

**GRANTS FOR SCIENTIFIC RESEARCH
LIST OF COMPLETED PROJECTS (1974 - 2008)**



**PAKISTAN SCIENCE FOUNDATION
ISLAMABAD**

SUMMARY SHEET

S.No.	Discipline	No. of Projects	Total Expenditure in Rupees
1.	Agricultural Sciences	107	26,092,283.97
2.	Biological Sciences	126	25,625,583.69
3.	Biotechnology and Genetic Engineering	05	2,419,319.00
4.	Chemical Sciences	145	26,901,315.12
5.	Earth Sciences	24	3,750,293.00
6.	Engineering Sciences	16	3,675,316.00
7.	<i>Environmental Sciences</i>	24	4,292,784.00
8.	Marine Sciences	04	933,473.00
9.	Mathematical Sciences	06	491,141.19
10.	Medical Sciences	64	7,762,177.00
11.	Physics	65	17,072,591.92
Grand Total		586	119,016,277.89

AGRICULTURAL SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Cost in Rupees	Date of Initiation/Completion
1.	P-PU/Agr (16)	Synthesis of Improved Wheat Genotype Based on the Development of Criteria involving Physiological Analysis.	Mr. Naeem Iqbal Hashmi, Nuclear Institute for Agriculture and Biology, (NIAB) Faisalabad.	284,907.00	01.07.1974 to 31.12.1977
2.	P-AU/Agr (5)	Effect of Tractor Powered Tillage Practice on Crop Yield and Soil Characteristics.	Dr. Ghulam Sarwar Sheikh, Faculty of Agriculture Engineering, University of Agriculture, Faisalabad.	37,948.00	01.11.1976 to 31.10.1979
3.	S-SU/Agr (13)	Exploration of Nitrogen Fixing Algae from Agricultural Field of Sindh.	Dr. Shahnawaz Arbani, Fresh Water Biology Department, University of Sindh, Jamshoro.	161,137.00	01.03.1975 to 28.02.1977 & 13.08.1978 to 14.08.1979
4.	P-NIAB/Agr (17)	Biological Control of Soil Salinity and Fertility	Dr. Ghulam Rasool Sandhu, Nuclear institute for Agriculture and Biology, Faisalabad	288,691.26	01.07.1974 to 30.06.1978
5.	S-AU/Agr (18)	Survey, Collection and Study of Termites attacking Different Crops in Sind and their Control.	Mr. Abdul Haye Soomro, Entomology Department, Sind Agriculture university, Tandojam	162,821.80	15.02.1975 to 14.02.1978
6.	C-IU/Agr (22)	Studies and Evaluation of Physiological Changes Induced in the Biotic Community of the Agricultural Land by use of Pesticides.	Dr.M.Arslan Biological Sciences Department, Quaid-I-Azam University, Islamabad.	196,342.00	01.02.1975 to 31.01.1977

7.	S-AC/Agr (21)	Survey, Identification and Control of Plant Virus Diseases in Sind.	Dr. Ghulam Rasool Solangi, Plant Pathology Department, Sindh Agriculture University, Tandojam.	118,649.00	01.11.1976 to 31.10.1979
8.	S-AC/Agr (28)	Studies on Rinderpests and their Disease Prevalent in Livestock at Landhi Cattle Colony, Karachi	Mr.K.M. Mangi, Directorate of Animal Husbandry Hyderabad, Sindh	49,300.00	01.11.1976 to 31.10.1979
9.	P-AU/Agr (31)	Cytogenetic Studies of Branched Ear Derivatives in Wheat.	Mr.M.aslam, Directorate of Research, University of Agriculture, Faisalabad.	462,56.00	01.07.1976 to 30.06.1979
10.	P-DLF/Agr (32)	Conservation of Superior Specimen of Buffalo and Propagation of Superior Germ Plasma to Improve the Level of Performance of Nili Ravi Buffaloes at Livestock Experiment Station, Qadirabad	Mr. SM. Naqvi Haider, Directorate of Livestock Farms, Punjab, Lahore.	105,000.00	05.09.1976 to 04.09.1977
11.	S-AC/Agr (36)	Investigation of Nematode Diseases in Sind Region	Dr. Ghulam Rasool Solagni, Plant Pathology Department, Sindh Agriculture University, Tandojam.	94,518.00	27.12.1976 to 26.10.1979
12.	S-AC/Agr (38)	Investigation on Ecology and Biology of Cutworms in Hyderabad.	Mr. Shaukat Hussain Baluch, Department of Entomology, Sindh Agriculture University, Tandojam	151,996.00	01.07.1976 to 30.09.1979
13.	C-QU/Agr (42)	The Surveillance and Monitoring of Diseases Naturally Transmitted Between Vertebrate Animals and Man and Related Health Hazards	Dr. Abdul Bari, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	285,019.00	01.01.1978 to 31.12.1980

