

List of ALP On-Going Projects

(Rs. In Million)

S. #	Title of Project	PI/Institute	Duration	Total Cost (million)
	Animal Sciences:			
	PARC/NARC			
1	<i>Genetic Improvement of Selected Indigenous Naked Neck by Crossing with Exotic Poultry Breeds of Rhode Island Red and Black Australop (NARC Coordinating Unit Comp. I)</i>	Dr Agha Waqar Younis, SSO, ASI, NARC, Islamabad	10.02.2015 to 31.12.2018	14.337
2	<i>Evaluation and Protective Efficacy of Different Stabilizers on Shelf Life of the Live Heterotypic Haemorrhagic Septicaemia Vaccine</i>	Dr Hamid Irshad, Senior Scientific Officer, Animal Health Program, ASI, NARC, Islamabad	01.04.2017 to 31.03.2020	5.725
			Total:	20.062
	Other Federal			
3	<i>One Health Approach for Molecular Diagnosis, Epidemiology and Control of Brucellosis in Pakistan</i>	Dr Qaiser Mahmood Khan, Deputy Chief Scientist, National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad	01.03.2016 to 28.03.2020	4.200
4	<i>Production of Indigenous Food Bio-Preservatives from the Microflora Isolated from the Fermented Dairy Products</i>	Dr Talat Mahmood, Senior Scientist, Food Technology, Nuclear Institute of Food and Agriculture (NIFA), Peshawar	01.07.2018 To 30.06.2020	2.879
			Total	7.079
	Punjab			
5	<i>Genetic Improvement of Selected Indigenous Naked Neck by Crossing with Exotic Poultry Breeds of Rhode Island Red and Black Australorp (UV&AS, Lahore Comp. I I)</i>	Dr Athar Mehmood, Associate Professor, Dept. of Poultry Production, Uni. of Vet. & Animal Sciences, Outfall Road, Lahore	01.08.2015 to 17.08.2018	4.823
6	<i>Genetic Improvement of Dera Din Panah Goats in Punjab (Rakh Khaire-e-Wala Sheep & Goat Dev. Centre, Punjab Comp. II)</i>	Dr Rahat ul Amin Asad, Asstt. Res. Officer, Res. & Dev., Rakh Khaire-e-Wala Sheep & Goat Dev. Centre, Layyah, Punjab	01.08.2015 to 17.08.2018	4.225
7	<i>Preliminary Therapeutic Evaluation of N-Acetylcysteine Plus Vitamin C and Sodium Thiosulphate in the Treatment of Parturient Hemoglobinuria in Buffaloes and Cows in Faisalabad and Jhang Districts</i>	Dr Muhammad Saqib, Asstt. Prof. Dept. of Clinical Medicine and Surgery, Uni. of Agri., Faisalabad	01.04.2016 to 10.04.2019	1.926
8	<i>Estimation of Protein and Productive Efficiency Profile of Locally Produced Oyster Mushroom (Pleurotusostreatus) in Broiler</i>	Dr Haseeb Anwar, Assistant Professor, Department of Physiology, GC University, Faisalabad	01.01.2017 to 31.12.2019	1.480
9	<i>Pathobiology & Molecular Epidemiology of Chicken Infectious Anemia & Infectious Bronchitis (IB) in Commercial Poultry and Immunopathogenesis of IB Variants</i>	Dr Muhammad Kashif Saleemi, Assistant Professor, Department of Pathology, University of Agriculture, Faisalabad	20.07.2017 To 19.07.2019	4.911
10	<i>Evaluation of Maize Stovers and Maize Cobs as Feed Sources for Ruminants</i>	Dr Muhammad Iqbal Anjum, SSO, Animal Nutrition Program, ASI, NARC, Islamabad	05.07.2017 To 04.07.2019	2.453
11	<i>Development and Evaluation of Chromium-Loaded Chitosan Nanoparticles Composite as</i>	Dr Habib ur Rehman, Dean, Department of Physiology, University of Veterinary	01.07.2018 To	3.330

