

mail

pqdac.krishi

Availability of latest technologies to farmers

From : rsqns@sansad.nic.in

Mon, Jan 29, 2024 11:32 AM

Subject : Availability of latest technologies to farmers

To : pqdac krishi <pqdac.krishi@nic.in>

PROVISIONALLY ADMITTED QUESTION FOR THE RAJYA SABHA

73
Qy. No. / Pari Qns. / 2024
Date ... 31/1 ...

Starred / Unstarred Diary No. -- S1545

The Question Will be put down for -- 09/02/2024

Answer on the Ministry Department -- Agriculture and Farmers Welfare(AGR)

Availability of latest technologies to farmers

(a) the details of modern/latest farm technologies available to the farmers to assist them in the cultivation of crops in the country; (b) whether the Government provides subsidy/cash subsidy to the farmers for purchasing of different farm machineries, seeds, fertilizers and electricity etc.; (c) if so, the details thereof during each of the last three years and the current year, State and component-wise; (d) the details of research and development work undertaken for the development of agro-machineries to overcome the shortage of farm labourers in the agriculture sector?

MS
The Question Pertains to
Jagjan Ran

JS (M&T)

DC M/T/AM

Bhup
1/2
AE (M&T)

PSCT (SP)
US (TC)

PL
08/02/2024
02/12/2024
02.12.2024

File no. 4-11/2024-M&T(I&P)
Government of India
Ministry of Agriculture & Farmers Welfare
Department of Agriculture & Farmers Welfare
(Mechanization & Technology Division)

KrishiBhawan, New Delhi
Dated: 01-02-2024

Subject: Provisionally Admitted Question for the Lok Sabha Starred/Unstarred Diary No S-1545 on "Availability of latest technologies to farmers " due for answer on 09.02.2024-regarding.

A note of Provisionally Admitted Starred/Unstarred question has been raised on the subject mentioned above.

The text of the question is as under:

- (a) the details of modern/latest farm technologies available to the farmers to assist them in the cultivation of crops in the country;
- (b) whether the Government provides subsidy/cash subsidy to the farmers for purchasing of different farm machineries, seeds, fertilizers and electricity etc.;
- (c) if so, the details thereof during each of the last three years and the current year, State and component-wise;
- (d) the details of research and development work undertaken for the development of agro-machineries to overcome the shortage of farm labourers in the agriculture sector?

It is requested that point-wise information on the above Question may kindly be provided latest by 5th February, 2024, positively on e-mail IDs arvind.meshram.@gov.in, rajiv.thakur@nic.in.


(A.N. Meshram)
Deputy Commissioner (M&T)
Tel. No. 011-23382922/1110

Copy to:

1. All Divisional Head of DA&FW.
2. All State Governments (Agriculture Department)

ICAR-Central Island Agricultural Research Institute, Port Blair

Rajya Sabha Starred/Unstarred Diary No. S1545

(a) The details of modern/latest farm technologies available to the farmers to assist them in the cultivation of crops in the country;

Reply: Following technologies/tools have been developed by ICAR-CIARI

- Coconut mid rib separator: This tool is very handy, efficient, and labor-saving, for removing the midrib from coconut leaflets. Using this tool, one can separate at least 500 midribs per hour. Moreover, the midribs obtained through this tool are comparatively cleaner than the traditional method.

(d) the details of research and development work undertaken for the development of agro-machineries to overcome the shortage of farm labourers in the agriculture sector?

Reply:

- Cinnamon bark rubbing tool: handy tool developed by ICAR-CIARI for effective removal of cinnamon bark.
- Parasitic egg concentrator: Veterinary parasitology appliance named Parasite Egg Concentrator. This egg concentrator reduces the use of plastic ware by 71.42 percent and chance of exposure of laboratory personnel. It is also useful for Sheather's sucrose flotation, saturated salt solution, zinc sulphate floatation and formol ether concentration technique and showed 100% sensitivity and specificity. This appliance is useful for field level application.

7/19/24, 8:30 AM

Email

Email

संसद अनुभाग, भा.क. अनु. परि.

डायरी सं० ९१ दिनांक २२/७/२४

कृषि भवन, नई दिल्ली

Dy. No. 36/Parl Qns./2024
Date 22/7/2024

pqdac.krishi

Info on Indian Council of Agricultural Research (ICAR)

From : rsqns@sansad.nic.in

Thu, Jul 18, 2024 06:49 PM

Subject : Info on Indian Council of Agricultural Research (ICAR)

To : pqdac.krishi <pqdac.krishi@nic.in>

PROVISIONALLY ADMITTED QUESTION FOR THE RAJYA SABHA

Starred /Unstarred Diary No.-- U1842

The Question Will be put down for -- 02/08/2024

Answer on the Ministry Department -- Agriculture and Farmers Welfare(AGR)

Info on Indian Council of Agricultural Research (ICAR)

(a) Details of roadmap prepared by ICAR to harness science and innovation for securing food and nutritional security to the nation; (b) Details of focused areas identified by ICAR; (c) Details of technologies demonstrated and disseminated by Central and State agencies, KVKs during the last three years, year-wise and the extent of above which have assisted farmers in pushing their productivity and generating more income.

यह प्रश्न..... से सम्बंधित है।

The Question Pertains to

Division

DARE

Food & Agriculture

अनुभाग अतिरिक्त संसद

DARE

ADG (TC)

Please sent to all SMDs for inputs by tomorrow 22/7/24

ICAR-Central Island Agricultural Research Institute, Port Blair

Rajya Sabha

Starred/Unstarred Diary No U 1842

(a) Details of roadmap prepared by ICAR to harness science and innovation for securing food and nutritional security to the nation;

Reply : ICAR-CIARI has formulated road map to

- Develop climate-resilient varieties and integrated farming system models suitable for various island landscapes
- Facilitating production and availability of quality planting materials and seeds
- Increasing the productivity of the plantation crops mainly coconut with intercropping and efficient utilization of land with suitable technologies.
- Improving productivity of livestock by developing technology for low-cost feed formulation, round the year fodder production and health management
- Post-harvest technology, value addition and promoting agri entrepreneurship development in spices, coconut, fisheries.
- Water resource development and efficient utilization
- Promoting oceanic fisheries industries

(b) Details of focused area identified by ICAR;

Reply :

- Evaluation and identification of climate resilient varieties (paddy, cinnamon, clove and tejpatri)
- Focused research on organic farming practices (developed herbal acaricide, bio-consortia for plant growth and protection, sea seed extracts)
- Promoting value addition and processing of spice, underutilized fruits etc
- High density fish seed rearing in Biofloc system with increased survival percentage of spawn to fingerling stage
- Augmentation of water harvesting facilities (self-sufficiency for laboratory use and for irrigation)
- Agro-ecotourism

(c) Details of technologies disseminated and demonstrated by central and state agencies, KVKs during the last three years, year wise and the extent of above which have assisted farmers in pushing their productivity and generating more income.

Reply : Some of the important technologies demonstrated and disseminated to the farmers

- Dissemination and demonstration of high yielding varieties of rice: Spread in approximately 300 ha (5.47%) out of total rice area of 5479 ha. Higher grain yield (30.4%) over the local variety.
- CIARI Brinjal 1 : wilt resistant variety, disseminated and demonstrated to farmers with approximate area of 10 ha.
- Dweeptickure (herbal acaricide technology): Commercialized and has been well accepted by livestock farmers (more than 1000 farmers).
- Mini incubator technology (for rural poultry production): Well, adopted by the farmers. the availability of rural chicks and duckling has increased by 2.84 folds in the adopted areas. More than 15 units have been established by the farmers.
- Dweep Trimodel therapy for control of hump sore in cattle: Commercialized and successfully demonstrated in more than 300 cattle. Success rate is more than 95% without any recurrence. Fertility and milk production increased more than 15%.
- Dweep carp grower feed: Commercialized and disseminated to farmers.

संख्या M-11017/1/2024-संसद
भारत सरकार
कृषि एवं किसान कल्याण मंत्रालय
(कृषि एवं किसान कल्याण विभाग)

नई दिल्ली, दिनांक: 20.7.2024

राज्य सभा

26.07.2024 को लिखित उत्तर के लिए स्वीकृत प्रश्न

New technologies in agriculture sector

514 Dr. Anil Sukhdeorao Bonde:

Shri R. Dharmar:

Will the Minister of *Agriculture and Farmers Welfare* be pleased to state:

- (a) the initiatives taken by Government for innovation/development of new technologies in agriculture sector during each of the last three years and current year across the country particularly in Tamil Nadu;
- (b) whether Government has evolved a mechanism to disseminate information about said innovations and technologies to farmers during said period, if so, the details thereof;
- (c) the number of farmers benefitted from said innovations and technologies during said period;
- (d) the main features of the Kisan Portal and its benefits to farmers;
- (e) the number of farmers benefitted since launch of the portal; and
- (f) the details of steps taken/being taken by Government in the matter?