14.	S-AC/Agr (19)	Major Crop Weeds and their Control	Mr. Ghulam Nabi Kalwar, Agronomy Department, Sind Agriculture University, Tandojam.	130,685.00	01.07.1976 to 31.10.1978
15.	C-IU/Agr (40)	Preliminary Studies on the Breeding of Teddy Goat.	Dr.M.Arslan, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	33,206.00	01.07.1976 to 31.12.1976
16.	C-IU/Agr (40/1)	Preliminary Studies on the Breeding Biology of Teddy Goat (Extension project).	Dr.M.Arslan, Biological Sciences Department. Quaid-I-Azam University, Islamabad.	143,096.00	01.01.1977 to 31.12.1978
17.	P-AU/Agr (55)	Pathology of Trees (Bacteria and Viruses in Tree Diseases).	Dr. Abdul Hamid Khan, Botany Department, University of Agriculture, Faisalabad	94,551.00	01.10.1978 to 30.09.1980
18.	S-AU/Agr (58)	Role of Predacious Arthropods in the Mite Pests Control	Dr. Abdul Hayee Soomro, Entomology Department, Sind Agriculture University, Tandojam.	49,168.00	01.09.1979 to 31.08.1981
19.	P-AU/Agr (31/1)	Cytogenetic Studies of Branched Ear Derivatives in Wheat.	Dr. Mohammad Aslam, Director of Research, University of Agriculture, Faisalabad.	27,808.00	01.07.1980 to 30.06.1982
20.	P-AU/Agr (55/1)	Pathology of Trees – Disease of Conifer Trees. (Extension Project)	Dr. Abdul Hamid Khan, Botany Department, University of Agriculture, Faisalabad.	23,817.00	01.10.1980 to 31.03.1981

21.	P-AU/Agr (64)	Eco-Physiological Studies of some Important Weeds of Wheat.	Dr.S.Razi Abbas Shamsi, Botany Department, University of Punjab, Lahore.	262,519.00	16.09.1980 to 15.01.1984
22.	F-AU/Agr (74)	Standardization of Various Methods for Determination of Available Micronutrients using Wheat-Maize as test Crop.	Mr. Jehangir Khan Khattak, Department of Soil Sciences, NWFP University of Agriculture, Peshawar	225,820.00	01.07.1982 to 30.06.1985
23.	RES/35 (3)	Veterinary Disease Investigation in Northern area, Gilgit.	Dr. Abdul Bari, Veterinary Disease, Investigation Laboratory, Gilgit.	512,903.00	01.07.1974 to 30.06.1977
24.	P-CSIR/Agr (67)	Utilization of Indigenous Research for Introduction of Game Birds (Japanese Quails) Breeding in Pakistan.	Dr. F. H.Shah. Scientific officer, PCSIR Laboratories, Lahore.	174,719.00	15.07.1983 to 14.07.1986
25.	S-PCCC/Agr (77)	Development of Commercial Cotton Hybrid.	Dr. Mohi-ud-Din Ahmad, Cotton Research institute, Sakrand.	141,575.00	15.05.1983 to 14.05.1986
26.	S-AU/Agr (80)	Quality Improvement in Vegetables	Prof. Karamullah H. Aga, Faculty of Agriculture, Sind Agriculture University, Tandojam.	226,810.00	01.10.1984 to 30.09.1987
27.	P-PU/Agr (86)	Studies on Phenology, Germination Biology and Control of some Important Weeds of Wheat.	Dr. S.R.A Shamsi, Department of Bontany, University of Punjab, Lahore.	282,006.00	01.01.1985 to 31.12.1987

