

ANNUAL REPORT 2017-18

GENERAL INFORMATION ABOUT THE KVK

Name and address of KVK with phone, fax and e-mail

KVK Address	Telephone		E mail
	Office	Fax	
Krishi Vigyan Kendra, Kulgam (Pombay), P.O. Gopalpora Kulgam-192 233	01931213492 09797138441	01931213492 -	kvkkulgam@gmail.com

Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Web Address
	Office	Fax		
Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar Srinagar (J&K)	0194-2462159	0194- 2462159	vcskuastk@gmail.com	www.skuastkashmir.ac.in

Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Tasneem Mubarak	09797138441	09797138441	kvkkulgam@gmail.com

Year of sanction: 2005 vide no. : 2-42-2003-AE11; Dated: 09-05-2005

Details of KVK staff as on 1-5-2018

S.No	Sanctioned post	Name of the incumbent	Discipline	Existing Pay Band	Grade pay	Date of joining
2.1	Programme Coordinator	Dr. Tasneem Mubarak	Agronomy	37400-67000	9000	15-3-2018
2.2	Subject Matter Specialist	Mrs. Saima Paul	Home Science	15600-39100	7000	Deployed to KVK Srinagar form the date of transfer.
2.3	Subject Matter Specialist	Dr. Ab Shakoore Khanday	Soil Science	15600-39100	7000	21-06-2017
2.4	Subject Matter Specialist	Dr Shahid Ahmad Shergogri	Animal Sci.	15600-39100	6000	25-8-2017
2.5	Subject Matter Specialist	Dr Parvez Ahmad Sheikh	Plant Pathology	15600-39100	6000	11-4-2018
2.6	Subject Matter Specialist	Vacant	Horticulture	15600-39100	6000	--
2.7	Subject Matter Specialist	Vacant	Agronomy/Floriculture/fishery/vegetable Science	15600-39100	6000	--
2.8	Programme Assistant	Syed Shakir Nazir	Aqua-life medicine	15600-39100	6000	Pursuing Ph. D and Shifted to KVK on 10/7/2017
2.9	Computer Programmer	Mr. Shabir Ahmad Mir	Computer Science	15600-39100	6000	17-07-2009 Attached to HQ
2.10	Farm Manager	Vacant	-	9300-34800	4600	Vacant
2.11	Accountant/ Superintendent	Mrs. Zahida Parveen	-	9300-34800	4600	22-05-2017
2.12	Stenographer	Vacant	-			
2.13	Driver 1	Mr. Ab. Rashid Ganie	-	9300-34800	5400	9-04-2007
2.14	Driver 2	Mr. M.Shafi	-	5200-20200	2400	Deployed to Pool office form the date of transfer
2.15	Supporting staff 1	Gh. Hassan Mir	-	5200-20200	2400	12-12-2005
2.16	Supporting staff 2	Basharat Ahmad Lone	-	4440-7440	1650	2-2-2015

Total land with KVK (in ha) :

<i>S. No.</i>	<i>Item</i>	<i>Area (ha)</i>
1	Under Buildings	0.5
2.	Under Demonstration Units	0.1
3.	Under Crops	4.0
4.	Horticulture	1.06
5.	Under Barren/natural bunds	4.51
	Total	10.17

Infrastructural Development:

A) Buildings

<i>Name of building</i>	<i>Source of Funding</i>	<i>Stage</i>					
		<i>Complete</i>			<i>Incomplete</i>		
		<i>Completion Date</i>	<i>Plinth area (Sq.m)</i>	<i>Expenditure (Rs.)</i>	<i>Startin g Date</i>	<i>Plinth area (Sq.m)</i>	<i>Status of construction</i>
Administrative Building	ICAR	July -07	500	41.63 lakh	-	-	Needs repairs
Farmers Hostel	ICAR	Jun -07	305	27.30 lakh	-	-	Needs face-lifting
Staff Quarters	ICAR	-	--	--	Oct., 2011	-	Incomplete due to lack of funds
Demonstration Units 2 (Dairy, Poultry)	ICAR	May-07	60.0	3.28 lakh	-	-	Completed and functional
Fencing	ICAR/SAU	March 2012	500 r.m	-	March-2012	1000 r.m	Fencing completed in 2017 from road side
Soil Lab	ICAR	Functional					
Plant Pathology Lab	ICAR	Functional					
Threshing floor		Not sanctioned yet					
Farm go down		Not sanctioned yet					

B) Vehicles and machinery

<i>Type of vehicle</i>	<i>Year of purchase</i>	<i>Present status</i>
Bolero GLX 4wd7 STR.G	2005	Needs condemnation subjected and replacement by new vehicle
Tractor & Implements	2005	Good
Hydraulic Tractor Trolley	2016	Good
Motor Cycle	2012	Good
Power Tiller	2016	Good

Major farming systems/enterprises of the district Kulgam

<i>S. No</i>	<i>Farming system/enterprise</i>	
1	Irrigated (canal)	Rice-Brown sarson; Rice-wheat; Rice-fodder (Oat, Berseem); Apple+vegetables, Apple+fooder. Apple+pulses
2	Rainfed	Maize+Rajmash, Maize-Field pea; Moong- Fodder (Oat, Berseem), Cowpea- Fodder (Oat, Berseem), Rajmash – Fodder (Oat),Apple+ Pulses, Apple + Fodder.
5	Enterprises	Horticulture, Agriculture, Livestock, Handicraft, Fishery, Mushroom, Apicultur, Poultry

Soil type/s

<i>S. No</i>	<i>Soil type</i>	<i>Characteristics</i>	<i>Area in ha</i>
1	Clay Loam	Ideal for cultivation of paddy, oilseeds and pulses	15845
2	Sandy Loam	Ideal for cultivation of apple, maize, walnut	21446

Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (q)	Productivity (q /ha)
1.	Rice	16411	798723	48.67
2.	Maize	8440	90392	10.71
3.	Wheat	50	1500	30.0
4.	Oilseed	5787	30960	5.35
5.	Pulses	2068	19211	9.29
6.	Fruits and vegetables	2650	192628	72.69
7.	Fodder crops	2350	214320.0	91.20
8.	Apple	13614	1440361	105.8
9.	Pear	669	55192	82.5
10.	Apricot	125	8637	69.1
11.	Peach	122	8405	68.9
12.	Plum	197	13021	66.1

Population of livestock, Poultry, Fisheries etc. in the district

Category	Population	Category	Population
Cattle	126000	Goats	21000
Crossbred	113400	Poultry	264000
Indigenous	12600	Ducks	14000
Sheep	151000	Horses	810
Crossbred	130000	Ponies	1905
Indigenous	21000	Buffalo	2035

Thrust area and Prioritized problems in different sectors.