अनुरोध है कि उत्तर के मसौदे को माननीय मंत्री जी द्वारा स्वीकृत किये जाने के पश्चात, हिन्दी एवं अंग्रेजी कि soft copy pqdac.krishi@nic.in पर मेल कर दी जाए तथा उसकी एक-2 hard copy संसद अनुभाग में भेज दी जाए।

Jagdeep Rana

अनुभाग अधिकारी (संसद)

टेलीफोन : 23384554

Adviser (IT)

Dr. (IT)
US (IT)

21/07

ICAR-Central Island Agricultural Research Institute, Port Blair

Rajya Sabha 514

New Technologies in Agriculture Sector

514 Dr Anil Sukhdeorao Bonde:

Shri. R. Dharmar

Will the Minister of Agriculture & Farmers Welfare be pleased to state:

(a) The initiatives taken by Government for Innovation/development of new technologies in agriculture sector during each of the last three years and current year across the country particularly in Tamil Nadu;

Reply : During the last three years ICAR-CIARI initiated new initiatives for to develop technologies for the island farmers to increase the productivity and profitability of the farmers. Some of the initiatives taken by the institute are:

- Thrust on underutilized fruits of the island (established Garcinia block)
- Nursery development for spice and plantation crops (availability of quality seed and planting materials has been increased)
- Augmentation of water harvesting facilities (self-sufficiency for laboratory use and for irrigation)
- Focused research on organic farming practices (developedherbal acaricide, bio-consortia for plant growth and protection, sea seed extracts)
- Established fish feed production unit for freshwater fishes
- Animal feed processing unit
- Mud crab fattening unit
- Ornamental fish breeding unit
- Biofloc facility
- Agro-ecotourism

(b) Whether Government has evolved a mechanism to disseminate information about said innovations and technologies to farmers during said period, if so, the details thereof;

Reply : Yes; ICAR-CIARI is regularly disseminating the developed technologies to the farmers through its three KVKs located in all the three districts of Andaman & Nicobar Islands and also through its Regional Station located at Minicoy, Lakshadweep.

During the last three years the number of training and demonstration of technologies conducted by ICAR-CIARI, Port Blair is given below:

No training conducted for farmers

Year	No	No of farmers
2021	69	2638
2022	107	3982
2023	77	2752

No of demonstration conducted

Year	No	No of farmers
2021	12	319
2022	14	1230
2023	14	365

(c) the number of farmers benefitted from said innovations and technologies during said period;

Reply: Number of farmers benefitted

2021	2957
2022	5215
2023	3117

(d) the main features of the kisan portal and its benefit to the farmers;

Reply: Main feature of the portal is to provide comprehensive information about government schemes, subsidies, grants and agricultural policies.

(e) the number of farmers benefitted since the launch of the portal;

Reply: As per the record available in the portal the number of beneficiaries is 13098

(f) the details of steps taken/being taken by Government in the matter?

Reply: ICAR-CIARI in collaboration with its all KVKs facilitate awareness among the farmers about the Kisan portal and its benefits during its training programme. In addition, the live streaming of the kisan Samman Nidhi and other activities is also being organized regularly.

F. No. 5-16/2024-NFSM
Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Crops & PHMF Division

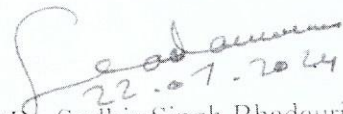
Krishi Bhawan, New Delhi
Dated: 22.07.2024

Subject: Rajya Sabha provisionally admitted Starred/ Unstarred Question Diary No. S38 on "making 'Aatmanirbhar Bharat' in food production" due for answer on 02.08.2024-reg.

Rajya Sabha provisionally admitted Starred/ Unstarred Question Diary No. S38 on "making 'Aatmanirbhar Bharat' in food production" due for answer on 02.08.2024 is reproduced below:

- (a) efforts made by the Government to make Aatmanirbhar Bharat in food production;
- (b) whether the Government has drawn any roadmap for robust improvement in food security for strengthening self-reliance in food production and
- (c) if so, the details thereof?
- (d) whether efforts by the Government has helped in improvement in India's ranking in food production index;
- (e) if so, the details thereof?

It is requested that the requisite information/ material for preparing the reply of the above Question (part wise) along with material for possible supplementary may kindly be provided to the undersigned and email at sudhir.bhadauria@gov.in deepakkr.yadav@nic.in vijay.hokrani@gov.in, thakur.anjali87@gov.in and programmer.nfsm@gmail.com positively by today itself (i.e., 24.07.2024).


(Dr. Sudhir Singh Bhadauria)
Deputy Commissioner (Crops)

Distribution:

1. Addl. Secretary, (RKVY), DA&FW, Krishi Bhawan, New Delhi.
2. Sr. ESA, E&S Division, DA&FW, Krishi Bhawan.
3. DDG (Crops Science)/DDG (Agri. Extension)/DDG (Horticulture Sci.)/DDG (NRM) ICAR, Krishi Bhawan/Pusa, New Delhi.
4. Joint Secretary (INM)/ JS (RFS/NRM)/ JS (MIDH)/ JS (M&T)/ JS (Extension)/ JS (Oilseeds), DA&FW, Krishi Bhawan.
5. Adviser (RG), ES&E Division, DA&FW
6. DC (Seeds)/DC (QC) Seed Division, DA&FW, Krishi Bhawan.

ICAR-Central Island Agricultural Research Institute, Port Blair

Subject : Rajya Sabha provisionally admitted Starred/ Unstarred Question Diary No.S38 on "making 'Aatmanirbhar Bharat' in food production"

(a) Efforts made by the Government to make Aatmanirbhar Bharat in food production;

Reply: ICAR-CIARI has developed high yielding varieties of crops and vegetable suitable for island agriculture for increasing the productivity and production. The institute has developed 38 high yielding varieties including 6 coconut, 4 *Morinda citrifolia* (noni), 9 rice, 7 pulse, 2 sweet potato, 1 yam, 5 leafy vegetables, 1 orchid, 2 brinjal, and 3 mushroom. The institute has developed several production technologies and package of practices for improving the productivity of agriculture, horticulture, animal husbandry and fisheries sector in the islands.

(b) whether the Government has drawn any roadmap for robust improvement in food security for strengthening self-reliance in food production and

Reply : Yes,

(c) if so, the details thereof?

Reply : ICAR-CIARI has formulated road map to

- Developing climate-resilient varieties and integrated farming system models suitable for various island landscapes
- Facilitating production and availability of quality planting materials and seeds
- Increasing the productivity of the plantation crops mainly coconut with intercropping and efficient utilization of land with suitable technologies.
- Improving productivity of livestock by developing technology for low-cost feed formulation, round the year fodder production and health management
- Post-harvest technology, value addition and promoting agri entrepreneurship development in spices, coconut, fisheries.
- Water resource development and efficient utilization
- Promoting oceanic fisheries industries

(d) whether efforts by the Government has helped in improvement in India's ranking in food production index;

Reply: Yes, The food grain production of Andaman & Nicobar has been increased in last decade..

(e) if so, the details thereof

Reply : The current food grain production of major crops are

Coconut (million nuts)	131.73
Paddy (MT)	16403.94
Pulses (MT)	175.81
Oilseeds (MT)	4.23
Vegetables (MT)	34604.01
Fruits (MT)	27940.056
Spices (MT)	984.30
Root crops (MT)	5028.89

LOK SABHA

Ministry to which the day has been allotted : **SCIENCE AND TECHNOLOGY**

Sitting On the : **24/07/2024**

D.No : 418

Research in Biotechnonology and Biology

Will the Minister of SCIENCE AND TECHNOLOGY

(a) whether there has been an increase in research publications in biotechnology and biology; (b) if so details thereof. ; (c) whether the Government is promoting patenting and technology transfer activities in the field of biotechnology and biology; and (d) if so, the details thereof?

ICAR-Central Island Agricultural Research Institute, Port Blair

LOK SABHA

D.No : 418

Research in Biotechnology and Biology

Will the Minister of SCIENCE AND TECHNOLOGY

(a) whether there has been an increase in research publications in biotechnology and biology;

Reply: Yes, there has been significant increase in number of research publication in the field of biotechnology in the last few years.

