Satpuda Education Society's

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Krishi Vigyan Kendra, Buldana – I

NEWS LETTER (Annual)

A News Letter of Krishi Vigyan Kendra, Jalgaon Jamod,
Dist : Buldana (M.S.)

From the Desk of Chairman...

It gives me an immense pleasure to share this annual newsletter of Krishi Vigyan Kendra, Buldana-I for the year 2019-20 amongst the Readers, Farmers, Scientists and various Extension Functionaries working for farmers. KVKs under the aegis of Indian Council of Agricultural Research (ICAR) & Agricultural Universities aim to increase the Socio-economical, Experimental and Educational status of the farming community through their mandates. Through On Farm Trials, Frontline Demonstrations, Various trainings, Diagnostic visits and periodic exhibitions of advanced farm technologies suggested by ICAR, ATARI & SAUs, KVK Buldana-I followed the line of action throughout the year in Buldana district of Maharashtra. Due to continuity in work for farming community, rural youths and various agricultural extension functionaries throughout the year, some major achievements are bagged by team KVK in Year 2019-20 which are presented here in the form of Newsletter. I take this opportunity to congratulate team KVK and express best wishes for their future endeavour.

Hon. K.G. Ingle
Chairman, SES-KVK,Buldana - I

Training of Facilitator (ToF) on FFS Methodologies

KVK Buldana-I Organized five day's Orientation Training programme for 25 facilitators working under Project on Climate Resilient Agriculture (PoCRA), during 22-26 April, 2019. The main objective of this programme was to train the Farm Field School (FFS) facilitators about farm school methodologies. The programme was inaugurated on 22nd April, 2019 by Mr. Jayant Gaikwad, Dy. PD ATMA, Buldana in presence of Mr. Vikas Jadhao, Senior Scientist & Head, Mr. Anil Gabhane, SMS (PP), Mr. Sanjay Umale, SMS (Agro.) and Mr. S.A. Borde SMS (Ext). At the outset of the Programme, Mr. Jayant Gaikwad focused on the detailed information about role and responsibilities of the facilitator. Mr. Vikas Jadhao high lighted on the objectives of PoCRA project. During this five day's training, lectures on various topics were delivered by the expertise. Mr. Sanjay Umale, SMS (Agro.) delivered lectures on Farm layouts, importance of Soil Testing and interpretation of soil testing report, INM, use of Bio fertilizer, Climate resilient technology and AESA, Documentation of field day by FFS and Yield Estimation. Mr. Anil Gabhane, SMS (PP) delivered lectures on

Identification of Major Pests and Diseases and their life cycles, nature of damage in Cotton, Soybean and Pulses crops, Pink Bollworm Management in Cotton, ETL and IPM Technology and Hazards of Chemical Pesticides. Mr. Mahesh Jadhao explained the use of FFS app. Mr. S.A. Borde, SMS (Extn) delivered his lecture on Group Dynamics. During this program field visits were also conducted for AESA by making groups. Each group present

their AESA through charts. In concluding session, Mr. V. G. Jadhao, Head, KVK, Mr. P.E. Angait, SDAO, Khamgaon and Mr. Bharat Kasar, TAO, Jalgaon Jamod guided the trainees by sharing their practical experience followed by feedbacks from trainees about this five day's intensive training. The participants awarded with certificates by the auspicious hands of the guests.

Pre-Monsoon Krishi Mela at KVK

To interact with the farmers from jurisdiction on various crops related issues, KVK Buldana-I organized Pre-monsoon Krishi Mela on 25th May, 2019. The programme was inaugurated with the auspicious hands of Hon K.G. Ingle, Chairman, SES in presence of Mr. Vikas Jadhao, Head KVK. During this Programme, Mr. Vikas Jadhao

highlighted on different activities carried out by the KVK for farming community in 2018-19 and forthcoming activities to be undertaken in 2019-20. Mr. Sanjay Umale, SMS (Agro) has shared information on importance of soil & water testing, kharif planning, crop diversification and also briefed about importance & execution of organic farming.

Mr. Anil Gabhane, SMS (PP) guided the participants about identification of major pests and diseases, their life cycles and nature of damage in Cotton, Soybean and Pulses crops. He also briefed about Pink Boll Worm management in cotton, ETL and IPM technology and hazards of chemical pesticides.

In the chairman address, Mr. K.G. Ingle elaborate the importance of watershed management. He also gave emphasis on subsidiary businesses to agriculture. During open forum farmer raised their queries and various problems in farming practice which were answered by the KVK Scientists. About 250 farmer were present for this mela.

