

*Directorate General
Agriculture Extension
Khyber Pakhtunkhwa Peshawar*



*A Passage of Progress and Prosperity
Annual Report 2019-2020*

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Acknowledgment

Agriculture plays an important role in the economy of our Province. It is the first profession necessarily adapted by human and its extension taught by the almighty to Noah the apostle of God before Deluge. The profession that has the responsibility of food production not only for mankind but for the cattle as well, is a continuous worship blessed by Almighty. The people involved in this auspicious profession are fighters; fighters against the hunger and poverty which are mother of all evils. It is the science, art and practice of cultivating plants and livestock. It is the main stay of country economy. New technologies are developed through research for development in a sector but these technologies can only be fruitful if reached to the end users and /or applied accordingly. In order to transfer new technologies to the farming community, the extension services in public and private sector perform this basic task and component of development process. It receives relevant information from the agricultural education system and feeds back field observations to this system. Such extension systems encourage the empowerment of farmers in various ways, including participation in program planning and decision making.

Agriculture Extension is recognized as a potent and critical force in the development process. It has been defined as a service or system which assists farm people through educational procedures in improving farming methods and techniques, increasing production efficiency and income, bettering their levels of living, and uplifting the social and educational standards of rural life.

In this report a concise comprehensive data regarding the activities of agriculture extension department is presented. While compiling this report, efforts have been made to highlight the role of Agriculture Extension in the economy of the province and its future prospects in rural development. The report indicates that there is a great potential in this sector which if exploited can reduce the poverty in the province and improve the living standard of the farmer.

The report indicates that the provincial government, through Agriculture Extension department has been working efficiently and effectively for the benefits of farming community in the province. Therefore, we feel honor in serving this poor segment of the society. The report is not exhaustive, any comments and constructive criticism for improvement in future publication would be appreciated and welcomed. All those who took part in a great deal of dedicated work in the preparation of this report deserve for compliment.

DIRECTOR GENERAL

Secretary Message

Mr. Muhammad Israr



Indeed, it is a great honour and privileged for me to share few words. Agriculture employing above 40 percent of the labour force and contributing more than 20 percent to provincial GDP, is one of the key drivers of growth and an excellent opportunity to practice the diversification into areas with comparative advantages of climate. The role of Agriculture Department is to ensure food security, poverty alleviation and to generate employment opportunities through achieving higher growth rate in this vital sector of the economy. The Department is striving for achieving the future vision i.e. to meet the challenges of 21st century and to develop a vibrant agriculture sector that promotes value addition and helps taps international market for agriculture produce. The line departments of Agriculture include Agriculture Extension, Agriculture Research System, Livestock and Dairy Development, Livestock Research and Development Department, Veterinary Research Institute, On-Farm Water Management, Soil Conservation, Agricultural Engineering, Cooperatives, Crop Reporting Services and Fisheries Department. The line departments are all mandated for ensuring effective service delivery at the farmers' doorsteps and provide all out support for the promotion of agriculture sector in the province.

Directorate General Agriculture Extension Department Khyber Pakhtunkhwa

Introduction

Agriculture Extension service is indispensable and it offers more than just expert assistance in improvement of production. It took Khyber Pakhtunkhwa over decades to reach comprehensive institutionally established and organized service. It plays a crucial role in boosting agriculture productivity, increasing food security, improving rural Livelihood and promoting agriculture as an engine of pro-poor economic growth. This department was established in -----. Since then it serves as a leading source of information to the farming community.



Mission Statement

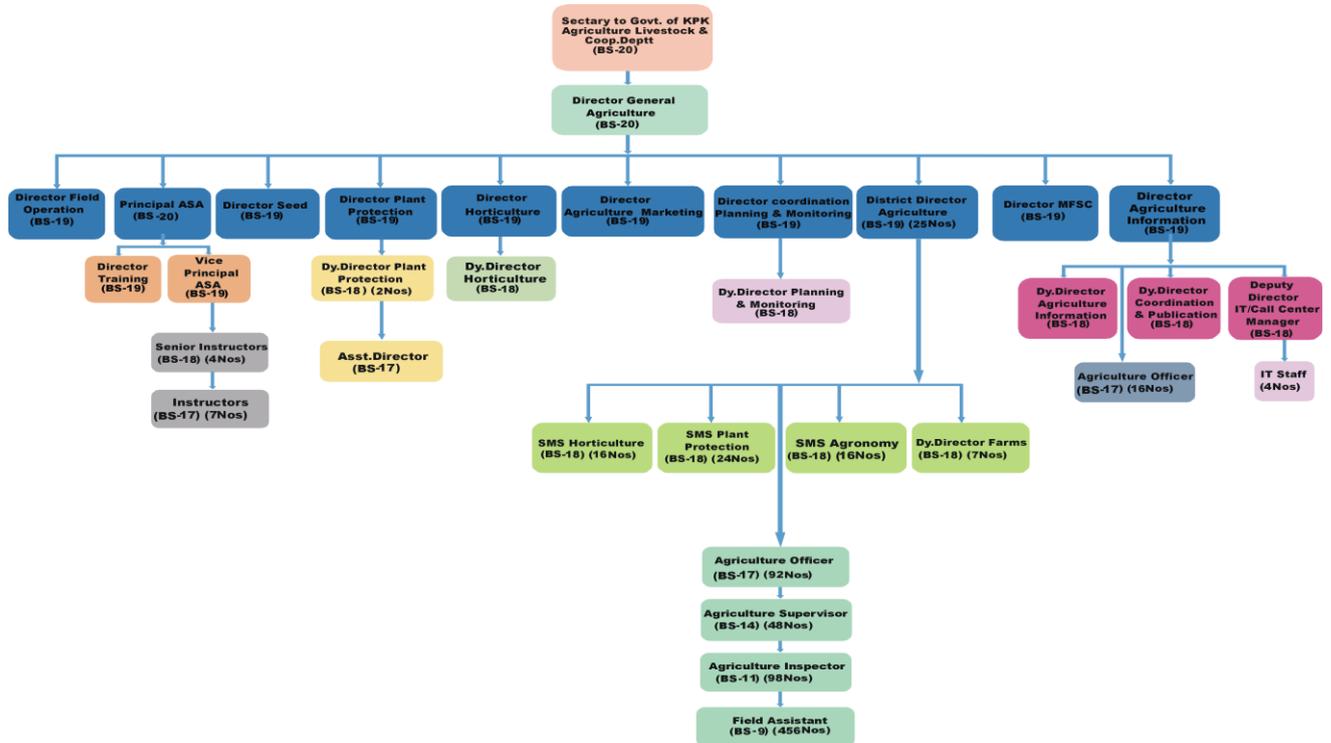
Improving living standard of farming community through increase in farm income by perceiving potential output with an acceptable quality on sustainable basis.

Functions

The Directorate of Agriculture Extension undertakes to accomplish the following assigned tasks for the development of agriculture sector and improving the living standards of farming community.

1. Dissemination of latest agricultural production technology to the farmers through personal contacts, meeting, trainings, farm demonstration, field days etc.
2. Advisory Services in insects’/ pest management and horticultural activities.
3. Organize farmers for collective solution of agricultural problems Through MFSC (Model Farm services Centre).
4. Provision of improved agricultural inputs (seed, fertilizers, pesticides, agriculture machinery) to the farmers through MFSC.
5. Production and distribution of certified seeds and fruit plants.
6. Quality control and regulatory measures of Agricultural inputs (Fertilizer, Pesticides, Seeds).
7. Marketing of agriculture produce through Regulated Markets.
8. Dissemination of smart agriculture through print, electronic media and ICT (Information and Communication Technology).

Organogram



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S.No.	Name of Post	BPS	Total
1	Director General	20	1
2	Principal, ATI	20	1
3	DDA's/ Dir. Agriculture FATA	19	27
4	Director Field Operation	19	1
5	Director Agri. Info	19	1
6	Vice Principal	19	1
7	Director Training	19	1
8	Director HQ	19	6
9	Director Information	19	1
10	Dy. Director HQ	18	6
11	DDA Merged Area	18	7
12	Senior Instructor	18	4
13	Dy. Director IT	18	1
14	SMS Merged Area	18	8
15	SMS PP	18	25
16	SMS Agro & Ext	18	16
17	SMS Horticulture	18	17
18	DD Farms	18	7
19	Deputy Director Information	18	1
20	DD. Coordination	18	1
21	Assistant Director	17	1
22	Agriculture Officer	17	128
23	APPO Merged Area	17	2
24	Assistant Publicity Officer	17	1
25	Extra Assistant Dir. (E&M)	17	1
26	Planning Officer	17	1
27	AHO	17	2
28	ASO	17	2
29	GIS Analyst	17	1
30	AO Public Relations	17	1
31	MIS Manager	17	1
32	Mobile App Developer	17	1
33	Network Administrator	17	1
34	Producer	17	1
35	Instructor	17	7
36	Instructor Islamiat	17	1
37	Accounts Officer	17	1
38	AAO	17	3
39	Superintendent	17	18
Total Officers			307
Total Officials			3083
Grand Total			3390

DIRECTORATES

- **Directorate Field Operation:** Second in command; Supervision of Extension Activities; Assist DGA-E in all policy matters.
- **Directorate MFSC:** Supervision & monitoring of MFSCs /FSCs activities in the province.
- **Directorate Seed:** To ensure availability of quality seed through production at Govt. Seed Farms/Progressive Growers etc.
- **Directorate Marketing:** Agri-business Development, Diversification & implementation the regulation of Agricultural Produce Market ACT 2007/Rules 2011.
- **Directorate Plant Protection:** Regulatory Authority for quality control of pesticides /fertilizers, standardization and registration of firms/dealers.
- **Directorate of Horticulture:** Promotion of horticulture activities through latest technology.
- **Directorate Planning & Monitoring:** Planning new innovations/proposals to the government Review Dev. Projects & Field Activities etc.
- **Directorate of Bureau of Agricultural Information:** Dissemination of modern Agricultural Technologies through Print, electronic media and ICT.

