

Sir,

With reference to your email/letter from Director IIOR<director.iior@icar.gov.in>dated :04/12/2023
Please Find the requisite information for your kind perusal.

S.No.	Question	Reply	उत्तर
a)	The target date fixed vis-à-vis the achievements made under the National Mission on Oilseeds and Oil Palm during the last three years;	The production of quality seeds of soybean by 8 oil seed hubs during 2020-2021: 4213 q 2021-2022: 3938 q 2022-2023 : 5081 q	8 तिलहन सीड हब केंद्रों द्वारा सोयाबीन के गुणवत्तापूर्ण बीजों का उत्पादन किया गया। 2020-2021: 4213 q 2021-2022: 3938 q 2022-2023 : 5081 q
b)	Whether the Government has formulated any plan for creation of oilseeds hubs with a focus on regional approach for larger availability of high-yielding quality seeds as well as for training of farmers and extension officials in this field and it so, the details thereof;	NA	लागू नहीं
c)	The steps taken by the Government to increase the production and productivity of oilseeds and oil palm in the country?	Steps taken to improve soybean productivity in India 1. Developed and released high yielding soybean varieties across soybean growing zones of India. During last three years 61 high yielding varieties were developed for cultivation in different zones Central Zone- 16, Sothern Zone-13, Northern Plain Zone - 10, Northern Hill Zone -05, Eastern Zone-14 North Eastern Hill Zone-03	भारत में सोयाबीन उत्पादकता में सुधार के लिए उठाए गए कदम 1. भारत के सोयाबीन उत्पादक क्षेत्रों में उच्च उपज देने वाली सोयाबीन की किस्मों को विकसित और जारी किया गया। पिछले तीन वर्षों के दौरान विभिन्न क्षेत्रों में खेती के लिए 61 अधिक उपज देने वाली किस्मों विकसित की गईं मध्य क्षेत्र-16, दक्षिणी क्षेत्र-13, उत्तरी मैदानी क्षेत्र-10, उत्तरी

		<p>2. Developed zone specific production technologies to enhance soybean productivity.</p> <p>3. Developed zone specific improved crop protection technologies to control emerging insect-pests and diseases of soybean.</p>	<p>पहाड़ी क्षेत्र-05, पूर्वी क्षेत्र-14 उत्तर पूर्वी पर्वतीय क्षेत्र-03</p> <p>2. सोयाबीन उत्पादकता बढ़ाने के लिए क्षेत्र विशिष्ट उत्पादन प्रौद्योगिकियों का विकास किया गया।</p> <p>3. सोयाबीन के उभरते कीट-पतंगों और बीमारियों को नियंत्रित करने के लिए क्षेत्र विशिष्ट उन्नत फसल सुरक्षा प्रौद्योगिकियों का विकास किया गया।</p>
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Regards,

Yours faithfully



(K.H. Singh)

Director

Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

25/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Rajya Sabha P Q No.S3234, "Research Institute under ICAR" - reg.

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 25/07/2023. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	How many research institutes have been set up by the Indian Council of Agricultural Research (ICAR) in different States during the last three years, details thereof State-wise	NA	लागू नहीं
b)	Whether farmers are given training and encouraged to take up organise farming, about the harmful effects of chemical fertilisers apart from other inputs like mechanical agriculture by these research institutes for scientific results in agricultural sector, details thereof	NA	लागू नहीं

Regards,

K

Yours faithfully

K.H. Singh

(K.H. Singh)

Director

Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

09/08/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Rajya Sabha Q No. 2584, regarding "Digital recording of soil types and lands suitable for cultivation".

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 09/08/2023. Please

Find the requisite information for your kind perusal.

S.No.	Question	Reply	उत्तर
a)	Whether Government has any plans to digitise the soil types and lands suitable for cultivation of various crops in the country, if so, the details thereof, State-wise;	NA	लागू नहीं
b)	Whether adequate funds have been allocated for digital recording of existing lands under cultivation and classification according to the type of soil and its suitability for certain crops, if so, the details thereof;	NA	लागू नहीं
c)	The steps taken by Government to provide financial and technical support to increase the growth potential and soil health in the country; and	NA	लागू नहीं
d)	The innovative methods prescribed by Government in this regard?	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)

Director

Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

25/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Rajya Sabha P Q No.S815, "R&D in Agriculture Sector" - reg.