Animal Health Diagnostic and Vaccination Camp

KVK Buldana-I has organized animal health diagnosis and vaccination camp on 11th June, 2020 at KVK adopted village Dhanora Jangam of Nandura block. The camp was inaugurated with the auspicious hands of Mrs. Sunanda Wanare, Sarpanch, Dhanora & Mr. Vikas Jadhao, Head, KVK, Dr. V. S. Janotkar, SMS (Vet. Science), Dr. S. T. Bhople, LDO, Nandura, Dr. K. R. Padmane, ALDO, Dr. D. R. Harne, Dr. B. R. Kharate & Dr. S. S. Sathe, LSS were present for this camp. Dr. V. S. Janotkar expressed importance of vaccination about various diseases like FMD, HS, BQ etc. Total 128 animals were diagnosed and treated for pregnancy, infertility, deworming, castration & AI and 139 animals were vaccinated against HSBQ & FMD.

Participation in Agriculture Exhibition

KVK Buldana-I actively participated in five days State Level Agriculture Exhibition "Krushi Samruddhi Mahotsav" organized by Agriculture Development Council at Malkapur, Dist: Buldana during 15-19 June, 2019. KVK exhibited various advanced agricultural technologies viz. BBF planting methods, use of cotton slasher, PKV Mini Dal Mill, various crop varieties, drudgery reduction implements, improved Chula, animal feed & fodder management, Azolla cultivation. Method demonstration of soil sample collection and vegetable transplanter were also arranged for the farmers visiting exhibition. About 25000 farmers from jurisdiction were visited to this exhibition.

Scientific Advisory Committee Meeting (SAC)

Scientific Advisory Committee Meeting (SAC) of KVK was held on 23rd July, 2019 at KVK conference hall under the Chairmanship of Hon. K.G. Ingle, Chairman KVK. Meeting commands with welcome to the Chairman

of meeting. The SAC committee members Hon. Dr. D.M. Mankar, DEE, Dr. PDKV Akola, Mrs. R.V. Jagdale, AO, Jalgaon Jamod, Mr. R. S. Navkar, AO, P.S. Jalgaon Jamod, Mr. V.B. Pathare, DDM NABARD, Mr. Naikwadi, Dy. Commissioner, Fishery, Buldana, Mr. Fadke, Sericulture Development Officer, Buldana and progressive farmers & farm women with all KVK staff members were present for the meeting and were welcomed by Mr. Vikas Jadhao, Sr. Scientist & Head KVK.

Mr. Vikas Jadhao explained the objective of SAC meeting, compliance taken against the recommendations and suggestions given by all dignitaries in last SAC meeting. The details of activities that were performed during 2018-19 were also presented by KVK Head followed by presentation on action plan for current year 2019-20 in front of committee members for their valuable recommendations and suggestions. For effective functioning of KVK with advancement were discussed by SAC members during presentation. The meeting was followed by visit of the dignitaries to the KVK instructional farm and various demonstration units of KVK.

Jal Shakti Abhiyan (JSA)

In collaboration with State Agriculture department, KVK Buldana-I was conducted "Jal Shakti Abhiyan" during 27th July to 14th August, 2019 in two blocks viz. Jalgaon Jamod and Sangrampur of Buldana district. Under this abhiyan KVK has conducted 51 Nos. of Krushi Melawas in different villages of these two blocks. Main aim of this abhiyan is to create awareness about water conservation among farming community.

During these melawas, central team of JSA members visited to melawas held at Kajegaon of Jalgaon Jamod block on 5th August, 2019 & Sonala of Sangrampur

block on 6th August, 2019 and interacted with the participants. The team members Dr. Kochar, Incharge, JSA, Dr. Ajay Nema, Member of JSA team, Dr. Jagdish, Member of JSA team along with Dr. Narendra Naik, DSAO, Buldana, Dr. Shivaji Magar, TM, Jalgaon Jamod, Shri, Bharsakale, BDO, Jalgaon Jamod & Shri. Kasar, TAO, Jalgaon Jamod were visited to melawas.

For these programmes, Mr. V. G. Jadhao, Senior Scientist & Head KVK, Mr. A. T. Gabhane, Mr. S. A. Borde

& Mr. N. P. Talokar, Scientist, KVK were present to guide the participants about JSA. KVK Scientist briefed the farmers about current surface and ground water situation of the district. Furthermore they explained the "Jal Shakti Abhiyan" which is focusing on five major fields i.e. water conservation and rain harvesting, renovation of traditional and other water bodies, water recharge structures, mini watershed development at village level and intensive afforestation. All the farmers were urged for on spot conservation of water through soak pits and roof water harvesting on mass level and also gave them oath for judicious utilization of water for house hold and irrigation purpose. KVK organised drawing competition, essay competition for the students in continuation of JSA and felicitated Water Cup winning villages. In these 51 melawas, 1360 nos. of farmers, women, students and officials were participated at different locations.