(b) if so details thereof;

During the last five years, the average percentage of research papers related to research in the field of biotechnology and biology ranges from 24-31%.

(c) whether the Government is promoting patenting and technology transfer activities in the field of biotechnology and biology; and

Reply : Yes, ICAR-CIARI is promoting patenting and technology transfer activities in the field of biotechnology.

(d) if so, the details thereof?

Reply: During the last 3 years, ICAR-CIARI has patented 6 technologies, filed 6 patent, Commercialized 7 technologies

Patent granted:

1. Novel acaricide composition for veterinary topical application and the method of preparation thereof
2. Design patent "Parasite Egg Concentrator"
3. Method of determining the sex of non-ratite birds
4. AN ACARICIDE FORMULATION FOR THE CONTROL OF TICKS IN FARM ANIMALS
5. Design patent "Coconut leaf extractor"
6. Dual method for extraction of calcium alginate from sea weed

Patent filed

1. Closed water circulatory system
2. Cinnamon bark rubbing tool
3. Air layering bag
4. AI Gun for Rabbit Model
5. Artificial Vagina for Rabbit Model
6. Rabbit Semen Collector

Commercialized technologies

1. DweepHanGreens: hanging structure for cultivation of leafy vegetables
2. Dweeptickure : Herbal acaricide for control of tick infestation in livestock
3. Dweepgau maa humpsore rakshak: treatment protocol for control of hump sore in livestock
4. Dweep Larval Rearing Technology for Fancy guppy fish
5. Sex determination kit for non-ratite birds
6. Dweep carp grower fish feed
7. Dweepvertigrow for cultivation of leafy vegetables

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH
(DIVISION OF AGRICULTURAL EXTENSION)
KRISHI ANUSANSHAN BHAWAN-1, PUSA, NEW DELHI-12**

F.No. 01/3/2020-AE-III

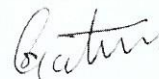
Dated: 24 July, 2024

**Subject: Rajya Sabha Question Dy No. U2373 due for answer on 02.08.2024 regarding
"Training for farmers by agricultural universities and institutions under Central
Government" -reg.**

The text of the Question is as under:

- (a) the number of agricultural universities/institutions under the Central Government that have imparted direct and indirect training to the farmers to cultivate crops using new techniques; the number of farmers trained and the various crops for which training of farmers has been imparted;
- (b) the number of farmers out of them who are using new techniques for which they have been trained;
- (c) the average percentage increase in the income of those farmers who have been using the new method as compared to the old method of farming; and
- (d) the details thereof, year-wise, direct training-wise, indirect training-wise, crop-wise, and agricultural university/institution-wise?

You are requested to kindly provide requisite information in the attached format to the undersigned through fax No. **011-25842968** and e-mail: keshava.69@gov.in by 12:00 noon tomorrow (25.07.2024) positively so as to formulate the reply for the Rajya Sabha



(U. S. Gautam)

Deputy Director General (Agril. Extn.)

To,
The Deputy Director Generals of ICAR

ICAR-Central Island Agricultural Research Institute, Port Blair

Information on training of farmers conducted by ICAR Institutes during 2023-24

Number of ICAR Institutes who conducted farmers' trainings	Number of training organized	Number of farmers trained	Names of crops/enterprises on which training programmes organized
ICAR-Central Island Agricultural Research Institute, Port Blair	32	1200	Rice, spices, nursery techniques in horticultural crops, climate resilient agricultural practices, scientific livestock farming, freshwater ornamental fish breeding, crab fattening, aquatic animal disease and health management.

LOK SABHA

Ministry: **AGRICULTURE AND FARMERS WELFARE**

Sitting on: **06/08/2024**

Question Type: **STARRED**

D.No : 5068

Agreements made by ICAR with Private Companies

Will the Minister of AGRICULTURE AND FARMERS WELFARE

- (a) whether ICAR has signed agreements with companies like Bayer, Amazon, Koromandal International, Dhanuka Agritech in the recent past;
- (b) if so, details of the financial cost incurred by the Government alongwith details of the intellectual property Right (IPR) in this regard;
- (c) whether ICAR has signed any MoU with any farmer organizations to advance its research agenda; and
- (d) if so, the details thereof and if not the reasons thereof?

ADG (TC)

ICAR-Central Island Agricultural Research Institute, Port Blair

LOKSABHA

Ministry: AGRICULTURE AND FARMERS WELFARE

Question Type: STARRED

D.No:5068

Agreements made by ICAR with Private Companies

Will the Minister of AGRICULTURE AND FARMERS WELFARE

(a) Whether ICAR has signed agreements with companies like Bayer, Amazon, Koromandal International, Dhanuka Agritech in the recent past;
Reply : NIL

(b) If so, details of the financial cost incurred by the Government alongwith details of the intellectual property Right (IPR) in this regard;
Reply : NIL

(c) Whether ICAR has signed any MoU with any farmer organizations to advance its research agenda; and
Reply: NIL

(d) If so, the details thereof and if not the reasons thereof?
Reply: ICAR-CIARI has not signed any MoU with farmer organization, however, in RAC, IMC and other meeting, the farmers representatives are invited to discuss the researchable issues raised by the farmers and thereby developing suitable technology for disseminating to the farming community .

**INDIAN COUNCIL OF AGRICULTURAL RESEARCH
(DIVISION OF AGRICULTURAL EXTENSION)
KRISHI ANUSANSHAN BHAWAN-1, PUSA, NEW DELHI-12**

F.No. 1-1/2021-AE-III

Dated: 30 January, 2023

**Subject: Lok Sabha Starred Question Diary No. 1952 due for answer on 07.02.2023
regarding "Exhibitions for Farmers" -reg.**

The text of the Question is as under:

- (a) whether the Government proposes to organise exhibitions at gram panchayat level to make the farmers aware about the best agricultural seeds, equipments and latest methods of irrigation so that the knowledge acquired from the laboratories of pioneering agricultural institutes and universities can be particularly utilized in the farms and the farmers can get benefited;
- (b) if so, the details thereof;
- (c) whether there is any proposal to organize training camps/loan fairs at block/district level for farmers regularly in this regard;
- (d) if so, the details thereof; and
- (e) the details of the requests received from various States/UTs of the country including Khandwa and Kurukshetra Parliamentary constituencies in this regard during the last three years and till date along with action taken thereon?

You are requested to kindly provide information of the question in the attached format along with note for supplementary to the undersigned through fax No. 011-25842968 and e-mail: keshava.69@gov.in by 01.02.2023 positively so as to formulate the reply for Lok Sabha.


(U S Gautam)

Deputy Director General (Agril. Extn.)

To,
All the Deputy Director Generals of ICAR

ICAR-Central Island Agricultural Research Institute, Port Blair

Subject: Loksabha Starred Question dairy No 1952 regarding exhibition for farmers

- (a) Whether the Government proposes to organize exhibitions at gram panchayat level to make the farmers aware about the best agricultural seeds, equipment's and latest methods of irrigation so that the knowledge acquired from the laboratories of pioneering agricultural institutes and universities can be particularly utilized in the farms and the farmers can get benefitted.

Reply: Yes,

- (b) If so, the details, thereof

Reply: ICAR-CIARI propose to organize KisanMela in collaboration with KVKs and line department subject to availability of sufficient fund from the Council.

- (c) Whether there is any proposal to organize training camps/loan fairs at block/district level for farmers regularly in this regard.

Reply : Yes

- (d) If so, the details thereof; and

Reply: ICAR-CIARI is regularly conducting training/awareness programme for the farmers and stakeholders in collaboration with KVKs of all the three districts.

- (e) The details of the requests received from various States/UTs of the country including Khandwa and Kurushetra Parliamentary constituencies in this regard during the last three years and till date along with action taken thereon.

Reply : NO

1. Details of Exhibition/Melas organized by ICAR Institutes (OTHER THAN the KVKs of the INSTITUTE)

Name of State/UT	2021-22		2022-23	
	Exhibition/ Melas organized	No. of participants	Exhibition/ Melas organized	No. of participants
A & N Islands	0	0	<ul style="list-style-type: none"> ICAR- Central Island Agricultural Research Institute, Port Blair has conducted 'Tuber crops Diversity Fair' at Sippighat, Port Blair on 30th March 2022 to Seminar cum Exhibition on "Growing coconut for a better future and life" ICAR-CIARI, Regional Station, Minicoy 2nd Sept., 2022. ICAR-CIARI, Regional Station, Minicoy in collaboration with Minicoy Island Novelty Mass Producer's Society Ltd. made an exhibition on 21 value added products made from fishes 	84 nos 65 Nos. 34Nos.