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 25/07/2023 Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the Ministry is undertaking extensive Research and Development (R&D) for boosting agricultural growth in the country	NA	लागू नहीं

b) The details of the research projects undertaken by the Indian Council of Agricultural Research (ICAR) during last five years, year-wise, project-wise?						
S. No.	Name of Institute	No. of Project in the year				
		2018-19	2019-20	2020-21	2021-22	2022-23
1	Indian Institute of Soybean Research Indore	36	40	40	42	39

Regards,

Yours faithfully



(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

25/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Rajya Sabha P Q No.S815, "R&D in Agriculture Sector" - reg.

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 25/07/2023 Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
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S. No.	Name of Institute	No. of Project in the year				
		2018-19	2019-20	2020-21	2021-22	2022-23
1	Indian Institute of Soybean Research Indore	36	40	40	42	39

Regards,

Yours faithfully



(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

25/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Rajya Sabha P Q No.S815, "R&D in Agriculture Sector" - reg.

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 25/07/2023 Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the Ministry is undertaking extensive Research and Development (R&D) for boosting agricultural growth in the country	NA	लागू नहीं

b) The details of the research projects undertaken by the Indian Council of Agricultural Research (ICAR) during last five years, year-wise, project-wise?						
S. No.	Name of Institute	No. of Project in the year				
		2018-19	2019-20	2020-21	2021-22	2022-23
1	Indian Institute of Soybean Research Indore	36	40	40	42	39

Regards,

Yours faithfully



(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

28/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Rajya Sabha Question No. S817, "ICAR Research Institutes in Tripura" reg.

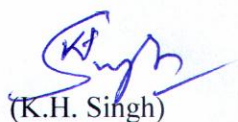
Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated: 28/07/2023 Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	The number of research institutes set up by Indian Council of Agricultural Research (ICAR) in Tripura	NA	लागू नहीं
b)	The details of the agriculture developmental works undertaken by the ICAR Centers during the last five years and its impact on the growth of agricultural sector in Tripura	NA	लागू नहीं
c)	The details of the funds utilised by these Centers in Tripura during last five years, year-wise?	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)

Director

ICAR-Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

20/07/2023

To,

The Assistant Director General (ICT),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Rajya Sabha Provisionally Admitted Starred Question No S1154 regarding "Farmer Benefit"


Sir,

With reference to your email from ADG.ICT@icar.gov.in dated : 19/07/2023 Please Find the requisite information for your kind perusal.

S. N o.	Question	Reply	उत्तर
(a)	The data in relation to the number of apps that have been launched for the benefit of farmers in the past 9 years	ICAR-IISR developed mobile app for soybean growing farmers Name of the App: Soybean Gyan Purpose: To provide information to soybean farmers about the soybean production technology, good agricultural practices, disease, insect and weed management.	भारतीय सोयाबीन अनुसन्धान संस्थान, इंदौर ने सोयाबीन उगाने वाले किसानों के लिए मोबाइल ऐप विकसित किया ऐप का नाम: "सोयाबीन ज्ञान" उद्देश्य: सोयाबीन किसानों को सोयाबीन उत्पादन तकनीक, अच्छी कृषि पद्धतियों, रोग, कीट और खरपतवार प्रबंधन के बारे में जानकारी प्रदान करना।
(b)	The data in relation to the number of farmers who are active smart phone users in the country; state-wise data	NA	लागू नहीं
(c)	Whether the Government is planning to roll out any specific campaigns and workshops to help the farmers harvest the power of tech	NA	लागू नहीं
(d)	If yes, the details of the policy and the steps that the Government will take to ensure these campaigns each every village in the country?	NA	लागू नहीं

Regards,

Yours faithfully


(संजय गुप्ता)

प्रभारी निदेशक

भारतीय सोयाबीन अनुसंधान संस्थान, इंदौर

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

20/07/2023

To,

The Assistant Director General (ICT),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Rajya Sabha Provisionally Admitted Starred Question No S1154 regarding "Farmer Benefit"


Sir,

With reference to your email from ADG.ICT@icar.gov.in dated : 19/07/2023 Please Find the requisite information for your kind perusal.

