

**Zonal Agri-News**  
(A Newsletter from ICAR-ATARI, Jabalpur)  
Vol.9. No.1 April - June, 2017

**Sh. Radhamohan Singh, Hon'ble Union Minister of Agriculture and Farmers' Welfare laid Foundation Stone of four KVKs of Odisha**

Sh. Radhamohan Singh, Hon'ble Union Minister of Agriculture and Farmers' Welfare, laid the foundation Stone of various infrastructures of KVKs Bolangir, Ganjam II, Mayurbhanj II and Puri of Orissa University of Agriculture and Technology on 1 April, 2017, at OUAT, Bhubaneswar. Sh. Dharmendra Pradhan, Hon'ble Union Minister of State, Independent Charge, Petroleum and Natural Gas, Sh. Ashok Chandra Panda, Minister, Tourism & Culture, Govt. of Odisha, Sh. Pradeep Maharathy, Minister, Agriculture & F.E., Fisheries & ARD, Govt. of Odisha, Dr. Prasanna Patasani, Hon'ble Member of Parliament, Bhubaneswar, Dr. Trilochan Mohapatra, Secretary, DARE & DG, ICAR, Sh. C. Raul, Secretary, ICAR, Sh. Manoj Ahuja, PS to Govt of Odisha, Agriculture Department, Prof. Surendranath Pasupalak, VC, OUAT, Dr. Anupam Mishra, Director, ICAR-ATARI, Jabalpur and other dignitaries also graced the occasion.

Sh. Radhamohan Singh highlighted the important achievements of Union Government like soil health management, effective water management, popularization of micro irrigation system and lauded the role of KVKs as a frontline extension institution at district level. He said that the overall improvement of the country can be ensured through improvement of farmers and villages. Sh. Dharmendra Pradhan, asked OUAT to initiate research on converting urban and agriculture waste to energy for which Gol is willing to fund about Rs.200 lakhs. He also emphasized on developing and strengthening agri-entrepreneurship among the youth.

In this ceremony, degree of Doctor of Science (*Honoris Causa*) was presented to Dr. Trilochan Mohapatra, Secretary, DARE & DG, ICAR for his lifetime contribution to the field of Agricultural Science. More than 150 farmers from different parts of the state, scientists, faculties and students of this University participated in the ceremony.

On this occasion a State Level Biodiversity Exhibition was inaugurated by Sh. Radhamohan Singh, in which 33 KVKs of Odisha participated to showcase the Agro-biodiversity existing in different parts of the state. More than 150 farmers from different parts of the state, scientists, faculties and students of this University participated in the ceremony.



## ICAR Secretary reviewed the functioning of Krishi Vigyan Kendras of Odisha

**17<sup>th</sup> April 2017, Bhubaneswar**

Shri Chhabilendra Roul, Additional Secy. (DARE) & Secy. (ICAR) reviewed the activities of 33 Krishi Vigyan Kendras of Odisha. In a special meeting convened at OUAT, Bhubaneswar Dr Anupam Mishra, Director, ATARI, Zone-IX highlighted the salient achievements and future thrust of KVKs in the state especially to strengthen KVKs as a knowledge hub at the district level. Speaking on the occasion, Prof. Surendranath Pasupalak, Vice-Chancellor, OUAT appreciated the support of ICAR in strengthening the KVKs and pointed out the key activities in technology assessment through KVKs. Shri Roul in his final remark underlined the distinguished pattern of NARES operating in the country. He said the KVKs have to work in multi disciplinary approach in close collaboration with the line departments so as to achieve the desired growth rate as well as doubling the farmers' income. He suggested harmonizing the efforts of ICAR, SAU with that of line departments and focusing on activities to facilitate market linkage.

The programme was attended by Sh. Hariballav Mishra, Director Agriculture and Food Production, Odisha, Director, PME, Comptroller, OUAT, all the KVK Heads of Odisha and the senior officials of the state government.

A group meeting was also organised on the occasion under the chairmanship of Sri Rangalal Jamunda, Chairman, State Food Commission, Odisha and Former Secretary, DAC, Ministry of Agriculture, GoI to develop a roadmap for nutritional security in the tribal areas of the state. Sh. Jamunda suggested the Krishi Vigyan Kendras of the state more specially those in malnutrition prone areas to be proactive and take special activities in a strategic way to address the issues. Dr. Anupam Mishra, Director, ATARI, Zone - IX clarified the importance of strategizing activities based on the existing cropping system, nutrition availability, requirement & gap along with developing separate strategy for different malnutrition groups. Prof. Surendranath Pasupalak, Vice-Chancellor, OUAT advised the KVKs to make a detail appraisal at the grass root before preparing a plan with appropriate scientific approach.