Overview of Routine Activities

Directorate of Model Farm Services Centre (MFSC)

Introduction

- The Model Farm Services Centre is farmer owned, farmer financed, farmer managed, service oriented as well as income generating system of cooperative farming.
- Model Farm Services Centre is an independent entity to run the affairs of farming community by themselves. A forum which empowers the farming community in decision making and active participation in policy frame work.
- The MFSC aims to provide all sort farming related services to the community under one roof.
- The elected management committee runs the affairs of MFSCs taking all the members on board.
- The MFSC make the availability/supply of required inputs under their resources to member farmers on priority and transparent basis.
- All the members of MFSC possess equal rights in every sort of services availability.



Objectives

- To empower the farming community.
- To increase the income of the MFSC members on a sustainable and equitable basis
- To provide equal facilities to all members, on a transparent basis
- To Identify and prioritize problems and efficiently plan the use of the available resources.
- To establish a transparent and sustainable service delivery system free from exploitation and managed by the farmers / members themselves
- To develop linkages with governmental and non-governmental organizations.
- To enhance the latent capabilities and potentials of the farming communities.
- To promote income-generating activities conducted by women organizations.

Progress and achievements of Model Farm Services Centre(MFSC) till December 2020

• Farmers' Enrolment	208,641 Numbers
• Amount from Registration	Rs. 20,864 Mill
• Amount of Farmers' Share	Rs. 103.390 Mill
• One Time Matching Grant Provided by Govt.	Rs. 31.218 Mill
• Endowment Fund	Rs. 96.190 Mill
• Area benefited through Machinery Rental (@ 1000 Acres/annum/District)	Rs. 175000 Acres
• Total Income generated from Machinery	Rs. 80.615 Mill
• Total income from sale of inputs/ Services	Rs. 110.998 Mill
• Total income of MFSC	Rs. 443.637 Mill

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2014 vs. 2020

Particulars	2014	2020	%age change (increase/Decrease)
Registration	71136	208641	193%
Amount from Registration	7.364	20.864	183%
Farmers' Share (Mill Rs.)	36.885	103.391	180%
Matching Grant (Mill Rs.)	31.219	31.219	0%
Endowment Fund (Mill Rs.)	96.19	96.19	0%
Income from Machinery (Mill Rs.)	8.375	80.005	855%
Total income (Mill Rs.)	94.284	443.637	371%
Area Benefited (in Acres)	20,000	175,000	775%

Critical Review

S.No	Particulars	Quantity
1	Total Number of Farms	15,39,829 Nos
2	Total small land holding i.e. 1 Acre to 12.5	14,66,733 Nos
3	Govt. Investment on MFSCs (in 14 years i.e. 2005 to 2020)	809.95 Mill
4	Total MFSCs	24 Nos
5	Total Sub Centers	48 Nos
6	Total Centers	72 Nos
7	Per Centre investment	11.250 Mill
8	Per Year/FSC Government Investment	0.800 Mill
9	Per Annum /Small Farm Govt Investment	39.444 Mill
10	Number of Enrolled farmers with FSC/MFSC	208,641 Nos
11	Number of Tractors+ Allied implements with FSC/MFSC	155 Nos
12	Average utilization of a tractor on Farm/ Season days	15 days
13	Availability of Tractors + Allied Implements to number of registered farmers	1346 Per tractor

Directorate of Seed

History/Execution

- Agriculture Development Authority (ADA)
- Started in 1973 through an ordinance
- Mandate to distribute Seed & Fertilizers
- Overhead expenditure increased
- Poor Performance
- Wound up in May, 2001.

Frontier Seed Industry

- Started in July, 2001.
- Run by three Organizations
- Agriculture Extension, Agriculture Research and PODB as joint venture.
- Mandated to bridge the gap created due to winding up of ADA.
- The assets of ADA were taken over.
- Rs.130.000 million as one time grant.
- Worked for three years (2001-02 to 2003-04).
- The revolving fund increased from 130.000 m to 151.815 m.
(Audit report 2004)



Frontier Seed Cooperation/ADF

- Approved by PDWP on 01/05/2005 (same grant)
- Started in 2004-05
- Changed to ADF by the PSC on 07/12/2005.
- ADF functioning till date as per said PC-1 (Mechanism)
- Time required for completion of the project: Initially for one year 2004-05 and to be continued
- Management Structure: PSC and Agriculture Extension.

Functions of ADF

- Procurement of pre basic and basic seeds.
- Wheat, maize, rice and pulses.
- Multiplication of pre basic and basic seed at government farms.
- Multiplication of basic seed with progressive farmers.
- Procurement, processing and distribution of certified seed to farmers through mfsc, department and private network.
- Strengthening of public private partnership in seed production and distribution.
- Training of farmers on seed production technology.

Progress report of agriculture development fund (ADF) for the year 2019-20

1. Procurement of Pre-Basic and Basic seed for seed multiplication from Research Institutions

S.No	Name of crop	Quantity of seed procured in M.Tons
1	Wheat	120.00
2	Maize	4.00
3	Paddy	5.00
4	Chickpea	1.00
5	Mung bean	0.70

2. Multiplication of Pre-Basic and Basic seed at Govt: Seed Farm and with progressive growers.
(In acres)

S.No	Name of crop	Seed multiplication at Govt: Seed Farms	With progressive growers	Total
1	Wheat	1857	12500	14357
2	Maize	40	60	100
3	Paddy	430	0	430
4	Mung bean	7	12	19

3. Procurement of certified seed in M. tons

S.No	Name of crop	From Govt: Seed Farms	From progressive growers	Total
1	Wheat	1540	1610	3150
2	Maize	30	50	80
3	Paddy	60	0	60
4	Mung bean	0.45	1.40	1.85

4. Distribution of certified seed.

S.No	Name of crop	Seed distributed in M.tons
1	Wheat	6290
2	Maize	80
3	Paddy	52

Directorate of Agriculture Marketing

Functions/Mandate

- Working out cost of production and economics of crops to be used by various forums for framing production & price policies and fixation of prices.
- Coordination & correspondence with Pakistan Tobacco Board, Sugarcane Control Board, Financial Institutions, Agriculture Research & Crop Reporting Services in the relevant matters.
- Coordination & correspondence with farmer's organization.
- Collection of retail and whole sale prices & transmission to the concerned quarters.
- Supervision, coordination & correspondence with market management of 2 regulated markets as per Agriculture Produce Markets Act, 2007.
- Drafting of new Agricultural marketing policy & Agriculture marketing Act, under the reforms initiatives of the Government.

Activities

Government Controlled Markets

- The Government has established two regulated fruit & vegetables Markets at Peshawar and D.I. Khan under the Asian Development Bank loan program during the period 1989 -1993.
- These markets are regulated through notified market committees and governed by the Agriculture Produce Markets Act, 2007 and Agriculture Produce Markets General rules 2011.
- Summary under process for establishment of 15 additional Markets Committees.

Kissan Markets

- Farmers' Markets operational at 65 Locations Established Since Nov 2019.
- Functioning with COVID 19 SOPs.
- Business Quantum till Date Approx. Rs. 915.086 Million.
- Lower Comparative Prices.



Kissan Bazar in Khyber Pakhtunkhwa

Total Markets: 80



Highcharts.com

Online Delivery of Fruits & Vegetables

- Online Delivery operational in 12 settled Districts & 3 Merged Districts.
- Quantum of Business till date Rs. 95.0328 Million
- Online Delivery in settled districts, Kohat, Swat, Haripur, Peshawar, Abbottabad, Mardan, D.I Khan, Bannu, Charsadda, Mansehra, Nowshera, Swabi
- Online Delivery for NMDs started in following districts, Mohmand, Bajaur and Khyber.