Krishi Mela under JSA

KVK Buldana-I Organized grand Krishi Mela under "Jalshakti Abhiyan" for the farmers from two blocks (Jalgaon Jamod and Sangrampur) of Buldana district in collaboration with State Agriculture Department on 3rd September, 2019. Dr. Narendra Naik, DSAO, Buldana &

Dr. Swatitai Wakekar, Treasurer, SES was chief guest for the programme. Dr. Pandit Wasare, SMS (Agril. Engg.) KVK Jalna-I was invited as keynote speaker to guide the participants in said mela. Dr. Shivaji Magar, TM, Jalgaon Jamod, Shri, More, PS, Jalgaon Jamod, Shri. Kasar, TAO, Jalgaon Jamod & Shri. Gawai TAO, Sangrampur along with departmental extension functionaries were attended the mela with 400+ farmers & students. Women farmers were also participated in large nos. The mela was consisting of exhibition related to Abhiyan and felicitation of the school students participated in Drawing & Essay writing competition on Jalshakti Abhiyan. The villagers from 6 different villages of both blocks who have stood first in the "Water Cup" competition taken by "Pani Foundation" were also felicitated in said mela. The videos of success stories of different villages with their continuous efforts through self motivation were also presented & explained to the participants on this occasion. Printed leaflets were inaugurated & distributed in this programmes. A stall of display of hoardings to guide the farmers to get motivate through JSA was also erected during this mela.

Live webcast of Launching of "NADCP for FMD & Brucellosis" and "National Artificial Insemination Programme"

KVK Buldana-I arranged Live webcast of Launching of following programmes from Mathura (UP) at national level by Hon. Prime Minister on 11th September, 2019.

- National Animal Disease Control Programme (NADCP) for FMD & Brucellosis
- National Artificial Insemination Programme
- Pradhan Mantri -Kisan Samman Nidhi Yojna (PM-KISAN)

At the outset, Hon. PM inaugurated Pashu Arogya Mela and interacted with Veterinary Scientists across the country. Hon. PM gave thrust on complete eradication of FMD and Brucellosis and kick start of vaccination programme for making disease free animals. Hon, PM also give emphasis on genetically upgradation of indigenous animals through artificial insemination in guiding speech. For the live broadcasting of the programme and guiding the participants at KVK, Dr. Firke, Asst. Commissioner Vet. Polyclinic, Mr. V. G. Jadhao, Head, KVK, Mr. Anil Gabhane (SMS, PP), Dr. V. S. Janotkar (SMS, Vet.) Mr. Nitin Talokar (SMS, AE), Mr. Shashank Datey (SMS, Hort)., Dr. Kharate, LDO, Jalgaon Jamod, Dr. Talokar, LDO Extn. Jalgaon Jamod, Dr. Dhage, LDO, Bavanbir, Dr. Bhole, LDO, Malkapur were present along with scientist from KVK. About 164 farmers & officials were present for the programme. The programme was followed by organization of Pashu Aarogya Mela in KVK premises. About 48 animals were vaccinated against FMD and Brucellosis while 12 animals from nearby areas were called for artificial insemination.

To create awareness about "Swachhata hi Seva" Abhiyan among the participants, an oath on Swacchata was given to the participants by Mr. Sanjay Umale, SMS (Agro.). The programme was concluded with sanitation drive taken by KVK Staff and the farmers by cleaning of KVK premises.

Orientation programme on Rabi FFS for Facilitators (ToF)

KVK Buldana-I organised one day training on Rabi FFS for the facilitators (ToF) under PoCRA project on 18th November, 2019 at KVK with an aim to train the facilitators about Rabi crops technologies and farm field school. The programme was inaugurated by Mr Vikas Jadhao, Head, KVK Buldana-I.

Mr. Anil T. Gabhane, SMS (Plant Protection) highlighted the aims and objectives of the programme to the facilitators in his introductory remark. Mr. Vikas Jadhao, Head of KVK explained the importance of FFS, soil testing and interpretation of soil testing report. Mr Sanjay Umale, SMS (Agro.) guided the trainee about Climate Resilience technologies, seed treatment, bio-fertilizer and Integrated

nutrient management. In afternoon session, Mr Nitin Talokar SMS (Agri. Engg.) explained the advantages of use of BBF in sowing of various crops and appealed to promote BBF through FFS. Mr. Anil T. Gabhane briefed about IPM technologies and FFS documentaion. Mr. Shanshank Datey SMS (Hort.) guided about AESA Analysis and chart preparation. Mr. Mahesh Jadhao, FFS cordinator, focused on handling of mobile App Application. Mr Rajesh Bhatkar explained about facilitation skills and Group Dynamics. For this training programme, 18 facilitators were present. The programme was concluded with vote of thanks given by Mr. Sanjay Umale.