2. Details of participation of ICAR Institutes(OTHER THAN the KVKs of the INSTITUTE) in Exhibition/Melas organized by other departments

Name of State/UT	Participation of ICAR Institutes in Exhibition/Melas organized by other departments	
	2021-22	2022-23
A & N Islands	Participated in the National Horticultural fair held from 8th to 12 th February, 2021 organized by ICAR-IIHR, Bangaluru on virtual mode	No

3. Details of Training organized by ICAR Institutes(OTHER THAN the KVKs of the INSTITUTE)

Name of State/UT	2021-22		2022-23	
	No. of Training Courses	No. of participants	No. of Training Courses	No. of participants
A & N Islands	44	1365	48	1438

Major findings of research Institutes under DARE

Dy. No. 5 / Parl Qns. / 2023
Date 6/3/2023

From : rsqns@sansad.nic.in

Sat, Mar 04, 2023 07:37 PM

Subject : Major findings of research Institutes under DARE

To : pqdac.krishi <pqdac.krishi@nic.in>

PROVISIONALLY ADMITTED QUESTION FOR THE RAJYA SABHA

Starred /Unstarred Diary No.--- S2613

The Question Will be put down for -- 17/03/2023

Answer on the Ministry Department -- Agriculture and Farmers Welfare(AGR)

Major findings of research Institutes under DARE

(a) Whether it is a fact that Department of Agriculture Research and Education (DARE) contributes significantly to the India's research performance, if so, the details thereof;

(b) major research findings in the field of agricultural research by Institutes under DARE in last five years;

(c) number of peer-reviewed journal articles published in international journals by the faculty members and research scholars of institutes under DARE in past five years along with brief details;

(d) the number of women scientists in these research institutions, institute wise; and

(e) whether allocated budget have been sufficient to carry out research activities?

BS

ADG (TL)

7.3.23

PS/Je/SP

SPay
7/3/23

US(TC)

- An DSG
- PIM

6/3/23

DARE

ICAR-Central Island Agricultural Research Institute, Port Blair
Andaman and Nicobar Islands 744 105

Starred/Unstarred Diary No : S 2613

Provisionally admitted question for the Rajya Sabha

Major findings of research institute under DARE

- (a) Whether it is a fact that Department of Agriculture Research and Education (DARE) contributes significantly to the India's research performance, if so, the details thereof;

Reply: ICAR-CIARI is the only institute in the NARS system which is addressing the island ecosystem research and development. The major goal of the institute is to provide a research base to improve the productivity of important agriculture, horticulture, livestock and fishery sector through basic, adaptive and strategic research. The institute is providing backstopping and technology support to the Development department/farmers/stakeholders and also provide Policy support to A & N Administration. The institute has developed numerous technologies for the Island farmers for providing decent livelihood through technological intervention.

- (b) Major research findings in the field of agriculture research by institutes under DARE in last five years;

Reply:

- **Varieties developed:** one brinjal (CIARI-Brinjal 2), four pulses (CIARI mung-4, CIARI-mung-5, CIARI-urd-1, CIARI-urd-2), three mushroom (CIARI mushroom 1, CIARI mushroom 2, CIARI mushroom 3) and two coconut varieties (Andaman green dwarf and Andaman yellow dwarf).
- **Patent filed:** Herbal acaricide for control of tick infestation in livestock & Process for extraction of calcium alginate from sea weed
- **Commercialized technologies:** DweepHanGreens (Hanging structure for cultivation of Burmese coriander), Dweep-Carp Grower Feed (for freshwater fish), Dweep Micro (microbial consortia for plant growth), Dweep-tickure (herbal acaricide for control of ticks in cattle), Dweep-vertigrow (soilless cultivation), Dweep-gaumarakshak (treatment protocol for control of humpsore in cattle)
- DUS guidelines for Noni (*Morindacitrifolia* L.) has been notified PPV & FRA & CIARI, Port Blair is approved as a Noni DUS center
- A cluster fruit bearing Noni (*Morindacitrifolia*) tree has been identified wherein a cluster of 4 to 5 obovate elongate fruits are borne at each of the alternate nodes
- Unique arecanut dwarf accession has been identified with immense potential for utilization in breeding for dwarfness. (chali yield of the ranged from 1.8 kg to 2.8 kg/palm/year).
- Woody Pepper (*Piper pendulispicum*) was identified as a potential spice crop for homestead as well as commercial scale cultivation in Andaman Islands.
- Identified *Garcinia dhanikhariensis* as a novel source of natural colourant viz. anthocyanins.
- Repeated pinching (four times) recorded maximum number of flowers per plant (382.0), flower yield per plant (1.37kg) and increased flower duration (52.0 days) which showed maximum yield of flowers per unit area.
- Air layering technology was standardized for cinnamon under island condition, which could be practiced mostly during rainy season alone.
- A new multi-tier pro-tray cultivation system for commercial cultivation of Broad Dhania or Burmese coriander in urban and peri-urban areas was developed. Each pro-tray could produce 500-700 g of fresh produce at the end of nine weeks.
- A soilless vertical farming system for growing leafy coriander and other leafy vegetables in kitchen/terrace garden was developed with a spatial coverage of 10 m² besides two trays of 4 m² in between the vertical frames. Average fresh biomass yield of 4.8 kg/10 m² was obtained and a total of 7 harvests /year were done under the system with estimated yield of about 35 kg/m²/year which can fetch Rs. 10500 with farm gate price of Rs. 300/kg.
- Dragon fruit cultivation technology has been standardized and demonstrated in farmer's field.
- An eco-friendly technique was standardized to produce leaf cups using coconut leaflets, panadanus leaves and arecanut leaf sheath to be used as container for nursery of horticultural plants.

- Five unique rice land races (Black Burma, Khushbayya, White Burma, Mushley and Nyaw-in) grown by Karen community of North & Middle Andaman got registered as farmers' varieties by PPVFRA, New Delhi.
- Climate smart farming system models were developed for increasing farm production and doubling the farm income. Crop + dairy mixed farming system recorded significant increase in farm production from 2.8 t ha⁻¹ to 36.9 t ha⁻¹ REY with net income of Rs.2,14,000/- and employment generation of 365 man days year⁻¹. Coconut + piggery based system with coconut multi-tier cropping, fish cum poultry and livestock recorded net income of Rs.2,23,000/- with production of 36 t ha⁻¹ and employment generation of 198 man days year⁻¹ under integrated farming system (IFS).
- Developed technology/Sex determination kit for differentiation of sex of non-ratite birds.
- A new species of marine eel *Gymnothorax andamanensis* (Short brown moray eel) was described from Andaman waters. New species of freshwater fish *Channaroyi* (emerald snake head) was described from the Islands. These reports formed significant discoveries to the field of aquatic sciences.
- Developed CIARI Bio as the bio-control agents for the management of solanaceous bacterial wilt in the islands. Developed CIARI- GroPro, a Bacillus based liquid formulation for fungal foliar disease management.
- Developed Trimodel therapy (CIARI GauMaRaksha) for treatment of hump sore in cattle.
- Mini incubator technology for rural poultry production has been successfully transferred and demonstrated.
- Developed technology for Larval rearing technology freshwater ornamental fish culture
- Developed mud crab fattening technology
- Breed descriptor application submitted for Andaman goat, Andaman pig and Andaman duck as new breeds from A & N Islands.

(c) Number of peer reviewed journal articles published in international journals by the faculty members and research scholars of institutes under DARE in past five years along with brief details;

Reply: During the last five years i.e 2017-2022, a total of 263 research papers have been published by scientist and research scholars. Of which, 149 (56.65 %) were published in international journals and 114 (43.34%) in national journals. Average number of research papers published by scientists is 1.87.

(d) The number of women scientists in these research institutions, institute wise and

Reply: As on date the number of women scientists are 7.

(e) Whether allocated budget have been sufficient to carry out research activities?

Reply: No. With the allocated budget it is very difficult to carry out and plan any major specific research activities. The cost of the most of the items in this island is approximately 30-40 % costlier than mainland.

Fw: Lok Sabha Question Diary No. 3339 regarding "R&D in Seeds Production" for reply on 21-03-2023- reg.

Director CIARI

Fri 3/17/2023 12:35 PM

To: PME, CIARI, Port Blair <pme.ciari@icar.gov.in>; Pankaj Kumar Singh <Pankaj.Singh1@icar.gov.in>;

Dr. Eaknath B. Chakurkar

Director

ICAR-Central Island Agricultural Research Institute

P.B.No.181, Garacharma

Port Blair-744 105.