Ways Forward

- Summaries for 15 Markets under Agriculture & Livestock Produce Markets Act 2007 to be approved by cabinet
- New Market Committees with better representation to be established
- District Administration will be given access to the MIS
- Website: www.zarat.kp.gov.pk
- Admin: www.zarat.kp.gov.pk/admin
- Android App: **Agriculture Extension KP**



Directorate of Plant Protection

Functions/Mandate

- Legislation, Policy Formulation and Sectoral Planning regarding.
- Protection against Insects Pests.
- Quality Control of Pesticides.
- Quality control of Fertilizers & Micro Nutrients.
- Advisory services regarding plant protection on farmers' field through district extension services.
- Monitoring of Agriculture inputs like Fertilizers, Pesticides and Micronutrients through field extension staff.
- Pest scouting surveys of insects and plant diseases in coordination with Research for major crops.
- Trainings of pesticide dealers and fertilizers dealers, farmers and extension workers on pesticides. Issuance of licenses to pesticide and fertilizer dealers. Promotion of New integrated Pest management technologies and other extension activities through method/result demonstration/farmers gathering/field days/workshops/Farmer field schools/seminars and trainings.
- Supervision of Sales and R&D components of Pesticides and fertilizers Companies in KPK.
- Documentation and registration of Pesticides and Fertilizers Companies.
- Standardization and Registration of local and imported pesticides, supervision of trials under field condition, coordination with Research system, collection of data regarding the same, collection of trial data its evaluation and submit recommendation about the approval to the central department.
- Administration of the following laws and rules framed there-under:
- Agriculture Pesticide Act/ bill for KPK, 2014.
- Fertilizer control bill/Act for KPK, 2014.

Physical progress for the year 2019- 2020

Standardization Committee (Sub APTAC)

A meeting of Pesticides Standardization Committee (Sub-APTAC) was held on 23rd January 2020, under the Chairmanship of Minister for Agriculture Livestock and Cooperative Department, Khyber Pakhtunkhwa. A total of 52 trials results of different Fungicides, Insecticides, Seed Care and Herbicides products, presented to the committee. Analysis and evaluation of field trials results of candidate's pesticides for New Registration (38) and Label Expansion (12) and Revised Dose (2) were discussed in detail. The Scientists, who have conducted the trials, explained the methods of application and results. After Threadbare discussion, the Committee recommended all 52 trials for approval by the concern competent authorities.

- Registration New and Renewal of Pesticides and fertilizers Firms/Distributors.
- Pesticides New = 12
- Pesticides Renewal = 14
- Fertilizer New = 11
- Fertilizer Renewal = 07
- Total Revenue generated during the period: 3,373,000

Anti-adulteration Report

- Total numbers of dealers registered for pesticides are 1,898 and for Fertilizers are 1,721.
- Directorate of Plant Protection Khyber Pakhtunkhwa in collaboration with the District Staff checked 7370 Pesticide & 6458 Fertilizer Dealers.
- 303 Nos. Pesticides & 151 Fertilizer Samples are collected during checking.
- 1 Pesticides Sample declared substandard and 93 samples are under process where as 98 declared fit.
- 43 Samples of Fertilizers declared fit whereas 45 samples are under process and one declared substandard.

CABI Activities

Plant wise Program in KPK

Preamble:

CABI (Centre for Agriculture Bioscience International) through Plant wise, global program aims to develop the capacity of local and national stakeholders to establish and manage Plant Health Clinics, to improve diagnostic services for crop pests and diseases, and to provide supporting information through the Plantwise knowledge bank to improve food security and incomes of rural farming communities.



Through its regional Centre, CABI On 15 November 2018, support implementation of Plant Health Clinics and to train Certified Plant Doctors in **Nine** districts including **Peshawar, Mardan, Kohat, Swat, Bajaur and Haripur, Charsadda, Buner and Nowshera** in Khyber Pakhtunkhwa Province through Memorandum of Understanding between **CABI International** and **Directorate of Agriculture Extension Khyber Pakhtunkhwa**.

The Directorate of Agriculture Extension Khyber Pakhtunkhwa (**Local Implementing Organization**) (**LIOs**) is responsible to provide agriculture extension services and early Warning about pests, acknowledges that providing crop management services to farming communities through implementation of Plant Health Clinics and knowledge management is an innovative, sustainable and cost effective system, in line with achieving its (LIO's) objectives.

Activity	Compliance Status		Remarks
To Train and Certify the Plant Doctors from 09 Selected Districts mentioned, i.e. Peshawar, Mardan, Kohat Swat, Bajaur, Haripur, Charsadda, Buner and Nowshera.	160 Plant Certified Plant Doctors		Training Conducted by TOTs from KPK
	Peshawar	35	
	Mardan	35	
	Kohat	20	
	Swat	35	
	Bajaur	20	
	Haripur	15	
	Charsadda	15	
	Buner	13	
	Nowshera	11	
	Total	199	
To Establish and run Minimum 31 numbers of Plant Health Clinics in 9 Districts.	Peshawar	06	The Functionality was Restricted by Covid-19 in all Districts and Locust Control in kohat, Peshawar will Commence soon.
	Mardan	05	
	Kohat	04	
	Swat	05	
	Bajaur	02	
	Haripur	03	
	Charsadda	02	
	Buner	02	

	Nowshera	02	
	Total	31	

Impact

The Spirit of Program is valid, as it will change the mindset of the farming community to deal every issue with the use of pesticide. It will also promote the judicious use of pesticides hence lower the cost of production leading to safe productivity and will lead to socio-economic uplift of the farming community.

Anti-Locust Campaign

Locust is one of the most infamous but globally widespread insect pests. Locust outbreak in 2020 was the first major outbreak since 1993 that has been originated from part of land which was unapproachable / inaccessible in Saudi Arabia and was left uncovered from spraying pesticides. Thereafter the locust swarm flew through Iran into Baluchistan, Sindh and Punjab provinces. It entered during the 3rd week of January 2020 into Darban Tehsil of District Dera Ismail Khan, Khyber Pakhtunkhwa. Now it has also been reported from Sub division Jandola, District Tank and South Waziristan.

Minor outbreak was observed in Punjab, Sindh and Baluchistan provinces during 2005 and 2007. Thereafter it was also observed during year 2010, 2011 and 2016. But no major attack of the Locust Swarm was seen since 1993 in Pakistan.

The Government of Khyber Pakhtunkhwa have taken the following actions to curb the Locust threat in the province.

		Districts	Total Area Surveyed (Ha)	Total Area Sprayed (Ha)
First Meeting	14th January 2020	Dera Ismail Khan	1120500	15339
First Advisory issued	16th January 2020	Tank	789160	9267
Meeting with Pesticide Companies	23rd January 2020	South Waziristan	1452695	3017
First Occurrence in KP	25th January 2020	North Waziristan	1322500	5045
Control Measures Started	26th January 2020	LakkiMarwat	1157700	13811
Emergency Declared	28th January 2020	Bannu	764930	88
Contingency Plan issued	28th January 2020	Karak	801780	3410
Summary Approved (Rs 450 million)	10th February 2020	Kohat	1292600	3760
Involvement of Pak Army	1 st March 2020	Kurram	919000	1500
Emergency Extended to Whole Province	16th April 2020	Hangu	555699	15
		Nowshera	1148775	524
		Orakzai	764940	3528
		Peshawar	488546	121.2
		Khyber	1080552	3050
		Bajaur	1197300	60
		Total	14856677	62535.2

As a result of this effective and Prompt central Operation against Locust, the standing Crop of Wheat, Grain, vegetable and fodder crops of Khyber Pakhtunkhwa with special refernce to Southern districts were saved that could cause Famine.



Directorate of Horticulture

Horticulture is considered as the production and marketing of Fruit, Vegetable, and Flowers.

Function/Mandate

- To increase overall production and value of horticulture crops.
- To create an environment facilitating interface among the growers' traders and exporters.
- To minimize the pre and post-harvest losses through strategic planning.
- To establish gene pool in the public and private sector.
- To ensure availability of certified plant materials.
- To build the capacity of all the stake holders, extension workers, businessmen and farmers including women.
- To increase income of the farmers and entrepreneur and all the stakeholders involved in the horticulture sector.
- To promote mechanism for public private partnership.

Horticulture in Khyber Pakhtunkhwa

- The Climatic condition of the Province is very ideal for growing of all types of fruits and vegetable. This sector plays an important role in socio-economic development of the farming community.
- The southern District having a typical sub-tropical climate and hence is ideal for growing of sub-tropical fruits like Mango, cherry, dates, guava, Melon, Water melon and Ber etc.
- Upper areas like Swat, Buner, Shangla are most suitable for apples, Peach, plum, persimmon, and areas like Dir, Chitral are most suitable for almonds, apricot etc.
- As for vegetables are concerned, major vegetables of the province are Brinjal, Tomato, Chilly, Potato, Okra, Cabbage, Cauliflower, Radish, Carrot, Sweet potato, Sponge Gourd, Bitter Gourd, Pointed Gourd, Bottle Gourd, Cucumber, Pumpkin, all types of green, French Bean etc.
- The Directorate looks after all the business and promotes new interventions like establishment of off-season vegetable promotion in tunnel technology kitchen gardening to the vegetable growers and impart training to the farmer to enhance their production.

