



PDKV News

Quarterly Newsletter of

Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola-444104 (M.S.)

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April to June, 2018

From the Vice-Chancellor's Desk..



Dr. PDKV has its jurisdiction spread over 11 districts of Vidarbha characterized mainly by rainfed agriculture. The major crops grown in the region are cotton, soybean, pigeonpea, sorghum, paddy in *kharif* and wheat, chickpea, safflower in *rabi*. It has been experienced that almost every year brings different challenges for the farmers and inspite of all odds, our Vidarbha farmers are battling their way out to harvest better yields. We hope this year will be no different and with the expectation of timely monsoon this year, all are very well prepared for the ensuing *kharif* season.

The University has given 1376 technologies till date and released 169 varieties of different crops for the benefit of farmers. Thus, the selection of quality seeds and adoption of other PDKV technologies, which we are recommending through different programme, will definitely help the farmers. Amongst different technologies, seed treatment is the foremost important and major practice that should

invariably be followed in almost every crop by the farmers.

We have to make sure that the succeeding *kharif* season will be managed properly to achieve better productivity through protecting the crops from the glitches faced during last couple of years. We are aware that the cotton growers of Vidarbha were in trouble last year due to pink bollworm menace. For the management of this pest, a special policy have been formulated by the State Government with the recommendations from State Agricultural Universities of Maharashtra which included awareness campaign, avoiding pre-monsoon sowing so as to check the suicidal population of pink bollworm which will definitely help to reduce the PBW incidence. Inspite of all this, the farmers will have to take care by adopting measures like frequent monitoring of the pest through use of pheromone traps, spraying NSE, use of *Trichocards* and spraying chemicals at ETL etc.

Soybean is the second most important crop in western and central Vidarbha where in germination of seeds is the major issue besides regular incidence of rootrot, yellow vein mosaic and stemfly during last few years. It is recommended that the farmers should follow a simple germination test before sowing that we recommend and demonstrate time to time for every crop.

Similarly, the pigeonpea growers particularly from different villages of Amravati, Bhatkuli, Chandur bazar and Morshi *talukas* of Amravati district have faced the problem of drying in the month of December last year and reported around 70 to 80 % losses in mid-late varieties, particularly in rainfed condition.

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For such situation, it is recommended that the farmers should use early maturing varieties like ICPL-87, AKT 8811, BDN 716; apply protective irrigation through surface/sprinkle irrigation, create smoke in pigeonpea fields during cold period, apply foliar spray of nutrients as per the University recommendations.

Paddy is the major crop in eastern Vidarbha region which is cultivated in both rainfed and irrigated conditions. Amongst recent problems faced, brown plant hopper (BPH) has created menace among paddy growers recording moderate to heavy incidence last year. For the management of BPH, adoption of integrated pest management (IPM) is the best solution which includes use of tolerant varieties like PKV Ganesh, Sindewahi 2001, useful cultural practices such as timely planting (line transplanting), always of 30 cm after every 10 rows planting, mid season draining of rice fields on recording incidence, use recommended dose of fertilizers at respective growth stage, growing of marigold as bund crop in rice field to increase of natural enemy diversity and reduce plant hopper population, application of selective recommended insecticides such as imidacloprid 17.8 SL@ 2.2 ml or fipronil 5 SC @ 20 ml or thiamethoxam 25 WG @ 2g or triazophos 40 % EC (@ 20 ml/ in 10 litres of water.

The Dr. PDKV is working continuously for the benefit of farmers and accordingly, we are conducting programmes like *kharif krushi melawa* and *shivar pheri* every year demonstrating University technologies in our effort of sustaining the farming system. To say the least, University doors are always open for the farmers for their queries and for perceptive different technologies. Lastly, I hope we will be able to harvest better yields this year by following timely crop management practices in the ensuing *kharif* season.

Dr. Vilas M. Bhale

Vice Chancellor

58th Maharashtra Day was celebrated



58th Maharashtra Day was celebrated at Dr. PDKV, Akola on 1st May 2018. Dr. V. M. Bhale, Honorable Vice Chancellor of the University hoisted the National Flag. On this occasion a "Shramadan" programme was undertaken at the University campus. Higher officials, staff and students have enthusiastically participated in the programme.

