

AGRICULTURE

VISION

Transform Punjab's Agriculture into a market driven, diversified and sustainable sector through integrated technologies, transparency & value for money.

GOALS

- Raise the growth rate of agriculture sector from existing 3.4% to 7%
- Transform Agriculture Department into a strong ICT-led farmer-centric institution
- Improve crop productivity and diversity
- Improve service delivery to farmers with access to evidence-based and diagnostic-driven services
- Mobilize private investment of PKR 75 billion in Agriculture sector

OBJECTIVES

- Paradigm shift from industrial agriculture to diversified agro ecological systems
- Increase the supply and quality of agricultural crops
- Reduce cost of production through direct transfer of subsidies to targeted farmers.
- Enhanced resilience of smallholder farmers to natural disasters through Crop Insurance.
- Increased diversification and value addition through ADP investment in high value agriculture.
- Shift from Implementer to regulator and enable private sector by amending marketing law and seed act.
- Revamping research and extension services to meet new challenges of productivity and food quality.
- ICT enabled Knowledge exchange system, for better & quick decision making during pre and post cultivation and post harvesting.
- Improve farm efficiency through High tech farm mechanization and water conservation technologies (DRIP irrigation, water course lining, laser land leveling, etc.)

STRATEGY

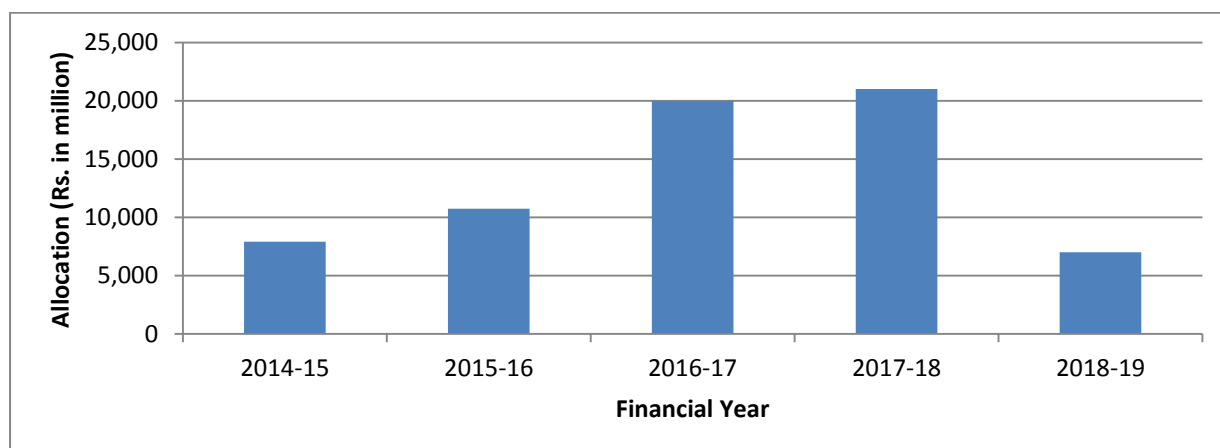
- Improve agriculture input markets
- Climate smart investments
- Emphasis on horticulture, cotton and high value agriculture
- Development of value chain and establishment of food certification mechanism
- Enhancing crop productivity through adoption of new technologies
- Enhancement of fruit & vegetable production and productivity

- Efficient use of water by way of precision land leveling and economical use of available water through high efficiency (drip/sprinkler) irrigation systems
- Decrease in oil seeds import bills through boosting local production
- Diversification of high value cropping through promotion of horticulture
- Commissioned research for development of cotton seed
- Development of efficient marketing infrastructure
- Strengthening of triangle linkages among farmer-research & extension

TRENDS OF ALLOCATION

(Rs. In Million)

Sr.No.	Year	Allocation
1	2014-15	7,900
2	2015-16	10,725
3	2016-17	20,000
4	2017-18	21,005
5	2018-19	7,000



MTDF 2018-21
Agriculture: Summary
Development Programme 2018-19

(PKR Million)