Sector	Major Crop/ Enterprise/natural Resource	Thrust area	Identified Problem
Horticulture	Apple/walnut	Improvement in yield and quality of apple and walnut.	<ul style="list-style-type: none"> a) Poor fruit set, yield and quality of apple b) Lack of quality planting material c) Nutrient deficiency, poor canopy management and heavy disease incidence
Agriculture	Paddy, maize, Brown sarson, fodder oat and Pulses	Enhance seed replacement rate in major cereals, Pulses, oilseeds and fodder crops.	<ul style="list-style-type: none"> a) Low seed replacement rate b) Faulty nutrient application c) Disease incidence in rice. d) Lack of suitable rice variety for mid altitudes e) Shortage of fodder f) Low yield of brown sarson
Vegetables	Chilli, Knolkhol, Kale, cucurbits etc.	Increasing vegetable production and revival of niche crops	<ul style="list-style-type: none"> a) Chilli Wilt b) Downy mildew of cucurbits c) Lack of vegetables in winter
Live stock	dairy , Sheep husbandry and poultry	Up gradation of existing breeds Commercial dairy and poultry farming	<ul style="list-style-type: none"> a) Low yield due to local breeds, b) skin infestation (with ticks, lice and fungi) in cattle c) unawareness about disease and nutrient management

Apiculture	Bee-Keeping	Popularization of Apiculture for income generation and role in fruit industry	Lack of awareness and management
Pisciculture	Fish farming	Rearing and breeding management with respect to carp culture	Unawareness about improved methods of fish farming
Entrepreneurship Development	Agribusiness	Introduction of income generation programmes for Self-employment of youths in mushroom, cultivation and processing, fish farming, value addition of fruits and vegetables and rearing of honey bees and vermicomposting, nursery raising and training and pruning	Unawareness about self employment and income generation programmes in agriculture and allied areas
	Rural craft	Women empowerment through income generating skill oriented programmes in Cutting and tailoring, knitting, value addition of fruits and vegetables.	Social backwardness in women
Natural Resource Conservation	Soil and Water	Soil and water conservation.	Soil erosion and moisture deficit.

Action Taken Report on Salient recommendations of Scientific Advisory Committee Meeting of KVK held on 22 May 2017.

Agenda item 1: Interaction Programmes and exposure visits for farmers associated with OFTs FLDs and Trainings and getting their feedback.

Kendra has conducted five interaction programmes in the operational villages and one programme at KVK Kulgam. Besides arrangements were made to take the concerned farmers to Kisan Mela and Exposure visit to the University in the month of March 2018. Feedback was received for the compilation of Impact assessment of



different activities, which was Presented by worthy Director Extension during 29th ECM held on 16-4-18 (**Annexure -I**).

Agenda item 2. Creating demonstration plots of all major crops at kvk instructional farm for training and showcasing university technologies to the farmers

- Being the major crop of the district focus was on apple crop. Kendra has established a Model High Density apple orchard on an area of 5 Kanal. More than 3000 farmers visited the plots during 2017-18 and got first-hand information about the technology. The demonstration has created very good demand of the material from different parts of the district. Taking this into consideration the Kendra has procured HDP rootstock(M-9) from FOA Wadura-SKUAST-Kashmir



- Kendra has also established HDP virus free MOTHER BLOCK in collaboration with Division of Plant pathology over 5 Kanal for distribution of Bud/graft wood to farmers of the district. This will not only fulfil the demand but also help Kendra generate revenue.

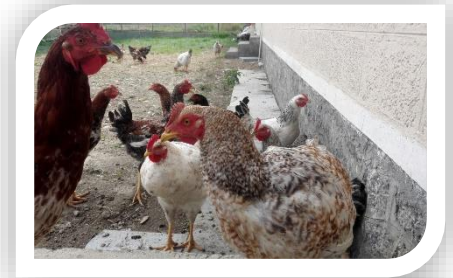


- KVK also established demonstration plots on major field crops during *kharief* (Paddy, Maize, Pulses, Soybean) as well as during *rabi* season (Brown sarson, fodder oat). It is in place to mention that hundreds of farmer visited these demonstration plots at the Kendra and a very good number of farmers approached Kendra for seed and knowhow about the production technology of these crops. District Development Commissioner Kulgam, Chief agriculture officer, Chief Horticulture officer Kulgam and other officer / extension functionaries of line department also visited Kendra and these plots and appreciated the efforts of the Kendra for showcasing the potential of technologies available with the University



Agenda item 3. Making the demonstration units functional and distribution of Wanraja poultry birds among interested farmers:

- Dairy unit was made fully functional during the year 2017-18 after a gap of 11 years since the establishment of the demo units



- Two cross bred jersey cows were purchased from Mountain Livestock Research Institute Manasbal.



- More Component of Integrated Farming System were added as per the suitability (Dairy, Poultry, agriculture., horticulture., floriculture) under the directions of Honourable Vice Chancellor and worthy Director Extension SKUAST-Kashmir. Authorities have been very supportive to the Kendra in the establishment of IFS model.
- 600 Wanraja poultry birds were distributed among the 110 interested farmers of villages Modergam, Gopal pora, Kakran, Pombay, Sehpora, Ladgoo, Rambhama, Damhal, Lirro, K.B.Pora, Areh, Yaripora, H.M.Gori, Padder Pora, Mirhamma , Kaharwat, Khokharhama, Tarigam, Nellow, Baigam. Farm women are more interested in poultry related activities compared to rest of the agriculture and allied enterprises.

Agenda item 4. Strengthening Linkage with Line Department and other stake holders

- KVK has Conducted 19 training/interaction programmes in collaboration with department of Agriculture and Horticulture Kulgam.



- A 5 days Training programme in collaboration with Department of Floriculture for 65 farmers and extension functionaries was held w.e.f 3 February 2018. The programme was flagged off by District Development Commissioner Kulgam and inaugurated by Deputy Director Floriculture. 65 farmers and extension functionaries participated in the programme.



- Kendra has extended full support to the programmes of different Division and Research stations in Frontline Demonstration, participatory plant breeding, projects, mellas, trainings, exposure visits, farmer scientist interactions, surveillance, etc.



- Kendra conducted *crop cut study* in the district this year and department of agriculture rendered their man power support as and when required. Data on crop study is presented in **annexure II**.



- Kendra has also reached the district administration, media and public representatives for collaboration and publicity

Agenda item 5. Training on cultivation and post-harvest management of cut flowers for the extension functionaries/ interested farmers

5 days training programme was conducted in collaboration with Floriculture Department and Division of Floriculture SKUAST-Kashmir w.e.f 3 February 2018. The



programme was flagged off by district development commissioner Kulgam and inaugurated by Deputy Director Floriculture.

