

# **Annual Report**

**(2019-20)**

***Krishi Vigyan Kendra, Khunti***

**Diyankel, Torpa, Distt- Khunti**

Foundation laid for 23<sup>rd</sup> KVK of Jharkhand at Diyankel, Torpa, Khunti on 5 May, 2014. KVK, Khunti is under the administrative control of ICAR-IINRG, Ranchi. Dr. SP Singh, who was in-charge of KVK, retired from service on 30 April 2019. Dr. J Ghosh, Pr. Sci ICAR-IINRG has been given responsibility to act as In-charge cum Head, KVK, Khunti on August 01, 2019. Construction of Administrative Building of KVK is going on. One post each of SMS Agro-meteorology and Agromate Observer are filled on contractual basis under GKMS of IMD. New Delhi. Recruitment of Senior Scientist-cum-Head, SMS/Scientists and other staff of KVK is under process. One post of Assistant filled on transfer basis by ICAR-IINRG. The training programmes, FLDs, events etc mentioned below were organized/ conducted during 2019.

## **Executive Summary**

During Kharif 2019, 10 FLDs having area of 4.0 ha were conducted on Paddy variety “Sahbhagi Dhan” covering 27 farmers of village Banai Toli (7), Churgi (10) of Torpa block and Kota (10) of Arki block in Khunti district. To enhance the productivity in rabi and summer seasons good quality seeds of chickpea (390 kg), mustard (8 kg) in rabi and green gram (180kg) in summer season under FLD programme were distributed among farmers of Khunti district.

Khunti district is potential for lac cultivation. It gives livelihood security to farmers. Scientific lac cultivation programme was initiated in four blocks (Khunti, Murhu, Rania, Arki) of Khunti district. More than 100 lac host plants were inoculated with 400 kg broodlac. Necessary inputs were provided to ensure good return from this crop.

Conducted 20 Off Campus Trainings of farmers on cultivation of Paddy, Pigeon pea, Groundnut, Soybean, Green gram and Black gram during Kharif season, in which 2059 farmers participated. During Rabi season total 18 Off Campus trainings of farmers were conducted on cultivation of Chickpea, Lentil and rapeseed mustard.

Two on Campus Trainings of farmers (66 participants) on scientific lac cultivation techniques were conducted during the year.

## Achievements/Progress during Year 2019

### A) FLD conducted

Sl .	Season	Crop	Technology	Seed (Kg)	Area (ha)	No of De mo.	No. of farmer s (villag es)	Yield q/ha Demo .	Yield q/ha non dem o.	% Incre ase over non demo .
1.	Kharif-2019	Paddy	“Sahbhagi Dhan”	120	4	10	27 (03)	33.2	15.5	14.19
		Pigeon pea	IPA-203	200	10	25	50(05)	-	-	-
		Lac	Kusumi	400		25	100(4)	-	-	-
2	Rabi- 2019	Chick-pea	GNG 1458	390	5.5	8	40(3)	-	-	-
		Mustard	Pusa Bold	8	1.5	5	10(2)	-	-	-
3	Summer-2020	Green gram	IPM 2-3	180	6	30	50(5)	-	-	-

Total 10 demonstrations were conducted on Paddy crop during *Kharif* 2019. “Sahbhagi Dhan” performed well and gave 114.19% more yield over local variety used by farmers of these region, in rainfed condition.



Paddy at tillering stage



Paddy at maturity stage

Pigeon pea variety IPA-203 (200 kg.) was distributed among 50 farmers at five different villages. Brood lac (400 kg.) was distributed in four different villages among 100 farmers for winter lac crop. Chick pea GNG 1458 (390kg.) and mustard



Pusa Bold (8 kg.) was given among 40 and 10 farmers respectively in rabi season. Summer Green gram IPM2-3 (180 kg.) was distributed among 50 farmers at five different villages of Khunti district. These above mentioned crops are planted in 27 hectare and 277 farmers is being benefited.