Sub-Sector	Local	F. Aid	Total
On-going Schemes			
Agriculture Education	415.744	0.000	415.744
Agriculture Extension	273.738	0.000	273.738
Agriculture Mechanization	59.366	0.000	59.366
Agriculture Research	243.906	0.000	243.906
Economics & Marketing	167.777	0.000	167.777
Punjab Agriculture , Food and Drug Authority (PAFDA)	200.000	0.000	200.000
Water Management	994.469	4,510.000	5,504.469
Total: On-going Schemes	2,355.000	4,510.000	6,865.000
New Schemes			
Agriculture Mechanization	10.000	0.000	10.000
Agriculture Research	20.000	0.000	20.000
Economics & Marketing	10.000	0.000	10.000
Soil Survey of Punjab	10.000	0.000	10.000
Water Management	85.000	0.000	85.000
Total: New Schemes	135.000	0.000	135.000
Total (Ongoing + New + ODP)	2,490.000	4,510.000	7,000.000

Development Programme 2019-20

(PKR Million)

Sub-Sector	Local	F. Aid	Total
On-going Schemes			
Agriculture Education	457.318	0.000	457.318
Agriculture Extension	301.112	0.000	301.112
Agriculture Mechanization	65.303	0.000	65.303
Agriculture Research	268.297	0.000	268.297
Economics & Marketing	184.555	0.000	184.555
Punjab Agriculture , Food and Drug Authority (PAFDA)	220.000	0.000	220.000
Water Management	1,093.916	4,510.000	5,603.916
Total: On-going Schemes	2,590.500	4,510.000	7,100.500
New Schemes			
Agriculture Mechanization	11.000	0.000	11.000
Agriculture Research	22.000	0.000	22.000
Economics & Marketing	11.000	0.000	11.000
Soil Survey of Punjab	11.000	0.000	11.000
Water Management	93.500	0.000	93.500
Total: New Schemes	148.500	0.000	148.500
Total (Ongoing + New + ODP)	2,739.000	4,510.000	7,249.000

Development Programme 2020-21

(PKR Million)

Sub-Sector	Local	F. Aid	Total
On-going Schemes			
Agriculture Education	503.050	0.000	503.050

Development Programme 2020-21

(PKR Million)

Sub-Sector	Local	F. Aid	Total
On-going Schemes			
Agriculture Extension	331.223	0.000	331.223
Agriculture Mechanization	71.833	0.000	71.833
Agriculture Research	295.126	0.000	295.126
Economics & Marketing	203.010	0.000	203.010
Punjab Agriculture , Food and Drug Authority (PAFDA)	242.000	0.000	242.000
Water Management	1,203.307	4,510.000	5,713.307
Total: On-going Schemes	2,849.550	4,510.000	7,359.550
New Schemes			
Agriculture Mechanization	12.100	0.000	12.100
Agriculture Research	24.200	0.000	24.200
Economics & Marketing	12.100	0.000	12.100
Soil Survey of Punjab	12.100	0.000	12.100
Water Management	102.850	0.000	102.850
Total: New Schemes	163.350	0.000	163.350
Total (Ongoing + New + ODP)	3,012.900	4,510.000	7,522.900

MTDF 2018-21 : Grand Total

21,771.900

AGRICULTURE: SUMMARY

(PKR Million)

Type / Sub Sector	No. of Schemes	Provision for 2018-19				Projection for 2019-20	Projection for 2020-21
		Capital	Revenue	Foreign Aid	G. Total (Cap + Rev)		
<u>ON-GOING SCHEMES</u>							
Agriculture Education	5	0.000	415.744	0.000	415.744	1,249.821	0.000
Agriculture Extension	4	0.000	273.738	0.000	273.738	2,599.364	0.000
Agriculture Mechanization	2	0.000	59.366	0.000	59.366	1,965.722	0.000
Agriculture Research	13	91.992	151.914	0.000	243.906	1,797.886	138.367
Economics & Marketing	2	5.988	161.789	0.000	167.777	998.536	696.000
Water Management	5	0.000	994.469	4,510.000	5,504.469	12,118.954	6,683.000
Punjab Agriculture , Food and Drug Authority (PAFDA)	1	100.000	100.000	0.000	200.000	5,122.000	0.000
Total: ON-GOING SCHEMES	32	197.980	2,157.020	4,510.000	6,865.000	25,852.283	7,517.367
<u>NEW SCHEMES</u>							
Agriculture Mechanization	1	0.000	10.000	0.000	10.000	40.000	0.000
Agriculture Research	1	5.000	15.000	0.000	20.000	280.000	0.000
Economics & Marketing	1	0.000	10.000	0.000	10.000	190.000	0.000
Water Management	2	0.000	85.000	0.000	85.000	705.000	615.000
Soil Survey of Punjab	1	0.000	10.000	0.000	10.000	160.000	0.000
Total: NEW SCHEMES	6	5.000	130.000	0.000	135.000	1,375.000	615.000
Total: ADP	38	202.980	2,287.020	4,510.000	7,000.000	27,227.283	8,132.367
Grand Total	38	202.980	2,287.020	4,510.000	7,000.000	27,227.283	8,132.367