Division of Floriculture SKUAST-Kashmir extended full support for successful conduct of the programme.

65 farmers and extension functionaries participated in the programme.



Agenda item 6. Five youth to be deployed to Shalimar for training on Hybrid seed production in vegetables.

5 interested farmers including 3 youth from operational villages Ladgoo & Kakran were deputed to Division of Vegetable Science SKUAST-Kashmir for the said training w.e.f 9 to 11 August 2017. Besides 4 rural youth deployed for 1 month gardener training at SKUAST-K. As per the feedback from trainees Programme was quite beneficial and trainees demand the seed of parental Lines for seed production at Farmers field.

Agenda item 7. Repair of KVK buildings and other developmental work

Repairs have been done in the administrative block and are under process in farmers hostel. Fencing has been completed from roadside Work on gate is under process



Agenda item 8. Checking the performance of varieties of maize (SMC-3) in comparison to C-15 in maize demonstrations

Since the instructions were received on the occasion of Scientific Advisory Committee Meeting of KVK Kulgam held on 22 May 2017, by this time the sowing of maize in the target area was already completed. Kendra however identified some farmers under the FLD maize programme who used C-15 as farmers practice. Data collected revealed that the yield of C-15 (Average yield 4.54 t/ha) was only 2.6%



C-15



SMC-3



SMC-3

less than SMC-3(Average yield 4.66 t/ha). This slight difference in yield may be due to the difference in seed quality. Study shall be conducted this year also at more locations. As per the feedback, farmers have shown their satisfaction with both varieties.

Agenda item 9. Animal Scientist of the Kendra shall submit a project on poultry hatchery.

Animal Scientist has prepared a detailed project (Annexure III) on Poultry. The project has been recently submitted to Director Planning and Monitoring SKUAST-Kashmir. The prerequisite for the implementation of project is availability of technical staff for handling the project, especially at the brooding stage.

Agenda item 10. Plant pathology scientist of the Kendra should establish a mushroom unit at the Kendra as a component of Integrated farming system.

Plant pathology scientist was transferred before starting the unit and post was vacant. Dr. Parvez Ahmad Sheikh has recently joined as SMS plant protection. The scientist is well-versed with the production procedure of mushroom and he shall establish the unit during 2018-19.

Agenda item 11. Arrange seed of African tall variety of fodder maize for demonstration at KVK/farmers' field.

Seed has been procured by the Kendra. Since Kendra is producing quality seed of maize variety SMC-3, staggered sowing shall therefore be carried out in the month of June.

Agenda item 12. Root stock of HDP to be multiplied at KVK on scientific lines both for demonstration as well as distribution to the farmers of the district

1000 dwarf rootstock of M-9 has been procured from FOA Wadurah and demonstration cum training nursery plot has been established at KVK instructional Farm.

Agenda item 13. High density apple orchard established at KVK may be intercropped with legumes for demonstration to the visiting farmers:

High density apple orchard(Virus free) over an area of 6 kanal has been intercropped with pea during the rabi and shall be intercropped with Moong in the ensuing kharief season.

SALIENT ACHIEVEMENTS OF KVK DURING 2017-18

• Establishment of Integrated Farming System Model on 1 hectare area at KVK-Kulgam SKUAST-K

As per the instructions received from the University authorities during review meeting of KVKs, KVK Kulgam has established Integrated Farming system for the marginal farmers of the district (1 ha) with dairy, agriculture, horticulture, floriculture and poultry as its components. The aim is to provide training and awareness to the farmers regarding the suitable integrated farming systems as per the location specific



conditions prevailing in the district. More components like fish, duckery, beekeeping and mushroom will be added as soon as funds are available for the purpose. Recently KVK has got approval for adding one more cow and vermicomposting unit for the strengthening of IFS model, out of revolving fund. A very good number of farmers visiting Kendra have been made aware about the advantages and exposed to the integrated Farming. In almost all trainings/awareness programmes IFS and soil health management related part has been made compulsory. Regarding the establishment of IFS models at farmers filed Kendra has received no budget so far. However based on the understanding and socio- economic status of the farmers' suitable suggestions regarding strengthening and management aspects of existing IFSs at farmers filed is being taken care off in the operational villages. Kendra has updated, compiled and submitted two success stories on IFS at farmers' field to the concerned quarters (**Annexure IV**). More are being compiled during the year 2018-19.



- **Demonstrations on local land races Mushkebudji and Kamad in the district Kulgam for doubling farmers income in mid belt.**

Under the area expansion programme of Local scented paddy varieties *Mushkebudji* and *Kamad* started by University, district Kulgam was also included. With an Objective to Popularizing local scented rice for higher returns in mid belts of district

List of 13 Villages Covered under programme

- | | |
|----------------------|--------------|
| ➤ Ladgoo | ➤ D.H.Pora |
| ➤ Durhama | ➤ Pombay |
| ➤ Bongam (D.H. Pora) | ➤ Gopal Pora |
| ➤ Kounsarbal | ➤ Kakran |
| ➤ Laispora | ➤ Waripoa |
| ➤ Gandwani | ➤ Katrasoo |
| ➤ Ahmadabad(Khul) | |

Kendra conducted demonstrations at 35 locations in 13 villages of the district. 4 Trainings, 11 field visits, 1 field day and 2 interactions with the concerned farmers were conducted by the KVK. Baring three locations crop was satisfactory. Average yield of 4.3 t/ha and 3.6 t / ha in Mushkebudgi and Kamad , respectively was obtained. Net profit of 1.6 to 2.1 lakh/ ha against 0.55 to 0.62 lakh / ha in farmers practice



• Soil health management related activities conducted by Kendra

- Organized Soil health day on 5th December from 2017 benefiting 212 farmers and extension functionaries
- Farmers were sensitized about the importance of soil health and how to maintain it.
- Focus on soil health in 19 awareness camps cum farmer scientist interactions
- 49 method demonstrations on soil sample collection.
- Skill development of 467 famers regarding collection of soil samples
- One week **campaign** for awareness and literature distribution (512 beneficiaries.)
- 398 soil samples analysed even under unrest in the district.
- 10 days Skill development training on soil health assessment through STFR Meter



List of Villages covered during the campaign

S.No	Location	S.No	Location
1.	Bathipora	12.	Pombai
2.	Manzgam	13.	Kakren
3.	Koreal	14.	Bachroo
4.	Asnoor	15.	Tarigam
5.	Wattu	16.	Yamrach
6.	Nihama	17.	Yaripora
7.	Khur Batpora	18.	Bugam
8.	Ladgoo	19.	Paniwah
9.	Gopalpora	20.	Nillow
10.	Pombay	21.	Bal soo
11.	Kakren	22.	Kulgam
		23.	Mohdpora



ONE WEEK **CAMPAIGN** FOR AWARENESS AND LITERATURE DISTRIBUTION



Impact of programmes

- Despite turmoil the number of soil samples brought by the farmers for soil analysis and fertilizer recommendation was 398 and all the samples were analysed timely and soil health cards distributed
- Worthy District Development Commissioner Kulgam during the Soil health day programme held at KVK on 5 December 2017 assured farmers for programmes on soil health management in each village of the district. He issued a roster to the development department for daily basis update of the activities under soil health and line department has done a commendable work in this direction.
- One rural youth, Mr. Sabzar Ahmad Bhat has started the Mini Lab at Kader Kulgam recently and has tested 70 samples so far.
- Farmers were able to understand the importance of balance nutrition and soil test based nutrient management as per the feedback received after the conduct of programmes.
- The programme has helped farmers reduce cost of cultivation.