	<i>a Feed Additive in Broilers Reared under Normal and Heat Stressed Conditions</i>	and Animal Sciences, Outfall Road, Lahore	31.12.2019	
12	<i>Transcriptome Analysis of Milk Production Genes for Developing Libraries of Pakistani Buffalos</i>	Dr Masroor Ellahi Babar, Professor/Dean, Faculty of Science & Technology, Virtual University of Pakistan, 54-Lawrance Road, Lahore	01.07.2018 To 30.06.2020	5.991
			Total:	29.139
	Sindh			
13	<i>Genetic Improvement of Pateri Goat in Sindh (Livestock & Dairy Development Dept., Sindh,Hyderabad, Comp.IV)</i>	Dr Muhammad Nouman Khokhar, Livestock Development Officer, Animal Sciences Complex, Hyderabad, Sindh	06.07.2015 to 06.08.2018	3.777
14	<i>Fish Breeding and Culture Technology Development in Coastal Region of Pakistan</i>	Dr Ghulam Abbas, Assistant Professor, Centre of Excellence in Marine Biology, University of Karachi, Karachi	01.01.2017 to 31.12.2019	5.450
15	<i>Studies on Induced Breeding & Rearing Prospectus of Chanas chanos (Forsskal) at Seed Production Unit Hawks Bay Karachi and Fish Hatchery Badin</i>	Dr Khawar Pervez Awan, Director, Fisheries Sindh (Hatcheries & Trainings and In-Land), Directorate of Fisheries Sindh, Qasimabad, Hyderabad	10.01.2018 To 09.01.2020	4.477
			Total:	13.704
	Khyber Pakhtunkhwa			
16	<i>Genetic Improvement of Selected Indigenous Naked Neck Chicken by Crossing with Exotic Poultry Breeds of Rhode Island Red and Black Australop Comp.III , the Uni. of Agri., Peshawar</i>	Dr Sarzamin Khan, Asso. Prof., Poultry Sciences, Khyber Pakhtunkhwa Agri. University, Peshawar	15.04.2015 to 31.08.2018	4.309
17	<i>Genetic Improvement of Damani Goat in Khyber Pakhtunkhwa (Livestock Res. & Dev. Station, Paharpur, D. I. Khan, L&DD Dept. Khyber Pakhtunkhwa Comp.III)</i>	Dr Israr-ud-din,Sr. Research Officer, Livestock research Station, Paharpur, D. I. Khan	01.05.2015 to 03.06.2018	3.957
18	<i>Studies on the Culture Prospects of Snow Trout (Schizothorax plagiostomus) in Dir Upper, Khyber Pakhtunkhwa (KP) to Reduce the Poverty and Food Security Risk in the Area - A Pilot Project</i>	Dr Arif Jan, Lecturer, Department of Zoology, Shaheed Benazir Bhutto University, Sheringale, Upper Dir, Khyber Pakhtunkhwa (KP)	01.01.2017 to 31.12.2019	4.901
19	<i>Spatial Distribution, Population Density, Threats and Food Habits of Barking Deer (Muntiacus muntjak) in Murree-Kahuta-Kotli Satiyan National Park, Pakistan</i>	Ms. Ume Habiba, Lecturer, Department of Forestry and Wild Life Management, University of Haripur, Haripur	15.12.2017 To 14.12.2020	2.351
			Total:	15.518
	AJ & K			
20	<i>Improving Reproductive Efficiency of Indigenous Cows through Oestrus Synchronization and Timed Artificial Insemination in AJ&K (AJ&K - Comp. VII)</i>	Dr Muhammad Ijaz Khan, Livestock Officer, Dte. General of Animal Husbandry, Deptt. of Animal Husbandry, Govt. of AJ&K, Muzaffarabad	15.09.2014 to 02.10.2018	4.820
			Total:	4.820
			Sub Total (ASD):	90.322
	Plant Sciences:			
	PARC/NARC			
1	<i>Characterization, Rejuvenation and Multiplication of Cross Pollinated Vegetable Germplasm (Radish, Turnip, Cauliflower,</i>	Dr Sadar Uddin Siddiqui, PSO, Plant Genetic Resources Program (PGRP), NARC, Islamabad	14.03.2016 to 13.03.2019	5.914