Andaman and Nicobar Islands

Phone : 03192-250436(O), 250341(D)

Mobile : (+91)9423056085

Fax : 03192-251068

Email : director.ciari@icar.gov.in

Website: <https://ciari.icar.gov.in>

From: DR Anup Kumar Bhattacharjee

Sent: Friday, March 17, 2023 12:16 PM

To: Director IIHR; Director CIARI; ciarh@nic.in; Director CIAH; Director Spices; Director NRCSS

Subject: Lok Sabha Question Diary No. 3339 regarding "R&D in Seeds Production" for reply on 21-03-2023- reg.

FR is a Lok Sabha Question Diary No. 3339 regarding "R&D in Seeds Production" for reply on 21-03-2023 received from PQ DARE.

Reply of the questions given below:

Q a. The details of the plans of the Government to encourage research and innovation in grain and vegetable seeds production to make our country Atma Nirbhar and Self-sufficient, under the looming threat to food security due to climate change; and

Reply:

Please send the reply on **crop and variety wise Breeder / Truthful labelled seed production for the year 2022-23** positively by today afternoon at 3.30 pm. Regards,

Anup Kr Bhattacharjee



भा.कृ.अनु.प - केंद्रीय द्वीपीय कृषि अनुसंधान संस्थान
ICAR- CENTRAL ISLAND AGRICULTURAL RESEARCH INSTITUTE

पोस्ट बॉक्स नं. 181, पोर्ट ब्लेयर - 744 101

Post Box No. 181, Port Blair - 744 101

अंडमान तथा निकोबार द्वीप समूह, भारत
Andaman and Nicobar Islands, India



प्रभारी पी.एम.ई. कक्ष
In-charge, PME Cell

F.No. 1-10/PMEC/Press/2023/

Dated: 03.03.2023

Subject: Lok Sabha Question Diary No. 3339 regarding "R&D in Seeds Production" for reply on 21-03-2023- reg.

Q a. The details of the plans of the Government to encourage research and innovation in grain and vegetable seeds production to make our country AtmaNirbhar and Self-sufficient, under the looming threat to food security due to climate change; and

Reply:

Crop and variety wise Breeder /Truthful labelled seed production for the year 2022-23

Crop	Variety	Breeder seed (q)	TFL Seed (q)	Total (q)
Rice	CARI Dhan 1	0.29	-	0.29
	CARI Dhan 2	0.19	-	0.19
	CARI Dhan 3	0.21	-	0.21
	CARI Dhan 4	0.25	-	0.25
	CARI Dhan 5	0.44	8.00	8.44
	CARI Dhan 6	0.78	8.00	8.78
	CARI Dhan 7	0.45	10.00	10.45
	CARI Dhan 8	0.40	8.00	8.40
	CARI Dhan 9	0.50	4.00	4.50
Green gram	CARI Mung 1	0.10	-	0.10
	CARI Mung 2	0.11	-	0.11
	CARI Mung 3	0.07	0.39	0.462
	CARI Mung 4	0.03	0.19	0.22
	CARI Mung 5	0.03	-	0.03
Black Gram	CARI Urd 1	0.08	2.37	2.45
	CARI Urd 2	0.08	1.10	1.18
		3.9941	42.05	46.04

With regards,

Yours sincerely,

Sd/-

(Jai Sunder)

Pr. Scientist & Incharge PME Cell

E-mail: pme.ciari@icar.gov.in

7/16/23, 10:27 AM

संसद अनुभाग, भा.कृ.अनु.परि.

Email

डायरी सं० 210 दिनांक 12/7/23

कृषि भवन, नई दिल्ली

Email

Rajeev Kumar Sharma

R&D in Agriculture Sector

From : rsqns@sansad.nic.in

Fri, Jul 14, 2023 06:13 PM

Subject : R&D in Agriculture Sector

To : pqdare icar <pqdare.icar@nic.in>


PROVISIONALLY ADMITTED QUESTION FOR THE RAJYA SABHA

Starred /Unstarred Diary No.-- S815

The Question Will be put down for -- 28/07/2023

Answer on the Ministry Department -- Agriculture and Farmers Welfare(AGR)

R&D in Agriculture Sector


18/7/23
ADG(TL)

(a) Whether the Ministry is undertaking extensive Research and Development (R&D) for boosting agricultural growth in the country; and (b) The details of the research projects undertaken by the Indian Council of Agricultural Research (ICAR) during last five years, year-wise, project-wise?

R&D in agriculture sector

Rajya Sabha

Starred/unstarred diary no . S815

(b) The details of the research projects undertaken by the ICAR-CIARI during last five years,

Reply: The list of the research projects from 2019-2023 is given below:

Sl. No	Title	Year	Status
1.	Conservation and utilization of coconut and arecanut genetic resources of Andaman & Nicobar and Lakshadweep Islands for high yield and product diversification	2018-2023	Completed
2.	Improvement of vegetable and tubercrops for Andaman and Nicobar Islands	2018-2023	Completed
3.	Collection, conservation and evaluation of commercial fruit crops of Andaman and Nicobar Islands	2018-2023	On going
4.	Identification and characterization of superior germplasm of cinnamon, tejpat and long pepper under Bay Islands condition	2021-2026	On going
5.	Conservation, bioprospection and utilization of selected underutilized fruit species of Bay Islands	2021-2026	On going
6.	Enriching coconut plantations of Andaman and Nicobar Islands through augmentation of indigenous multipurpose tree resources	2018-2023	On going
7.	Evaluation of Andaman Padauk (<i>Pterocarpus dalbergioides</i>) based sequential cropping system	2022-25	On going
8.	Collection, conservation, evaluation and agro technique standardization of native and commercial ornamental crops	2021-26	On going
9.	Genetic improvement of rice or higher productivity in Andaman and Nicobar Islands conditions	2017-2021	Completed
10.	Enhancing pulse productivity of Andaman and Nicobar Islands through development and promotion of high yielding and stress tolerant varieties	2018-2021	Completed
11.	Harnessing variability of multi-parent advance generation intercross (MAGIC) population of rice for genetic improvement	2022-26	On going
12.	Organic farming studies for sustaining productivity of Island cropping systems	2018-2024	On going
13.	Study of hydrological response for soil and water conservation in Island ecosystem	2019-2024	On going
14.	Study of carbon foot prints in major farming systems of A&N Islands for climate change adaptation	2020-2023	Completed
15.	Management of moisture stress in vegetable cropping system	2021-2023	Completed
16.	Valorization of organic wastes for abiotic stress management	2021-2023	Completed
17.	Development of novel biostimulants for enhancing	2021-2023	On going

	crop production in island agroecosystem		
18.	Molecular characterization of immune system genes of Nicobari fowl.	2017-2021	Completed
19.	Molecular epidemiology of <i>Rhipicephalus microplus</i> complex in A&N Island and screening for its acaricide resistance	2018-2021	Completed
20.	Pharmaco-assessment of ethno-veterinary medicinal plants of A&N Islands for poultry diseases	2018-2022	Completed
21.	Selection and breeding of Nicobari fowl for immunity and its evaluation under different seasons	2018-2022	Completed
22.	Evaluation of reproductive performance and egg quality of Nicobari fowl using molecular marker	2018-2021	Completed
23.	Biochemical and molecular mining of hormonal profiles of buck under abiotic stressors and managerial intervention for its mitigation	2018-2021	Completed
24.	Identification of Genome-wide molecular signatures responsible for higher fecundity in Andaman Local goats	2018-2022	Completed
25.	Physical, biochemical and molecular characterization of semen in pigs of Bay Islands vis-à-vis study on feasibility of artificial insemination	2018-2021	Completed
26.	Prevalence and diversity of antimicrobial resistance in Enterobacteriaceae from livestock and poultry and its surrounding environment	2019-2022	Completed
27.	Evaluation of hormonal and biochemical profiles of indigenous boar under abiotic stressors and melatonin intervention for its mitigation	2020-2023	On going
28.	Goat improvement through Assisted Reproductive Techniques in Andaman and Nicobar Islands	2021-2024	On going
29.	Nutrient intake and digestibility of the Andaman local and Nicobari Pigs in intensive system of rearing	2021-2024	On going
30.	Probiotics supplementation in pig health and immunity	2021-2024	On going
31.	Mitigation of heat stress of endemic poultry breeds of Andaman and Nicobar Islands under seasonal and climate change scenario	2022- 2025	On going
32.	Evaluation of traditional knowledge of plants in the management of <i>Rhipicephalus microplus</i> in cattle and goat	2022-2025	On going
33.	Assessment of elasmobranch fisheries of Andaman Islands	2019-2022	Completed