Major Horticulture Value Chain in Khyber Pakhtunkhwa

Fruits value chain

- Central Area of KP
(Plum, Peaches, Apricot, Pear, Citrus, Persimmon and Litchi)
- Southern Area of KP
(Dates, Mango, Guava, Melon)
- Upper Malakand Area of KP
(Apple, Plum, Peaches, Apricot, Citrus, Walnut, Almond and Persimmon)
- Hazara Area of KP
(Litchi, Citrus, Guava, Loquat)
- Vegetables value chain
Brinjal, Tomato, Chilly, Potato, Okra, Cabbage, Cauliflower, Radish, Carrot, Sweet potato, Cowpea, Ridge Gourd, Bitter Gourd, Small Gourd, Pointed Gourd, Bottle Gourd, Cucumber, Pumpkin, all types of greens, French Bean, Yam Bean, Runner Bean, Winged Bean, Capsicum etc.

Activities

1. Fruit Plants Produced in Govt. Fruit Nursery Farms for the Last Six Years.

Year	Malakand	Haripur	Abbottabad	Mansehra	Kohat	DIK	Swabi	Chitral	Total
2014-15	5017	15828	7573	0	3800	7491	770	10218	50697
2015-16	27562	12092	Cereals	69670	14041	4903	0	13977	142242
2016-17	33232	9295	340	4630	12346	6077	0	11514	77434
2017-18	36220	7593	399	7000	11980	5884	0	10336	79412
2018-19	29218	6052	1055	Closed	4825	5209	6900	11625	64884
2019-20	28892	7375	1274	Closed	4678	8000	8378	10336	68933

Note: Mansehra FNF started under ADP Project. So, after winding off of the project the area has been handed over to Directorate General Agriculture Research System. It is no more the asset of agriculture Extension Department.

2. Income of the Govt. Fruit Nursery Farms During the Last Six Years

Year	Malakand	Haripur	Abbottabad	Mansehra	Kohat	DIK	Swabi	Chitral	Total
2014-15	0.025	0.12	0.21	0	0.11	1.27	0.29	0.54	2.56
2015-16	0.25	0.97	0.15	1.68	0.23	1.56	0.29	0.342	5.47
2016-17	0.63	1.10	0.14	0.19	0.22	1.46	1.29	0.32	5.35
2017-18	0.60	1.13	0.14	0.32	0.23	2.30	0.62	0.42	5.76
2018-19	0.30	2.49	0.23	Closed	0.12	3.50	0.74	0.56	7.94
2019-20	0.46	0.66	1.98	Closed	0.13	2.34	1.11	0.41	7.09

Note: The above income is from fruit plants, fruits, cereals and fodder as in some FNF the barren land is brought under different seasonal crops.

Agriculture Extension in Merged Areas

Activities

District/sub division wise physical/financial mid-year review report of developmental schemes.(2019-2020)

S.No	Name of Activity	Bajaur	Mohmand	Khyber	Kurram	Orakzai	N/Wazi	S/Wazi:	S.D Pesh	S.D Kohat	S.D Bannu	S.D Lakki	S.D DIK	S.D Tank	All FATA Scheme	Target achieved 2019-20	Target fixed 2019-20
1	Fruit Orchards Laid out (Acres).	163	146		365	150	36	120								980	980
2	Fruit Plant Distri.Free of cost (No.)		1000				19332			6792						27124	33916
3	Demonstration Plots (Acre)	691	4384		74	136	402	200							600	6487	6487
4	Land Reclamation (Acre)		475		806											1281	1281
5	Wheat Seed Distribution (Acre)	369		810	277	902		4000	404	702		220			1220	8904	8904
6	Maize Seed Distribution (Acre)			443		451		2264	293						1000	4451	4451
7	Vegetable Seed Distribution (acre)					410	120	662	247	320					1004	2763	2763
8	Construction of FSC Building (No.)															0	1
9	Tunnel Installation/ Demonstration (No.)		39	50	13			119								221	280
10	Vertical Net Farming (Acre)	13		42			15									70	70
11	Olive Grafting	55000														55000	55000
12	Tool Kits	495													1020	1515	1515
13	Training / Exposure visits/FFS		5	2												7	7
14	Field Days (Nos.)		1		2											3	3
15	Scholarship. (Nos.)														38	38	38

Directorate of Planning and Development

Vision

Directorate of Planning and Development is the backbone of an organization and plays a vital role in growth and development of an organization.

Functions/Mandate

The main functions of the Directorate are:

- Identification, need assessment and survey/feasibility of the developmental projects of the Department.
- Preparation and formulation of the developmental projects plans/proposals on PC-I Proforma.
- Ensure smooth implementation and completion of the ongoing projects with in approved cost and time.
- Overall supervision, monitoring and evaluation of quality and quantity of the project implementation.
- Guidance and Facilitation of the project staff in preparation of Work Plan/Cash plan, Quarterly Progress Report and Supervision / Monitoring of Developmental projects.
- Maintaining liaison and coordination with the Provincial Government with a view to speed up execution of the approved projects.
- The compilation of Public Sector Development Program (PSDP)
- The appraisal of proposals for new development schemes.
- Guidance and Facilitation of the project staff in preparation of Project Completion Reports.
- The monitoring of the on-going projects and cross-checking of monitoring data on Individual.

Annual Review of ADP/PSDP 2019-20 of Agriculture Extension

S.No:	Sub Sector	No. of Schemes			ADP Allocation			Revised allocation			Releases			Expenditure from 01-07-2019 to 30.06.2020			Percentage Utilization on releases / Allocation			Previous year Percentage Utilization
		Ongoing	New	Total	Ongoing	New	Total	Ongoing	New	Total	Ongoing	New	Total	Ongoing	New	Total	Ongoing	New	Total	
1	Agri Extension	3	4	7	233.150	266.000	499.150	79.605	158.168	237.773	144.159	305.957	450.116	78.605	205.02	283.625	54.53	67.009	60.768	80
										R	79.605	207.020	286.625				98.74	129.622	114.183	95

Annual development programs-2019-20

Ongoing projects

Public Sector Development Program (PSDP)

Prime Minister of Pakistan announced Agriculture Emergency in the Country to reduce Poverty and improve socio economic status of the farmers. In this regard Public Sector Development Program was launched, and under Program Four projects were launched in Khyber Pakhtunkhwa.

1. Productivity Enhancement of Sugarcane in Khyber Pakhtunkhwa.
2. National Oil Seed Enhancement program in Khyber Pakhtunkhwa.
3. Productivity Enhancement of Wheat in Khyber Pakhtunkhwa.
4. Productivity Enhancement of Rice in Khyber Pakhtunkhwa.

Objectives

- To enhance sector productivity and competitiveness by activities such as improving the technology dissemination and trade promotion.
- To address food security and incomes needs of the vulnerable sections of the population and targeted actions are needed to improve food security, reduce poverty and enhance the role of women.
- To improve national resource management, adaptation to climate change and disaster risk management.

Productivity Enhancement of Sugarcane in Khyber Pakhtunkhwa

Location

DI Khan, Tank, Bannu, Peshawar, Nowshera, Charsadda, Mardan, Swabi, Malakand & Amp. Khyber.

Main Objectives

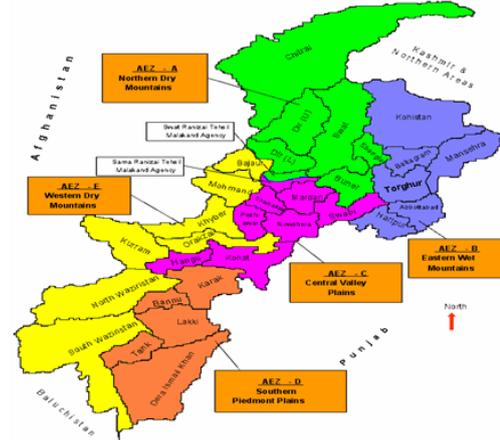
The main objective of the project is to enhance per acre sugarcane productivity to ensure food security for the growing population in the province.