Agriculture

(PKR Million)

GS No	Scheme Information Scheme ID / Approval Date / Location	Est. Cost	Accum. Exp. June, 18	Provision for 2018-19			MTDF Projections		Throw fwd Beyond June, 2021
				Cap.	Rev.	G.Total (Cap.+Rev.)	2019-20	2020-21	
1	2	3	4	5	6	7	8	9	10

ON-GOING SCHEMES

Water Management

5676	Punjab irrigated agriculture productivity improvement project (PIPIP) World Bank assisted 19-12-37-000092 / 01-07-2013 / Punjab LO11000685 R	41,737.955	20,980.091	0.000	4,841.469	4,841.469	6,380.000	6,683.000	2,853.395
			Local:	0.000	331.469				
			Foreign:	0.000	4,510.000				
5677	Optimizing watercourse conveyance efficiency through enhancing lining length. 19-15-37-002038 / 01-07-2015 / Punjab LO15002038 R	6,829.695	3,024.458	0.000	250.000	250.000	3,555.237	0.000	0.000
5678	Rain water management in cotton fields to minimize impacts of climate change 19-16-37-006757 / 01-07-2016 / Punjab LO16007050 R	34.835	21.388	0.000	1.000	1.000	0.000	0.000	0.000
5679	Promotion of high value agriculture through provision of climate smart technology package 19-16-37-006766 / 01-01-2017 / Punjab LO16007047 R	3,475.000	1,141.043	0.000	392.000	392.000	1,941.957	0.000	0.000
5680	Promotion of gram cultivation through life saving irrigation and sprinkler system under climate change 19-17-37-010207 / 01-07-2017 / Punjab LO17007440 R	296.080	34.320	0.000	20.000	20.000	241.760	0.000	0.000
Total: Water Management		52,373.565	25,201.300	0.000	5,504.469	5,504.469	12,118.954	6,683.000	2,853.395

Agriculture Research

5681	Introduction and adaptation of high value crops and fruits in climatic conditions of Punjab. 19-15-27-002029 / 01-07-2016 / Chakwal LO15002050 R	34.565	28.117	0.000	3.247	3.247	3.467	0.000	0.000
5682	Upgradation of AARI Infrastructure, Faisalabad 19-17-09-006583 / 01-07-2017 / Faisalabad LO17003801 C	297.779	49.965	50.000	0.000	50.000	197.814	0.000	0.000
5683	Improvement of Production technology in garlic and ginger 19-16-09-006762 / 09-12-2016 / Faisalabad LO15002050 C, LO16007051 R	78.863	31.373	5.000	10.000	15.000	37.490	14.160	0.000
5684	Replacement of Sewerage system and boundary wall / barbed wire at Residential colony at Ayub Agriculture Research Institute (AARI) Faisalabad (Court Case) 19-18-09-025162 / 01-07-2018 / Faisalabad LO00000000 C	27.374	27.370	0.518	0.000	0.518	0.000	0.000	0.000
5685	Provision of lab and field equipment for development of Basmati rice hybrid resistant to Bacterial Leaf Blight, flood and salinity in Punjab, 19-15-21-002032 / 01-07-2016 / Sheikhpura LO17001217 R	44.010	28.767	0.000	7.333	7.333	13.570	0.000	0.000
5686	Production of Pre Basic / Basic virus free seed of the approved potato variety / varieties through tissue culture 19-16-36-004640 / 01-07-2016 / Sahiwal LO16000089 R, LO16003389 C	47.740	6.154	26.474	13.904	40.378	0.000	0.000	0.000
5687	Diversification to high value cropping through promotion of horticulture. 19-16-37-004642 / 01-07-2016 / Punjab LO16000090 R	780.000	19.900	0.000	10.000	10.000	334.137	15.277	400.686