KVK Campaign for Disease and pest control in

Apple

- 20 Orchards at farmers' field were adopted for the Demonstration on Integrated Disease and Pest Management especially SKUAST-Kashmir Spray Schedule at Ladgoo, Kakran, Manzgam, Gudar, Yaripora, K.B.Pora, Khanpora, Pombay.
- Distribution of literature (Spray schedule) and explaining it to the farmers 400 copies.
- 16 Mass awareness/interaction programmes on covering components of IPM (6 in collaboration with Department of Horticulture)
- 156 farmers field / diagnostic visits conducted by the KVK scientists



- 15 days off campus training programme on training and pruning of fruit plants in which 184 farmers were benefitted.
- Advisories were given to the 3924 farmers who visiting KVK.



Impact of programmes

- Insect pest and disease incidence on leaves and fruit was negligible (Scab 1-2%, ALB 2-3%)
- Yield advantage compared to that before KVK intervention was also higher ranging from 12-17%
- Cost of cultivation reduced to the tune of 14-22% due to integrated approach and training on timing, preparation and spray of pesticides.
- Farmers visited KVK in huge numbers for consultancy after visiting the results of model orchards and the orchards of farmers who are in contact with the Kendra



ANIMAL SCIENCE RELATED ACTIVITIES

- 19 trainings / awareness programmes were conducted by Kendra benefiting 413 famers / farm women. It was interesting to note that out of 413 beneficiaries women farmers were 153
- 600 Wanraja poultry birds were distributed among the 110 interested farmers of villages Modergam, Gopal pora, Kakran, Pombay, Sehpora, Ladgoo, Rambhama , Damhal, Lirro,



K.B.Pora, Areh, Yaripora,
H.M.Gori, Padder Pora,
Mirhamma ,Kaharwat,
Khokharhama, Tarigam, Nellow,
Baigam.

- 25 diagnostic visits
- 40 cases received at KVK
- Major focus was low cost balanced ration, feed blocks and backyard poultry



Impact of Balanced feed



Input	Increase in milk production per animal (L/day)	Additional income generated / cow during lactation length (Value in Rupees)
balanced feed	0.500- 0.750	3150 to 4620

- Saves up-to 15% of feed cost by utilization of local feed ingredients and crop residues such as Proper mixing of straws (wheat, rice), dry grasses and tree leaves, dry apple , maize, mustard oil cakes, mineral mixture and salt.

Preparation and launching of new Products at KVK, Kulgam



Krishi Vigyan Kendra, Kulgam
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**Farm Fresh Pure Milk
and Milk Products**

- **Most hygienic Milk and Milk Products 100% pure and fresh**
- **Free from any artificial preservatives and additives**
- **Free from hormones and drug residues**










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Molasses Mineral Block Preparation

- Area specific locally available ingredients are used according to local conditions.
- Molasses
- Crop Residues
- Rice Bran
- Wheat Bran
- Mustard oil cakes
- Mineral Mixture
- Salts
- Calcium sulphate and calcium phosphate
- complete feedstuffs of energy, proteins, vitamins and minerals






COMPLETE FEED BLOCK	
Straw	- 30 parts
Tree leaves	- 30 parts
Crushed maize	- 12 parts
Oil cakes	- 10 parts
Rice/Wheat bran	- 10 parts
Molasses	- 04 parts
Mineral mixture	- 02 parts
Salt	- 01 parts
Urea	- 01 parts

FARMER/ EXTENSION FUNCTIONARIES DELIGATIONS



FIELD DAYS AND KISAN GHOSTRIES



VISIT OF INTERNATIONAL DELEGATION OF 13 OFFICERS FROM AFGANISTAN



An international delegation of 13 officers from General Directorate of Extension, Ministry of Agriculture, Irrigation and Livestock of Islamic Republic of Afghanistan visited KVK Kulgam on 03-01-2018 for interaction with KVK Scientists. Programme Co-ordinator KVK Kulgam, Dr. Tasneem Mubarak deliberated on various agricultural extension approaches being followed by the KVK for Dissemination of Proven Agricultural Technologies to the farmers. Delegates also interacted with the scientists of Kendra during the visit. The delegation was accompanied by the scientists of Directorate of Extension SKAUST-K. A field visit of the demonstration units was also carried out during the programme. While given their feedback the delegation expressed their satisfaction over the programme.

SEVA DIVAS AT KVK KULGAM

Seva Diwas was celebrated at Krishi Vigyan Kendra Kulgam today on 17th September 2017. Cleaning of KVK campus /premises was carried out during the programme, in which the employees participate wholeheartedly. The programme started with general instructions by Programme Coordinator Dr. Tasneem Mubarak to the staff about the event. He highlighted the significance of such programmes in view of the changing scenario and developmental trend in the country. He appreciated the efforts of the government of Indian for taking such programmes in a mission mode and creating a sense of unity and down to earth attitude. He also said that such programmes infuse new energy and zeal to work even harder towards development of the nation. All the staff members expressed great satisfaction over the program



Mahila Kisan Diwas at KVK Kulgam

- Interaction Programme programme with the female farmers and feedback from ex-trainees/Successful women entrepreneurs.
- Award ceremony for encouraging young rural girls for self-employment
- Field Visit to the demonstration units/plots



Celebration of World Soil Day on 05.12.2017

World Soil Health Day was organized by KVK-Kulgam on 5 December, 2017. Worthy District Development Commissioner Mr. Talat Parveez graced the event as Chief Guest. Besides Chief Horticulture Officer, District Agriculture Officer, District Information officer, Agriculture Extension Officers and officials from line department attended the programme. Honourable Vice-Chancellor SKUAST-Kashmir scheduled to grace the occasion could not attend the event due to disturbances in the district. In this programme more than 200 farmers participated. 5 prominent electronic and print media journalist in the district also attended the programme for wide publicity of the event. Some Ex- Panches and sarpanchs were also present.