Project Activities

- ❑ To provide healthy and quality Sugarcane seed to sugarcane growers in Khyber Pakhtunkhwa.
- ❑ Timely availability of 3920 Nos. of bags fertilizers (Phosphorous & Potash) to the farming community on 50% subsidized rate.
- ❑ Expansion in mechanized farming by providing 549 Nos. of different machineries (Chiesel plough, early hill up implement, planters with band fertilizer bin, billet planter, granule pesticides applicator & lazar levelers) to the farmers on experimental and demonstration purposes to convince the farmers regarding mechanized farming for boosting up the per acre yield of sugarcane crop.
- ❑ Transfer of improved technology dissemination through laying out of 700-acre demo on chip bud technology & 200 acre of demo plots on September plantation, 25 Nos. of FFS, distribution of 102500 slogans, brochures & crop calendar, 45.00 million of text SMSs / robo calls 01 No. of documentary.
- ❑ Printing of awareness material literature, pamphlets, leaflets and booklets etc.

Project Summary

❑ Project Period	2019-2024
❑ Total Cost:	Rs. 421.210Million
❑ PSDP (Federal) Share:	Rs.48.019 Million
❑ ADP (Provincial) Share:	Rs. 309.384 Million
❑ Beneficiary Share:	Rs. 63.797 Million



Annual Report 2019-2020

Cost Summary

S.No	Activities Description	Year wise Financial phasing in Million					Total	Farmer Share (50% of the total cost)	Federal Share (40% of the 50%)	KP Share (60% of the 50%)
		2019-20	2020-21	2021-22	2022-23	2023-24				
1	Subsidy on Implements	37.225	36.410	20.640	--	--	94.275	47.137	18.765	28.362
2	Subsidy on Fertilizers	6.664	6.664	6.664	6.664	6.664	33.320	16.660	6.670	10.000
3	Activities Cost	46.720	25.320	25.320	25.320	25.070	147.750	---	22.500	125.250
4	Operational Cost	71.213	18.663	18.663	18.663	18.663	145.865	----	---	145.866
A	Grand Total (1+2+3+4)	161.822	87.057	71.287	50.647	50.397	421.210	63.797	47.935	309.478
B	Federal +KP share								47.935	309.478
C	Grand Total						421.210			

Year wise plan of physical activities (Agriculture Extension component)2019-2020

Activities / output	Unit of Measurement	PC-1 Target	CFY Target by Indicator	Achievements		Cumulative Achievements Since Starts
				During Quarter	Total CFY	
Chisel plough	No	180	65			
Early Hill up Implement	No	90	35			
planter(4.5ft) with band	No	90	35			
Billet Planter	No	9	5			
Granular pesticides applicator	No	90	35			
Laser Leveler	No	90	35			
Subsidy on Fertilizers (P,K & Micronutrients)	Bags	3920	784			
D/plot on chip bud & weed control with chip bud machines	Acre	700	140	138	138	138
Mega farmers gatherings at district level	No	40	8			
Slogan books for farmers awareness	No	2500	500	500	500	500
Broachers	No	75000	15000	15000	15000	15000
Crop calendars	No	50000	10000	10000	10000	10000
Documentaries	No	1	1			
Text messages	No	3000000	600000	300000	300000	300000
Robo calls	No	1500000	300000	150000	150000	150000
Field Extension activities and print & electronic media & involvement of Research & academia, NGO, sugar mills and village level forum procurement of high technology digital information screen & related accessories	No	2	2	0	0	0
Appreciation of best sugarcane grower at District to national level	No	75	15	0	0	0
	No	5	1	0	0	0
Promotion of Sugarcane intercropping & Sept planting	Acre	200	40	0	0	0
Pest management through IPM (TOT/FFS)	No	25	5	0	0	0
Fertilizer (P&K, micronutrients)distribution	Bags	3920	784		784	784

National oilseeds enhancement program in Khyber Pakhtunkhwa

Location In twenty-one (21) Nos. of Districts in Khyber Pakhtunkhwa.

Objectives

The main objective of the project is to enhance per acre oilseed crops productivity to secure edible oil security for the growing population in the province.

Project Activities

Following intervention have been proposed in the project to boost the adoption of oilseed crops:

1. Provide subsidy @ Rs. 5000/- acre maximum up-to 20 acres on purchase of seed and other inputs. The subsidy will be provided to registered growers.
2. Fifty percent (50%) subsidy on oilseed machinery (including combined header, thresher, drills/planters etc.).
3. Dissemination of production technology through print/electronic media and through short message service (SMS).
4. Ensured availability of hybrid seed through national/multi-national seed companies and public sector research organizations.
5. By back arrangements of farmers produce through All Pakistan Solvent Extractors Association (APSEA).
6. Establishment of procurement centers in collaboration with APSEA under monitoring of government representatives.
7. Mega and mini farmers gathering at federal/provincial and district level on demonstration sites.
8. Arrangements of demonstration plots in oilseed growing areas.
9. Appreciation awards to the best growers at national and district level.



Summary

<input type="checkbox"/> Total Cost:	514.330 Million
<input type="checkbox"/> ADP (Provincial) Share:	315.518 Million
<input type="checkbox"/> PSDP (Federal) Share:	192.812 Million
<input type="checkbox"/> Farmer Share:	32.500 Million
<input type="checkbox"/> Project Period:	2019-2024

Project Cost Summary

No.	Particulars	Y-1	Y-2	Y-3	Y-4	Y-5	Total
1.	Establishment Expenses	3.460	3.460	3.460	3.460	3.460	17.300
2.	Operating Expenses	23.070	15.720	15.720	15.720	14.820	85.950
3.	Capital Expenses	85.216	87.716	75.216	80.216	82.716	410.270
	Total Cost	111.746	106.896	94.396	99.396	101.896	514.330
	Federal Share	43.314	41.374	36.374	38.374	39.374	198.812
	Provincial Governments Share	68.432	65.522	58.022	61.022	62.522	315.518
	Farmers Share	15.000	17.500	-	-	-	32.500
	Total Cost of KP Component	126.746	124.396	94.396	99.396	101.896	

Year wise plan of physical activities (Agriculture Extension component) 2019-2020

SKIM Key Indicators Activities / output	Unit of Measurement	PC-1 Target	CFY Target by Indicator	Achievements		Cumulative Achievements Since Starts
				During Quarter	Total CFY	
Subsidy on Machinery @ 50% of the actual cost (combine Header, Thresher, Drills/Planters)	No.	13	6	0	0	0
Sunflower.	Acre	20000	3000	1800	1800	1800
Canola	Acre	50000	10000	150	150	150
Sesame	Acre	5500	1000	0	0	0
Sunflower (Demo plots)	Acre	25	5	5	5	5
Canola (Demo plots)	Acre	25	5	5	5	5
Sesame (Demo plots)	Acre	10	2	0	0	0
Mega farmer Gatherings (Canola, Sunflower, Sesame) @ Rs 0.5 Million	No	70	14	1	1	1
Print media (Brushers, Charts, Phenaflex)	No.	25000	5000	5000	5000	5000
ICT (mobile text messages & Robo Calls)	Million	5.0	1.00	0.500	0.500	0.500
Documentaries on latest technologies)	No.	5	1	0	0	0
Awareness through TV Channels	No.	20	4	0	0	0

Productivity Enhancement of Rice in the potential areas of Khyber Pakhtunkhwa

Location: Twenty-five (25) Districts of Khyber Pakhtunkhwa.

Objectives

The main objective of the project is to enhance per acre rice productivity to secure food security for the growing population in the province.

Project Activities

- Introduction of hybrid rice and other high yielding varieties “Fakher Malakand, Swati 2014 and Basmati types” of rice among the farmers of the province of Khyber Pakhtunkhwa.
- Ensure supply of 336 MT certified seed to the farmers.
- Timely availability of 709 bags of fertilizers (Phosphorous & Potash) to the farming community
- Expansion in mechanized farming by providing 47 Nos. of different equipment's/ implements to the farmers to boost productivity.
- Transfer of improved technology dissemination through laying out of 240 acres' demo plots on ICM, IPM, weeds will be controlled in 14456 acre of rice crop by use of weedicides, distribution of 41500 brochures/slogan books & crop calendar, 2.00 million of SMSs / robo calls.
- To motivate farmers towards adoption of improved technology 66 Nos. of best growers' appreciation events/ceremonies will be arranged.