S. N o.	Question	Reply	उत्तर
(a)	The data in relation to the number of apps that have been launched for the benefit of farmers in the past 9 years	ICAR-IISR developed mobile app for soybean growing farmers Name of the App: Soybean Gyan Purpose: To provide information to soybean farmers about the soybean production technology, good agricultural practices, disease, insect and weed management.	भारतीय सोयाबीन अनुसन्धान संस्थान, इंदौर ने सोयाबीन उगाने वाले किसानों के लिए मोबाइल ऐप विकसित किया ऐप का नाम: "सोयाबीन ज्ञान" उद्देश्य: सोयाबीन किसानों को सोयाबीन उत्पादन तकनीक, अच्छी कृषि पद्धतियों, रोग, कीट और खरपतवार प्रबंधन के बारे में जानकारी प्रदान करना।
(b)	The data in relation to the number of farmers who are active smart phone users in the country; state-wise data	NA	लागू नहीं
(c)	Whether the Government is planning to roll out any specific campaigns and workshops to help the farmers harvest the power of tech	NA	लागू नहीं
(d)	If yes, the details of the policy and the steps that the Government will take to ensure these campaigns each every village in the country?	NA	लागू नहीं

Regards,

Yours faithfully


(संजय गुप्ता)

प्रभारी निदेशक

भारतीय सोयाबीन अनुसंधान संस्थान, इंदौर

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

25/07/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Rajya Sabha P Q No.S3557, "Governments plan to reduce the dependence on edible oil import " - reg.

Sir,

With reference to your email/letter from <opsectionicar@gmail.com> dated : 25/07/2023. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the Government is having any plan to reduce the dependence on import of edible oils	NA	लागू नहीं
b)	if so, whether there is any plan to increase the productivity in the edible oils sector:	NA	लागू नहीं
c)	if so, whether any special program is being run by the Government to increase the productivity in the edible oils sector;	NA	लागू नहीं
d)	whether any plan has been formulated to increase the production of edible oils under this scheme in Gujarat, and	NA	लागू नहीं
e)	if so, the details thereof	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

03/08/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Rajya Sabha Provisionally Admitted Starred / Unstarred Q. Dy No. S4210 for answer on 11.08.2023 "Pulses and oilseeds" -reg.

Sir,

With reference to your email from Oilseed and Pulses <opsectionicar@gmail.com>dated : 03/08/2023 File No. 5- 49 /2023-NFSM. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
(a)	Whether the Government has assessed the impact of increase in cultivation of pulses on the agricultural ecosystem;	NA	लागू नहीं
(b)	The action being taken by the Government towards crop diversification;	Diversification options in Soybean crop Details enclosed	सोयाबीन की फसल में विविधीकरण के विकल्प वितरण संलग्न
(c)	The work being done by the Government to increase the cultivation of pulses/ oilseeds; and	NA	लागू नहीं
(d)	The details of the prices of pulses and oilseeds being sold by farmers, state-wise?	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

Diversification options in Soybean crop

Soybean crop is diversified with wheat, maize, chickpea, pigeonpea, sugarcane etc., under soybean based cropping system either through rotation and intercropping.

a) Soybean intercropping options in sugarcane

Decreasing land holding and mounting demand for agricultural production to meet the ever-increasing population is the biggest challenge for Indian agriculture. In India sugarcane is being cultivated in an area of 45.7 lakh hectares, out of which southern states (Karnataka and Maharashtra) solely contribute around 29.8% area (DAC 2020). Moreover, these belts have a huge potential for soybean area expansion due to suitable soil and climatic conditions. Furthermore, the tailor-made weather conditions in these states for soybean during the off-season (spring) further help to take up soybean as an intercrop with sugarcane. Soybean can be sown on the day or the next day of sugarcane planting for better management. This intensification aids to get an additional yield advantage and income to sugarcane farmers at an early stage of cane without curtailing yield and soil fertility. In this context, for the first time in India effort has been made to evaluate new soybean genotypes in sugarcane as an intercrop to check the suitability and yield potential under non-conventional season (off-season) in different locations of the country (ICAR-IIFSR, Modipuram, Uttar Pradesh, ICAR-KLE-KVK, Mattikoppa, Karnataka, ICAR-NIASM, Baramati, Maharashtra) by the ICAR-Indian Institute of Soybean Research, Indore, Madhya Pradesh (Ongoing inter-institutional activity, initiated in February 2021). As a part of the study, five soybean genotypes were evaluated. Results at Indore location revealed that all the soybean genotypes performed comparatively superior during the off-season without much yield loss. These genotypes differed significantly ($p < 0.005$) with respect soybean seed yield. Genotypes, YMV-11 (15.82q/ha), NRC-130 (15.49q/ha), and NRC-131 (15.66q/ha) produced higher seed yield compared to JS-20-34 (13.0q/ha) and NRC-136 (8.08q/ha) under 2:1 (Soybean + Sugarcane) intercropping system with row spacing 30cm for soybean and 90cm for sugarcane.