34.	Biology and population dynamics of major perch fishes of Andaman Islands	2019-2022	Completed
35.	Prevalence of parasites infecting commercial marine and freshwater fishes of the Andaman Islands	2019-2022	Completed
36.	Seafood quality and safety assessment studies in commercial fish landing of Andaman Islands.	2019-2022	Completed
37.	Exploring the Post-Harvest Utilisation and market potential for value added products from commercial fish landings of Andaman	2019-2022	Completed
38.	Mapping the brackish water resources of South Andaman for aquaculture site suitability using GIS approach	2022-25	On going
39.	Deciphering the in-vitro bioactive potential of selected seaweed species of Andaman Islands and evaluation of its immunomodulatory effect on fish	2022-25	On going
40.	Opportunities and challenges of sustaining agriculture in South Andaman district of Andaman & Nicobar Islands: A behavioural perspective	2021-2023	On going
41.	Agricultural Information Sharing and Knowledge Generation towards sustainable management of Island ecosystem with special reference to Fishery by developing mobile apps	2018-2022	Completed
42.	Indigenous adaptation strategies of tribal <i>vis-à-vis</i> non-tribal farmers and impact of CIARI technologies in mitigating climate change effects on agriculture in Andaman & Nicobar Islands	2018-2022	Completed
43.	Development of Island-based information management system for decision making in agriculture	2022-26	On going
44.	Exploration of fishery, biology and market potential of tuna resources of Minicoy Islands	2022-24	On going
45.	Integrated Farming System (IFS) for enhancing sustainable Livelihood of rural tribal community of Minicoy Islands	2022- 24	On going

Email

51 pqdac.krishi
 Dy. No...../Parl Qns./20
 Date.....1/12/2023
 Fri, Dec 01, 2023 12:46 PM

From : QBRB LSS <qbrb10-lss@sansad.nic.in>

Subject : Question : Unstarred: Diary No : 3699: Answer Date:
 12/12/2023

To : pqdac.krishi <pqdac.krishi@nic.in>

LOK SABHA

D.No 3699

Ministry to which the day has been allotted : AGRICULTURE AND FARMERS WELFARE

Sitting on the : 12/12/2023

Promoting Agriculture through R&D

Will the Minister of AGRICULTURE AND FARMERS WELFARE

(a) whether the Government is laying greater emphasis on Research and Development in the agricultural production;

(b) if so, the details of the programme prepared for States in that direction; and

(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?

संसद अनुभाग, भा.कृ.अनु.परि.

डायरी सं० 314 दिनांक 1/12/23

कृषि भवन, नई दिल्ली

ADG (TC)

Ans 04.12.2023
 4 11/12/2023

यह प्रश्न DARE से सम्बन्धित है।

The Secretary, Preamble to Division

Jagjan Bhai
 अनुभाग अधिकारी संसद

PSO (TC) (M)
 PSO (TC)

Ans Kumar
 04.12.2023

DARE

4-12-2023

ICAR-Central Island Agricultural Research Institute, Port Blair

Subject: Promoting agriculture through R & D

Lok Sabha D. No 3699

Will the Ministry of Agriculture and Farmers Welfare

(a) Whether the Government is laying greater emphasis on research and development in the agriculture production;

Reply : Yes, ICAR-CIARI is the only research institute in the national agricultural research system, which addresses the researchable issues of island agriculture for enhancing the productivity of agriculture, horticulture, animal husbandry, fisheries and allied sectors.

(b) If so, the details of the programme prepared for states in that direction; and

Reply :

- To provide a research base to improve the productivity of agri-horticulture, livestock, and fisheries of Andaman & Nicobar and Lakshadweep group of Islands through basic, applied, and adaptive research
- Conservation, characterization, and sustainable utilization of natural resources and harnessing through post-harvest and value addition
- To standardize technologies for health coverage and biosecurity of plant, animal, and fishery resources
- To standardize techniques for capture and culture fisheries including coastal aquaculture
- Vulnerability studies of Island ecosystem and adaptive strategies to develop climate-resilient agriculture
- Transfer of technology, capacity building, policy support, and market intelligence to stakeholders

(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?

Reply: ICAR-CIARI is regularly conducting training, awareness and skill development programmes for the farmers and stakeholders of Andaman & Nicobar Islands and Lakshadweep Islands.

Training conducted

Year	No of training	Beneficiaries
2014-2015	24	1006
2015-2016	45	1519
2016-2017	60	3126
2017-2018	40	1795
2018-2019	33	1281
2019	30	773
2020	39	1177
2021	44	1365
2022	48	1438
Total	363	13480

Demonstration

Year	No of demonstration	No. of beneficiaries
2014-2015	7	225
2015-2016	6	204
2016-2017	7	291
2017-2018	6	130
2018-2019	8	199
2019	8	583
2020	7	132
2021	4	115
2022	14	1129
Total	67	3008

संख्या: H-11016/1/2022-संसद

भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय

(कृषि एवं किसान कल्याण विभाग)

नई दिल्ली, दिनांक: 19.7.2023

लोक सभा

25.07.2023 को मौखिक उत्तर के लिए स्वीकृत प्रश्न

POSITION NO. 16TH

Hyperspectral Remote Sensing Technology for Agriculture

*76. SHRI CHANDRA SEKHAR SAHU:
SHRI RAHUL RAMESH SHEWALE:

Will the Minister of AGRICULTURE AND
FARMERS WELFARE

कृषि और किसान कल्याण मंत्री

be pleased to state:

(a) whether the Hyperspectral Remote Sensing Technology plays a crucial role in monitoring and assessing the health of crops and soils in the country;

(b) if so, the details and the salient features of the said technology;

(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;

(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

(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?

अनुरोध है कि उत्तर के मसौदे को माननीय मंत्री जी द्वारा स्वीकृत किये जाने के पश्चात, हिन्दी एवं अंग्रेजी कि soft copy pqdac.krishi@nic.in पर मेल कर दी जाए तथा उसकी एक-2 hard copy संसद अनुभाग में भेज दी जाए।

Advise (IT)

20/7/23

8/9/23

प्रदीप सिंह नेगी
19/7/2023

अवर सचिव (संसद)

टेलीफोन : 23384554

ICAR-Central Island Agricultural Research Institute, Port Blair

Hypersectoral Remote Sensing Technology for Agriculture

LOK SABHA

***76 : SHRI CHANDRA SEKHAR SAHU, SHRI RAHUL RAMESH SHEWALE:**

a) Whether the Hyperspectral Remote Sensing Technology plays a critical role in monitoring and assessing the health of crops and soils in the country;

Reply) Yes

b) If so, the details and salient features of the said technology;

Reply) Two number of Unmanned Aerial Vehicles (UAV) were demonstrated and launched at ICAR-CIARI, Port Blair. The crop health monitoring, timely identification of diseases and pest attacks, spraying organic pesticides, etc. will be done in Andaman & Nicobar Islands.

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;

Reply) Not applicable

d) Whether it is a fact that this is a significant step towards leveraging advanced satellite imaging technology for the benefit of the India Agriculture Ecosystem; and

Reply) Yes

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.

Reply) In ICAR-CIARI, Port Blair, the projects on 'Mapping potential areas for water harvesting and soil conservation measures planning and estimating surface soil moisture using synthetic aperture radar (SAR) data', 'Mapping the brackish water resources for aquaculture site suitability', and 'Island management plan at Car Nicobar to study the vulnerability and to recommend suitable conservation measures' were on going. The above all projects were using advanced remote sensing and satellite image processing techniques to accomplish the proposed objectives along with the ground truth validation. The research on the application of above techniques in the agriculture and its allied sectors will give accurate and timely information to the decision makers and policy makers for a challenging area like Andaman and Nicobar Islands, which are geographically, topographically, and climatically distinct.

Email

Dy. No. ¹...../Parl Qns./20 23
Date.....12/7/2023.

pqdac.krishi

From : QBRB LSS <qbrb10-lss@sansad.nic.in>

Tue, Jul 11, 2023 04:00 PM

Subject : Question : Starred: Diary No : 1641: Answer Date:
25/07/2023

To : pqdac.krishi <pqdac.krishi@nic.in>

LOK SABHA

D.No 1641

Ministry to which the day has been allotted : AGRICULTURE AND FARMERS
WELFARE

Sitting on the : 25/07/2023

Role of Digital Technology in modernising Agriculture

Will the Minister of AGRICULTURE AND FARMERS WELFARE

(a) whether digital technology can play a transformative role in
modernizing our agriculture;

(b) if so, 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 Sonapat district of Haryana; and

(c) if not, the reasons therefore?