Project Summary

- Total Cost: 330.117Million
- PSDP (Federal) Share: 75.976 Million
- ADP (Provincial) Share: 163.341 Million
- Farmer share: 90.800 Million
- Project Period: 2019-20

Cost Summary

S.No.	Activities Description	Year wise Financial phasing in Million					Total	Farmer share (50%)	Federal Share (40%)	KP Share (60%)
		2019-20	2020-21	2021-22	2022-23	2023-24				
I	Subsidy on implements	9.200	9.200	5.600	--	--	24.000	12.000	4.800	7.200
II	Activity Cost	57.828	57.327	23.727	23.728	24.112	186.722	68.850	35.176	82.696
III	Machinery / Office Equipment's	1.695	--	--	--	--	1.695	--	--	1.695
VI	Establishment) Additional Charge Allowances @20% of the Basic pay (detail attached Annex-L)	2.343	2.343	2.343	2.343	2.343	11.715	--	--	11.715
V	Purchase of Vehicle	3.565	--	--	--	--	3.565	--	--	3.565
VI	Operational Cost	26.680	20.920	18.180	18.280	18.340	102.400	--	36.000	66.400
A	Total (I+II+III+IV+V+VI)	101.311	89.79	49.85	44.351	44.795	330.097	80.850	75.976	173.271
B	Federal share (40%) + Provincial Share (60%)						--	--	75.976	173.271
C	Grand Total						330.097			

Year wise plan of physical activities (Agriculture Extension component) 2019-2020

Key Indicators Activities / output	Unit of Measurement	PC-1 Target	CFY Target by Indicator	Achievements		Cumulative Achievements Since Starts
				During Quarter	Total CFY	
DSR Drill	No.	20	10			
Nursery raising equipment's	No.	27	7			
Ecological best varieties identification & area specific seed distribution on subsidy (50%) for the period of two years.	MT	336	168	336	336	336
Weedicide (80%) procured	Acre	14456	2891	14456	14456	14456
Field Demonstrations (GAP) Seed, NPK, Weedicide (One Acre), IPM, INM, ICM, Demos 240.	Acre	240	48			
Mega farmer Gatherings by	No.	66	13			

Provinces (4-5/District)						
Slogan charts for farmers awareness @Rs.500/ per book)	No.	1500	300	300	300	300
Brochures @Rs. 100/- per unit	No.	15000	3000	3000	3000	3000
Crop Calendar	No.	25000	5000	5000	5000	5000
Documentary production.	No.	1	1			
Text messages @Rs. 3/- SMS	No.	1000000	20000	10000	10000	10000
Robo calls @Rs. 3/ per call	No.	1000000	20000	10000	10000	10000

Wheat Productivity Enhancement Project in Khyber Pakhtunkhwa

Location

All Districts of Khyber Pakhtunkhwa.

Objectives

The main objective of the project is to enhance per acre wheat productivity to secure food security for the growing population in the province.

Project activities

- ❑ Ensure supply of 21563 MT certified seed to the farmers on subsidized rate.
 - Timely availability of 11760 bags of fertilizers (Phosphorous & Potash) to the farming community on subsidized rate.
- ❑ Expansion in mechanized farming by providing 306 Nos. of different machineries (225 Nos. permanent raised bed making machine, 30 Nos. Zero Tillage drill & 50 Nos. Wheat reaper) to the farmers on subsidized rate to boost productivity.
- ❑ Transfer of improved technology dissemination through laying out of 278000 acres' demo plots on weeds control & 2000 Nos. of demo plots on ICM technology, 130Nos. of mega farmers gathering, 40 Nos. of mass mobilization events, 134 Nos. of appreciation events, distribution of 50000 brochures, charts& Phenoflax, 08 Nos. of documentaries, 20 Nos. of TV program & 18.5 million of SMSs / robo calls.
- ❑ To improve livelihood and ensure food security in the province



Project Summary

- ❑ Total Cost: 2195.214 Million
- ❑ PSDP (Federal) Share: 395.464 Million
- ❑ ADP (Provincial) Share: 963.090 Million
- ❑ Farmer share: 836.660 Million
- ❑ Project Period: (2019-2024)

Cost Summary in Millions

No.	Particulars	Y-1	Y-2	Y-3	Y-4	Y-5	Total
1	Federal Share	81.295	84.895	78.695	75.276	75.303	395.464
2	Provincial Governments Share	253.542	186.916	177.616	172.487	172.529	963.090
3	Farmers Share	173.638	181.636	166.138	157.588	157.660	836.660
Total Cost of KP Component		508.475	453.447	422.449	405.351	405.492	2195.214

Year wise plan of physical activities (Agriculture Extension component) 2019-2020

Activities / output	Unit of Measurement	PC-1 Target	CFY Target by Indicator	Achievements		Cumulative Achievements Since Starts
				During Quarter	Total CFY	
Seed Replacement Programs for 10% increase in adoption	MT	21563	4312	2130.8	2130.8	2130.8
Weedicide (80%) & Seed Treatment Coverage Base value to Target. Reduction in Cost, Subsidy	Acre	166400	33280	33280	33280	33280
Field Demonstrations (GAP) Seed, NPK, Weedicide (One Acre), IPM, INM, ICM, Demos.	Acre	2000	200	200	200	200
Mega farmer Gatherings by Provinces (4-5/District)	No.	130	26	6	6	6
Mass mobilization to increase research and involving all stakeholders i.e. academia, research, NGO etc.	No.	40	8	0	0	0
Print media (Broshers, Charts, Phenaflex.	No.	50000	10000	10000	10000	10000
ICT (mobile message @ Rs.3/- per sms)	No	18.5	3.7	1.5	1.5	1.5
Documentaries on latest technologies)	Million	8	1	0	0	0
Awareness through TV Channels	No	20	4	0	0	0
Appreciation of best growers through District level to national Best Growers with distribution ceremonies	No	134	26	0	0	0
Subsidy on fertilizers (Potash, Phosphorus)	No	11760	2352	2352	2352	3252
Wheat Reaper/ binder	No	50	10	0	0	0
Permanent raise bed making machine	No	255	100	0	0	0
Zero tillage drill	No	30	10	0	0	0

Annual Development Program Details 2020

Improvement and management of govt. seed production units in Khyber Pakhtunkhwa

Location

D.I. Khan, Bannu, Karak, Hangu, Peshawar, Nowshera, Mardan, Swat, Dir Lower and Haripur Districts of Khyber Pakhtunkhwa.

Cost: Rs. 300.00 million.

Objectives: To strengthen the seed production and storage capacity of Govt. Seed Farms of Agriculture Extension department Khyber Pakhtunkhwa.

Activities

- Horizontal expansion of the land under seed production through land reclamation (Physical & Chemicals) for 353 acres of land.
- To enhance the seed production capacity through provision of sufficient machineries and implements.
- Qualitative and quantitative improvement of seed storage facilities through new construction and repair of existing old storage through construction of 08 Nos. of new stores and repair of 21 Nos. of old stores. IV.
- To ensure uninterrupted irrigation water through installation / conversion of 10 Nos. of tube wells to solar system.

Physical Targets achieved during 2019-2020

SKIM Key Indicators Activities / output	Unit of Measurement	PC-1 Target	Weight Factor	Cumulative Achievements Upto End of Previous Year	CFY Target by Indicator	Achievements		Cumulative Achievements Since Starts
						During Quarter	Total CFY	
14	15	16	16(a)	17	18	19	20	21
Conversion/installation of tube wells to Solar system Haripur	Nos.	10		0	10	0	0	0
Lining of Water Courses	Meter	39095		36945	2150	0	2150	36945
Repair old stores, threshing floors & guard rooms	No.	21		10	11	0	0	10
Construction of new Store	No.	8		6	2	1	1	7
Construction of implements shed	No.	3		0	3	1	1	1
Construction of threshing floor DI Khan (02)	No.	2		2		0	0	2
Procurement of machineries / implements	No.	112		0	112	0	0	0
Miscellaneous articles	No.	22		0	22	0	0	0
Construction of water tank (Haripur)	No.	1		0	1	0	0	0
Land development & Leveling	Acre	353			353	176	353	353

Strengthening and Improvement of Existing Government Fruit Nursery Farms.

Location

DI Khan, Kohat, Swabi, Malakand, Chitral, Haripur, Abbottabad and Mansehra in Khyber Pakhtunkhwa.

Cost: 60.000 Million

Main Objective

The main objective of the project is to strengthen the capacity of the existing fruit nurseries farms for provision true to type plants on subsidized rates.

Activities

- To provide the farming community and the public with a large selection of varieties and rootstocks.
- Construction of 05 Nos. of high roof tunnels that will protect young plants from mortality due to frost in winter season.
- Construction of fencing (45713 RFT) around the farms to completely stopped frequent penetration of people and animals that will avoid losses by damages and theft.
- Ensure uninterrupted supply of irrigation water through conversion / installation of 02 Nos. of tube wells to solar system which will increase production and saving of electricity utility bills (100%).
- Lining of watercourses (300 meter) to control water losses up to 25%.
- Provision of 13 Nos. of budding materials /tool kits for field operations at each FNF to complete the tasks well in time that will increase farm production up to 5%.
- Provision of Plants / suckers /seed /fertilizers/pesticides for 180 acres to increase nursery plant production & ensure timely availability of nursery fruits plant to the farming community.
- An additional production of 6000 nursery plants will be ensured by filling 7 kanal of waste land with silt & FYM.
- The life of implements will be enhanced through construction of implement sheds (4 Nos.).
- Timely cultural practices ensured availability of true to type fruit plants by inducting 10 Nos. of field workers.
- To provide the local growers with true to type varieties on reasonable rates.
- To improve livelihood and ensure food security in the province

Provision of offices for newly created directorates and repair of ATI building damaged through terrorist attack

Locations ATI Campus, Jamrud Road, Peshawar.