28.	S-KU/Agr (88)	Studies on Culturing of <i>Meloindogyne incognita</i> and <i>Heterodera Zeae</i> on Excised Roots of Tomato and Corn	Dr. M.A. Maqbool Nematological Research Institute, University of Karachi, Karachi.	164,987.00	01.07.1985 to 30.06.1987
29.	P-VC/Agr(85)	Study on the Epidemiology of Human and Animal Origin in Punjab.	Dr. M. Ajmal, College for Veterinary Sciences, Lahore.	214,570.17	01.06.1985 to 31.08.1988
30.	P-PU/Agr(81)	Effects of Aflatoxins in Poultry.	Mr. S. Atta-ur-Rehman Rizvi, College for Veterinary Sciences, Lahore.	135,999.49	01.07.1985 to 31.10.1988
31.	P-UET/Agr(89)	Studies on Adopted Reclamation Practices in Pindi Bhattian.	Dr. M.I. Lone, Department of Water Resources, University of Engineering and Technology, Lahore.	200,009.00	01.08.1987 to 31.07.1989
32.	S-PCCC/Agr(77/1)	Development of Commercial Cotton Hybrids.	Dr. Mohi-ud-Din Ahmad, Cotton Research Institute Sakrand, District Nawabshah	153,165.00	15.05.1986 to 14.05.1989
33.	S-AU/Agr(90)	Pathogen-Free Potato Plant Regenerated from Meristem-Tip Cultures.	Mr. Mir Mohammad Rajpur Plant Breeding & Genetics Department, Sindh Agriculture University, Tandojam.	379,096.00	01.11.1990 to 29.10.1993
34.	S-KU/Agr(91)	Studies on Resistance in Egg Plant (<i>Solanum melongena</i>), Potato (<i>Solanum tuberosum</i>) and Influence of Salinity on Infectivity and Development of <i>M. Javanica</i> .	Dr. M. A. Maqbool, National Nematological Research Centre, University of Karachi, Karachi.	198,665.50	16.04.1988 to 15.04.1990

35.	P-BZU/Agr(93)	Improvement of Salt Tolerance in Some Important Pulse Crops.	Dr. Mumtaz Hussain Bokhari, Institute of Pure and Applied Biology, Bahauddin Zakariya University, Multan.	349,697.00	01.09.1988 to 31.08.1991
36.	P-CSIR/Agr(95)	A Survey of Toxigenic Fungi in Agricultural Commodities.	Dr. F. H. Shah, Food Technology and Fermentation Division, Lahore.	311,551.00	03.03.1990 to 02.03.1993
37.	S-AU/Agr(106)	Isolation and Typing of Various Strains of Streptococcus thermophilus and Lactobacillus bulgaricus, from Dahi Samples and Their Effects on Various Physico-Chemical Properties of Milk During Fermentation.	Mr. Mohammad Akbar Arain, Department of Dairy Technology Faculty of Animal Husbandry & Veterinary Sciences, Sindh Agriculture University, Tandojam.	57,160.00	01.06.1991 to 30.05.1993
38.	F-AU/Agr(107)	Effect of Foliar Application of Micronutrients in Combination with Urea on the Yield and Fruit Quality of Sweet Oranges.	Prof. Jehangir Khan Khattak, Department of Soil Science, NWFP Agriculture University, Peshawar.	241,904.00	01.07.1991 to 30.06.1994
39.	P-VC/Agr(100)	Seroprevalence of Various Infectious Bronchitis Virus Strains in Chickens	.	169,560.00	20.06.1992 to 19.06.1994
40.	F-GU/Agr(116)	Evaluation of Early Maturing Cotton Varieties Suitable for Dera Ismail Khan.	Dr. Muhammad Ayub, Faculty of Agriculture, Gomal University, Dera Ismail Khan.	192,513.00	01.02.1992 to 31.01.1995
41.	P-AU/Agr(118)	Studies on the Aetiology and Pathology of Calf Mortality in Buffalo and Cow Neonates.	Dr. M. Zaman Khan, Department of Veterinary Pathology, University of Agriculture, Faisalabad.	155,419.00	01.04.1992 to 31.03.1994