Distribution of green gram seed at Torpa



Mustard crop at farmers field



Chick pea crop at farmers field



Pigeon pea crop at farmers field



Lac crop at farmers field

## B) Extension Activities conducted

Sl.	Activity	Villages covered	Participants
1.	On Campus at ICAR-IINRG, (KVK, Khunti) 5 days' training of farmers on Lac Production	3	66
2.	Off Campus training of farmers on Plantation Technology of Vegetables and Fruit Plants	20	1450
3.	Off Campus farmers training on Vegetable cultivation	02	145
4.	Off Campus farmers training on cultivation of Paddy, Groundnut, Soybean Green gram, Black gram	20	2059
5	Off Campus farmers training on cultivation of Chickpea, Lentil and Mustard	18	1966
6.	Scientist Visit to Fields	47	

## C) Farmers' Trainings

**On campus training :** first on campus training on lac production for 5 days was conducted at ICAR-IINRG during 15 Oct 2019 to 19 Oct 2019, and second training on lac production for 5 days was conducted at ICAR-IINRG during 21 Oct 2019 to 25 Oct 2019 in which total 66 farmers are benefited from 3 villages.

**Off campus training:** It was conducted on Plantation and cultivation technology of Vegetables and Fruit Plants during 2019-20 at different villages of Khunti district, in which 1595 farmers are benefited from 22 villages. During Kharif season 2019 it was conducted on cultivation of Paddy, Groundnut, Soybean Green gram and Black gram in which 2059 farmers are benefited from 20 villages. Training on cultivation of Chickpea, Lentil and Mustard was conducted in 18 villages of Khunti district during Rabi season 2019 in which 1966 farmers are benefited. Total 5620 farmers are benefited through off campus training in Khunti district during 2019-20



## **D) Events/Programmes organized**

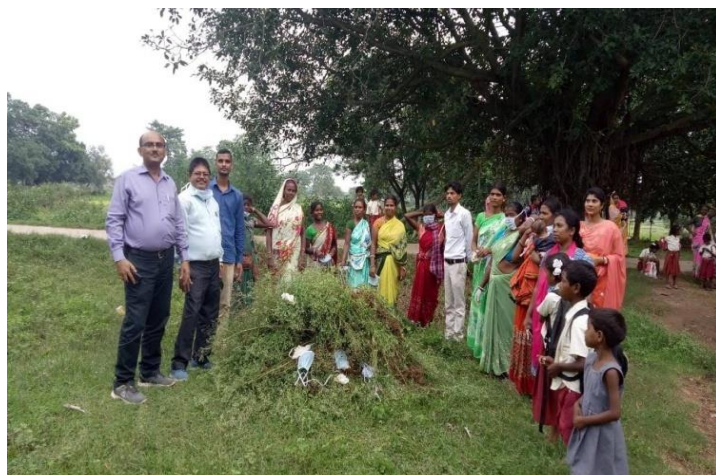
### **Parthenium awareness program.**

Conducted the “Parthenium awareness program” week (16-22 August 2019) in DAO Office Khunti district. Mr Ashok Samrat, District Agriculture Officer, Khunti was the chief guest in this programme. Fifty farmers, twenty ATM and BTM were participant in this programme. Mr Ashok Samrat, DAO Khunti and Dr. J. Ghosh, I/C KVK Head, jointly distributed Soil testing certificate among the farmers during this program, I/C Project Director of ATMA Mr Amresh Kumar was also present.

This programme was also conduct at different villages and Bagdu primary schools in Khunti district.



Parthenium awareness program at DAO office  
Khunti



Parthenium awareness program at Bagdu primary  
school

### **National Animal Disease Control Program (NADCP).**

A detailed program was planned by Hon'ble Prime Minister on 11-09-2019 in Mathura, Uttar Pradesh, on the occasion of the launch of National Animal Disease Control Program (NADCP) for FMD and Brucellosis (National Artificial Insemination Program (NAIP)). This programme (NADCP and NAIP) started in India, so that animal should be free from diseases in India and genetic upgradation of indigenous cows can be done.

National Animal Disease Control Programme for FMD & Brucellosis and National Artificial Insemination programme was organized by the Krishi Vigyan Kendra on 11th September 2019 at village- Tutikel, Panchayat- sode, block- Rania. Dr. Sanjay Kumar, Block Animal Husbandry Officer was chief guest in this program. Mr Akash Kumar, Coordinator, Torpa Rural Development

Society for Women (TRDS) and Mr Bindeshwar Singh, Social worker, and 120 farmers were present in this program.