b) Adoption of soybean based cropping system

Soybean forms an excellent cropping sequence for effective utilization of residual nitrogen as well as to effectively control of large spectrum of weeds and insects and pests. In addition, availability of 85 to 130 days' maturity duration varieties, it fits well in any of the traditional cropping sequences and intercropping system. Remunerative cropping systems for different zones are given in Table 1. Soybean farming is considered as one of the most cost-effective ways for sustaining soil fertility by fixing atmosphere N_2 to the extent of 50-300 kg ha^{-1} . Furthermore, soybean act as a cheaper protein (40%) and oil (20%) source to promote living standards and food security of small and marginal farmers. Even under minimum agriculture input/management practices and climatic adversities soybean fetches profitable returns to the farmers. Soybean, also offers employment through trading, processing, industrial uses, value addition and has tremendously improved socio-economic status of soybean small and marginal farmers in central India. Hence, soybean production and commercialization would be a milestone for improving food and nutritional security as well as to meet sustainable agriculture. Nevertheless, soybean area has to be expanded in non-traditional areas/non-conventional season to reach the benefits of miracle crop to small and marginal farmers at different parts of the country, but has the certain limitation, such as availability of well-structured market for soybean procurement and soybean processing industries.

Table 1 Remunerative crop diversification options in soybean crop at different zones

Zone	Crop sequence	Intercropping/mixed cropping
Central (Madhya Pradesh, Bundelkhand region of U.P., Rajasthan, Gujrat, Northern and western parts of Maharashtra and Orissa)	Soybean-wheat, soybean-wheat-corn fodder, soybean-potato, soybean-garlic/potato-wheat, soybean-rapeseed or mustard, soybean-pigeon pea, soybean-safflower, soybean-sorghum, soybean-chickpea	Soybean + pigeon pea, soybean + sorghum, soybean + groundnut, soybean + pearl millet, soybean + cotton, soybean in mango/guava orchard.
Southern (Karnataka, Tamil Nadu, Andhra Pradesh, Kerala, Southern parts of Maharashtra)	Wheat-soybean-finger millet-peas, oat-cowpea-barley-soybean, soybean-finger millet-beans, soybean-wheat-groundnut	Soybean + pigeon pea, soybean + finger millet, soybean + sugarcane, soybean + sorghum, soybean + groundnut, soybean in coconut/ mango/ guava orchard, and soybean in agroforestry
Northern Plain (Punjab, Haryana, Delhi, North-Eastern plains of U.P., Western Bihar)	Soybean-wheat, soybean-potato, soybean-chickpea	Soybean + pigeon pea, soybean + corn, soybean + sorghum, soybean in mango/ guava orchards, soybean in agro forestry, sugarcane + Soybean
Northern hill (Himachal Pradesh, North hills of U.P.)	Soybean-wheat, soybean-pea, soybean-lentil, soybean-toria	Soybean + corn, soybean + pigeon pea
North east (Assam, West Bengal, Bihar, Meghalaya)	Soybean-rice, rice-soybean	Soybean + finger millet, soybean + paddy, soybean + pigeon pea, soybean + Roselle, Sugarcane + soybean.

c) Availability of new/recently released soybean varieties fits well in different cropping system