## International Yoga Day Organized at ICAR-ATARI, Zone IX Jabalpur

**June 21, Jabalpur:** International Yoga Day organized at ICAR-ATARI, Zone IX Jabalpur in the guidance of Yoga Guru Dr. R.K. Nema, Dean Collage of Engineering, JNKVV Jabalpur and direction of Dr. S.R.K.Singh, Principal Scientist, ATARI, Jabalpur. All the staffs have participated and benefitted by the Yoga Session on this auspicious day following the international protocol of *loosening body, asanas and pranayams* as provided by the Yoga Guru.

The programme was started with the prayer and ended with the commitment of the “*Sarve Bhavantu Sukhinah*” so that peace and harmony could be brought not only among the citizens in India but in the whole world which is major goal of this Yoga day.

Participants felt warm and energetic after completion of the Yoga session and promised to practice the session whole year not just on the day. Total 20 staffs from ATARI, Jabalpur participated including Sh. Sunil Gupta, AAO, Sh. A.K.Bhowal, PS to Director, Sh. R.K.Soni, Smt. Deepti Dubey, Mrs. Neha Pandey, Miss preeti Tiwari, Mr. Anand Shukla and Akshay Jain.



## Developing a Road Map for Nutritional Security in the Tribal Areas of Odisha

A group meeting was also organised at OUAT on 17.04.2017 under the chairmanship of Shri Rangalal Jamunda, Chairman, State Food Commission, Odisha and Former Secretary, DAC, Ministry of Agriculture, GoI to develop a roadmap for nutritional security in the tribal areas of

the state. Shri Jamunda suggested the Krishi Vigyan Kendras of the state more specially those in malnutrition prone areas to be proactive and take special activities in a strategic way to address the issues. He said, the scientific approach must take in to consideration the traditional food habit, existing food availability and converge the efforts of GO and NGOs. All the seven participating KVKs made presentations on the present set of activities and future strategy to address malnutrition in respective districts. Dr. Anupam Mishra, Director, ATARI, Zone-IX clarified the importance of strategizing activities based on the existing cropping system, nutrition availability, requirement & gap along with developing separate strategy for different malnutrition groups. He insisted on use of ICT, development of standard recipe and nutritional garden planning. Prof. Surendranath Pasupalak, Vice-Chancellor, OUAT advised the KVKs to make a detail appraisal at the grass root before preparing a plan with appropriate scientific approach.

## **National Workshop on Empowering Farmers in Tribal Areas**

**7<sup>th</sup> June 2017, New Delhi**

Shri Radha Mohan Singh, Union Minister of Agriculture and Farmers Welfare inaugurated a two-day “National Workshop on Empowering Farmers of Tribal Areas” (7 -8 June 2017) here today. The workshop is organized by Agricultural Extension Division, ICAR.

Shri Singh, in his address, emphasized that the KVKs should align their activities keeping in view farmers’ needs and priorities of Government like, increasing the income of farmers, soil health management, production of oilseeds and pulsed, etc. during his address. He exhorted the KVK scientists to work with dedicated approach. He lauded the KVKs for demonstrating the production potentials of pulses and oilseeds through Cluster Frontline Demonstrations. He urged the KVKs to take advantage of digitization process and upload all the activities done by KVKs and other information of farmers’ use on KVK Portal. He assured the KVK system of full support from Government of India in developing the facilities and infrastructure necessary for carrying out the mandated activities.

Dr. Trilochan Mohapatra, Secretary (DARE) & Director General (ICAR); Dr. Gajanan Dange, President, YOJAK, Pune; Dr. A.K.Singh, Deputy Director General (Agricultural Extension); and Dr. V. P. Chahal, ADG (Agril. Extension) also graced the occasion.

The major focus areas for deliberations during the two days workshop include diversification, income generation, resource and bio-diversity conservation, value addition and institution building during four technical sessions viz. Technological Interventions in Tribal Areas, Experiences of KVKs in empowering farmers, Sharing Experiences of farmers and Panel Discussion on Future Road Map for Empowering Farmers.