IT
यह प्रश्न
से सम्बन्धित है।
The Question Pertains to
Division

[Signature]
कृपया अधिकारी को सूचित करें।
S. I. Prasad

Adviser (IT)

[Signature]
Div. IT

[Signature]
11/7

USC(IT)

Role of Digital Technology in modernising Agriculture

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

- (a) Whether digital technology can play a transformative role in modernizing our agriculture;

It allow farmers to maximize yields using minimal natural resources. Improving farm yields and supply chain management. Big Data helps collection and compilation of data and its further processing to make it useful for decision-making/problem-solving.

- (b) if so, the details of initiatives taken/proposed by the Government to Promote digital agriculture in Hooghly of West Bengal, Amravati of Maharashtra, Sitamarthi and Bhagalpur of Bihar, Jammu and Kashmir, Madhya Pradesh, Jharkhand and Sonipat district of Haryana and

The following initiatives have been taken at ICAR-CIARI, Port Blair

1. Two Agricultural drones were procured for promotion and demonstration of spraying pesticide and nutrients in agricultural fields. It has the capacity of 10 litter tank and it can cover 1 acres land within 15 minutes.
2. Remote Sensing technology is a key component of Digital Agriculture and is being used by an increasing number of scientists, engineers and large-scale crop growers. During the last two decades, development in RS data acquisition capabilities, data processing and interpretation of ground based, airborne and satellite observations have made it possible to couple RS technologies and precision crop management systems.

In ICAR-CIARI, Port Blair, three on-going institute research projects are operational using Remote sensing and GIS

- i. Study of hydrological response for soil and water conservation in Island ecosystem
- ii. Mapping the brackish water resources of Andaman group of Islands to delineate the sites suitable for aquaculture using Geographical Information System (GIS).
- iii. Development of Island-based information management system for decision making in agriculture

- (c) if not, the reasons therefore? -N/A

(ICAR), Island Agricultu

Subject: Information required under relevant sections of the Right to Information Act 2005 and 2012,

Sir,

With utmost sincerity, the following information is required on the above subject:-

01. According to P.W.D Act 1995, 3p reservation for disabled people in government jobs and R.P.W.D. There is 4p reservation for disabled people in Act 2016. How many disabled people have got the benefit of reservation from 2000 to 2016 AD (3p reservation) and from 2017 to 01 February 2023 (4p reservation). Please provide his/her name, designation, details of disability, posting, mobile number and photocopy of disability certificate.

NIL

02. What is the number of all types of employees working in all departments, all directorates, all universities, government recognized institutions, commissions and all the states of India, and how many disabled persons are included in it, their name, designation, type of disability. Please provide photocopy of designation, mobile number and disability certificate.

SCIENTIST,
TECHNICAL,
ADMINISTRATIVE,
Skilled supporting
staff (SSS)

03. How many schools, colleges, universities, hospitals and institutions are there for the disabled people (recognized schools, colleges, universities, hospitals and institutions) run by the Government of India? In how many schools, colleges, universities, hospitals and institutions are wheelchairs available? How many are available? Please tell with complete details.

N.A.

04. There is a provision of ramp, Disabled adapted accessible toilets are available in the all the schools, colleges, universities, hospitals and institutions run by the Government of India. If yes, please provide ramp photo. Please tell with complete details.

Information
may be
available
in Estate
Section.

05. Moving chairs are available in all schools, colleges, universities, hospitals and institutions run by the Government of India. How many are available? Please tell with complete details.

06. What arrangements have been made for compliance with the Rights of Persons with Disabilities Act 2016 in all the schools, colleges, universities, hospitals and institutions run by the Government of India. Please tell with complete details.

Revt.
9/11/2023
(Assistant)
Estt. Section.

Original RTI Text : To,
Sir, all Public Information Officers
Central Arid Zone Research Institute (ICAR), Avian
Research Institute (ICAR), Citrus Research Institute (ICAR),
Coastal Agricultural Research Institute (ICAR), Inland

Reply

Sl. No.	RTI Query No.	Reply
1	Point No. 1	This information sought may be treated as Nil.
2	Point No. 2	<p>Scientists : 31 Technical : 25 Administrative: 20 SSS (Skilled Supporting Staff): 52</p> <p>Employed under Disability category: Nil</p> <p>Staff profiles may be accessed via our website (https://ciari.icar.gov.in/#)</p> <p>Telephone Directory is available online https://ciari.icar.gov.in/assets/pdf/telephonedirectory19.pdf</p> <p>For Intercom Numbers https://ciari.icar.gov.in/assets/pdf/intercom_list.pdf</p>
3	Point No.3	This information sought may be treated as Nil.
4.	<u>Point No. 4:</u>	The photographs of the ramp and toilets constructed in different buildings of ICAR-CIARI, Port Blair are attached herewith. (Total 7 Pics attached)
5.	<u>Point No. 5:</u>	This information sought may be treated as Nil.
6.	<u>Point No.6:</u>	C.C Ramp with hand rail and access to toilet of Phase – II office building has been made (one each in ground and first floor) for the disabled person. Only ramp facility has been made in Phase-I, Library and ATIC building. This facility was done in Institute buildings on 17.12.2019 by the CPWD for Rs. 20,05,487/-. After completion of work the ramp and toilet facility has been put in use since 17.12.2019.

Original RTI Text :

To,
The Central Public Information Officer

Subject: Request for Information under the Right to Information Act, 2005

Sir/Madam,

I am writing to request information under the Right to Information Act, 2005 regarding the guest houses of CSIR (Council of Scientific and Industrial Research), ICAR (Indian Council of Agricultural Research) labs, and any other central government offices that allow central government employees to use their guest houses across India.

1. Kindly provide a comprehensive list of all guest houses associated with CSIR, ICAR labs, and any other central government offices throughout the country.
2. Specify the charges for accommodation for central government employees and their dependents at these guest houses.

3. Please provide details about the eligibility conditions for availing guest house facilities, particularly for employees of other central government offices and their dependent and non dependent family members.

4. Provide the complete address and contact information of the officer through whom the guest house can be booked for each listed facility.

5. Clarify whether an employee of CSIR is eligible to use the guest houses of ICAR labs and under what conditions and vice versa.

Date: 20.12.2023

To
The CPIO (RTI)
CIARI, Port Blair

Sub: Submission of RTI reply -Reg.

Ref: RTI request under registration Number CIARI/R/X/23/00001 Dated 06.12.2023

Sir,

With reference to the above, I am furnishing the following information for your kind perusal.

1. https://icartelidir.icar.gov.in/teli_dir/home/institute_house
2. ANNEXTURE - II
3. ANNEXTURE - III
4. <https://ciari.icar.gov.in/>
5. ANNEXTURE - II

Submitted for your kind information please.

Thanking You

Your's Sincerely



(Incharge)
Guest House
ICAR- CIARI, Port Blair

ANNEXURE I



**INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI BHAWAN: NEW DELHI**

F. No. GAC-12-4/2023-E&M

Dated: 10th October, 2023

To,

The Directors/ Project Directors of all ICAR Institutes/ National Research Centres/
Project Coordinator Units/ ATARIs/ Bureaux, etc.


Sub: Revised room rent and consolidated instructions in respect of various types of
accommodation at ICAR Guest Houses – reg.

Sir/ Madam,

It has been decided with the approval of the Competent Authority to revise the room rent/
charges in respect of various types of accommodation at ICAR Guest Houses across India
(Annexure I).

The revised rates shall be applicable with effect from 15th October, 2023 uniformly. All
payments w.e.f. the mentioned date shall have to be charged as per the revised rate only.

This supersedes all earlier orders issued in this regard.


(Sumit Kumar Jindal)
Deputy Secretary (GAC)

Copy to:

1. All Officers/ sections of ICAR, Krishi Bhawan, KAB-I & II and NASC.
2. PSO to DG, ICAR/ Sr. PPS to Secy.. ICAR/ PPS to FA, ICAR.
3. Media Unit for uploading on e-office and ICAR website.
4. Guard file/ Spare copies.