S. No.	Variety	Notification year	Area/ Zone	Maturity days	Max. Yield (kg/ha)
1	MACS 1407	2021	EZ	99-107	3200
2	MACS 1460	2021	EZ, SZ	93-98	2700
3	MACS 1520	2021	CZ	98-102	2900
4	NRC 132	2021	EZ	98	2300
5	NRC 147	2021	EZ	100-106	2100
6	NRC 128	2021	NPZ	118-145	2000
7	NRC 130	2021	CZ	92	3000
8	NRC 136	2021	EZ	107	3100
9	NRCSL-1	2021	EZ	107	2500
10	RSC 11-07	2021	EZ, SZ	102	3000
11	RSC 10-48	2021	EZ, SZ	98-107	2500
12	RSC 10-52	2021	CZ	99-103	2600
13	AMS 2014-1 (PDKV Purva)	2021	EZ	100-105	2400-3200
14	AMS-MB-5-18 (Suvarna Soya)	2021	CZ	98-102	2500
15	DSb 34	2021	SZ	101-106	2700
16	NRC 131 (State release)	2022	MP	93	1500
17	NRC 136 (State release)	2022	MP	105	1700
18	NRC 157 (State release)	2022	MP	94	1650

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

03/08/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Rajya Sabha Provisionally Admitted Starred / Unstarred Q. Dy No. S4210 for answer on 11.08.2023 "Pulses and oilseeds" -reg.

Sir,

With reference to your email from Oilseed and Pulses <opsectionicar@gmail.com>dated : 03/08/2023 File No. 5- 49 /2023-NFSM. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
(a)	Whether the Government has assessed the impact of increase in cultivation of pulses on the agricultural ecosystem;	NA	लागू नहीं
(b)	The action being taken by the Government towards crop diversification;	Diversification options in Soybean crop Details enclosed	सोयाबीन की फसल में विविधीकरण के विकल्प वितरण संलग्न
(c)	The work being done by the Government to increase the cultivation of pulses/ oilseeds; and	NA	लागू नहीं
(d)	The details of the prices of pulses and oilseeds being sold by farmers, state-wise?	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

Diversification options in Soybean crop

Soybean crop is diversified with wheat, maize, chickpea, pigeonpea, sugarcane etc., under soybean based cropping system either through rotation and intercropping.

a) Soybean intercropping options in sugarcane

Decreasing land holding and mounting demand for agricultural production to meet the ever-increasing population is the biggest challenge for Indian agriculture. In India sugarcane is being cultivated in an area of 45.7 lakh hectares, out of which southern states (Karnataka and Maharashtra) solely contribute around 29.8% area (DAC 2020). Moreover, these belts have a huge potential for soybean area expansion due to suitable soil and climatic conditions. Furthermore, the tailor-made weather conditions in these states for soybean during the off-season (spring) further help to take up soybean as an intercrop with sugarcane. Soybean can be sown on the day or the next day of sugarcane planting for better management. This intensification aids to get an additional yield advantage and income to sugarcane farmers at an early stage of cane without curtailing yield and soil fertility. In this context, for the first time in India effort has been made to evaluate new soybean genotypes in sugarcane as an intercrop to check the suitability and yield potential under non-conventional season (off-season) in different locations of the country (ICAR-IIFSR, Modipuram, Uttar Pradesh, ICAR-KLE-KVK, Mattikoppa, Karnataka, ICAR-NIASM, Baramati, Maharashtra) by the ICAR-Indian Institute of Soybean Research, Indore, Madhya Pradesh (Ongoing inter-institutional activity, initiated in February 2021). As a part of the study, five soybean genotypes were evaluated. Results at Indore location revealed that all the soybean genotypes performed comparatively superior during the off-season without much yield loss. These genotypes differed significantly ($p < 0.005$) with respect soybean seed yield. Genotypes, YMV-11 (15.82q/ha), NRC-130 (15.49q/ha), and NRC-131 (15.66q/ha) produced higher seed yield compared to JS-20-34 (13.0q/ha) and NRC-136 (8.08q/ha) under 2:1 (Soybean + Sugarcane) intercropping system with row spacing 30cm for soybean and 90cm for sugarcane.