	<i>Onion and Cucumber) and its Genepool Expansion</i>			
2	<i>To Study Different Combinations of Sorghum Hybrids for Fodder</i>	Dr Muhammad Ashraf, PSO, Maize, Sorghum, Millet and Fodder Program, CSI, NARC, Islamabad	01.07.2017 To 30.06.2019	5.174
3	<i>Coordinated Research on Physiological Selection of Wheat Synthetic Back-Derived Lines (SBL) for Heat and Drought Tolerance, Yellow Rust Resistance and High Mineral (Zn, Fe) Contents</i>	Dr Jalal-ud-Din, PSO/ Program Leader, Wheat Wide Crosses Program, PGRI, NARC, Islamabad	01.07.2017 to 30.06.2019	2.974
4	<i>Development and Promotion of Groundnut Short Duration Varieties in Pothowar Cropping System</i>	Mr Nazakat Nawaz, PSO, Oilseed Research Program, NARC, Islamabad	01.07.2017 To 30.06.2020	2.466
5	<i>Collection, Conservation and Documentation of Traditional Heirloom Crop Germplasm of Pakistan (CS 031)</i>	Dr. Ashiq Rabbani, PSO, Bio-Resources Conservation Institute (BCI), PGRP, NARC, Islamabad	01.02.2018 To 31.01.2021	6.389
6	<i>Domestication/Ex-situ Conservation of Wild Ornamental, Aromatic, Medicinal and Edible Flora from Pothohar and Adjacent Areas (CS 185)</i>	Dr. Amir Sultan, Program Leader/PSO, National Herbarium, Bio-Resource Conservation Institute, National Agricultural Research Centre, Park Road, Islamabad	01.02.2018 To 31.01.2021	7.684
7	<i>Development of Biofortified Tomato with Precursor of Vitamin A (CS 076)</i>	Mr. Zaheer Abbas, Senior Scientific Officer, National Institute for Genomics and Advanced Biotechnology, NARC, Islamabad	01.07.2018 To 30.06.2021	6.206
8	<i>Distribution Pattern, Race Identification and Tale Based Genetic Diversity in Pakistani Isolates of Xanthomonas oryzae pv. Oryzae the Casual Organism of Bacterial Blight of Rice (CS 183)</i>	Dr. Muhammad Zakria, Principal Scientific Officer, CDRI, DPEP, NARC, Islamabad	01.07.2018 To 30.06.2021	9.182
9	<i>Yield Enhancement of Wheat through Improved Grain Number and Spikelet Architecture using Translational Genomics and Genome Editing Approaches (CS 551)</i>	Dr. Ghulam Muhammad Ali, Senior Director/Chief Scientific Officer, National Institute for Genomics and Advanced Biotechnology (NIGAB), NARC, Islamabad	01.07.2018 To 30.06.2021	7.343
			Total:	53.332
	PARC Outstations			
10	<i>Varietal Screening Technology Development and Seed Production of Guar <i>Cyamopsis tetragonoloba</i> (L. Taub) under Rainfed Ecologies of Pakistan (Coordinating Unit, AZRI, Comp. I)</i>	Dr Muhammad Yaqoob, PSO, Arid Zone Research Institute, D. I. Khan	01.04.2016 to 31.03.2019	4.839
11	<i>Screening of Drought Tolerance Sugarcane Varieties under Different Soil Conditions</i>	Mr Muhammad Chohan, SSO, National Sugar & Tropical Horticulture Res. Institute – PARC, Jangshahi Road, Thatta, Sindh	01.07.2016 to 30.06.2019	3.585
12	<i>Development of Asexual Propagation Techniques for Cultivation of Chilghoza Pine</i>	Mr Shafiullah, PSO, Mountain Agricultural Research Centre, PARC, Juglote (Sai), Gilgit	01-12-2016 to 30-11-2019	4.756
13	<i>Exploration of Native Herbs as Bio-pesticides against Major Insect Pests of Horticultural Crops in Gilgit Baltistan</i>	Mr Muhammad Ayub, Senior Scientific Officer, Mountain Agricultural Research Station-PARC, Skardu	01.07.2017 To 30.06.2019	3.165
14	<i>Establishment of Pilot Turkish Black Tea Processing Plant at National Tea & High</i>	Dr. F. S. Hamid Director,	01.02.2018 To	19.788