I. Room Rent Charges (per day in INR) for International Guest House, NASC Complex:

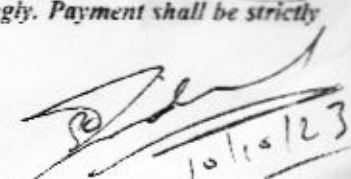
Sl. No.	Category	Single Bed Sharing Basis	Double Bed Room	Suite Room
1.	Serving and retired officers of NARS (ICAR/SAU) on private visit	1,000	1,500	2,500
2.	Serving and retired officers of NARS (ICAR/SAU) on official visit	1,500	2,500	4,000
3.	Serving Officers of Central/ State/ PSUs/ Autonomous organizations/ on official or private visit	2,000	3,000	4,500
4.	Private visitors i.e. other than ICAR, SAUS, Central or State Govt. etc.	2,500	3,500	5,000
5.	Foreign Visitors (SAARC Countries)	3,500	4,500	7,000
6.	Foreign Visitors (Other than SAARC Countries)	4,500	5,500	8,000

II. Room Rent Charges (per day in INR) for ICAR Institutes' Guest Houses (Other than International Guest House, NASC):

Sl. No.	Category	AC Room		Non - AC Room		Suite	
		X class cities	Other cities	X class cities	Other cities	X class cities	Other cities
1.	Serving & retired officers of NARS (ICAR/ SAU) on private visit	500	300✓	300	200	800	500✓
2.	Serving & retired officers of NARS (ICAR/ SAU) on official visit	750	450✓	450	300	1,500	1,000✓
3.	Serving officers of Central/ State/ Autonomous organizations/ PSUs on official or private visit	1,000	800✓	800	500	2,000	1,500✓
4.	Private visitors i.e. other than ICAR, SAUs, Central or State Govt. etc.	1,500	1,000✓	1,000	750	2,500	2,000✓
5.	Foreign Visitors (SAARC Nation)	3,000	2,000✓	2,000	1,800	3,500	3,000✓
6.	Foreign Visitors (Other than (SAARC Nation)	4,000	3,000✓	3,000	2,500	4,500	4,000✓
7.	Dormitory (per bed of approx. 6 ft. X 3 ft. size)	150	100	100	75	-----	-----

Note: (1) Classification of cities is as per HRA rules.

(2) Room rent (except dormitory) mentioned above are per bed (double bed of approx. 6 ft. X 6 ft. size) per day charges. In case of single bed, it will be halved and dealt accordingly. Payment shall be strictly charged on bed basis only and not person basis.


10/10/23

TERMS & CONDITIONS FOR BOOKING OF ACCOMODATION AT THE
INTERNATIONAL GUEST HOUSE, NASC COMPLEX, NEW DELHI:

1. Submission of a copy of a valid identity card is a must for all the guests seeking accommodation in the guest house, to ascertain their identity.
2. Check out time is 24 hours.
3. Allotment of rooms in the Guest House shall be on first come first serve basis. However, preference will be given for ICAR/DARE officials coming on official visit.
4. Booking for guests will be done/ approved by the E&M Section. In case of bulk booking, including foreign guests, approval of Deputy Secretary (GAC), ICAR will be required.
5. Allotment can be cancelled/shifted in case it is required for VIP use /exigency.
6. The room rent charges shall be applicable as per the status of the guest staying in the Guest House and not as per the status of the officer who has booked the accommodation e.g. if any ICAR/DARE employee is booking an accommodation for a private person, charges will be as applicable to "Private Visitor" and not "ICAR Charges".
7. Dependent family members of ICAR/DARE employees - spouse and children can be treated within the category of ICAR employees (personal visit) for the purpose of charging tariff. The dependent family member has to furnish the copy of the identity card of the ICAR official, she/he is related to. This facility will not be available for Non-ICAR employees, they will be charged as per their actual category, as detailed at point no. 6.
8. VIP guests of the Ministers' of Agriculture (Union as well as the State) and the Director General, ICAR will be charged as ICAR Official category rates, only when a written request is received from their offices, or else they will be charged as per their actual category, as detailed at point no. 6.
9. Maximum continuous stay in the Guest House would be for a period of 15 days, subject to availability. This can be reviewed on case to case basis by the Deputy Secretary (GAC), ICAR.
10. To avoid inconvenience, request for allotment of accommodation should be sent well in advance or at least 2 days in advance on the prescribed application format through email.
11. Liquor/ smoking is strictly prohibited in the Guest House rooms/ lobby.
12. Pets are not allowed in the Guest House.
13. Some rooms may be kept reserved with the Caretaker, IGH, for priority allotments.


10/11/23

1. Query

Information Sought what are the new agriculture enhancement technologies are being imported in India for other countries in past 3 years.
(जानकारी मांगी):

Reply: It is to state that the information requested under the above RTI is not available in the records of ICAR-CIARI Port Blair

2. Query Forwarded from ICAR, Points to reply 7,8,9

Information Sought :	Please provide me the following information about your organisation for the last 2 financial years: 1. Objective of the organisation 2. Name of the head of the organisation with contact details 3. No of permanent employees of different grades 4. No. of part time and contract employees 5. Total annual budget of the organisation in Rupees 6. Total annual salary paid to all grades of permanent and other employees including perks, PF, gratuity etc. 7. Total amount spent in meeting the objectives of the organisation 8. The details of the works carried out in collaboration with other National and International organisations. 9. The details of the work carried out by the organisation to meet the UN Sustainable Development Goals-2030
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Reply point No. 7:-

Kindly refer page no 32 of Annual report 2020 and page No: 19 of Annual report 2021. (Institute's Annual report available in website i:e <https://ciari.icar.gov.in>

Reply Point No. 8:-

Kindly refer Annual report 2020 and 2021 available in website i:e <https://ciari.icar.gov.in>

Reply Point No. 9:-

This is may be treated as 'NIL'

3 . Query3.

1. List of Books on the topic Coconut/Coconut Cultivation:

Sl. No.	Title	Author(s)	Year of Publications

2. Nutmeg/ Nutmeg Cultivation

Sl. No.	Title	Author(s)	Year of Publications

3. Arecanut/ Arecanut Cultivation

Sl. No.	Title	Author(s)	Year of Publications

Reply

1. List of books on the topic of Coconut Cultivation:

Sl. No.	Title	Author(s)	Year of Publication
1.	नारियल की खेती	सी. एम. जोणा	1965
2.	Coconuts	R.Child	1974
3.	Nematodes, fungi, insects & mites associated with the coconut palm	CPCRI	1979
4.	Handbook on coconut palm	P.K. Thampan	1981
5.	Coconut research & development	N.M.Nayar	1983
6.	Coconut tree of life	J.G.Ohler	1984
7.	Coconut Cultivation Technology	K.U.K.Nampothiri	2000
8.	Trends in Coconut Research and Development in India	K.U.K.Nampothiri	2000
9.	Organic Production of Coconut	H.P.Singh	2001
10.	Descriptors for world coconut germplasm conserved in Andaman	M.Sankaran & Others	2013
11.	Coconut	Chowdappa.P	2017
12.	The Coconut Genome	M.K.Rajesh	2021

2. List of books on the topic of Nutmeg

Sl. No.	Title	Author(s)	Year of Publication
	Nil		

3. List of books on the topic of Areca nut Cultivation

Sl. No.	Title	Author(s)	Year of Publication
01	The Arecanut Palm	K.V.A.Bavappa	1982

Query 4:

Information Sought : 1. Please furnish the name of Scientists who received (since 2001) and who are presently receiving Non-Practising Allowance (NPA) along with their educational qualification, Discipline and Division in which they are/were posted.

Reply 4:

With regard to the abovementioned reference cited, the office CIARI inform the following

Note # 7

1	Dr. R.B. Rai	Transferred from this Institute and the required data is not available.
2	Dr. R.N. chatterjee	
3	Dr. A. Kundu	
4	Dr. Subodh Kumar Saha	
5	Dr. Jeya Kumar	
6	Dr. B. Ganesh Kumar	
7	Dr. Simmi Tomar	
8	Dr. Madhu Sudan Kundu	
9	Dr. B.R. Singh	
10	Dr. Snajay Kumar Ravi	

Sl. No	Name	Educational Qualification	Discipline	Division
1	Dr. Debasis Bhattacharya	Ph.D	Veterinary Parasitology	Animal Science
2	Dr. Jai Sunder	Ph.D	Veterinary Pathology	Animal Science
3	Dr. T. Sujatha	Ph.D	Poultry Science	Animal Science
4	Dr. Prokasananda Bala	Ph.D	Animal Nutrition	Animal Science
5	Dr. Arun Kumar De	Ph.D	Animal Biotechnology	Animal Science
6	Dr. K. Muniswamy	MVSC	Animal Biotechnology	Animal Science
7	Dr. Perumal Ponraj	Ph.D	Animal Reproduction & Gynaecology	Animal Science
8	Dr. Rafeeqe Rahman Alyethodi	Ph.D	Animal Genetic & Breeding	Animal Science