b) Adoption of soybean based cropping system

Soybean forms an excellent cropping sequence for effective utilization of residual nitrogen as well as to effectively control of large spectrum of weeds and insects and pests. In addition, availability of 85 to 130 days' maturity duration varieties, it fits well in any of the traditional cropping sequences and intercropping system. Remunerative cropping systems for different zones are given in Table 1. Soybean farming is considered as one of the most cost-effective ways for sustaining soil fertility by fixing atmosphere N_2 to the extent of 50-300 kg ha⁻¹. Furthermore, soybean act as a cheaper protein (40%) and oil (20%) source to promote living standards and food security of small and marginal farmers. Even under minimum agriculture input/management practices and climatic adversities soybean fetches profitable returns to the farmers. Soybean, also offers employment through trading, processing, industrial uses, value addition and has tremendously improved socio-economic status of soybean small and marginal farmers in central India. Hence, soybean production and commercialization would be a milestone for improving food and nutritional security as well as to meet sustainable agriculture. Nevertheless, soybean area has to be expanded in non-traditional areas/non-conventional season to reach the benefits of miracle crop to small and marginal farmers at different parts of the country, but has the certain limitation, such as availability of well-structured market for soybean procurement and soybean processing industries.

Table 1 Remunerative crop diversification options in soybean crop at different zones

Zone	Crop sequence	Intercropping/mixed cropping
Central (Madhya Pradesh, Bundelkhand region of U.P., Rajasthan, Gujrat, Northern and western parts of Maharashtra and Orissa)	Soybean-wheat, soybean-wheat-corn fodder, soybean-potato, soybean-garlic/potato-wheat, soybean-rapeseed or mustard, soybean-pigeon pea, soybean-safflower, soybean-sorghum, soybean-chickpea	Soybean + pigeon pea, soybean + sorghum, soybean + groundnut, soybean + pearl millet, soybean + cotton, soybean in mango/guava orchard.
Southern (Karnataka, Tamil Nadu, Andhra Pradesh, Kerala, Southern parts of Maharashtra)	Wheat-soybean-finger millet-peas, oat-cowpea-barley-soybean, soybean-finger millet-beans, soybean-wheat-groundnut	Soybean + pigeon pea, soybean + finger millet, soybean + sugarcane, soybean + sorghum, soybean + groundnut, soybean in coconut/ mango/ guava orchard, and soybean in agroforestry
Northern Plain (Punjab, Haryana, Delhi, North-Eastern plains of U.P., Western Bihar)	Soybean-wheat, soybean-potato, soybean-chickpea	Soybean + pigeon pea, soybean + corn, soybean + sorghum, soybean in mango/ guava orchards, soybean in agro forestry, sugarcane + Soybean
Northern hill (Himachal Pradesh, North hills of U.P.)	Soybean-wheat, soybean-pea, soybean-lentil, soybean-toria	Soybean + corn, soybean + pigeon pea
North east (Assam, West Bengal, Bihar, Meghalaya)	Soybean-rice, rice-soybean	Soybean + finger millet, soybean + paddy, soybean + pigeon pea, soybean + Roselle, Sugarcane + soybean.

c) Availability of new/recently released soybean varieties fits well in different cropping system

S. No.	Variety	Notification year	Area/ Zone	Maturity days	Max. Yield (kg/ha)
1	MACS 1407	2021	EZ	99-107	3200
2	MACS 1460	2021	EZ, SZ	93-98	2700
3	MACS 1520	2021	CZ	98-102	2900
4	NRC 132	2021	EZ	98	2300
5	NRC 147	2021	EZ	100-106	2100
6	NRC 128	2021	NPZ	118-145	2000
7	NRC 130	2021	CZ	92	3000
8	NRC 136	2021	EZ	107	3100
9	NRCSL-1	2021	EZ	107	2500
10	RSC 11-07	2021	EZ, SZ	102	3000
11	RSC 10-48	2021	EZ, SZ	98-107	2500
12	RSC 10-52	2021	CZ	99-103	2600
13	AMS 2014-1 (PDKV Purva)	2021	EZ	100-105	2400-3200
14	AMS-MB-5-18 (Suvarna Soya)	2021	CZ	98-102	2500
15	DSb 34	2021	SZ	101-106	2700
16	NRC 131 (State release)	2022	MP	93	1500
17	NRC 136 (State release)	2022	MP	105	1700
18	NRC 157 (State release)	2022	MP	94	1650

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

03/08/2023

To,

The Assistant Director General (O&P),
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Rajya Sabha provisionally admitted Starred/ Unstarred Q. Dy. No. U3114 regarding
"Soyabean Product and rate"-

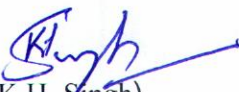
Sir,

With reference to your email from Oilseed and Pulses <opsectionicar@gmail.com>dated :
03/08/2023 F. No. 5-9/2023/NFSM-Oilseeds. Please Find the requisite information for your
kind perusal.