Front Line Demonstration on wheat

Wheat is the major food grain of India and staple food of millions of people which is cultivated in rabi season. The productivity of wheat crop is quit low in Buldana district as compared to other districts. Most of farmers grown wheat in

late season which is major cause of low productivity. To overcome this problem KVK demonstrated a new wheat variety PDKV- Sardar (AKAW4210-6)on 15 farmers field at village Kolad Tq-Sangrampur during rabi season 2019-20. At the outset KVK Conducted Training Programme of Selected FLD farmers on Improved cultivation of wheat. In this training Mr. S. M. Umale, SMS(Agro) gaves detail information about package of practices of wheat. Then Critical Inputs were distributed to the farmers by the hands of Dr. Swatitai Wakekar, Director of Host Institute and Mr. Vikas G. Jadhao Sr. Scientist & Head KVK on 21st Nov., 2019. Sowing of wheat crop was done by the farmers in last week of November to first week of December with recommended package of practices. Field day on wheat crop was conducted on 16th March, 2020 at Village Kolad, Dr. Swati Bharad, SRS (Wheat) Dr.PDKV, Akola and Mr. Vikas Jadhao, Sr. Scientist & Head KVK guided the farmers, Mr A.T.Gabhane SMS(PP), Mr S.A.Borde SMS(AE) and Mr.S.M.Umale, SMS(Agro) and about 68 farmers were present. Mr. Gopal Raut Progressive farmer shared their feedback about demonstrated wheat variety that it performs very well in late sowing season, resistant to rust and steam fly and gives higher yield than LOK-1

Performance of Demonstration

Technology	No of Demo	Yield (Q/ha)		Increase in Yield (%)	Cost of cultivation (Rs/ha)		Net Return Rs/ha)		CBR	
		Demo	Check		Demo	Check	Demo	Check	Demo	Check
Variety PDKV-Sardar	15	35.37	30.30	16.74	25750	25250	45006	35350	2.75	2.40

Result Shows that PDKV Sardar gives 16.7% more Yield than Lok-1 with BNR Rs.9656/ha

HRD Training for Extension Functionaries under CROPSAP

Crop Pest Surveillance and Advisory Project (CROPSAP) is a model for Pest surveillance and judicious implementation of Integrated Pest Management. Implementation of IPM through creating awareness among the farmers is salient feature of the CROPSAP. KVK Buldana-I organized Two Nos. of collaborative training programmes

for Agriculture department extension functionaries. The trainings were organized in collaboration with state agriculture department specially for Agriculture Officers, Mandal Agril. Officer, Supervisors and Agriculture Assistants in Kharif and Rabi season for the year 2019-20. The main objective of the trainings was to train the participant about pest

and diseases of major crops and their surveillance and safe use of pesticides. In kharif 2019, training organized on 5th July, 2019 in presence of Mr. Deepak Patel, SDAO, Khamgaon and Mr. Vikas Jadhao, Head, KVK Buldana-I. During the

programme, Mr. Deepak Patel highlighted on importance and aims of CROPSAP Project. Mr. Anil Gabhane, SMS (Plant Protection) guided the participants on identification of major pest and diseases, life cycles, nature of damage, various management practices and methods of surveliance. Mr. Mukash Surve provided the operative instruction on use of CROPSAP App. Mr Shanshank Datey, SMS (Horticulture) gave lecture on safe use of pesticides. Near about 60 participants were trained in this programme.

For Rabi season, training was organized on 9th December, 2019. In this training, Mr. Anil Gabhane SMS (Plant Protection) at orientation, provided information on pest and diseases surveillance in major Rabi crops and reporting formats and also focused on their management. Mr. Sanjay Umale, SMS (Agronomy) gave lecture on safe use of pesticides.

Awareness cum Training programmes on management of PBW

In year 2017-18, major out-break of Pink Boll Worm (PBW) in cotton crop was observed and heavy losses occurred during this year. Near about 70-80% infestation of PBW in cotton was recorded in Buldana district

For effective management of PBW in cotton, KVK, Buldana-I organized various awareness camps, trainings, field

visits, field demonstrations & diagnostic visits for the cotton grower farmers & extension functionaries during year 2019-20 with recommended practices by Dr. PDKV, Akola & under the guidance of ATARI, Pune in collaboration with State Agriculture Department. The PBW management Programmes were taken on and off campus. In these programmes, main focus was given on various PBW management strategies / technologies given by SAU like life cycle of PBW, Nature of damage, use of neem based pesticides, erection methodology for pheromone traps and various management practices.

Sr.No.	Particulars of the activities	No. of Village Covered	No. of Participants
1	Pink boll worm management workshop	02	160
2	Training for Extension Functionaries	03	215
3	Training for Farmers and Rural Youths	09	220
4	Demonstrations	07	85
5	On Farm Trials	02	14
6	Diagnostic visits	33	147
7	Field visits	40	270