Cost The provision is Rs. 202.909 million in ADP. 2020-21 and allocation for the 2020-21 is Rs. 119.499 million.

Objectives

The main objective of the project is to repair the building damaged in terrorist attack at ATI now upgraded to Agriculture Services Academy Khyber Pakhtunkhwa (ASA) and construction of new offices building to accommodate the staff of newly created 07 directorates in department of Agriculture Extension Khyber Pakhtunkhwa Peshawar.

Activities

- ❑ To repair the buildings damaged in terrorists attack and renovation of existing buildings of Directorate General Agriculture Extension.
- ❑ Construction of new offices for 07 newly indulged Directors and their staff.
- ❑ Repair / replacement of the drainage system throughout the campus including colony.
- ❑ Replacement of old & damaged water supply system.
- ❑ Repair of roads, streets, protection walls around the lawns & play grounds.
- ❑ Providing better working environment to the staff for better services delivery to the public.
- ❑ To provide safety and security measures at ASA Campus, Offices, Student Hostel, and Residential Colony by installation of security camera system.

Other Developmental Projects

Promoting research for productivity enhancement in pulses

Total cost of the project: 1437.358 million

Objectives of the Project

- To enhance pulses production through input subsidy and mechanization.
- To develop pulses seed system for sustainable production.
- To develop contractual pulses production and procurement mechanism for import substitution.
- To demonstrate improved pulses production packages for promotion and training.
- To Share information on new knowledge and technology by using print & electronic media



Activities to be carried out by the Agriculture Extension KP

Provincial Agriculture Departments for pulses seed production & distribution, Machinery distribution through a transparent program as well as technology transfer through publicity, demo-plots on farmer field, field days & meetings etc.

Promotion of Olive in Khyber Pakhtunkhwa

The main objective of the project is Enhancement of local edible oil, Capacity building, value addition and promotion of olives for olive value chain development through products development for marketing. This project is initiated to Establish/ New olive orchards on farmers field on 12500 acres of area, Top working /conversion 750 thousands no. of wild olive into cultivated / European type olive, Capacity building of farmers and extension staff in improve production technology, nursery plant raising, value addition/processing, Provision of olive oil extraction units (3 Numbers) to the farmers , Installation of drip irrigation system on 620 acre of unlevelled , rain fed and low irrigation waters arrears, Evaluation and registration of new and improved varieties and for Strengthening of existing germ plasm (GPUs) units in the province.



Fertilizer subsidy

Fertilizers play a vital role in the production of crops. The timely availability and specific type of fertilizer during different crop stages is key to increase crop production. The Federal Government in share with Khyber Pakhtunkhwa initiated a subsidy program under Prime Ministers COVID-19 Special Package on Fertilizers (Phosphatic and Potash) amounting Rs. 800.0 million. The subsidy share from federal Govt. is 560.0 million and that of Provincial Govt. is 240.0 million. The subsidy package shall be provided @ Rs.1000/ Bag in each Category of Phosphatic and Potash Fertilizer in the current Rabi Season.

Weedicide and Fungicide Subsidy

The Federal Government in share with Khyber Pakhtunkhwa initiated a subsidy program under Prime Ministers COVID-19 Special Package on Weedicides and Fungicide to cope the issue of crop diseases and insect's losses in the field. The Purchase of Rs. 49.775 million fungicides during the Rabi 2020-21 is made for 124,500 acres provided to the farmers.

Directorate of Agriculture Information

Vision To have an effective centralized facility for providing requisite printed extension material, feeding public information media and also reaching the target population through all available means of information communication.

Mandate

- Education and dissemination of new agricultural technology through technology transfer methods to the farming community of Khyber Pakhtunkhwa.
- Provision of extension material to the field staff for facilitating their extension efforts and also to farming community for its adoption at their fields.
- Planning and execution of publicity program.

FUNCTIONS / AREA OF WORK

- Keeping liaison with the allied department.
- Farm Forum Advisory Committee Meeting arrangements on quarterly basis under the chairmanship of Honorable Additional Secretary Agriculture Live Stock and Cooperative Department for approval of Radio Talks, articles and further discussions and planning of future strategy with the allied departments. During 2020 two meetings of FFAC were conducted and 2 were left due to Covid-19 pandemic situation in the country.



- Dissemination of modern Agriculture Technology to the farming community using different extension tools of Print, Social and Electronic media.



Print Media

- Zarat Naama: Publishing monthly Agriculture magazine/Zarat Nama Khyber Pakhtunkhwa which is the only magazine for guidance and dissemination of modern agriculture technology to the farming community and covers almost all sectors of agriculture. During 2020, 10 editions of Zarat Nama were published and two were left due to Covid-19 pandemic situation and lockdown in the country.
- Publication of Pamphlets/leaflets, Brouchers, Posters, Panaflex, Slogan books and crop calendar for farmer awareness.
- Newsletter: Publishing of the Newsletter for providing information regarding activities of Agriculture department to the readers.
- Releasing handouts, Press notes, Press release on important occasion of the Agriculture for wide publicity among the farming community.



Electronic Media

- Facilitation through Radio/T. V/Social Media for farmer awareness.
- Media coverage: Media coverage of press briefings, meetings, trainings, programs, and talk shows and field days etc.
- Publicity Campaigns: Planning and implementation of the special publicity campaign through Cinema van or social media for educating the rural community.



Information and communication Technology (ICT)

Information and communication technology in agriculture (ICT in agriculture), also known as e-agriculture & tele-farming, is developing and applying innovative ways to use ICTs in the rural domain, with a primary focus on agriculture. ICT in agriculture offers a wide range of solutions to some agricultural challenges. It is seen as an emerging field focusing on the enhancement of agricultural and rural development through improved information and communication processes. In this context, ICT is used as an umbrella term encompassing all information and communication technologies including devices, networks, mobiles, services and applications; these range from innovative Internet-era technologies and sensors to other pre-existing aids such as fixed telephones, televisions, radios and satellites.

Objectives

- Strengthening of the researcher-extension-farmer exchange of information and communication – contributing to increased agricultural productivity and improved natural resource management.
- Effective utilization of information and communication flows between researchers, extensionists, farmers, private sector input suppliers and produce buyers, and other actors in the agricultural commodity value chains.
- Enhanced crisis preparedness and response capacities of farming households through early warning systems for prolonged dry spells and droughts, flash and riverine floods and plant and trans-boundary animal and plant diseases and pests by creating linkages with organizations like SUPARCO, Metrology Department and PDMA.
- Providing advisory services to improve farmers' accessibility to timely and relevant information on agricultural technologies, and to relevant services including input and output markets in order to improve productivity.
- Contribute to diversify the agribusiness and improve the socio economic conditions of poor people living in rural areas.

ICT Based Agriculture Services

The service provider organization provides the following ICT based Agriculture services, but not limited to, in order to enable the dissemination of improved agricultural technology among various stakeholders from farm to market.

Web Site

Web site (www.zarat.kp.gov.pk) is designed to facilitate the farming community of the country in order to provide required agricultural information in one place. The website is comprised of Mandi Rates, Weather updates, Agricultural Training Videos, Agricultural News, Production Technologies of Crops, Fruits and Vegetables and Agricultural Products & Equipment's.



Mobile App

This Application is consolidated digital platform in all-regional languages of Khyber Pakhtunkhwa to facilitate farmers. It will help farmers make informed decisions by accessing customized agricultural information related to their needs.

App will provide information regarding Agricultural News, Crops & Livestock (Production technology, Information etc. for Livestock), Market Information, Weather Updates, Videos, Picture Analysis, Modern Farming techniques (Soil testing on field, Drones for surveillance, Weather stations).



Call Centre

Farmer call Centre is a direct helpline for farmers where Agricultural Graduates guide the farmers about their field problems with the backup support of Subject matter Specialists. To solve any problem farmer contact on call center number 03481117070 from 8:00 A.M to 8: 00 P.M, where after registration his problem is resolved immediately. If the issue is not resolved directly, a call is sent to the concerned district officer for further action.



ICT Based Agricultural Tools

Weather Sensors

Weather sensor gives you the outdoor environmental information you want right for your crops. Professional weather stations are capable of monitoring six to seven weather parameters such as precipitation, barometric pressure, air

temperature, humidity, dew point, wind speed and wind direction.



Drones/ Quad copters

The most common application of agriculture UAVs (Drones/Quad copters) is to monitor crops. Quad copters provide an easy and low-cost way for farmers to monitor their land. Especially on large tracts of land, monitoring crops on a regular basis takes a huge amount of time.

Monitoring crops with drones allows farmers to pinpoint problems early on.