Delivered lecture by Dr. Sanjay Kumar BHO, Raniya, Khunti



National Animal Disease Control Programme at Tutikel, block- Rania

## Vrihad Vriksha Ropan Abhiyan and Kisan Gosthi

Vrihad Vriksha Ropan Abhiyan was conducted on dated 18/09/2019 in Koynara- Villeg, Panchayat -Banie, Block- Rania, Khunti and in the premises of KVK in which 200 farmers participated in this programme. In this occasion different tree (teak, jamun, guava, gamhar, mahogany) were distributed by Krishi Vigyan Kendra, Khunti. Shri Ashok Smrat, District Agriculture Officer (D.A.O) was the chief guest in this programme. Sri Samrat told that farmers may earn more income from plantation of trees in larger area. Dr. J. Ghosh. Pr. Scientists ICAR-IINRG and I/C KVK, Khunti, described the importance of plantation, explained how the tree plant is helpful to us. He discussed in detail how the plantation affects our public life.



Plantation at KVK campus in presence of DAO Khunti & I/C head KVK.



Distribution of tree at KVK campus



## Swatchhta Hee Seva Karyakram

Krishi Vigyan Kendra Khunti organized program on “Sawatchhta Hee Seva” Pakhwada programme in different villages of Khunti district. This programme was conducted in villages & primary school on 01/10/2019 in Banietoil, Torpa. Forty five farmers and 30 students were participated in this awareness program. How to keep our home and our surroundings clean, and how the first use plastic is polluting our public life, was discussed in detail.

Mr. Rajan Chaudhari, SMS (Agromate), and Mr. Vidyapati Vidyaker (Technical Assistant) provide information about effect of plastic use on human life and environment. Mr Ashutosh Prabhat (Agromate Observer) explained the benefit of cleanliness in our life.



Swatchhta hee seva Karyakram at primary school (Amma panchayat)

## Fertilizer Application Awareness Program cum Farmer Training

Fertilizer Application Awareness Program was organized by KVK, Khunti (ICAR-IINRG) on 22 Oct 2019 at ICAR-IINRG campus. In this programme 150 farmer from different villages of Khunti district participated. Farmers viewed live inauguration of launching programme on ‘Fertilizer Application Awareness Program’ among farmers by Mr Narendra Singh Tomar, Honble Minister, Ministry of Agriculture and Farmers welfare, Government of India at NAAS complex, ICAR, New Delhi.

Director, ICAR-IINRG was the chief guest and Dr. D.K Shahi, Chief Scientist cum Chairman, S.S. & Agril. Chemistry, Birsa Agriculture University, Ranchi was expert. He delivered lecture on “Awareness program on right use of fertilizer”. Dr K K Sharma expressed views on use and importance of fertiliser in our life. Integrated soil health management should be done, and use of minimum fertilizer as much as possible. Dr. Nirmal Kumar, Pr. Scientist & Head Transfer Technology Division, ICAR-IINRG, Ranchi described the importance and use of fertilizer application. He told that the nutritional value of the food we eat is directly related to the health of the soil.



Delivered lecture by Dr. Nirmal Kumar in Fertilizer Application Awareness Program cum Farmer Training



Fertilizer Application Awareness Program cum Farmer Training at ICAR-IINRG Ranchi

## Gramin Krishi Mausam seva

Gramin Krishi Mausam Seva (GKMS) is the newly launched programme by IMD in Krishi Vigyan Kendra, Khunti. This programme was conducted at different villages like Banietoli, Kherkhie, Kotta, Baghia, Tangerkela, Torpa, Balalaung, etc. and at DAO (District Agriculture Office) in Khunti district. Mr. Rajan Chaudhari, Subject Matter Specialist (SMS) Agro meteorology delivered lecture on importance of weather forecast in farming among farmers. In this programme farmers were given necessary suggestions for weather-based farming and to prevent the loss of crops. Farmers awareness program was conducted at 12 different villages in which approx 3050 farmers were aware about maintenance of crops due to the changes in the weather as well as sowing time of crop and how and when to irrigate, weeding, spray the pesticides and fungicides.