	<i>Value Crops Research Institute, Shinkiari, Mansehra</i>	National Tea & High Value Crops Research Institute, Shinkiari, Mansehra	30.06.2021	
15	<i>Farm Productivity Enhancement through Adoption of Multiple Cropping System and Introduction of High Value Crops in Rainfed and Reverine Areas of Southern Khyber Pakhtunkhwa (CS 009)</i>	Dr Muhammad Yaqoob, Principal Scientific Officer, Arid Zone Research Centre (PARC), D.I.Khan	01.05.2018 To 30.04.2021	7.847
			Total	43.980
	Other Federal			
16	<i>Development of Heat Tolerant Cotton Varieties Having Enhanced Resistance against Changing Climatic Scenario</i>	Dr Manzoor Hussain, Principal Scientist/Group Leader, Cotton Group, Plant Breeding & Genetic Division, Nuclear Institute of Agriculture & Biology (NIAB), Faisalabad	15.03.2016 to 14.03.2019	8.750
17	<i>Improvement of Chickpea for Blight and Drought Stress Using Metabolomics and Genomics Assisted Breeding</i>	Dr Anjuman Arif, Principal Scientist, Nuclear Institute for Agriculture & Biology (NIAB), Faisalabad	01.07.2016 to 30.06.2019	3.559
18	<i>Assessment of Rice Bacterial Leaf Blight in Sindh Province and its Management Exploring Resistant Germplasm</i>	Dr Javid Tariq, Principal Scientist, Nuclear Institute of Agriculture (NIA), Tandojam	01.07.2016 to 30.06.2019	3.183
19	<i>Induction of Heat Tolerance in Tomato (Lycopersicon esculentum L.) by Inoculation of Rhizospheric Bacteria: A Strategy for Mitigating Impacts of Climate Change</i>	Dr Hassan Javed Chaudhary, Assistant Professor, Plant Microbe Interactions Lab., Department of Plant Sciences, Quaid-i-Azam University, Islamabad	01-12-2016 to 30-11-2019	4.751
20	<i>Rearing and Ecological Studies of Egg Parasitoid Trichogramma for Biological Control of Lepidopterous Pests of Okra, Cauliflower and Tomato</i>	Dr Sajid Nadeem, Principal Scientist, Plant Protection Division (PPD), Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad	01-12-2016 to 30-11-2019	2.438
21	<i>Use of Rhizobium spp to Enhance the Nutritional Value and Yield of Lentil Genetic Resources (CS 318)</i>	Prof. Dr. Fauzia Yusuf Hafeez (T.I) Advisor, Department of Bio Sciences, COMSATS Institute of Information Technology (CIIT), Islamabad	01.05.2018 To 30.04.2021	12.824
22	<i>Mitigation Strategies for Enhanced Soybean Production under Changing Climate Scenarios in the Pothwar and Khyber Pakhtunkhwa (CS 547)</i>	Dr. Saeed Ahmad Asad, Assistant Professor, Centre for Climate Research and Development (CCRD), COMSATS Institute of Information Technology, Islamabad	01.07.2018 To 30.06.2018	3.786
23	<i>Characterization of Mutants Derived from EMS-Derived Gandum-1 for Rust and Drought Tolerance for Sustaining Wheat Yield in Pakistan (CS 049)</i>	Dr. Mehboob-ur-Rahman, (Pride of Performance, ICAC Laureate – 2014), Principal Scientist & Group Leader, Plant Genomics & Mol Breeding Labs, National Institute for Biotechnology & Genetic Engineer (NIBGE), Faisalabad	01.07.2018 To 30.06.2021	9.953
			Total	49.244
	Punjab			
24	<i>Enhancing Fertilizer Use Efficiency in Wheat by Using Transgenic Approach</i>	Dr Kausar Abdulla Malik, Distinguished National Professor, Biological Sciences Department,	01.07.2014 to 31.08.2018	15.813