FLD on Management of FAW in Maize

In Buldana district heavy incidences of Fall Army Worm (FAW) in maize was occured in 2018-19. To overcome this problem, KVK organized various on campus and off campus training programmes for maize grower and also

organized Front Line Demonstrations on farmers field. For effective management of FAW, technologies suggested by Ministry of Agriculture & Welfare, GOI, New Delhi on 6th May, 2019 & provided by Dr. PDKV, Akola was recommended to the farmers during these various trainings. The recommended technology was consist of "Erection of pheromone traps @ 5 traps/acre for monitoring of FAW, Seed treatment of Cyantraniliprole 19.8%+ Thaimethoxam 19.8 % @ 4ml per kg seed, spraying of Azadirachtin 1500PPM @ 50ml /10liter of water at 5% incidence followed by Clorantriniliprole 18.5% @ 3ml/10 liter at 10% incidence". The demonstrations were organized on 15 Nos. of farmer field covering 6.0 ha area in kharif 2019. Result revealed that this technology is very effective for management of FAW in maize and gives 23 % more yield with C:B Ratio of 1.58 as compared to local check. The obtained results from demonstration are illustrated in following table.

Parameter for observations	Demonstration plot	Local check
Avg. No .of affected plants/MRL	0.26	2.7
Avg.Cost of plant protection Rs/ha	6900/-	4200/-
Avg.Yield q/ha	55.75	47.55
B:C Ratio	1.58	1.34

Mahila Kisan Diwas Celebration

KVK Buldana-I celebrated "*Mahila Kisan Diwas*" on 15th October, 2019 at adopted village Dhanora of Nandura Tahsil. For this programme, Mr. Vikas Jadhao, Senior Scientist & Head, KVK., Mrs. Jyoti Bobde, Programme Assistant (Home Science) KVK, Mrs. Sunandatai Vanare, Sarpanch of Dhanora, Mrs. Mukta Sonone, Livelihood Co-ordinator, Mrs. Seema Jaware, CMRC with 80 farm women were present. At the outset in an introductory speech, Mrs. Jyoti Bobde explained the importance of celebration of this day. Mr. Vikas Jadhao emphasized on background of Mahila Kisan Diwas and gave thrust on involvement of farm women in routine activities of farming system. He also briefed about women health awareness and remedies such as raring of kitchen/nutritional garden in individual house premises. The programme was concluded with vote of thanks by Mrs. Seema Jaware.

World Food Day

Krishi Vigyan Kendra, Buldana-I organized "World Food Day" on 16th October, 2019 at Dhanora (Jangam) village of Nandura Block of jurisdiction. The programme theme was "A Zero Huger World by-2030 is Possible". The programme was inaugurated by Mrs. Wanare, Sarpanch of Dhanora Jangam. Mr. Vikas

Jadhao, Sr. Scientist & Head, KVK, Miss. Mukta Sonone livelihood coordinator MAVIM, CMRC Nandura, Mrs. Papaldkar & Mr. Bhanudas Wanare, progressive farmer of Dhanora village were present as chief guests for the programme. During this programme Mr. Vikas Jadhao delivered lecture on wastage of food grains due to improper storage of food grains. Mrs, Jyoti Bobde, Programme Assistant (Home Science) focused on Nutritious vegetable, health benefits and their processing & delivered information about kitchen garden in rural area.

On this occasion, a competition on "Nutritive Thali" was also organized. The dishes were prepared by the women from village. The prime use of Drumstick leaves and pods was incorporated in all dishes. Main objective of the competition was to create awareness about enhancing consumption of nutritional drumstick products in daily diet. About 19 farm women and rural youth participated in this competition. Total 80 women were present for this programme.

Celebration of Agriculture Technology Week

KVK Buldana-I celebrated "Agriculture Technology Week" during 20-23 November, 2019. During this week, KVK organized in campus programmes such as District level "Sitafal Mahotsav", Rabi Kisan Mela, Training & input distribution to CFLD farmers. In off-campus programmes KVK organised BBF sowing demonstration & training with FMD vaccination & health care camp for animals at village level.

Sitafal Mahotsav

To promote Dryland Horticulture in jurisdiction, KVK organized a district level Custard Apple Exhibition every year under title "Sitafal Mahotsav". This year also, on 20th November, 2019 KVK organised its 10th Sitafal Mahotsav in technology week. The programme was consisting of Scientist –Farmers interaction followed by exhibition of various varietal fruits & processed products

from custard apple for custard apple growers of the jurisdiction. The Scientist-Farmers interaction programme was chaired by Hon. Mr. K.G. Ingle, Chaiman, Satpuda Education Society. Mr. Deepak Patel, Sub-Divisional Agriculture Officer, Khamgaon was Chief Guest for the programme.Dr. Ujjawal Raut, Assistance Professor, Dr. PDKV, Akola was invited as a guest lecturer. Mr. Eknath Aage, Jamod village, Mr. Bhashakar Chopde, progressive custard apple grower farmer from Usra village of Jalgaon Jamod block were also present for the programme to share their views & experience to the participants.

On this occasion, farmers exhibited their custard apples in fruit exhibition. KVK also exhibited custard Apple processed products in this exhibition. Total 7 types of fruit samples viz. Balanagar, Arka Sahan, Annona-2, Chandsili, Atomiya, finger print and NMK-3 varieties were demonstrated. KVK playing vital role for promotion of custard apple cultivation through custard Apple Exhibition, saplings availability to farmers, Technical backstopping & front line demonstration of various technologies.