42.	F-AU/Agr(114)	Development of Normal and Therapeutic Diet Sheets for Pakistani Population	Dr. Tajammal Hussain, Department of Agricultural Chemistry and Human Nutrition, NWFP Agriculture University, Peshawar.	90,236.00	20.07.1992 to 19.07.1993
43.	F-AU/Agr(122)	Effect of Various Doses of Potash With and Without Boron on the Yield and Quality of Sugarbeet in Peshawar Valley.	Dr. Sajida Parveen, Department of Soil Sciences, NWFP Agriculture University, Peshawar.	184,955.00	01.10.1992 to 30.09.1994
44.	S-KU/Agr(125)	Compendium of Seed Borne Fungi of Oil Seed Crops.	Dr. Masood-ul-Hasan Hashmi, Department of Botany, University of Karachi, Karachi.	60,390.00	01.09.1992 to 31.08.1993
45.	P-AU/Agr(134)	Taxonomic Studies on Grasshoppers and Locusts (Acridoidea: Orthoptera) of Pakistan.	Dr. Muhammad Yousaf Department of Agriculture Entomology, University of Agriculture, Faisalabad.	102,262.00	01.04.1993 to 31.03.1995
46.	P-AU/Agr(135)	Genetic Variation in Morphological Characteristics, Chemical Composition and Rumen Digestibility of Wheat Straw Cultivars Grown in NWFP.	Prof. S. Basit Ali Shah, Faculty of Animal Husbandry & Veterinary Sciences, NWFP Agriculture University, Peshawar.	234,003.00	01.05.1993 to 30.04.1995
47.	F-AU/Agr(114/1)	Clinical Evaluation, Acceptabilities and Impact of Normal and Therapeutic Diets Prepared for Healthy and Sick Population on Human Subjects.	Dr. Tajammal Hussain, Department of Agricultural Chemistry and Human Nutrition, NWFP Agriculture University, Peshawar.	87,026.00	01.01.1994 to 31.01.1995
48.	P-CSIR/Agr(95/1)	A Survey of Toxigenic Fungi in Agricultural Commodities	Dr .F.H. Shah, PCSIR Laboratories Complex, Lahore.	18,345.00	03-03-1993 to 02-09-1993

49.	P-NIAB/Agr(97)	Development of Short Statured Varieties of Basmati Rice.	Muhammad Afsar Awan, Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad.	149,122.00	01-01-1992 to 31-12-1994
50.	F-AU/Agr (120)	Modelling the Yield Potential and N. Fertilizer Requirements of Wheat using Soil and Weather Data for Irrigated and Dryland Areas of NWFP.	Dr. Aman-ullah Bhatti, Department of Soil Science, NWFP Agriculture University, Peshawar.	255,916.75	01-10-1992 to 30-09-1995
51.	F-AU/Agr (121)	Fate of Nitrogen-15 Urea in Soil Plant System as Influenced by Nitrification Inhibitor.	Dr. Zahir Shah, Department of Soil Science, NWFP Agricultural University, Peshawar.	402,031.00	01-04-1993 to 31-03-1996
52.	F-AU/Agr (123)	Studies on Adaptability Patterns for Short Duration Wheat under Environmental Dynamics.	Dr. Khan Zada, Department of Agronomy, NWFP Agriculture University, Peshawar.	316,351.00	01-09-1992 to 31-08-1995
53.	AJK-UCR/Agr(126)	Application of Molecular Approach towards Biological Nitrogen Fixation In Azad Kashmir.	Dr. Syed Dilnawaz Gerdazi, University College of Agriculture, Rawalakot, Azad Kashmir.	432,290.00	01-05-1993 to 30-04-1996
54.	F-AU/Agr (128)	Fish as a Bioindicator of Fresh Water Contamination by Metals.	Dr. Muhammad Javed, Department of Zoology & Fisheries, University of Agriculture, Faisalabad.	488,321.20	02-05-1993 to 01-05-1996

55.	P-CSIR/Agr (129)	In vitro Selection for Salt Tolerant Strain of Poorbi-Raya, An Oil Crop.	Dr. Mahmood Akram, Pakistan Council for Scientific and Industrial Research Laboratories(PCSIR), Lahore.	231,567.00	01-01-1994 to 31-12-1996
56.	S-AEARC/Agr (131)	Utilization of Intraspecific and Alien Genetic Variation for Inducing & Enhancing Salt Tolerance in Bread Wheat.	Dr. Khushnood A. Siddiqui, Atomic Energy Agricultural Research Centre, Tandojam, Sindh.	219,275.43	28-03-1993 to 27-03-1996
57.	AJK-UCR/Agr (132)	Soil Management and Alfalfa Production in Azad Kashmir	Dr. Mohammad Ilyas, University College of Agriculture, Rawalakot, Azad Kashmir.	259,821.00	01-07-1993 to 30-06-1996
58.	F-AU/Agr (133)	Modelling Integrated Control for Maize Smuts in the NWFP.	Dr. Shabeer Ahmed, Department of Plant Pathology, NWFP Agricultural University, Peshawar.	307,343.43	01-05-1993 to 30-04-1996
59.	P-NIBGE/Agr (136)	Use of Rhizobium Bio-fertilizer for Increasing the Production of Food Legumes.	Dr. Fauzia Yusuf Hafeez, National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad.	375,513.00	17-03-1993 to 16-03-1996
60.	P-PU/Agr (138)	Studies on the Physiological Adaptations during Pregnancy & Lactation in Dwarf Goat to Improve its Production.	Dr. Abdul Majeed Cheema, Department of Zoology University of The Punjab Lahore.	362,666.20	01-06-1994 to 30-05-1996