Dr. Tasneem Mubarak, Programme Coordinator, KVK Kulgam welcomed the participants and highlighted the significance of the event in view of deteriorating soil health. He elaborated He briefly drew the attention of stake holders towards the reasons of soil health problem and suggested suitable and sustainable management practices not to improve soil health only but also to sustain better returns and save the environment. He further advised them to remain in constant touch with the KVK and Development Departments. He also elaborated how human health is also correlated with soil health. Dr. Ab. Shakoor Khanday, SMS soil Science explained the importance of Soil health card, soil testing and fertilizer recommendation in detail and satisfied queries of some farmers related to soil testing who interacted with the scientists during the programme. Chief Horticulture officer, District Agriculture Officer and progressive farmers of the district gave their valuable feedback during the programme. Worthy district development commissioner Kulgam was kind enough to spare the whole day for the event. In his address he stressed on further strengthening the coordination of line department with KVK Kulgam. He appreciated the efforts of Kendra in sensitizing the stake holders in general and farmers in particular. He described the event one of the best events he has attended since he took charge as



District Development Commissioner Kulgam. He expressed his satisfaction over the activities the Kendra is conducting for the welfare of farming community and desired that KVK, as a knowledge hub in agriculture and allied sector, should support the line department on technical issues to have better impact of developmental activities in the field of Agriculture and allied sectors. He assured all sort of help for facilitating the farming community of the district. A question answer session and method demonstration on soil sampling was also conducted during the programme. Besides soil health cards were distributed among the farmers.

Exposure visits: 15 farmers' exposure visits were conducted mostly for the farmers identified by line department at KVK Kulgam/SKUAST Kashmir. Number of beneficiaries was more than 500



Exposure visits in collaboration with line department



Special Programme on Pesticide risk reduction

- 6 Mass awareness camps in operational villages
- Around 800 farmers benefited in villages Gudar, Ladgoo, Sehpora and Areh.
- Relevant literature distributed during the programme.



Programmes for Reaching to maximum number of farmers for dissemination of technology

- Kisan mela through Directorate of Extension SKUAST-Kashmir in which 200 farmers were taken to university for exposure to latest technologies in the field of agriculture and allied sectors.
- 4 field days and 5 Kisan Ghosties were conducted by Kendra at KVK campus in which 489 farmers/farm women/rural youth participated.
- 4 exhibitions by the Kendra to highlight the activities of Kendra and the technologies developed by the University benefiting 319 farmers.



- 19 Farmers Scientist interaction programmes for creating Awareness on various aspects of farming in agriculture and allied sectors for around 1300 farmers and extension functionaries.
- Using Social media like Face book, whats' App and mobile phone for communicating KVK programmes and advisories. 4304 advisories given to the famers during the year.
- Kendra has prepared a list of 3000 farmers covering around 120 villages for mobile advisory service and is adding more farmers to complete the target of 5000 farmers covering at least 70% villages

National Conference of KVKs and Krishi Unati Mela w.e.f March 16-18, 2018



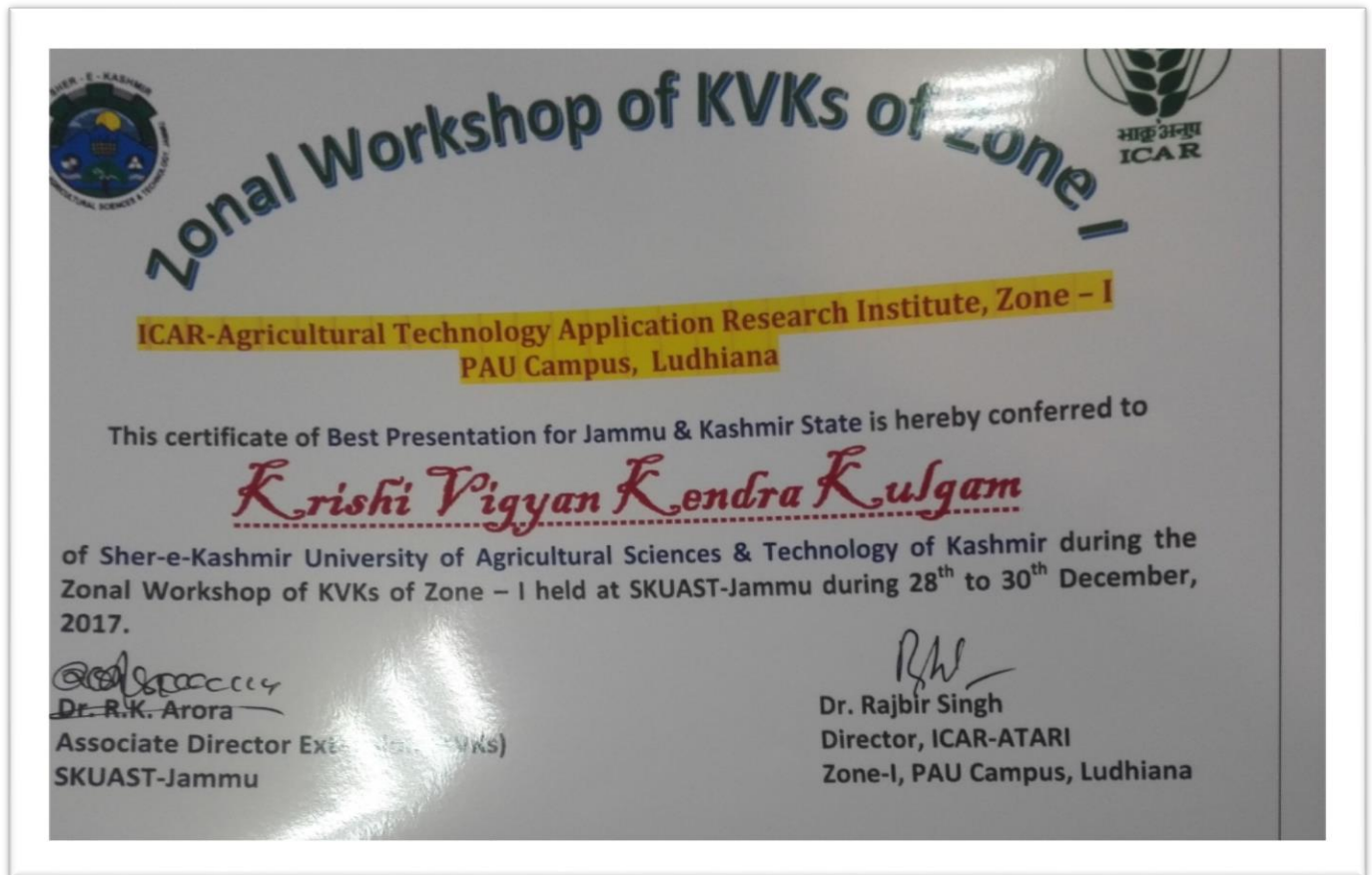
Participation in National Conference of KVKs & Krishi Unati Mela at IARI New Delhi