Fertilizer Application Awareness Programme (Live Webcast)

To create awareness among the farmers about balance use of fertilizer and to motivate the farmers to adopt soil test based fertilizer application, KVK organised "Fertilizer awareness programme" on 22nd October, 2019. Under the directives of ATARI, Pune. A

Live Telecast of Address by Honourable Central Minister of Agriculture and Farmers Welfare, for the farmers was also scheduled during this programme.

The programme was scheduled in 3 sessions. The first technical session of the programme was inaugurated by Mr. Deepak Patel, SDAO, Khamgaon. In the introductory remark of the session, Mr.Vikas Jadhao Sr. Scientist and Head, KVK highlighted the aims and objectives of this programme to the farmers.Mr. Sanjay Umale, SMS (Agro) focused on imbalance use of plant nutrients and decline response ratio of soil to fertilizer application in his expert remark. He also attracted the attention of the farmers towards use of new types of fertilizers viz. liquid fertilizers, special compounds, bio-fertilizers, slow release fertilizers, etc. The session was followed by Live Telecast of address by Hon. Central Minister of Agriculture and FW.

Under next technical session, Mr. Dipak Patel SDAO Khamgaon guided farmers about use of Soil Health Cards and amount of fertilizers for various crops. Video regarding balance use of fertilizer was shown to the farmers. Field visit of farmers to KVK Farm was also organised after conclusion of technical sessions. Farmers were satisfied by seeing the various technologies demonstrated such as BBF Sowing, Integrated Pest Management, Integrated Nutrient Management, balanced use of fertilizer and orchards plantation in KVK's instructional farm.

Training and Input Distribution of CFLD (Bengalgram)

KVK Buldana-I organised Training programme for Cluster Front Line Demonstration (CFLD) farmer on 20th November, 2019 at KVK. The main objective of programme was to train the farmer about improved

cultivation of Bengalgram. Mr. Vikas Jadhao Sr. Scientist and Head of KVK highlighted the aims and objectives of CFLD to the farmers in his introductory remark. Mr. Sanjay Umale, SMS (Agro) guided the farmers about imbalance use of plant nutrients, soil testing, improved variety, seed treatments, balance fertilizer application, inter-cultivation, irrigation management and plant protection. Method demonstration on seed treatment was given to the farmers in this training. Bengalgram seed of variety RVG-202 and Liquid Consortia were supplied to the farmers from selected cluster of two villages i.e.Wadgaon Wan and Kolad. Total 48 farmers were present for this training programme.

Farmer-Scientist interaction cum training programme under AICRP

To aware farmers about advanced animal drawn farm equipment's granted under AICRP on Utilization of Animal Energy Project in collaboration with VNMKV, Parbhani, KVK Buldana-I organized Farmer-Scientist interaction cum training programme. Under this project, 13 nos. of animal drafted advanced equipments are distributed in adopted village Dhanora (Jangam) of Nandura block in view to aware farmers about these equipments and testing their feasibility for local conditions for three consecutive years.

The equipments/implements bank distributed consist of Solar power sprayer, seed drills, three Tyne hoe, ridger for sugarcane and turmeric crops, stubble collector etc. In this concern, a Farmer-Scientist interaction was held on 26th November, 2019 at village Dhanora. For this programme, Dr. Smita Solanki, PI & Research Engineer, AICRP on UAE, VNMKV, Parbhani and Dr. Waghmare, VNMKV, Parbhani guided the farmers about these advanced animal drafted equipments, their utilization on field and also explained need of equipment's for integration of farm operations. Mr. Nitin Talokar, SMS (AE), KVK briefed about utilization of granted equipment's, care and maintenance of equipment's. Mr. Bhanudas wanare and Mr. Dnyaneshwar wanare gave feedback about benefits and drawbacks of the equipments utilized for different agricultural operations. About 62 farmers were present for this programme.

Celebration of Constitution Day

Fundamental duties are intended to serve as a constant reminder to every citizen and it also requires citizens to observe certain basic norms of democratic conduct and democratic behaviour because rights and duties are co-relative. Keeping this as the main objective, and as per the directives of ATARI Pune, KVK Buldana-I decided to celebrated "Constitution Day" at

host Institute across the period from November 26th, 2019 to 26th November, 2020.

KVK Buldana-I celebrated "Constitution Day" at host Institute on 26th November, 2019. At the outset Vikas Jadhao, Head, KVK garland the image of Dr. Babasaheb Ambedkar at "Satpuda convent of Scholars" of the institute. Mass Preamble reading was carried out in school. Mr. Bakal, Pricipal,Satpuda Convent and all the staff members of Convent, KVK staff alongwith students were present for the programme. Mr. S. A. Borde, SMS (Extn) highlighted the activities & talks to be delivered in each month on schedule date. Mr. Vikas Jadhao focused his views on Fundamental duties (FD) narrated in Article 51-A of the Indian Constitution with emphasis on 11th FD i.e. To provide opportunities for education to child.