S. No.	Question	Reply	उत्तर
(a)	Soyabean is a imported crop in India. It is imported from Mexico and Brazil in late 80s in India. Average yield of Soyabean in India is about 6.0 quintal/acre. This is much below average of other Soyabean producing countries. What are the plans for augmenting the yield of Soyabean in India?	<ol style="list-style-type: none">Varieties are being bred for high yield potential, recently released varieties have expressed average yield of 24-26 q/h under All India Coordinated Research Project on Soybean.Efforts are continued for quick multiplication of seeds of latest released varieties.Exotic germplasm is being procured from USA to broaden the genetic base of soybean varieties to enhance the genetic potential and wider adaptation.Good agronomic practices have been developed like BBF, RBF to harness the yield potential of existing varieties.	<ol style="list-style-type: none">उच्च उपज क्षमता के लिए किस्मों का प्रजनन किया जा रहा है, हाल ही में जारी किस्मों की औसत उपज 26.66 q/h अखिल भारतीय समन्वित अनुसन्धान परियोजना के अंतर्गत प्राप्त की गई है।नवीनतम जारी किस्मों के त्वरित बीज गुणन के लिए प्रयास जारी हैं।आनुवंशिक क्षमता और व्यापक अनुकूलन को बढ़ाने के लिए एवं सोयाबीन की किस्मों के आनुवंशिक आधार को व्यापक बनाने के लिए संयुक्त राज्य अमेरिका से विदेशी जर्मप्लाज्म खरीदा जा रहा है।मौजूदा किस्मों की उपज क्षमता का दोहन करने के लिए बीबीएफ, आरबीएफ जैसी अच्छी कृषि पद्धतियां विकसित की गई हैं।

Regards,

Yours faithfully


(K.H. Singh)

Director
Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

23/01/2024

To,
Laxmi Kant Shukla,
Ministry of Agriculture & Farmers Welfare
Govt. of India, MoA&FW, DAC&FW,
Oilseeds Division, Krishi Bhawan,

Subject: Rajya Sabha Unstarred Question Dy.No. U41 regarding Reduction of patch size of crop demonstration in Oilseeds and timely seed availability.

Sir,

With reference to your email/letter from LAXMI KANT SHUKLA <monu22.shukla@gmail.com> dated: 22/01/2024 Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether GoI will approve the reduction of demonstration patch size from 50 ha to 20 ha at the earliest so that the programme can be more effectively monitored?	NA	लागू नहीं
b)	If yes, the details thereof; if not, the reasons therefor	NA	लागू नहीं

Regards,

Yours faithfully



(K.H. Singh)

Director

ICAR-Indian Institute of Soybean Research, Indore

ICAR-Indian Institute of Soybean Research, Khandwa Road, Indore (MP)

File No. Tech/4-31/2011

07/12/2023

To,

Rekha Singh
Section Officer (IA-IV)
Crop Science Division
ICAR, Krishi Bhavan
New Delhi-110014

Subject: Provisionally admitted Lok Sabha Question no. 1515 regarding "Pending dues to Researchers and Allied Staff of ICAR".

Sir,

With reference to your email/letter from <ia4section@gmail.com> dated : 07/12/2023. Please Find the requisite information for your kind perusal.

S. No.	Question	Reply	उत्तर
a)	Whether the Government is aware that the Agriculture research project working researchers and other allied staff from ICAR institute have not been paid since for long period and if so, the details thereof	Nil	लागू नहीं है
b)	The details of the research projects department-wise working under ICAR carrying out research in different subjects viz. ICAR-National Bureau of Plant Genetic Resources (NBPGR) etc. and whose staff has not been paid	Nil	लागू नहीं है
c)	Whether the Government is taking steps for providing enough funds in time bound manner so as the research work should not suffer due to short of funding and the researchers can carry out with peace of mind and work seamless for Agricultural Research through various departments under the premier Institute ICAR for betterment of farmers?	NA	लागू नहीं है

Regards,

Yours faithfully



(K.H. Singh)

Director

Indian Institute of Soybean Research, Indore