Workshop on Management of Cotton Pink Bollworm



One day workshop organized on management of pink bollworm and scientific use of chemical insecticides jointly organized by Dean LAE and Department of Entomology on 09 June 2018. State Agriculture Minister of Maharashtra, Hon'ble Shri. Sadabhau Khot, Hon'ble Shri. Sachindra Pratap Singh, Commissioner (Agriculture), M. S. Pune, Vijaykumar Ingle, Director of Quality Control, Shri. Vijay Ghawate, Director of Extension and Training, Shri. Subhash Nagre, Joint Director of Agriculture Amravati Division, Dr. D. M. Mankar, Director of Extension Education, Dr. V. K. Kharche, Director of Research, Dr. M. B. Nagdeve, Dean (Agril. Engg.), Dr. P. R. Kadu, Registrar and Dr. D. B. Undirwade, Dean LAE were present.

Agriculture Minister said last year severe loss were caused by pink bollworm and poisoning causality of farmers due to insecticide spraying was incurred in Vidharbha region to avoid such incidence University has organized the workshop to create awareness among the extension workers and farmers. He urged to have collective efforts by government and non government organization for successful Kharif season, specially to protect Bt. Cotton from pink bollworm menace. He appreciated efforts and planning made by University for the management of pink bollworm for incoming season.

P C, SMS of KVKs, Principals of ATS and college under university were participated in this workshop.

Workshop on Bamboo Cultivation

Dr. PDKV will extend all possible support for infrastructure in Vidarbha to promote bamboo cultivation and enriching agro-rural development and increasing income of farmers, assured Dr. V. M. Bhale, Vice Chancellor.

Dr. Bhale was delivering his presidential speech at a workshop organized by Bamboo Society of India (BSI), Maharashtra in collaboration with PDKV at VTI Hall, College of Agriculture, Nagpur. The theme of the workshop was 'Bamboo Nursery,

Maithili Kowe, AGM, NABARD, experts including Salim Ahmed, Forester from Wadali Bamboo Nursery, Amravati, Arun Wandre from Kolhapur, Dr. Lal Singh,



Scientist from NEERI, Nagpur, Dr. N. D. Parlwar, A.D., Dr. Ilokar, Specialist in Agro-Forestry, and Manish Sharma, farmer from the city, guided the gathering.

KVK Action Plan Workshop



The role of the KVKs proves vital in the achievement of self sufficiency in rural areas, propounded Dr. V.M. Bhale, Vice-Chancellor. He was inaugurating the two-day action plan workshop on 19-20 April 2018 jointly organized by Directorate of Extension Education, Dr. PDKV and ATARI, Pune.

Dr. V. M. Bhale said efforts should initiate at the earliest to make farmers aware of the measures to be taken to prevent growth of pests. Low cost measures like installing worm traps will effectively control pink bollworm growth. The farmers will need to spend Rs.1500 per hectare to implement the measures suggested by the university. The university is committed to reduce loss due to worm attack this *kharif* season.

Dr. D. M. Mankar, Director of Extension Education, delivered introductory speech. All Programme coordinators and Subject Matter Specialists and Programme Assistants presented the action plans for the year 2018-19.

MoU with BAIF, Pune

Dr. PDKV, has signed Memorandum of Understanding with BAIF Development Research Foundation, Pune for transfer of technology and educational avenues in the area of sustainability of soils, livestock development, weather advisory services, crop diversification and skill development among the farmers in eleven district of Vidarbha, especially the tribal farmers



in remote areas of eastern and western Vidarbha. Dr. PDKV has great potential in research and education. Therefore, University has signed MoU to encompass the technologies developed by University at doorstep of farmers especially in remote areas. This joint collaboration will surely help to bridge the gap between percolation of knowledge at ground level. Similarly, the students will also get an opportunity to work in remote areas for their master's and doctoral research. This joint venture will be focusing on comprehensive trainings, workshops and site specific research for long term sustainability of farms and farmers in Vidarbha region.