		Foreman Christian College, Lahore		
25	<i>Optimization of Bt. Cotton Production Technology for Different Aro-ecological Zones in the Face of Changing Climate Through Simulation Modeling</i>	Dr Ashfaq Ahmad, Prof. /Head Climate Change Cell, Dept. of Agronomy, Uni. of Agriculture, Faisalabad	15.01.2016 to 14.01.2019	7.033
26	<i>Germplasm Screening and Production Technology Development of Guar [Cyamopsis tetragonoloba (L. Taub)], (ARS Bahawalpur Comp. II)</i>	Dr Lal Hussain Akhtar, Guar Botanist, Agricultural Research Station, Bahawalpur	01.03.2016 to 28.02.2019	4.210
27	<i>Development and Genetic Characterization of Haploid Lines and Polyploidy Germplasm for Hybridization in Elite Guava Strains</i>	Dr Muhammad Usman, Assistant Professor, Institute of Horticultural Sciences, University of Agriculture, Faisalabad	01.07.2017 To 30.06.2020	6.833
28	<i>Genetic Improvement of Chickpea for Better Nodulation, Root Length and Yield through Hybridization and Mutation Breeding</i>	Mr Muhammad Aslam, Assistant Botanist (Pulses), Arid Zone Research Institute, Bhakkar	01.07.2017 To 30.06.2020	3.930
29	<i>Epidemiology, Population Biology and Management of Chilli Anthracnose in Punjab, Pakistan</i>	Dr Abid Riaz, Associate Professor, Department of Plant Pathology, PMAS University of Arid Agriculture, Rawalpindi	01.07.2017 To 30.06.2020	2.370
30	<i>Harvest Grain Losses Management for Food Security</i>	Dr Waqas Wakil, Assistant Professor, Department of Entomology, University of Agriculture, Faisalabad	15.11-2017 To 30.06.2020	3.918
31	<i>Identification of Parasitoids and Ants Complex Associated with Psyllids on Trees and Management of Olive Psyllid in Pothwar and KPK</i>	Dr Inran Bodlah Assistant Professor, Department of Entomology, PMAS Arid Agriculture University, Rawalpindi	01.02.2018 To 30.06.2020	3.142
32	<i>Management of Dusky Cotton Bug (Oxycarenus sp; Lygaeidae: Hemiptera): An Emerging Threat to Cotton Crop in Pakistan</i>	Muhammad Tahir Jan, Officer In-charge/ Cotton Botanist, Agricultural Research Institute, Model Town A, Gulberg Road, Bahawalpur	01.02.2018 To 30.06.2020	5.300
33	<i>Selection/ Development of Citrus Rootstock Resistant against Abiotic Stresses (Drought and Salinity)</i>	Dr Umbreen Shahzad Assistant Professor, Department of Horticulture, Bahauddin Zakriya University, Bahadur Campus, Layyah	15.02.2018 To 30.06.2020	2.962
34	<i>Research for Productivity Enhancement of Drought Tolerant and Shattering Resistant Cultivars of Sesame in Rainfed Areas of Punjab Pakistan</i>	Dr. Ghulam Qadir , Associate Professor, Department of Agronomy, Pir Mehar Ali Shah, Arid Agriculture University, Rawalpindi	01.04.2018 To 30.03.2021	5.080
35	<i>Adaptability and Development of Production Technology of Guar (Cyamopsis tetragonoloba (L.) Taub) in Rainfed Pothwar through Simulation Modeling</i>	Dr. Mukhtar Ahmed , Assistant Professor, Department of Agronomy, Pir Mehr Ali Shah, Arid Agriculture University, Rawalpindi	01.04.2018 To 30.03.2021	3.980
36	<i>Utilization of Multiple Transcription Factor Genes for Enhancing Wheat Yield (CS 407)</i>	Dr. Aftab Bashir, Professor Deptt. of Biological Sciences, Armacost Science Building, forman Christian College, Lahore.	01.05.2018 To 30.04.2021	6.608
37	<i>Development of Suitable Strategy for Management of Common Scab of Potato (Streptomyces scabies) (CS 155)</i>	Muhammad Anwar ul Haq, Assistant Research Officer, Plant Pathology Research Institute, AARI, Jhang Road, Faisalabad	01.07.2018 To 30.06.2021	3.400