On 23rd December, 2019 celebration of "Kisan Diwas" was scheduled at KVK. A talk on Article 51-A of Indian constitution was held for the farmers from region under constitution day celebration.

On scheduled 20th January, 2020, "Satpuda-2020" Agricultural exhibition was carried out by KVK, in which mass Constitutional Preamble reading was carried out during inauguration programme of the exhibition.

On 24th February, 2020 a talk on Constitution and citizen duties, Land legislations and Reforms was arranged for the staff of KVK and Staff of Agriculture Diploma College of host institute. From the month of March, 2020, health advisories issued by the Ministry of Health, GOI due to the spread of Corona Virus, the scheduled of constitution day celebration was postpone. KVK officials Mr. Anil Gabhane (SMS, PP), Mr. S. A. Borde (SMS, Extn.) Mr. Sanjay Umale (SMS, Agro.), Mr. Shashank Datey (SMS, Hort.) Mr. Nitin Talokar (SMS, AE) Dr. V. S. Janotkar (SMS. Vet.), and all staff members taken efforts for successful conduction of these monthly series programmes.

Celebration of World Soil Day

KVK Buldana-I organised programme on occasion of "World Soil Day" on 5th December, 2019 at KVK with theme "Stop soil erosion, save our future" with an objective to raise the awareness about soil health Management.

The programme was inaugurated by Mr. Vikas Jadhao Sr. Scientist and Head of KVK. At the outset in introductory speech, he explained the aims and Objectives of this programme to the farmers and guided about Soil erosion. Mr. Sanjay Umale SMS (Agro) guided Farmers about balanced use of plant nutrients, decline response ratio of soil to fertilizer application, maintenance of Soil health, Crop residue management and Soil test based fertilizer management, Use of Liquid fertilizer and use of soil health cards. Agriculture Assistants from Agriculture Dept. were present for this programme. Total 733 Soil Health card were distributed. In officials Dr. V. S. Janotkar, Mr. Nitin Talokar, Mr. Yogesh Wakekar were present and taken efforts for success of the programme.

Management of Cotton crop waste using Cotton Slasher

Cotton is one of the major commercial crop of Buldana district in kharif season. Area under cotton crop is 2.46 lakh hectares which constitutes about 33% of total area sown. This crop is grown in medium to heavy black cotton soil under rainfed as well as irrigated condition in some pockets.

The district soil profile shows low organic carbon content in the soil which result in low productivity of Cotton and other crops and increase in fertilizer doze every year. Low organic carbon content in the soil is due to low availability of FYM and organic residue incorporation in soil. Farmer every year uproot cotton crop after completion of cotton picking followed by burning the uprooted residues in field which results in drudgery in uprooting cotton crop and loss of Valuable organic matter due to burning them.

Cotton Slasher is an implement driven by Tractor PTO. It is Single row Chopper. It cuts cotton row and chop them in small pieces and spread the chopped cotton residues over field. This implement reduces drudgery, time and Cost in cotton uprooting and increases soil humus resulting enrichment of organic carbon in the soil.

KVK Buldana-I has started demonstration of this technology on farmers field through assessment, method demonstration in trainings and large scale FLDs on farmers field from year 2012. With these efforts of KVK large number of tractor owners has adopted use of this implement in the district and application of this technology has widely spreading with time.

In year 2020, Mr. N. P. Talokar (SMS, AE) has demonstrated 10ha area of farmer's field covering 25 farmers and achieved custom hiring of 61ha area in jurisdiction. Table below is showing the activities carried out by KVK during year 2019-20 to spread this technology.

Activities	Area / No. of activities
Training programmes	18
Assessment	12 ha
FLD's (2012-20)	95 ha
Field Day	09
Booklet and folder	02
Popular articles published	03
Villages covered	78
Custom Hiring	326 ha

Following are some of the salient findings under this technology. Biomass incorporation of 4.6 t/ha with reduction in labour 17 man-days and cost.

Parameters of assessment	Uprooting cotton manually	Use of Cotton Slasher
Residue (t/ha)	0.0	**4.675**
Av Weight of Plant (gm)	365	322
Cost of operation (Rs/ha)	1700/-	1750/-
Labour Reduction (man days/ha)	0.26	**17**

Following feedbacks of farmer's were received those adopting cotton slasher technology in jurisdiction

1. Use of cotton slasher is a mobile technology which reduces time of manual uprooting, collection and burning of residues.
2. Beneficial for farmers cultivating cotton followed by groundnut as land get prepared for sowing
3. Increases usefulness of biomass as whole cotton plant get chopped in size of 1-2 inches, spread over the field & decomposes naturally without hampering further field operations.
4. Buried biomass increases water holding capacity of soil.
5. Reduction in labour and drudgery of uprooting manually.