61.	F-AU/Agr (149)	Biological and Chemical transformation of Phosphorus and its availability to Plants in NWFP Soils.	Dr. Mohammad Sarirullah Sarir, Department of Soil Science, NWFP Agricultural University, Peshawar.	262,749.60	01-02-1994 to 31-01-1997
62.	P-NIBGE/Agr (153)	Characterization and Improvement of Plant Growth Promoting Rhizobacteria (PGPR) and their Effects on Cereal Production.	Dr. Ghulam Rasul, National Institute for Biotechnology & Genetic Engineering (NIBGE), Faisalabad.	137,787.84	01-07-1994 to 30-06-1997
63.	S-AEARC/Agr (141)	Host Plant Resistance of Bioregulator Treated Cotton to Bollworms & Sucking Complex and its Impact on Yield and Yield Components.	Syed Muhammad Mausoom Rashdi, Atomic Energy Agricultural Research Centre Tandojam, Sindh.	175,430.67	28-04-1995 to 27-04-1998
64.	S-AU/Agr(156)	Integrated Pest Management of the Pests of Chickpea in Hyderabad District.	Dr. Mohammad Khan Lohar, Department of Entomology, Sindh Agriculture University, Tandojam.	236,229.00	01-08-1995 to 31-07-1997
65.	AJK-UCR/Agr(159)	Some Physio-Chemical Studies on Alternate Bearing in Apple in Azad Kashmir.	Dr. Yusuf Ali, Department of Horticulture, University College of Agriculture, Rawalkot,Azad Kashmir.	203,454.75	07-07-1995 to 06-07-1997
66.	S-AEARC/Agr (171)	Exploitation, Mutagenesis and Selection for Genetic and Agronomic Improvement of Oleiferous brassicae.	Dr. Abdul Ghafoor Arain, Atomic Energy Agricultural Research Centre Tandojam, Sindh.	139,985.00	01-09-1995 to 31-08-1998

67.	P-AU/Agr(119)	Improving Maize yield through Substrate dependent Microbially Derived Plant Hormones.	Dr. Muhammad Arshad, Department of Soil Science, University of Agriculture, Faisalabad.	182,893.96	01-04-1996 to 30-03-1999
68.	P-PU/Agr(137)	Effect of Echinococcosis in Rabbits and Sheep alongwith its Control by Indigenous Plants of Pakistan.	Dr. (Mrs) Tanweer Akhtar, Department of Zoology, University of the Punjab, Lahore.	319,663.00	01-09-1994 to 31-08-1997
69.	AK/UCR/Agr (142)	Studies on the Nature & application of Fungi & Bacteria in controlling Insect Pests of AJK.	Mr. Riaz Ali Gardezi, Department of Mycology, University College of Agriculture, Rawalakot,Azad Kashmir.	557,319.00	01-05-1995 to 30-04-1998
70.	P-PDC/Agr (151)	Diagnosis and Control of Avian Mycoplasmosis.	Mr. Ishtiaq Ahmed, Poultry Development Centre, Punjab, Rawalpindi.	222,318.40	01-10-1994 to 30-09-1997
71.	P-AU/Agr (155)	Breeding for Seedless Kinnow-A Biotechnology Approach.	Dr.M. Mumtaz Khan, Department of Horticulture, University of Agriculture, Faisalabad.	298,233.00	01-10-1994 to 30-09-1997
72.	P-AU/Agr (157)	Free Living Nematode Rhabditis as Helminth Vaccine against Toxocara vitulorum	Dr. Sikandar Hayat, Department of Veterinary Parasitology University of Agriculture, Faisalabad.	510,680.62	01-02-1995 to 31-01-1998
73.	P-AU/Agr(175)	Factors Affecting Successful In-Vitro Maturation, Fertilization and Culture of Buffalo Follicular Oocytes.	Dr. Hafiz Abdus Samad, Department of Animal Production, University of Agriculture, Faisalabad.	298,661.95	01-05-1996 to 30-04-1999