Farmers awareness program at Baghiya (Raniya)



Farmers awareness program, GKMS at ICAR-IINRG, Ranchi



## **E) Participation of Personnel in Conferences /Seminars/ Workshop/ HRD, Meetings:**

### **Symposium/Workshop/HRD.**

- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum I/C Head, KVK, Khunti Participated in 'MDP on Leadership Development (a Pre-RMP programme)' held on June 11 -22, 2019 at NAARM, Hyderabad
- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum I/C Head, KVK, Khunti participated workshop on development of web page for KVK at Directorate of Extension Education, Birsa Agricultural University, Kanke, Ranchi.
- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum I/C Head, KVK, Khunti participated workshop on Development of Contingent Plan for Jharkhand on 19<sup>th</sup> July 2019 at Directorate of Extension Education, Birsa Agricultural University, Kanke, Ranchi.
- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum I/C Head, KVK, Khunti participated in Review meeting of QRT on 6-7 Aug 2019 and 3<sup>rd</sup> October 2019 at Directorate of Extension Education, Birsa Agricultural University, Kanke, Ranchi.
- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum Head, KVK, Khunti presented five years activities of KVK at Deoghar on 9-10 Jan 2020.

### **Meetings:**

- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum Head, KVK, Khunti attended Annual workshop at ATARI, Patna....
- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum I/C Head, KVK, Khunti participated in 33<sup>rd</sup> Extension Council Meeting on 16 October 2019 at Birsa Agricultural University, Kanke, Ranchi.
- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum Head, KVK, Khunti Attend the Training on PFMS for KVKs at Birsa Agriculture University.
- Dr. J Ghosh, Pr. Sci. ICAR-IINRG, cum Head, KVK, Khunti attended meeting at District Agriculture Officer office, Khunti.

## **F) Publications:**

- राजन चौधरी, राजकुमार योगी एवं निर्मल कुमार. बदलती जलवायु का मुख्य खाद्ययान फसलों पर प्रभाव, भाकृअनुप- भारतीय प्राकृतिक राल एवं गोंद संस्थान, नमकुम, राँची. लाक्षा 2019 pp 52-54.
- राजन चौधरी, निर्मल कुमार एवं राजकुमार योगी. मौसम आधारित सब्जियों की खेती: वार्षिक कैलेंडर, भाकृअनुप- भारतीय प्राकृतिक राल एवं गोंद संस्थान, नमकुम, राँची. लाक्षा 2019 pp 61-65.

## G) Kisan Mela/ others:

ICAR-Indian Institute of Natural Resins and Gums (IINRG), Ranchi and Krishi Vigyan Kendra (KVK) Khunti jointly organized two days Kisan Mela-cum-Technology and Machinery Exhibition-2020 in association with National Bank for Agricultural and Rural Development (NABARD) during 13-14<sup>th</sup> February, 2020 at Mela Gound, ICAR-Indian Institute of Natural Resins and Gums (IINRG), Ranchi.

The *Mela* was inaugurated by Shri Alamgir Aalam, Hon'ble Minister, Rural Development Panchyati Raj and Parliamentary Work, Government of Jharkhand. Shri Badal Patralekh, Hon'ble Minister, Agriculture, Cooperatives, Animal Husbandry and Fisheries, Government of Jharkhand; Shri Sanjay Seth, Hon'ble Member of Parliament, Ranchi; Shri Rajesh Kachhap, Hon'ble Member of Legislative Assembly were the Guest of Honour on the occasion.

Dr Anjani Kumar, Director, ATARI, Zone IV, Patna emphasized on the district level efforts of Krishi Vigyan Kendra in promoting the commercial farm activities for doubling the farm income. He urged to the farmers to get the benefit of this event.

More than 3000 (2200 farmer from Ranchi, Khunti, Ramgarh, Bokaro, Gumla district + 500 exhibitors+ 300 others) farmers including lac growers, women farmers, entrepreneurs, rural youth and officials from the line departments participated in the *mela*.



**Stall of Krishi Vigyayn Kendra Khunti**



**SMS Agro meteorology providing information**