KVK AWARDS DURING THE YEAR 2017-18

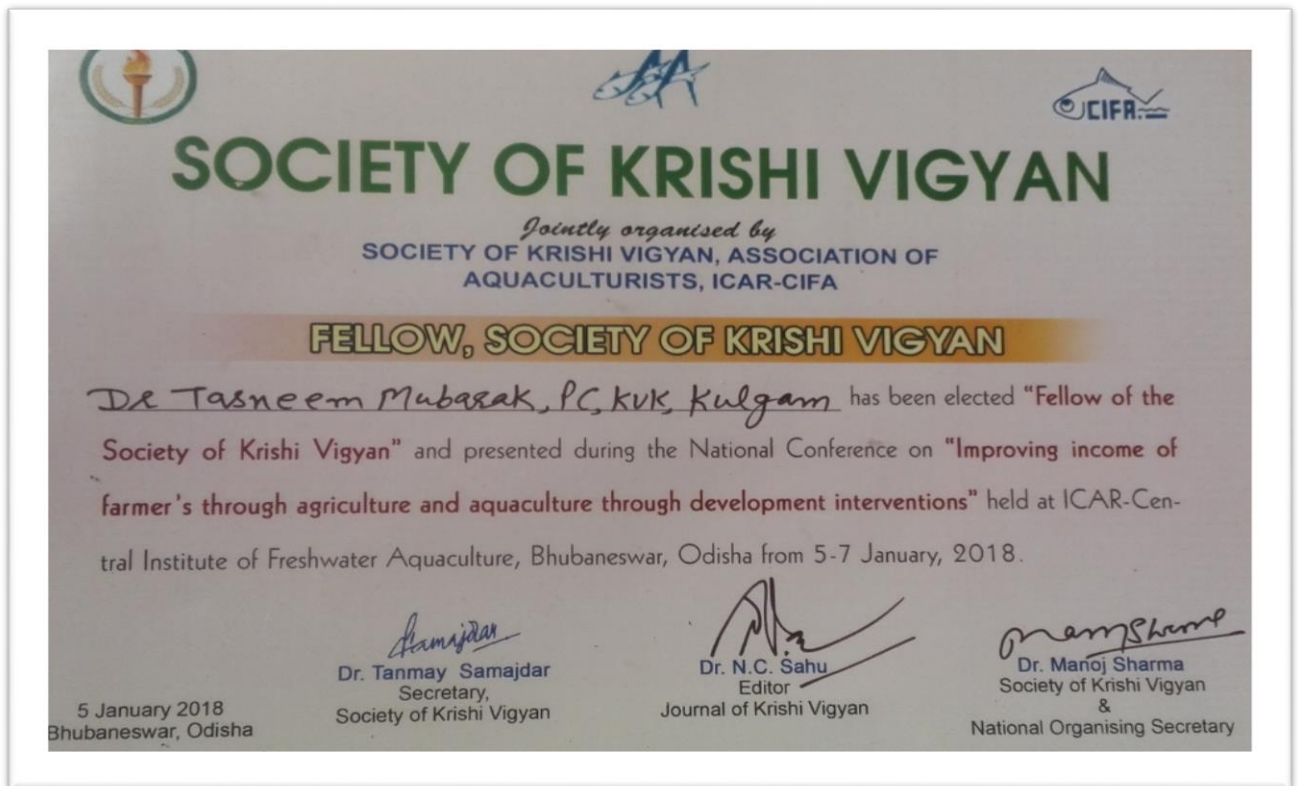


Best presentation award during Zonal workshop of KVKs from 27-30 December 2017





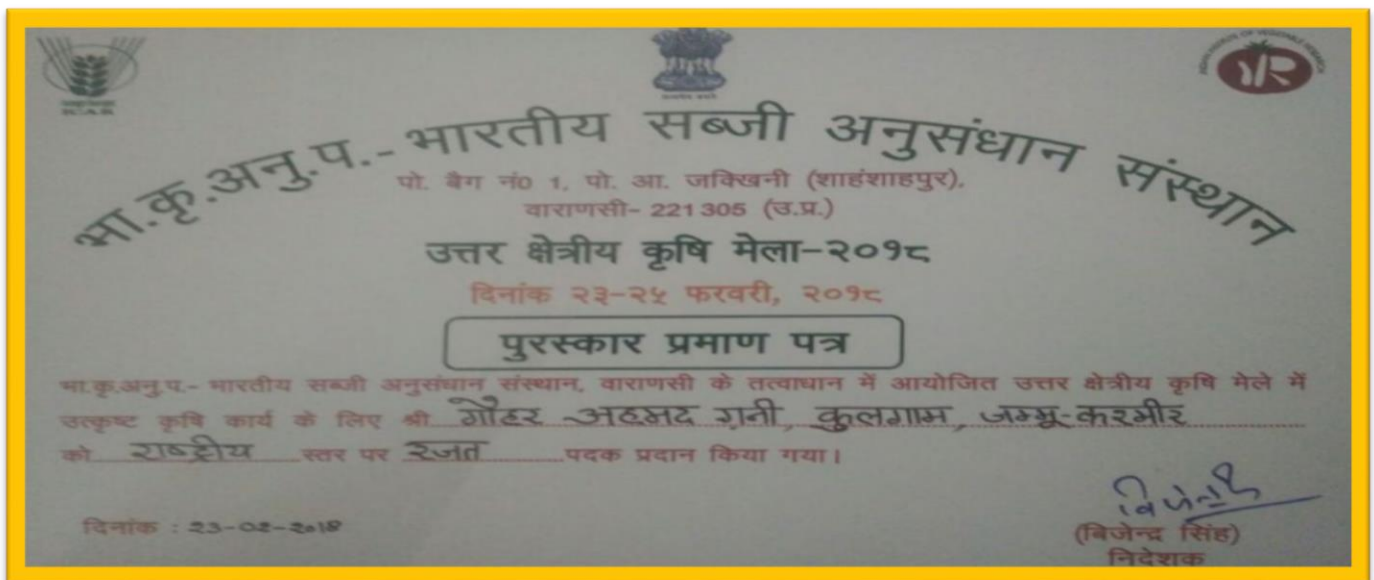
Programme Coordinator conferred Fellowship award of the Society of Krishi Vigyan during National conference of KVKs organized by Society of Krishi Vigyan at ICAR-CIFA, Bhubaneswar w.e.f 5-7 January 2018



AWARDS WON BY FARMERS ASSOCIATED WITH KENDRA



STATE AND NATIONAL LEVEL AWARDS RECEIVED BY MR. GOWHAR AHMAD GANIE



District level award received by Mr Ab Rashid Laway of Manzgam during republic day ceremony held at district HQ Kulgam. Progressive Farmer was nominated by department of horticulture Kulgam.