Activities carried out during the year 2020

S. No	Name of activity	Numbers	Remarks
1	Zarat Nama	10 (25000 copies)	Printed & Distributed (Second Editions were not published due to Corona Lockdown)
2	Articles collection	137	From all attached departments
3	Schedule of Karkeela Radio Pakistan and Karwanda Radio KP	6	Prepared for Quarter (Jan-March, July-Sep, October to December,2020) (Schedule for the quarter April-June were missed due to Corona Lockdown)
4	Karkeela Talks	232	From all attached departments
5	Karwanda Talks	37	From all Attached Departments
6	Facebook Uploading	200	Messages + Pictures + Videos + Documentaries

Annual Report 2019-2020

S. No	Name of activity	Numbers	Remarks
8	Documentary	4	Azm-o-himmat ke 100 din, Wheat production Technology, Locust (Wheat, Locust, Minister & Secretary visits, Departmental events etc.)
	Short videos	16	
9	Publicity campaign	180	On different Issues Via SMS, Robo calls, Social media, Cinema Van.
10	Events coverage	45	Departmental events, Minister & Secretary visits coverage, Wheat, Locust etc.
11	Books Printing	9	1. oil seed crops: 4 Nos 2. Sugar cane production Technology: 2 Nos 3. Rice production Technology: 1 No 4. Crops Production Technology: 1 No 5. Wheat Production Technology: 1 No
12	Brochures	2	1. Lentils 2. Locust
13	Posters	10	1. Sugarcane Production Technology: 2 Nos 2. Wheat production technology: 3 Nos 3. Oil seed production technology: 1 No 4. Wheat Harvesting during Covid-19 :1 No 5. Tunnel Technology :1 No 6. Fodder Crop :1 No 7. Lentils : 1 No
		3(Pending)	(Fodder crops, Fruit Production Technology, Rice Production Technology)
14	Slogan book 1. Sugarcane	1	Printed & distributed
15	News Letter (January- June)	1	Printed & distribute in Process
	(July- December)	1	
16	Table Calendar	1	Printed & distributed
17	Tele-Farming Project	0.5 Million	
	1. Total Farmers	163	
	2. Messages sent		
	3. Messages related to Agriculture Extension	96	
	4. Livestock	18	
	5. Fisheries	2	
	6. Water Management	1	
	7. PATTA	46	
4. Calls received	26320		
5. Resolved	26041		
6. In progress	275		
7. Archived	4		
	Robo calls campaign	50	

Agriculture Services Academy (ASA)

Objectives/Mandate

- To impart pre-service training to Field Assistant and Veterinary Assistants
- To impart in-service training to the field officers and officials of Agriculture Department
- To build the capacity of farmers (Farmer trainings)



Achievements

ACTIVITY		QUANTITY (No.)
Field Assistants Passed out	1 & 2 year Certificate	3,123 (1957 to 2013 i.e. 56 years)
	3 year Diploma	0219 (2014 to 2020 i.e. 07 years)
	Total	3,342 (1957 to 2020 i.e. 63 years)
Veterinary Assistants Passed out	1 & 2 year Certificate	2,437 (1979 to 2013 i.e. 35 years)
	3 year Diploma	0237 (2014 to 2020 i.e. 07 years)
	Total	2,674 (1979 to 2020 i.e. 42 years)
Officers / Officials Trained		6,797
Farmers Trained		13,765 (including women folk)
Exposure Visits for farmers		610 farmers
Officers / Officials Trained		25 TOT (Under Women's Capacity Building Project)
Farmers' Trainings		07 (Under Food Security Project)
Women Folk Trainings		199 (Under ADP Projects) (25 VA+174 KG)

ACTIVITY	QUANTITY (No.)
MFSC Account & Record Keeping Training	01 No. (40 participants) on Zero Budget
Fertilizer Safe Use & Handling Training	02 No. (160 participants)
Pesticide Safe Handling and Storage	02 No. (140 participants)

- **Diploma Courses Started from 2012-13 Affiliated with University of Agriculture, Peshawar**
- **Conduction of examinations switched to AUP from September, 2014 onwards.**
- **Conducted 6-Months' Condensed Course for a total of 1,243 Field Assistants in the Province and erstwhile- FATA at 25 training venues.**
- **Extended active support to various Developmental Projects in terms of HRM**

In-Progress Activities

- **Three-Years' Diplomas in Agriculture Sciences (DAS) and Veterinary Sciences (DVS) with a total enrolment of 356 students (DAS=176 and DVS=180)**
- **Students' Internship at various Offices / Farms / V. Hospitals.**
- **ADP project "180407 - Provision of Offices for newly created Directorates and repair of ATI building damaged through terrorist attack."**
- **Online classes due to COVID-19.**
Year-wise Induction in ASA 2012 Onwards

<i>Year</i>	<i>DAS</i>	<i>DVS</i>
2013	52	31
2014	45	37
2015	48	72
2016	39	73
2017	43	
2018	72	
2019	60	60
2020	60	60
Total	419	410



Pesticides Standardization Committee meeting held on 23 January 2020



Anti-Locust Operation at Dera Ismail Khan and Southern Area



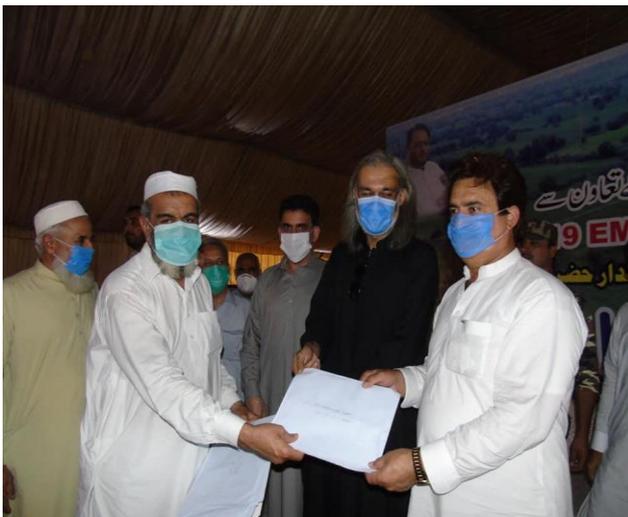
Secretary Agriculture Livestock & Cooperative Department Mr. Muhammad Israr Addressed the Meeting on Online Delivery Service in District Peshawar Abbottabad and Mardan



45th and 46th Farm Forum Advisory Committee held under the Chairmanship Additional Secretary Agriculture Livestock and Cooperative Department on 3rd January and 7th July 2020



On 15 July 2020 the Relief Packages is Distributed to the Farmers of Tehsil Kulachi under covid-19 Relief Package with collaboration of KPK government and USAID under GZDC Area Project Appreciation



Shield and Certificate Distribution to the Agriculture Extension DI Khan Staff on Best Performance on Locust Control Operation



Honorable Minister Agriculture Mr. Muhabullah Khan Secretary Agriculture Mr. Israr and Director General of Agriculture Cooperative Department and MPAS of Merged District meeting on cooperation and discussion regarding District Activities On 26 August 2020



Meeting under the chairmanship of Secretary Agriculture Mr. Muhammad Israr regarding the nutritional need of the province on 22 September 2020



Honorable Secretary Agriculture visited Kissan Market Sawabi and Pabbi on 17 October 2020



On 21 October 2020 the Agriculture Graduates Association KP Newly Elected Cabinet took Oath at Ceremony held in Peshawar



Three Days Workshop on Pesticides Safe Use (Handling & Business) From 11-13 October 2020



Seminar on Wheat productivity enhancement in collaboration of Fatima Fertilizer and Agriculture Extension Department at District Swabbi on 10 October 2020



Meeting under the chairmanship of DG Agriculture Extension to Ensure Supply of Wheat Seeds on 9 November 2020



One-day Workshop on 12 Nov 2020 at Civil Colony Khar under Prime Minister Agriculture Program (Promotion of Olive in KPK)



Seminar on Wheat productivity enhancement in collaboration of Fatima Fertilizer at Tarnab



Gathering Hall on 12 Nov 2020



*Inauguration of Seed Production Farm Development Project at Sarai Nourang on 19 Nov 2020
Webinar at Modal Farm Services Centre DI KHAN with the collaboration of Japan Emergency NGO
on 27 Nov 2020. Secretary Agriculture Dr. Muhammad Israr Khan Address on Locust Control
Program 2020*



Secretary Agriculture Mr. Muhammad Israr attend the function organized for the farmers of DI Khan on 29 Dec 2020



Certificate of appreciation and Shields are Presented to staff of Agriculture Extension Department for effective & efficient surveillance & control operation against Locust during Covid -19 Lockdown



Under Prime Minister Agriculture Emergency Program “Wheat Productivity Enhancement Project in KPK” Small Machinery and Subsidy on Wheat Seed Are Provided to the farmer through Modal Farm Services Centre



Under Prime Minister Agriculture Emergency Program, subsidy @ Rs. 5000/on purchase of seed and Fifty percent (50%) subsidy on Agriculture Machinery Are Provided to the Registered Growers