38	<i>Collection and Characterization of Phalsa (Grewia subinaequalis D.C.) Landraces Having High Sugar and Carotene Carotene Contents (CS 362)</i>	Dr Kashif Razzaq, Assistant Professor, Department of Horticulture, Muhammad Nawaz Shareef University of Agriculture, Multan	01.07.2018 To 30.06.2021	2.979
39	Improving Drought Tolerance and Fodder Quality of Maize Genotypes for Silage using Growth Hormone and Selenium (CS 550)	Dr. Muhammad Rasheed, Associate Professor, Department of Agronomy, Faculty of Crop & Food Sciences, Pir Mehar Ali Shah Arid Agriculture University, Rawalpindi	01.07.2018 To 30.06.2018	5.787
40	Exploring The Potential Of Non-Thermal Techniques For Quality Analysis Of Citrus-Based Peel/Pectin (CS 255)	Rana M. Aadil, Assistant Professor, National Institute of Food Science and Technology, University of Agriculture, Faisalabad	01.07.2018 To 30.06.2021	2.933
41	Genetic Transformation of Chickpea for Hericide Resistance (CS-379)	Dr. Shaukat Ali, PSO, NIGAB, NARC	01-07-2018 To 30.06.2021	5.930
			Total:	92.206
	Khyber Pakhtunkhwa			
42	<i>Production Technology and Adaptability of Super-NPT Rice</i>	Dr Fida M Abbasi, Professor, Hazara University, Mansehra	01.04.2016 to 31.03.2019	2.000
43	<i>Molecular Characterization & Management of Citrus Greening Disease in Hazara Division of Khyber Pakhtunkhwa, Pakistan</i>	Dr Maimoona Sabir, Assistant Professor, Department of Microbiology, University of Haripur, Haripur	15.11.2017 To 14.11.2020	5.735
44	Introduction of Improved Kidney Bean Varieties and its Production Technology in Malakand Division (CS 401)	Dr. Amjad Khan, Principal Research Officer, Agricultural Research Institute, Mingora, Swat.	01.07.2018 To 30.06.2018	3.334
			Total:	11.069
	Balochistan			
45	<i>Post Harvest Management in Deciduous Fruits of Balochistan</i>	Dr Syed Abdul Sadiq, Associate Professor, Agronomy, Balochistan Agriculture College, Balleli Road, Quetta	01.09.2016 to 31.08.2018	3.793
46	<i>Phenotypic Characterization of Indigenous and Exotic Castor Bean (Ricinus communis) in Balochistan</i>	Mr. Abdul Raof Khan, Director, Directorate of Oilseed Crops, Agri. Research Institute (ARI), Sariab, Quetta	01.07.2017 to 30.06.2020	3.831
47	<i>Efficiency of Various Botanicals on Post-Harvest Onion and Apple against Blue Mold Disease (CS 061)</i>	Mr Muhammad Waris, Assistant Professor, Plant Pathology Department, Balochistan Agriculture College, Balele, Quetta	15.03.2018 To 14.03.2020	4.053
			Total:	11.677
	Gilgit Baltistan			
48	<i>Demonstration of Technologies and training of growers for Handling and Value Addition</i>	Mr Faizullah Khan, Scientific Officer, PCSIR Labs, Skardu, Gilgit-Baltistan	02-11-2017 To	4.979