The workshop is being attended by more than 250 participants including special invitees representing different social organizations; senior officers of ICAR; Vice Chancellors and Directors of selected State Agricultural Universities; Directors and scientists of selected ICAR Institutes; Senior Scientists and Heads / Subject Matter Specialists of 125 KVKs of Tribal Areas; and selected farmers from Tribal areas from different parts of the country.

An exhibition on different products and genetic materials from tribal areas has also been organized during the workshop.



## **Nutrition Sensitive Agriculture Workshop inaugurated at Umiam, Shillong**

Two days National Seminar on Nutrition Sensitive Agriculture at ICAR Research Complex, Barapani, Shillong was organised at 23-24 June, 2017. Hon'ble Governor of Nagaland and Arunachal Pradesh Sh. P. B. Acharya in his inaugural address highlighted the biodiversity and cultural diversity in the north eastern region of India. Hon'ble Governor of Meghalaya and Assam Sh. Banwarilal Purohit delivered presidential address in the seminar focused on importance of agriculture for nutrition, importance of coarse cereals in diet etc. Smt. Archana Chitnis, Minister of Women and Child Development, Govt. of Madhya Pradesh elaborated on various programmes of government of Madhya Pradesh in fighting malnutrition and making 313 villages in nutrition smart in the state. Dr. Vandana Shiva noted environmentalist delivered a keynote address of the workshop. Smt Ramshila Sahoo, Minister of WCD, Chhattisgarh, Sh. M. Kandasamy, Minister of Welfare Puduchery, Sh. Atul Jain, General Secretary, Deen Dayal Research Institute, Delhi, Dr. K. M. Bujarbaruah, VC, Assam Agriculture University, Dr. S. V. Nagchan, Director, ICAR RC NEH, Dr. Anupam Mishra, Director, ICAR-ATARI, Jabalpur, Dr. B.C. Deka, Director, ICAR-ATARI, Umiam, Dr. A. K. Tripathi, Director, ICAR-ATARI, Guwahati, Directors of ICAR Institutes, eminent experts from reputed organizations across the country working in the field of agriculture, Nutrition, Health, higher officials from state government, participants from KVKs, farmers participated in the programme.

The book "*Kuposhan Unmulan hetu Poshan Prabandhan Margardashika*" published by ICAR-ATARI, Jabalpur was released during the inaugural session.



## Cash study : Minor millets producer SHG Become A Company

Name of company- Bastar KPCL company

Name of the president: Chaitu Ram Podiyam

No. farmers in company: 200

Block covered: 04

Address: Village- Badekilepal, Block- Bastanar, District Bastar (CG).

### **Innovation extension approach:**

Farmers of Bastar is not only producing minor millets, red rice, scented rice but also involve in value addition of these agricultural commodities with the intervention of the Krishi Vigyan Kendra, Bastar. Krishi Vigyan Kendra approached those farmers who are producing minor millets like *Ragi*, *Kodo*, *Kutki*, and scented rice, red rice and sell out it without processing to middle men's in very low price. After that, KVK assess the scope and potential of value addition of these existing agricultural produce with set of objectives, i.e. to enhance the value of agricultural commodities of the farmers, livelihood generation to increase the farmer's annual income. With respect to these objectives KVK, Bastar conducted the various OFT, FLD and skill development training programmes on processing, value addition and market linkage at local, district and state levels.

### **Adoption of the technology and benefit to the farmer:**

Inspired by the easy method of these processing and value addition technology farmers gained good value and price of their produces and being exposed to extension intervention made by KVK. Earlier in year 2013-14 Farmers started processing and value addition of their produce in small scale under SHG with the technical guidance of KVK and ensured double or more prices of their value added products. After intervention of NRLM/SRLM in the district farmers of the group/SHG's united together with other producer groups/SHG's and formed a company called "**Bastar KPCL company**" and empowered with technical knowhow and processing equipments with the help of various district departments and central/state sponsored schemes like NAIP,

TSP, DMFT etc. Where now around 200 farmers are members from Darbha, Tokapal, Bastanar and Lohandiguda Blocks of Bastar district. Among 200 farmers, 140 farmers belong to ST and 60 farmers belong to OBC community. These farmers use their own farm produce and also collect raw material of different agricultural commodities from different villages of district from other farmers, as per demand and requirement and do processing and value addition through different processing machine provided by different scheme of the KVK, Bastar, Shahid Gundadthur College of Agriculture and Research Station and Department of Agriculture. Earlier farmer were getting very low price of their produce before intervention of the processing and value addition technology now they are getting 2-3 times more price after adoption of the this technology and intervention of KVK. At present minor millet- *Ragi, Kodo, Kutki* and Red rice, Scented rice are using for processing purpose and composite flour, Ragi malt powder are producing as value added product. Selling of these different products is done in retail and whole sole mode with the help of different market link of the Bastar district.