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				Cap.	Rev.	G.Total (Cap.+Rev.)	2019-20	2020-21	
1	2	3	4	5	6	7	8	9	10
5688	Construction of separate washrooms for female staff 19-17-37-024781 / 01-07-2017 / Punjab LO10000000 C	50.945	0.945	5.000	0.000	5.000	45.000	0.000	0.000
5689	Developing Pothwar into an olive valley 19-15-38-002033 / 01-07-2015 / Attock,Chakwal,Jhelum,Khushab,Rawal pindi LO15002049 R	1,672.446	546.620	0.000	75.717	75.717	1,050.109	0.000	0.000
5690	Provision of additional research facilities for development of heat resilient maize hybrids at Maize & Millet Research institute 19-15-38-002034 / 01-07-2015 / Faisalabad,Sahiwal LO15003103 R	48.000	37.211	0.000	3.420	3.420	7.369	0.000	0.000
5691	Commissioned Research for development of Cotton Seed. 19-16-38-004643 / 01-07-2016 / Faisalabad,Multan,Rahim Yar Khan LO00000000 C, LO16000091 R	350.085	94.010	5.000	15.000	20.000	108.930	108.930	18.215
5692	Development of integrated management of citrus orchards to enhance the yield & improvement of fruit quality 19-16-38-004644 / 01-07-2016 / Faisalabad,Sargodha,Toba Tek Singh LO16000092 R	28.429	25.048	0.000	4.874	4.874	0.000	0.000	0.000
5693	Improvement of breeding and seed production system of fodder crops 19-16-38-006755 / 18-01-2017 / Faisalabad,Multan LO16007465 R	58.298	41.810	0.000	8.419	8.419	0.000	0.000	0.000
Total: Agriculture Research		3,518.534	937.290	91.992	151.914	243.906	1,797.886	138.367	418.901
Agriculture Extension									
5694	Extension Service 2.0 farmer facilitation through modernized extension. 19-15-37-002036 / 11-08-2015 / Punjab LO15003106 R	4,104.739	1,424.531	0.000	80.844	80.844	2,599.364	0.000	0.000
5695	Community based integrated management of pink bollworm and provision of missing facilities to Pest Warning Wing 19-16-37-006765 / 13-01-2017 / Punjab LO16007466 R	96.232	53.092	0.000	20.000	20.000	0.000	0.000	0.000
5696	Effective Pest Management in Cotton Crop to subsidize Provision of Spray Machine 19-17-37-022348 / 01-12-2017 / Punjab LO17011568 R	151.666	0.000	0.000	12.894	12.894	0.000	0.000	0.000
5697	Promotion of Agriculture Mechanization in Punjab (Pending liability/Court Case) 19-18-37-024605 / 01-07-2018 / Punjab LO15002037 R	1,166.518	896.611	0.000	160.000	160.000	0.000	0.000	0.000
Total: Agriculture Extension		5,519.155	2,374.234	0.000	273.738	273.738	2,599.364	0.000	0.000
Agriculture Mechanization									
5698	Introduction and promotion of Hi- Tech farm mechanization technologies 19-16-24-006759 / 01-07-2017 / Multan LO16007049 R	61.335	44.843	0.000	9.366	9.366	0.000	0.000	0.000
5699	Establishment of Hi-Tech Mechanization Service Centre in Punjab 19-16-37-006772 / 01-07-2016 / Punjab LO16007972 R	2,030.205	23.783	0.000	50.000	50.000	1,965.722	0.000	0.000
Total: Agriculture Mechanization		2,091.540	68.626	0.000	59.366	59.366	1,965.722	0.000	0.000

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Agriculture Education

5700	Establishment of Sub Campus of PMAS Arid Agriculture University Rawalpindi Attock 19-16-26-006783 / 25-01-2017 / Attock LO16007180 R	879.668	160.447	0.000	103.573	103.573	615.648	0.000	0.000
5701	Scheme for 50 overseas Ph.D. scholarships for University of Agriculture, Faisalabad. 19-15-09-002040 / 01-07-2015 / Faisalabad LO15002053 R	656.083	287.266	0.000	122.155	122.155	246.662	0.000	0.000
5702	Establishment of Laboratory School, Agriculture University, Mohallah Usman Ghani, Faisalabad in District Faisalabad 19-17-09-011781 / 01-07-2017 / Faisalabad LO17007436 R	12.278	2.262	0.000	10.016	10.016	0.000	0.000	0.000
5703	Establishment of Punjab Bio-Energy Institute (PBI) at UAF 19-14-09-026082 / 01-08-2014 / Faisalabad LO14000342 R	770.473	635.976	0.000	30.000	30.000	72.000	0.000	0.000
5704	Establishment of Muhammad Nawaz Shareef University of Agriculture, Multan (Phase II). 19-15-24-002326 / 01-07-2015 / Multan LO15002041 R	1,510.243	1,044.732	0.000	150.000	150.000	315.511	0.000	0.000
Total: Agriculture Education		3,828.745	2,130.683	0.000	415.744	415.744	1,249.821	0.000	0.000