**ROUTINE ACTIVITIES OF THE
KENDRA DURING 2017-18**

Summary of Interventions/activities of KVK Kulgam 2017-18 in the operational area		
Programme	Achievements	Farmers benefitted
On-Farm –Trials (OFTs) laid	08	83
Front-Line-Demonstration (FLDs) laid	220	314
Trainings organized		
a. Farmers /farmwomen/rural youth	42	2615
a. Extension personnel (Capacity Building Programmes)	02	12
Vocational training programmes organized	03	84
Extension activities undertaken		
Field days	04	99
Kisan Goshties	04	358
Diagnostic team visits	75	219
Soil samples analyzed	398	398
Method demonstrations	13	140
Soil health cards issued	398	398
Farmers visit to KVKs	2614	2614
Radio/TV talks	03	-
Advisories through phone calls/kisan portals / print media	1081	1081
Exposure visits	03	66
Soil / Animal health camps	06/03	364/62
Scientists visit to farmers fields	96	181
Production of quality planting material	3000 grafted fruit plants and M-9 root stock planted in March	
Seed production of cereals Pulses ,Oilseed and fodder	40 qtls	581
Other important programmes (Soil Heath Day/ Mehila Kisan Devas/Swatchta pathwara/IDM & Soil Health Campaign) organized	6	583

On-Farm trials conducted by the Kendra during 2017-18

OFT -1: Varietal Assessment of rice in lower belts of district						
Crop/ enterprise	Prioritized Problem	Details of technology	Source of Technology	No. of Trials	Grain yield (t/ha)	% increase in grain yield of SKAU-408
RICE	Yield stagnation	Jhelum	MRCFC, SKUAST-Kashmir	3	7.1	9.8 % over Jhelum and 5.4 % over SR-1
		Shalimar Rice-1			7.4	
		SKUA-408			7.8	
<i>Feedback: Farmers have shown interest in SKAU- 408 and the variety has a good acceptability.</i>						

OFT- 2: Varietal Assessment of rice in lower belts of district							
Crop/ enterprise	Prioritized Problem	Details of technology	Source of Technology	No. of Trials	Grain yield (t/ha)	Net profit(Lakhs)	% increase in grain yield of SKAU-408
RICE	Poor returns	Mushkebudji	MRCFC, SKUAST-Kashmir	35	4.3	2.12	161 to 236 over farmers' Practice
		Kamad			3.6	1.65	
		Mixtures(FP)			4.5	0.63	

Feedback: Farmers have shown interest in Mushkebydji due to more aroma,yield and returns.

OFT- 3: Management of Collar and Root rot through Bio-control agents						
Crop/ enterprise	Prioritized Problem	No. of trials	Details of technology	No. of trials	No. of plants	Per cent recovery
APPLE	Collar and Root rot	05	T1: Removal of Soil (FP)	5	25	12
			T2: Soil Application of bio-agent(Tricoderma) and cow dung mixture near the affected area		25	43
			T3: Soil drenching of bio-agent		25	27

OFT -4: Integrated Management of Chilli wilt						
Crop/ enterprise	Prioritized Problem	Details of technology	Source	No. of Trials	Disease incidence (%)	Yield (q/ha)
CHILLI	Drooping of plants/ Death of plants	T1: No ridge planting + frequent flood irrigation + drenching with any available fungicide	SKUAST-K	03	57	5.3
		T2: Transplanting on ridges + need based irrigation + seed, soil and seedling treatment with bio-pesticides			23	8.8

OFT -5: Organic management of apple cankers					
Crop/enterprise	Prioritized Problem	Details of technology	Source of Technology	No. of Trials	Per cent recovery
APPLE	Cankers	T1: Plastering of affected part with mud or cement/POP (FP)	Division of Plant Pathology SKUAST-Kashmir	03	10.3
		T2: Scarification followed by recommended Fungicide paste (Cabendazim : Copperoxychloride: Linsed oil 1:2:9 ratio)			85.0
		T3: Scarification followed by Pasting with Cow dung, soil and linseed oil mixture			36.3
<i>Feed back: Cabendazim : Copperoxychloride: Linsed oil 1:2:9 ratio produced excellent results and Kendra has laid FLds on the same.</i>					

OFT-6: Soil test based nutrient management in apple.							
Crop/enterprise	Prioritized Problem	Details of technology	Source of Technology	No. of Trials	Yield (t/ha)	Fertilizer input cost	% Decrease in cost of cultivation (Fertilizer)
APPLE	Nutrient Imbalance	T1: Farmers Practice(Indiscriminate use of chemical fertilizers)	SKUAST-Kashmir	05	13.7	Rs. 21200	--
		T2: Recommended fertilizer Dose.			14.3	Rs. 12150	74.4
		T3: Soil test Based Fertilizer dose			14.9	Rs.11210	89.1

OFT-7: Soil and foliar application of potassium for colour improvement in apple

Crop/ Enterprise	Prioritized Problem	No. of trials	Details of Technology	Source	% Colour development on Fruit			Grade (%)			Net Returns (Rs)
					Colour on ¼th of fruit	Colour on ½ th of fruit	Colour on ¾ th to full fruit	A	B	C	
Apple	Poor colour development in red delicious	03 (15 Trees each)	T ₁ : Farmers Practice (Very low rate of appl.)	-	11.7	61.5	26.8	62	36	02	451000
			T ₂ : : Potassium Management(Soil and foliar)	SKUAST- K	6.4	49.0	44.6	73	25	02	596500

OFT-8: Clinical Management of Foot rot

Species	Title of OFT	Technology options	No. of cases	Recovery : Disappearance of clinical signs	
				Demo	farmers practice
Sheep	Clinical Management of Foot rot	T ₁ = Farmers Practice (Applying turmeric, mud, repeated washing with water) T ₂ = Treating with antibiotic (Enrofloxacin 10 mg/Kg Bd Wt. Foot bath ZnSO ₄ or CuSO ₄ as 10% solution.	20	79	12