#### **Farmers reaction and feedback:**

As farmers/members of the Bastar KPCL Producer Company is getting more value or price of the different agricultural commodities with successfully production of processed and value added agricultural product, filling happy and satisfied with this processing and value addition technology. Now they are extending their production capacity by increasing investment in this business with improvement in marketing strategy.

#### **Extent of diffusion effect of the newly adopted technology:**

The net profit in production of processed and value added products has attracted the other farmers, farmers group, farm women, and SHG of the district. KVK Bastar also helps to facilitate the other attracted farmers, SHG for the enhancing value added products.

#### **Follow-up-action:**

KVK, Bastar has documented the success and has developed plan to promote this technology. KVK has planned for further expansion of technology in Bastar. Processed and value added commodity production model is being replicating into the different operational villages of KVK for livelihood improvement under micro enterprises.

#### **Economics of the intervention:**

Sr. No	Before KVK intervention			After KVK intervention		
	Un-processed added Commodity	Demand/ Q/Year	Price/Kg	Processed/ value added Commodity	Demand/ Q/Year	Price/Kg
01	Kodo	03	18.00	Kodo Rice	144	80.00
02	Kutki	02	20.00	Kutki Rice	120	70.00
03	Red Rice	02	55.00	Red Rice	96	80.00
04	Scented Rice	03	55.00	Scented Rice	120	80.00
05	Malt	00	00	Malt	04	110.00
06	Composite flour (Ragi based)	01	23.00	Multi-grain flour (Ragi based)	04	55.00



**Demonstration of Improved Processing Technology for Value Addition of Finger Millet (Ragi) into Multigrain Flour**



### **Cluster Demonstration on Oilseeds Kharif 2017-18**

Cluster Demonstration on Oilseeds conducted in 47 KVKs under ATARI, Jabalpur in Kharif Season. In which 3947 demonstration conducted in 1752 ha area. The major oilseed crops which is covered under rabi season are Soybean, Niger, Sesamum and Groundnut. In Chhattisgarh under Groundnut crop 100 ha area covered where as 270 ha area covered by Niger , 85 ha area demonstrated in Sesame crop and in Soybean 115 ha area covered. In Madhya Pradesh 1015 ha area covered under Soybean where as 99 ha area covered by Seesame crop, 138 ha area covered by Niger and 30 ha area covered by Groundnut. All the demonstrations done based on GPS based farmer selection, soil test based fertilizer application, IPM and IDM. Major sowing methods adopted are Line sowing, Broad bed, Dibbling, Ridge & Furrow are adopted.



## Cluster Demonstrations on Pulses Kharif 2017-18

The Department of Agriculture Co-operation and farmers welfare, Ministry of Agriculture and farmers welfare Govt. of India sanctioned a project on “Cluster Frontline Demonstration on pulses during 2017-18” under NFSM with the total outlay of Rs. 3.66 crores to demonstrate the frontier technologies of major pulses crop namely Blackgram, Greengram, Horsegram and Pigeonpea. During Kharif 2017-18 demonstrations have been conducted 49 KVKs in area of 1816.20 ha through 4101 demonstrations. Out of these coverage area in Blackgram is 710.0 ha through 1524 demonstrations, Greengram 130.60 ha through 331 demonstrations, Horsegram 80 ha through 124 demonstrations, and Pigeonpea 895.60 ha through 2122 demonstrations. The major technological intervention includes seed treatment, GPS based soil testing, improved varieties, soil test based fertilizer application, pre emergence of application of herbicides, improved method of sowing etc.



## KMA Activities

Around two million farmers were covered through mobile advisories by 72 KVKs through 818 messages comprising the subjects of crop, livestock, marketing, awareness etc. in the Zone IX during the quarter April to June 2017. All KVKs under this directorate are now using farmer portal for sending the messages.

No. of Calls	No. of farmers Covered	No. of Messages (Text)	Type of messages					
			Crop	Livestock	Weather	Marketing	Awareness	Other enterprise
10557	1579781	818	448	85	80	20	143	42

### Award Received by Farmers

Five farmers of Krishi Vigyan Kendra, Kawardha Received Krishi Samridhi Award on 24.06.2017 at IGKV Raipur by Honble Agriculture Minister Chhattisgarh.