Economics & Marketing

5705	Improvement / Modernization of Agricultural Produce Markets -Phase-I (PPP mode). 19-17-37-004648 / 01-07-2017 / Punjab LO16000093 R, LO17005357 C	384.071	21.484	5.988	5.333	11.321	296.536	0.000	0.000
5706	Establishment of model farms linked with improved supply chain and value addition 19-16-37-006750 / 01-07-2016 / Punjab LO17007419 R	2,180.343	135.780	0.000	156.456	156.456	702.000	696.000	490.107
Total: Economics & Marketing		2,564.414	157.264	5.988	161.789	167.777	998.536	696.000	490.107

Punjab Agriculture , Food and Drug Authority (PAFDA)

5707	Establishment of Punjab Agriculture, Food and Drug Authority (PAFDA) Science Enclave Main Building Premises, Lahore 19-17-37-010943 / 26-07-2017 / Punjab LO17005358 C, LO17007437 R	6,322.410	1,000.000	100.000	100.000	200.000	5,122.000	0.000	0.000
Total: Punjab Agriculture , Food and Drug Authority (PAFDA)		6,322.410	1,000.000	100.000	100.000	200.000	5,122.000	0.000	0.000

Total: ON-GOING SCHEMES		76,218.363	31,869.397	197.980	6,667.020	6,865.000	25,852.283	7,517.367	3,762.403
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NEW SCHEMES

Water Management

5708	Rejuvenation of Outlived Watercourses in the Punjab (Phase-I) 19-18-37-022322 / Un-Approved / Punjab LO00000000 R	1,000.000	0.000	0.000	80.000	80.000	505.000	415.000	0.000
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Agriculture

(PKR Million)

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				Cap.	Rev.	G.Total (Cap.+Rev.)	2019-20	2020-21	
1	2	3	4	5	6	7	8	9	10
5709	Transforming the Indus basin with climate resilient agriculture and climate-smart water management (FAO Assisted) 19-18-38-022311 / Un-Approved / Dera Ghazi Khan, Khanewal, Lodhran, Multan, Muzaffargarh LO11111111 R	825.000	0.000	0.000	5.000	5.000	200.000	200.000	420.000
Total: Water Management		1,825.000	0.000	0.000	85.000	85.000	705.000	615.000	420.000
Agriculture Research									
5710	Establishment of Centre of Excellence for olive Research and Training (CEFORT) at Barani Agriculture Research Institute Chakwal 19-18-38-022328 / Un-Approved / Attock, Chakwal, Jhelum, Khushab, Mianwali, Rawalpindi LO00000000 C	300.000	0.000	5.000	15.000	20.000	280.000	0.000	0.000
Total: Agriculture Research		300.000	0.000	5.000	15.000	20.000	280.000	0.000	0.000
Agriculture Mechanization									
5711	Feasibility Study for Establishment of Agricultural Machinery Testing, Evaluation & Certification Centers in the Punjab Province 19-18-37-022183 / Un-Approved / Punjab	50.000	0.000	0.000	10.000	10.000	40.000	0.000	0.000
Total: Agriculture Mechanization		50.000	0.000	0.000	10.000	10.000	40.000	0.000	0.000
Economics & Marketing									
5712	Feasibility study for developing mechanism for disbursement of crop / zone wise targetted subsidies to ensure sustainable supplies and to generate exportable surplus 19-18-37-025807 / Un-Approved / Punjab LO00000000 R	200.000	0.000	0.000	10.000	10.000	190.000	0.000	0.000
Total: Economics & Marketing		200.000	0.000	0.000	10.000	10.000	190.000	0.000	0.000
Soil Survey of Punjab									
5713	Identification of dominant soil series in Punjab, capacity building through soil surveys and their mineralogical components 19-18-37-025163 / Un-Approved / Punjab LO00000000 R	170.000	0.000	0.000	10.000	10.000	160.000	0.000	0.000
Total: Soil Survey of Punjab		170.000	0.000	0.000	10.000	10.000	160.000	0.000	0.000
Total: NEW SCHEMES		2,545.000	0.000	5.000	130.000	135.000	1,375.000	615.000	420.000
Grand Total		78,763.363	31,869.397	202.980	6,797.020	7,000.000	27,227.283	8,132.367	4,182.403