FRONLINE DEMONSTRATION PROGRAMME ON FIELD CROPS

Crop	Technology demonstrated	Variety/ critical input	Farming situation	No. of Demo.	Yield (q/ha)				% Increase	Economics (Rs./ha)		
					Demo			Check		*Net Return		Additional Income Over farmers' Practice
					H	L	A	Demo		Check		
Paddy	Farmers own seed	Seed and technique	Irrigated	60	68.3	56.6	64.2	57.4	11.8	127564	116574	10990
	System of rice Intensification	K-448	Irrigated	3	79.5	68.9	73.6	63.8	15.3	128085	126640	1445
Maize	Maize Variety	SMC-3	Irrigated/ Rainfed	70	49.2	37.6	44.3	38.7	14.4	86913	75929	10984
Brown Sarson	Variety	Shalimar Brown sarson -1	Irrigated	25	13.8	8.9	11.6	8.9	30	36352	28953	7399
Oats	Variety	SKO-96	Irrigated	50	487	429	475	376	26.3	37588	29690	7898

Net profit includes the income from paddy straw and maize Stover

Frontline Demonstrations on Fruit crops

Crop	Technology demonstrated	Critical input	Farming situation	No. of Demo.	No. of plants	Per cent recovery/yield (MT/ha)		Additional cost of cultivation /ha	Additional income /ha after ducting the additional cost of cultivation
						Demo	Check		
Apple	Management of cankers	Fungicide paint	Irrigated	5	50	88%	12%	-	-
	Calcium and Boron Management	Calcium Chloride and Boric acid	Irrigated	5	50	14.4	10.7	Rs.31700/ =	Rs. 153290= =
<p><i>Cabendazim : Copperoxychloride: Linsed oil 1:2:9 ratio produced excellent results and Kendra has laid FLds on the same. Calcium boron spray is adopted by majority of farmers in the district now</i></p>									

FLD on Clinical management of mastitis

Enterprise	Breed	No. of animals treated	Critical input	Recovery	
				Demon.	Local check
Cattle	Crossbred, Jersey dairy cow	10 animals	Medicines: Treatment with antibiotic like Enrofloxacin @ 6mg/Kg Bd Wt at 12 hourly interval or Gentamicin @3 mg/Kg Bd Wt at 12 hourly interval up to 3 days Antiinflammatory agents like Melonex 10 ml o.d . Acidifying agents like sodium Citrate orally with water upto 60-80 grams for about 3 to 7 days.	72.0%	12%

Enterprise	Breed	No. of animals treated	Critical input	Recovery: Disappearance of clinical signs and standing up of the animal.	
				Demon.	Local check
Cattle	Crossbred, Jersey dairy cow	13 animals	Medicines (Mifex 200-400 ml i.v and s.c , Tonophosphon, Vitamin B injections, inj. Avil 10 ml i.m, Vitamin D3 @ 8mg i.m or 24 lac units 72 hours prior to expected delivery date. Repeat if not delivered within 72 hours. Alternatively ammonium chloride @ 30 g with aqua orally daily for three weeks prior to expected date of calving or single dose 3-10 days before calving.	95.0%	8%

TRAINING/AWARENESS PROGRAMMES CONDUCTED DURING THE YEAR 2017-18

A. FARMER/FARM WOMEN

Thematic area	Crop / Enterprise	Training Course Title	No. of Courses	No. of participants
Crop Production	Paddy	1. Improved Practices for quality seed production/Farmers own seed production 2. Modified Protected nursery in rice 3. Nutrient and water Management in rice	03	73
	Maize	1. Practices for increasing maize yield under irrigated conditions 2. Moisture conservation practices and agronomic practices for maize under rain fed conditions. 3. Symptoms and correction of plant nutrient deficiency	03	52

Thematic area	Crop / Enterprise	Training Course Title	No. of Courses	No. of participants
Crop Production	Oilseeds	1.Non monitory inputs for improving yield of oilseed 2.Importance of S nutrition in oilseeds	02	46
	Oilseeds, pulses, fodder crops	1.Productivity and profitability of different cropping systems under Kulgam conditions 2.Importance of legumes in sustainable Agriculture	02	59

Thematic area	Crop / Enterprise	Training Course Title	No. of Courses	No. of participants
Horticulture	Apple	Planning and layout for establishment of apple orchards for both traditional and HDP	02	27
		Pollination management in temperate fruit crops	01	75
		Scientific training and pruning of apple in both young and old orchards	01	187
		Nutrient deficiencies and fertilizer management in fruit crops.	02	44

Thematic area	Crop / Enterprise	Training Course Title	No. of Courses	No. of participants
Soil Health and Fertility	Apple	Soil and leaf sampling techniques for fertilizer scheduling.	3	183
		Importance, preparation and use of organic inputs	3	140
	Agri and Horti.crops	Integrated Nutrient management in field crops.	5	401
	Agri & allied	Soil health management	4	361

Thematic area	Crop / Enterprise	Training Course Title	No. of Courses	No. of participants
Animal Science	Live stock	Integrated livestock farming	2	86
		Dairy cattle management	4	61
		Low cost balanced feed formulation for dairy cattle	5	55
		Dipping, deworming, dosing and vaccination of livestock	3	58
		Backyard Poultry farming	3	66
		Disease Management in livestock	2	46

B. TRAINING FOR RURAL YOUTH DURING

Thematic area	Crop / Enterprise	Training Course Title	No. of Courses	participants
Horticulture Production	Fruit crops	Nursery raising techniques for raising quality planting material	01	20
		Canopy Management in fruit crops	01	23
Soil Science	Agri and Horti.crops	Scientific Methods of soil and plant tissue sampling and testing in field and fruit crops	01	10
Livestock Production	Dairy animals (Cross-Bred cows)	Opening of dairy, sheep and poultry units	03	66

Other Extension programme

S.No.	Extension programme	No. of programmes or activities	No of Participants
1	Field Day	4	99
2	Farmer Scientist interactions	19	1304
3	Kisan Ghosthi	5	390
4	Kisan Mela	1	117
5	Exhibition	4	319
6	Plant/Soil health/Animal health camps	5	327
7	Method Demonstrations	17	151
8	Exposure visits	15	581
9	TV/Radio Programmes	4	--
10	Scientists visits to farmers field	85	236
11	Farmers Visit to KVK for advisory	2911	2911
12	Mobile advisories	1393	1393

STATUS OF SEED AND PLANTING MATERIAL AT KVK-KULGAM DURING 2017-18

Name of Crop	Variety	Quantity (q)
Rice	Jhelum, Mushkebudgi and Kamad	12
Maize	SMC-3	8
Oats	SKO-96	10
Soybean	Shalimar Soyabean	8
Pulses	Cowpea/Moong	2.5
Total Seed	Cereals/fodder crops and oilseeds	40.5
*Planting material	Red velox/Red Chief/ Origon super/ grainy smith/ malies delicious Pollinizers/M-9 root stock	3000/=No

Revolving fund generated during the year: Rs. 493854