	<i>of Fruits in Gilgit Baltistan</i>		01.11.2020	
			Total:	4.979
			Sub Total (PSD):	266.489
	Natural Resources:			
	PARC/NARC			
1	<i>Climate Change Implications for Water Management and Adaptation Strategies</i>	Dr Arshad Ashraf, SSO, CAEWRI, NARC	15.12.2014 to 14.12.2018	7.419
2	<i>Actual, Attainable and Maximum Carbon Sequestration Potential of Benchmark Soils under Different Cropping Systems</i>	Dr M. Mahmood-ul-Hassan, PSO, Land Resources Research Institute, NARC, Islamabad	01.02.2017 To 31.01.2020	9.127
3	<i>Methane Production and Enhancement using Farm Wastes through Biological Means</i>	Dr Rizwan Ahmad, SSO, Land Resources Research Institute, NARC, Islamabad	01.07.2018 To 01.06.2021	9.797
			Total:	26.343
	Other Federal			
4	<i>Pilot Scale Treatment of Textile Effluents using Integrated Treatment Technology and its Potential Reuse for Irrigation Purpose</i>	Mr Amer Jamal Hashmat, Senior Scientist, National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad	01.01.2017 to 31.12.2019	3.662
			Total:	3.662
	Khyber Pakhtunkhwa			
5	<i>Improving Plant-Microbe Interactions through Biochar Applications for Sustainable Cropping System in Degraded Soil</i>	Dr Zahir Shah, Prof., Dept. of Soil & Environmental Sciences, the Uni. of Agri., Peshawar	01.07.2016 to 30.06.2019	3.673
6	<i>Domestication, Conservation and Production of Medicinal Plants of Higher Altitude of Pakistan</i>	Dr Muhammad Azim Khan, Associate Professor, Department of Weed Science, The University of Agriculture, Peshawar	01.01.2017 to 31.12.2019	4.572
7	<i>Use of Biotechnological Approaches for Remediation of Heavy Metal Polluted Soils of Southern Areas of Khyber Pakhtunkhwa</i>	Dr Muhammad Daud Khan, Assistant Professor, Department of Biotechnology and Genetic Engineering, Kohat University of Science and Technology, Kohat	01.01.2017 to 31.12.2019	5.851
8	<i>Investigating the Effect of Potassium and Zinc to Increase Potato and Maize Productivity in FATA Kurram Agency</i>	Mr Iqrar Hussain, Research Officer, Agricultural Research, Soil and Water Testing Laboratory, Parachinar, Kurram Agency, FATA	01.07.2017 To 30.06.2019	4.717
			Total	18.813
	Balochistan			
9	<i>DNA Based Biodiversity Inventories of Juniper Forest Ecosystems in Ziarat, Quetta and Kalat Districts</i>	Dr Nazeer Ahmed, Professor, Faculty of Life Sciences, Balochistan University of Information Technology, Engineering & Management Sciences (BUIITEMS), Quetta	15.03.2016 to 14.03.2019	5.960
10	<i>Converting Agricultural Wastes into Bio-compost</i>	Mr Munir Ahmed Ansari, Director, Directorate of Agri. Research Soil and Water Testing, Agri. Research Institute (ARI), Quetta	01.07.2017 To 30.06.2019	4.402

			Total	10.362
	Azad Jammu and Kashmir			
11	<i>Improvements in Yield, Quality and Economics of Saffron (Crocus sativus) Through Integrated Nutrient Management (INM)</i>	Dr. Abdul Khaliq, Assistant Professor, Department of Soil and environmental Sciences, Faculty of Agriculture, The University of Poonch Rawalakot (UPR), Azad Jammu and Kashmir	01.07.2018 To 01.06.2021	4.066
			Total	4.066
			Sub Total (NRD):	63.246
	Social Sciences:			
	PARC/NARC			
1	<i>The Dynamics of Water Management Strategies of Farmers in Agro-Ecological Zones of Punjab under the Water Scarcity Scenario</i>	Dr Muhammad Qasim, Senior Scientific Officer, Social Sciences Research Institute (SSRI), National Agricultural Research Center (NARC), Islamabad	01.03.2017 to 28.02.2019	3.059
			Total	3.059
	Punjab			
2	Financing of rice value chain: what really matters for banks? (SS 004)	Dr Khalid Mushtaq, Associate Professor, Institute of Agriculture and Resource Economics, University of Agriculture, Faisalabad.	01.07.2018	1.672
			Total	1.672
			Sub Total (SSD):	4.731
	Agri. Engineering:			
	PARC/NARC			
1	<i>Development and Commercialization of Ispaghul (Phyllium) and Kalongi (Nigella sativa) Processing Technologies for Value Addition)</i>	Dr Tanveer Ahmad, Principal Engineer/ Director, Agricultural & Biological Engineering Institute (ABEI), NARC, Islamabad	15.09.2015 to 14.09.2018	34.983
			Total	34.983
	Other Federal			
2	<i>Solar Powered Temperature and Relative Humidity Monitoring for Multipurpose Silo Bin</i>	Dr Muhammad Shahzad Younis, Assistant Professor, School of Electrical Engineering & Computer Sciences (SEECS), National University of Science & Technology (NUST), Islamabad	01.07.2017 To 30.06.2019	7.207
3	Smart Phone Based On-tree Mango Fruit Maturity and Quality Estimation using Near Infrared Spectroscopy and Machine Vision (AE 007)	Dr. Waqar Shahid Qureshi, Assistant Professor, Deptt. of Mechatronic, College of Elect. & Mech. Engineering, NUST, Golra More Peshawar More, Rawalpindi	01.05.2018 To 30.04.2021	5.283
			Total	12.490
	Punjab			
4	Design and Development of a Tractor	Dr. Muhammad Ashraf,	01.07.2018	5.195