MoU with Private Manufacturers



Dr. PDKV and 12 Private manufacturers have signed MoU for manufacturing post harvest Processing Machineries on 16th May 2018. Dr. M. B. Nagdeve, Dean, Faculty of Agril. Engg. explained various Post Harvest Processing Machineries developed at AICRP on PHET in his preamble Dr. V. M. Bhale, Hon'ble Vice Chancellor and Chairman of the function organized on this occasion, thanked all manufacturers for belief they have shown in Post Harvest Machineries developed by the University. He appealed all manufacturers to fabricate quality and more number of PH machines so that farmers will be benefited. He said that mechanisation is important for bringing revolution in agriculture sector. Dr. P. A. Borkar, Research Engineer and Head, APE for organizing such important event. Pankaj Industries, S. K. Engineering, A. K. Engineering, Sukhsa Industries, S. K. Edutech and Agro Industries Akola, Shrihari Welding Works, Chikhali, Sai Machinery and Dnyaneshwari Dal Mill, Ahmednagar, Welcome Industries Amravati, Agrosaw Industries

Ambala, Jagdamba Agro Industries and Vyankatesh Agro Engineering Jalna have signed MoU for manufacturing PKV Mini Dal Mill 3 hp, 5 hp, Integrated model, PKV Waste Fired Dryer, PKV, Screw Polisher, PKV Chilli Seed Extractor etc.

MoU with MITRA Project



The University has signed a MoU with MITRA project, Dr. Reddy Foundation, Hyderabad on 29th June, 2018. As per the MoU Dr. PDKV and MITRA project will work together for upliftment of farmers in 24 villages under Warora Block of Chandrapur District for socio-economic transformation. KVK, Sindewahi, Dist. Chandrapur on behalf of Dr. PDKV will organize trainings, demonstrations and field visits for the farmers to impart knowledge and guidance about agricultural technologies and to disseminate the university developed technologies through lead farmer among the farmers in selected villages with financial support of the project.

The MoU was signed in gracious presence of Dr. V. M. Bhale, Hon'ble Vice Chancellor. Dr. D. M. Mankar, Director of Extension Education, Dr. Kantilal, Manager and Dr. V.G. Nagdevte, PC, KVK Sindewahi.

Placement Cell



Campus drive for the students was held 23rd April, 2018 by Rallies India Ltd. In all 37 students Interview and 10 were shortlisted through video conferencing.

G.H. Raisonni for the post of Asstt. and Associate professor was carried out on 25th June 2018. 19 students were shortlisted out of 42 in the placement drive.

World Yoga Day



People should make yoga a part of life to remain fit and healthy, appealed Hon'ble Shri. Sanjay Dhotre, MP, at the World Yoga Day. The programme was held at the University Convocation Hall. Dr. V. M. Bhale, Hon'ble Vice Chancellor, Prof. Sanjay Khadse, SDO, Smt. Sandhya Waghode, ZP Chairperson, Shri. Gowardhan Sharma, MLA, Shri. Vijay Lokhande, Tahsildar, Shri. Asaram Jadhav District Sport Officer, and Harihar Jirafe Nehru Yuva Kendra Coordinator were present on the occasion.

PDKV Varieties & Technologies Released in Joint Agresco

42nd Joint Agresco was held at Dr. Balasaheb Sawant Kokan Krishi Vidyapeeth, Dapoli Dist. Ratnagiri during 24th to 26th May 2018. In this meeting various crop varieties, implements and research recommendations for the benefit of farmers were approved. The soybean variety Yellow Gold AMS 1001 with higher yield potential, maturing in 97 days and resistant to charcoal rot has been released. The Paddy variety PDKV Tilak high yielding having fine size grain demanded by the farmers of eastern vidarbha zone is released.

In horticultural crops PDKV Gold variety of Gladiolus is also released. Five implements were released which include PDKV Small Tractor operated seed ferti drill cum inter row cultivator, PDKV Small tractor operated crop residue disintegrator machine, PDKV power cutter, PDKV rotary Onion grader and PDKV Jamun pulp extractor machine. Similarly 23 research recommendations of various technologies in different crops were released in this Joint Agresco. Hon'ble Vice-Chancellor congratulated the Director of Research and all the Scientists for their achievement and emphasised that efforts should be made to transfer the new technologies to the farmers fields.

PDKV Pragati of Okra and PDKV Hirkani of Chilli recommended

The vegetable varieties namely PDKV-Pragati and PDKV-Hirkani of Okra and Chilli respectively, was released during the Joint AGRESKO held at VNMKV, Parbhani during 29 to 31 May, 2017. The varieties having following important salient features were also admitted and proceed for further clearance through State Varietal Release Sub-committee held at Mantralaya on dated 15/06/2018.