### KVKs in Agricultural Technology Application Research Institute, Zone IX, Jabalpur

Agricultural Technology Application Research Institute, Zone IX, Jabalpur monitors activities of 72 KVKs in the two states namely Madhya Pradesh and Chhattisgarh.

#### KVKs across the two state in the Zone IX

State	No of Districts	No. of of KVKs under					Total
		SAU	VU	CU	NGO	ICAR	
Chhattisgarh	27	23	01	0	0	0	24
Madhya Pradesh	51	39	0	01	07	01	48
<b>Total</b>	<b>78</b>	<b>62</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>1</b>	<b>72</b>

SAU - State Agricultural University; VU- Veterinary University, CU- Central University, NGO - Non-Governmental Organization; ICAR - Indian Council of Agricultural Research.

## Directors Desk:

**Dear Colleagues,**

*KVKs under this directorate are working hard to facilitate the farmers with bleeding-edge knowledge and cutting-edge agro-technologies, providing need-based vocational training to rural youth, farmers and farm women engaged in agriculture and allied activities in three states of Madhya Pradesh and Chhattisgarh. In fact, KVKs are guiding farmers in proper decision making and technological application through group approach in convergence with the available developmental agencies in systematic manner.*



*Sh. Radhamohan Singh, Hon'ble Union Minister of Agriculture and Farmers' Welfare, laid the foundation Stone of various infrastructures of KVKs Bolangir, Ganjam II, Mayurbhanj II and Puri of Orissa University of Agriculture and Technology at OUAT, Bhubaneswar. Sh. Dharmendra Pradhan, Hon'ble Union Minister of State, Independent Charge, Petroleum and Natural Gas, Sh. Ashok Chandra Panda, Minister, Tourism & Culture, Govt. of Odisha, Sh. Pradeep Maharathy, Minister, Agriculture & F.E., Fisheries & ARD, Govt. of Odisha, Dr. Prasanna Patasani, Hon'ble Member of Parliament, Bhubaneswar, Dr. Trilochan Mohapatra, Secretary, DARE & DG, ICAR, Sh. C. Raul, Secretary, ICAR, Sh. Manoj Ahuja, PS to Govt of Odisha, Agriculture Department, Prof. Surendranath Pasupalak, VC, OUAT, Dr. Anupam Mishra, Director, ICAR-ATARI, Jabalpur and other dignitaries also graced the occasion. Shri Chhabilendra Roul, Additional Secy. (DARE) & Secy. (ICAR) reviewed the activities of 33 Krishi Vigyan Kendras of Odisha. In a special meeting convened at OUAT, Bhubaneswar Dr Anupam Mishra, Director, ATARI, Zone-IX highlighted the salient achievements and future thrust of KVKs in the state especially to strengthen KVKs as a knowledge hub at the district level. Developing a Road Map for Nutritional Security in the Tribal Areas of Odisha organised under the chairmanship of Shri Rangalal Jamunda, Chairman, State Food Commission, Odisha and Former Secretary, DAC, Ministry of Agriculture, GoI to develop a roadmap for nutritional security in the tribal areas of the state. National Workshop on Empowering Farmers in Tribal Areas inaugurated by Shri Radha Mohan Singh, Union Minister of Agriculture and Farmers Welfare "National Workshop on Empowering Farmers of Tribal Areas". The workshop is organized by Agricultural Extension Division, ICAR. Dr. Trilochan Mohapatra, Secretary (DARE) & Director General (ICAR); Dr. Gajanan Dange, President, YOJAK, Pune; Dr. A.K.Singh, Deputy Director General (Agricultural Extension); and Dr. V. P. Chahal, ADG (Agril. Extension) also graced the occasion. Nutrition Sensitive Agriculture Workshop inaugurated at Umiam, Shillong was organised National Seminar on Nutrition Sensitive Agriculture at ICAR Research Complex, Barapani Hon'ble Governor of Nagaland and Arunachal Pradesh Sh. P. B. Acharya in his inaugural address highlighted the biodiversity and cultural diversity in the north eastern region of India. Hon'ble Governor of Meghalaya and*

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*I sincerely thank the editorial team for their efforts in bringing out this issue of Newsletter. My word of appreciation for Programme Coordinators and staff of KVKs in Zone VII for their tremendous efforts and initiatives taken for better performance and serving farming community efficiently through mandated activities of KVKs.*

**(Anupam Mishra)**

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