SDT under ASCI on "Nursery Worker" & "Mushroom Grower"

Under Agriculture Skill Council of India (ASCI), Two Skill Development Trainings were conducted on courses "Nursery Worker" and "Mushroom Grower" at KVK Buldana-I during 17th February to 18th March,

2020. The courses were of 200 hours each consisting registered batches of 20 trainees. The inaugural function was conducted on 17th Feb., 2020. Hon. Mr. K.G. Ingle, Chairman Satpuda Education Society, Mr. V.G. Jadhao, Head, KVK and Mr. S.P. Datey (SMS, Horticulture) & Training co-ordinator and Mrs. J.W. Bobde, Programme Assistant (Home Science) & Training co-ordinator were present for inaugural function.

At the outset, Mr. S. P. Datey highlighted on training contents & Mr. V. G. Jadhao explained the opportunities after completion of the training. Mr. K. G. Ingle addressed to the trainees and advised to start their own business after completion of training. Participants have successfully completed 200 hours skill training through programme of theoretical, practical orientation & actual hands on training. Training topic wise appropriate field visits of trainees were also organised by the concern training coordinators. Visits and interaction sessions with successful entrepreneur were also organised in trainings.

District level Agriculture Exhibition "SATPUDA-2020"

To create awareness about advancements in agriculture technologies among farming community, KVK Buldana-I has organized Two Days District Level Agriculture Exhibition "SATPUDA – 2020" during 19-20January, 2020 at KVK campus in collaboration with host institute Satpuda Education Society, Jalgaon Jamod. Total 110 stalls were exhibited the technologies among which KVK Buldana-I, Dr. PDKV, Akola, State Agriculture Dept., Dairy Development Dept., RCF, Veterinary medicines, Indigenous and MNCs of seeds, pesticides, fertilizers, tractors and farm equipment's, food and grain processing equipment's along with 40 SHG's and farmers groups of organic farming were participated and showed live demonstrations of emerging technologies in farm sector.The exhibition of fruits and vegetables from farmer's field was exhibited in separate segment of this exhibition. About 70farmers displayed their 145 samples of exotic & regional fruits and vegetables.

The Exhibition was inaugurated on 19thJanuary, 2020 by the auspicious hands of Hon. Shri.Krushnaraoji Ingle, President Satpuda Education Society.,Hon. Mrs. ManishataiPawar, President, Z.P. Buldana, Dr. Shivaji Magar, TM, Jalgaon Jamod, Mr. Dipak Patel, SDAO, Khamgaon, Mr. SunildattaPhadake, District Sericulture Officer, Buldana, Dr. SwatitaiWakekar, President,Mahasiddha Urban, Jalgaon Jamod, and Mr. Vikas Jadhao, Sr. Scientist and Head, KVK were chief

guests of this programme. At the outset of inaugural function, Mr. Anil Gabhane, Scientist(Plant Protection) has given brief information about the organization of District Level Agriculture Exhibition.

In chairman's address Hon. Krushnaraoji Ingle appealed to the farmers to take advantage of new emerging technologies in agriculture displayed in exhibition and be ready to accept new challenges in agriculture. In speech theyalso highlighted dryland horticulture, farm mechanization, low cost agriculture technologies to improve farming practices. Dr. Shivaji Magar highlighted the importance of arranging such exhibitions in remote areas where technical knowledge take time to reach at grass root level. Dr. Swati Wakekar appealed farm women to start subsidiary business by forming SHGs.All dignitaries appreciated KVKs efforts for organization of Agriculture Exhibition in such a remote area and assured that this event will be helpful for farmers of the area.

On successive day of the exhibition (20thJanuary 2020) technical sessions on Sericulture – Entrepreneurship Development and demonstration of Cotton Shredder was scheduled for the farmers. Mr. SunildattaPhadake and Mr. Dipak Patel guided the farmers regarding emerging sericulture entrepreneurship. In afternoon session Cotton Shredder technology was demonstrated among the farmers at KVK instructional farm. Mr. Nitin Talokar, SMS, AE briefed about incorporation of organic matter through cotton slashing. He also highlighted the advantages of shredding of cotton instead of uprooting manually.

In valedictory function of the exhibition on 20thJanuary 2020, prize distribution and concluding ceremony was organized in presence of Hon. Krushnaraoji Ingle, President, Satpuda Education Society. For this function, Dr. SwatitaiWakekar, President, Mahasiddha Urban, Jalgaon Jamod, Dr. Sandip

Wakekar, Director, Satpuda Convent,Mr. Vikas Jadhao, Head, KVK were present. Category-wise prizes with certificate of excellence and mementoes were given for the first three best exhibiters of stalls, fruits andvegetables.More than 18000 farmers visited to this two days exhibition.

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