Important features of Okra variety PDKV-PRAGATI are as below:

- Proposed variety has at par resistant with Parbhani Kranti and Arka Anamika for Okra Yellow Vein Mosaic Virus.
- Proposed variety has High Fruit Yielding Potential
- Proposed variety has maximum number of fruiting nodes per plant.
- The overall per-cent increase of fruit yield in multi-location trials was 27.05% and 25.56 % over Akola Bahar and Parbhani Kranti respectively.
- It has increased fruit yield over check Arka Anamika (26.14%) and Pusa A-4 (26.58%).
- The flower of the proposed variety has the character of One sided red spot at the base of petals (Inner side).



Chilli variety, PDKV-HIRKANI (AKC-406)

- Proposed variety has Dark Green fruit colour at green stage.
- The fruits of proposed variety turns Dark red coloured at ripe stage.
- Increased red ripe chilli yield over check LCA- 206 (36.80%) & Jayanti (14.72%).
- Moderate capsaicin content (330 mg/100 gm).
- Good colour value (39040 CU) over check Jayanti (33550 CU).
- Moderately tolerant to pest and diseases.



PDKV Seed Day-2018



ICAR- Seed Project has initiated an innovative activity "PDKV seed day" in the jurisdiction of Dr. Panjabrao Deshmukh Krishi Vidyapeeth under the able guidance of Dr. V. M. Bhale, Honorable Vice Chancellor of the University. "PDKV seed day-2018" organized in Eastern Vidarbha Zone was very meticulously planned by Dr. V. K. Kharche, Director of Research and held at ARS, Sakoli, ARS, Navegaon Bandh and ARS, Sindewahi on 4th and 5th June, 2018. The programme was chaired by Dr. D. M. Mankar, Director of Extension Education, and Dr. S. P. Lokhande, SAO Bhandara has co-chaired the programme at Sakoli. Sufficiently good response was received from the farmers. They have attended the programme and purchased the seed of paddy varieties PKV HMT, SYE 2001, Sakoli 9, PKV Kisan and other crop varieties like PDKV Tara of Pigeon pea. In Eastern Vidarbha Zone total 38.07 qt. seed has been sold during "PDKV seed day-2018".

PHET Exhibition Hall Inaugurated



AICRP on Post Harvest Engineering & Technology, Dr. PDKV, Akola has established PHET Exhibition Hall in which all the post harvest processing machineries developed by the university are exhibited. It was inaugurated at the hands of Dr. R. K. Gupta, Director, CIPHET, Ludhiana on 30th June 2018. He mentioned that bunch of various post harvest processing machineries will serve as a bank of information for every farmers, students,

researchers, women's savings groups.

On that occasion Dr. V. K. Kharche, Director of Research, Dr. D. M. Mankar, Director, Extension Education, Dr. M.B. Nagdeve, Dean, Engg., Dr. P. A. Borkar, Project Engg. and faculty of PHET were present.

Pre monsoon Kharif Melawa



As per forecast, the district will receive good rains during this monsoon. Hence, the farmers should plan well to get good yield in kharif season, asserted Dr. V. M. Bhale, Vice Chancellor, while addressing the pre-monsoon kharif at University headquarter, Dr. V. K. Kharche, Director Research, Dr. D. M. Mankar, Director Extension Education, Dr. M. B. Nagdeve, Dean Agriculture Engineering, Shri Rajendra Nikam, DSAO were present on the occasion.

Dr. D. M. Mankar delivered the introductory speech while DSAO, Rajendra Nikam briefed about various schemes. The University scientist was given the deliberation on the important issues regarding the kharif season crops. About 600-650 farmers of 11 district of Vidarbha region and scientists of the university were present on this important occasion.

Digital weather information board unveiled



A Digital Display board of weather condition was installed at the main entrance of Dr. PDKV. The board was unveiled at the hands of Hon'ble Vice-Chancellor Dr. V. M. Bhale.

The Department of Agriculture Meteorology and Agronomy have jointly installed the panel to display weather report daily. The new digital board will display temperature, humidity, rainfall and weather variations of the day. On this occasion University officers were present.

Agriculture Research Committee's meet on Kharif



Kharif-2018 the 68th meeting of the East Vidhrbha Divisional Agricultural research and extension advisory committee was held at ZARS, Sindewahi under the chairmanship of Dr. V. M. Bhale, Hon'ble Vice Chancellor.

Director of Extension Education, Director of Research, Assistant Director (Agriculture) Nagpur Division, Registrar, Dean Horticulture & Head of Departments were present on the dais.

DSAO and ATMA of Chandrapur, Gadchiroli, Bhandara, Gondia and Nagpur presented reports on regarding work done by their divisions and Kharif planning. Department chiefs, Senior Research Scientists and research centre chiefs were largely presented on the occasion.