	Operated Carrot Harvester and Trimmer (AE 024)	Agricultural Engineer (Research), AMRI (Division Faisalabad)/Field Wing (Agri. Deptt.). Agricultural Engineering Workshops, Altaf Gunj, Jhang Road, Faisalabad.		
5	Design, Development and Computational Modeling of a Solar Assisted Cold Storage System for the Preservation of Perishable Agricultural Products (AE 027)	Mr. Waseem Amjad, Assistant Professor, Department of Energy Systems Engineering, Department of Energy System Engineering, University of Agriculture, Faisalabad	01.07.2018	5.448
6	Vegetables Drying and Value Addition - A Way Forward to Establish Rural Entrepreneurship in South Punjab (AE 037)	Dr Saeed Akhtar, Director/ Associate Professor, Institute of Food Science and Nutrition, Bahauddin Zakriya University, Multan	01.07.2018	3.600
			Total	14.243
			Sub Total (AED)	61.716
			Grand Total	486.504

Table-1: Region and Sector wise Number of On-going Projects

<i>Region/Sector</i>	<i>Animal Sciences</i>	<i>Plant Sciences</i>	<i>Natural Resources</i>	<i>Social Sciences</i>	<i>Agri. Engineering</i>	<i>Total</i>
Federal (PARC/NARC)	2	9	3	1	1	16
PARC (Outstation)	0	6	0	0	0	6
Other Federal	2	8	1	0	2	13
Punjab	8	18	0	1	3	30
Sindh	3	0	0	0	0	03
Khyber Pakhtunkhwa	4	3	4	0	0	11
Balochistan	0	3	2	0	0	05
Gilgit Baltistan	0	1	0	0	0	01
AJ&K	1	0	1	0	0	02
FATA	0	0	0	0	0	0
Total:	20	48	11	2	6	87

Region and Sector wise Total Cost (Approved) of ALP Funded On-going Projects

<i>Region/Sector</i>	<i>Animal Sciences</i>	<i>Plant Sciences</i>	<i>Natural Resources</i>	<i>Social Sciences</i>	<i>Agri. Engineering</i>	<i>Total Cost</i>
Federal PARC/NARC	20.062	53.332	26.343	3.059	34.983	137.779
PARC (Outstation)	0	43.980	0	0	0	43.98
Other Federal	7.079	49.244	3.662	0	12.490	72.475
Punjab	29.139	92.206	0	1.672	14.243	137.260
Sindh	13.704	0	0	0	0	13.704
Khyber Pakhtunkhwa	15.518	11.069	18.813	0	0	45.4
Balochistan	0	11.677	10.362	0	0	22.039
Gilgit Baltistan	0	4.979	0	0	0	4.979
FATA	0	0	0	0	0	0
Azad Jammu & Kashmir	4.820	0	4.066	0	0	8.886
Other	0	0	0	0	0	0
Total	90.322	266.487	63.246	4.731	61.716	486.502