Extension Education Council Meeting



26th Extension Education Council meeting was organized by Directorate of Extension Education on 29th May 2018 at Shetkari Sadan. Meeting was chaired by Dr. V. M. Bhale, Vice chancellor, Dr. V. K. Kharche, Director of Research, Dr. D. M. Manakar, Director of Extension Edu. Dr. Rajendra Nikam DSAO, Akola were present on dias. Newly appointed progressive farmers

member of EEC Ku. Nasri Chavan and Shri. Vasudevrao Jayale welcome by Hon'ble Vice- chancellor Dr. V. M. Bhale. During the first session of the meeting, the action taken report of the last EEC, significant achievement of different extension activities conducted in the 2017-18 was presented in the house. All these activities conducted by the Directorate Ext. Edu. was appreciated by the house.

Scientific Advisory Committee Meetings



As per mandate, Scientific Advisory Committee (SAC) is constituted at each KVK for assessing, reviewing and guiding their programmes and progress. The member of this committee comprises a cross section of scientific, farming community, representatives of both government and non government organizations, who are directly involved in the processes of Agricultural training, production and development. The SAC of Yavatmal and Selsura (Wardha), were arranged successfully during 3rd & 4th April, 2018 under the chairmanship of Dr. V. M. Bhale, Vice Chancellor.

Jamun & Ranbhaji Festival at KVK Gadchiroli



Dr. V.M. Bhale, Hon'ble Vice Chancellor has assured Gadchiroli people to make efforts for providing market to the jamun (black berries), forest vegetables and other forest produce found in the district.

The Jamun and Ranbhaji Festival organized jointly by KVK and ATMA at Gadchiroli. The festival was inaugurated at the hands of Smt. Yogita Bhandekar, Z.P. President. Ashok Chaudhari, Additional Collector & other dignitaries were prominently present.

Towards Water Prosperity



Dr. V. M. Bhale, Vice-Chancellor, since the day of joining exhibited his innovativeness, thoroughness, sincerity and work culture. Based on experience in the field of Agriculture Education, Research and Extension, he focused to work on principal of “Land to Lab” instead laboratory to land. Considering the scarcity of irrigation sources, research activities were restricted to available sources which were negligible. With the help of State Agriculture Department, Project Director, ATMA, Akola Municipal Corporation and National Highway Authority of India, (NHAI) the two major farms of University i.e Central Research Station (CRS) and Central Demonstration Farm (CDF) are now becoming water prosperous.

PDKV's Central Research Station (CRS) stretching over 1193.64 hectares and located adjacent to our main campus, is oldest farm dedicated to research and seed production activities of the University. Out of 522.56 hectares under cultivation, 80 per cent area has developed with the help of mechanization using BBF technique. Recently, with the help of NHAI the CRS has made available 4 big size (100 x 100 m width x 5 m depth) farm ponds.

PDKV's Central Demonstration Farm (CDF) located at Borgaonmanju (20 km from main campus), is the largest farm within the University distributed in 20 blocks covering 2031.83 hectares of land. The CDF recently provided path- breaking solutions to the



problems of protective irrigation sources. Various measures like land levelling along the canals, deepening of farm pond- cement plug and construction of new ponds, CCT via Govt. of Maharashtra's “Jalyuktshivarabhiyan”, which has enabled the financial support over Rs. 1.5 crore. Recently, with the collaboration of NHAI, four major ponds are constructed.

Creation of Water Resources at University Campus

CDF, Wani Rambhapur

Farm Pond

Rambhapur Block	180x100x5m	79.88 TCM
Anvi Block	270x140x5m	174.00 TCM
Borgaon Block	140x70x3m	26.64 TCM
Pailpada Block	90x60x5m	21.75 TCM

(Total Protected Irrigation 423.18 hectare)

Graded Bund : 850 hectare

Deepening and Widening of Nallah : 16 Km.

CRS, Akola

Farm Pond

Highway Block	100x100x5m	42.88 TCM
Shivani Block	145x65x5m	39.63 TCM
Gudadhi Block	100x100x5m	42.88 TCM
Shivar Block	100x100x5m	42.88 TCM
Horticulture	100x100x5m	42.88 TCM

(Total Protected Irrigation 100 hectare)

Total Water storage 513 TCM

Total Protected Irrigation 523 hectare

Printed Matter



From :

Director, Extension Education,

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To,