74.	S-PCCC/Agr (183)	Breeding for Glandless Cotton	Mr. Abdul Razaque Soomro, Cotton Research Institute, Sakrand.	251,029.40	07-05-1996 to 06-05-1999
75.	S-KU/Agr (184)	Investigation on the Diseases of Betalvine and their Control.	Dr. Saleem Shahzad, Department of Botany, University of Karachi, Karachi.	346,791.84	15-06-1996 to 14-06-1999
76.	P-AU/Agr(191)	Evaluation of Cotton Germplasm for the Development of Multipurpose Variety.	Dr. Iftikhar Ahmed Khan, Department of Plant Breeding & Genetics University of Agriculture, Faisalabad.	419,417.00	01-05-1997 to 30-04-2000
77.	P-AU/Agr(195)	Electrophoretic Identification of Pakistan Wheat for Gliadin and HMW Glutenin Subunit Composition and their Relationship with End Use Quality.	Dr. Javed Aziz Awan, Department of Food Technology, University of Agriculture, Faisalabad.	160,320.00	15-07-1997 to 14-07-1999
78.	P-AU/Agr(199)	Epidemiological and Aetiopathological Investigations of Neonatal Lamb Mortality.	Dr. Ahrar Khan, Department of Veterinary Pathology, University of Agriculture, Faisalabad.	292,022.54	01-01-1998 to 31-12-1999
79.	C-IIBC/Agr (201)	Management of Pentalonia nigronevosa, a vector of Banana Bunchy Top Disease in Sindh Province, Pakistan.	Mr. Arif Hamid, International Institute of Biological Control (IIB) Pakistan Agricultural Research Council, Islamabad.	489,415.59	15-06-1996 to 14-06-1999

80.	S-PARC/Agr(207)	Identification and Control of Plant Parasitic Nematodes associated with Rice using Organic Amendments in Thatta District, Sindh.	Dr. Aly Khan. Crop Disease Research Institute(CDRI), Pakistan Agricultural Research Council (PARC), Islamabad.	143,379.36	01-06-1997 to 31-05-1999
81.	F-AU/Agr (182)	Management of Onion Downy Mildew IPM in the NWFP, Pakistan.	Dr. Shabeer Ahmed, Department of Plant Pathology, NWFP Agricultural University, Peshawar.	396,043.22	01-07-1997 to 30-06-2000
82.	C-NARC/Agr(216)	Mating Types, Races and Genetic Variability in Phytophthora infestans, the cause of Late Blight of Potato.	Dr. Iftikhar Ahmed , Crop Diseases Research Institute (CDRI) National Agricultural Research Council, Islamabad.	520,608.00	01-07-1997 to 30-06-2000
83.	S-KU/Agr(217)	Studies on the Entomopathogenic Nematodes in Sindh.	Dr. Shahina Fayaz, National Nematological Research Centre (NNRC) University of Karachi, Karachi.	418,400.00	01-07-1997 to 30-06-2000
84.	F-AU/Agr (182)	Management of onion downy mildew under IPM in the NWFP Pakistan.	Dr. Shabeer Ahmad Department of Plant Pathology, NWFP Agricultural University, Peshawar.	593, 771.00	01.07.1997 to 06. 2000
85.	P-AU/Agr (191)	Evaluation of cotton germplasm for the development of multipurpose variety.	Prof. Dr. Iftikhar Ahmed Khan Department of Plant Breeding and Genetics, University of Agriculture, Faisalabad.	512, 417.00	01. 05.1997 to 30. 04.2000

86.	S-KU/Agr (200)	Breeding of important commercial shrimps of Pakistan in captivity.	Prof. Dr. Habib-ul-Hassan Department of Zoology, University of Karachi.	497, 400.00	15. 07.1997 to 14. 07.2000
87.	P-UAAR/Agr (209)	Biology and management of black scurf of potato.	Mr. Abdul Rauf Department of Plant Pathology, University of Arid Agriculture, Rawalpindi.	411, 131.00	01.07.2000 to 31.12.2000
88.	C-NARC/Agr (216)	Mating types, races and genetic variability in Phytophthora infestans, the cause of late blight of potato.	Dr. Iftikhar Ahmad Crop Diseases Research Institute, NARC, Islamabad.	520, 608.00	01.07.1997 to 30.06.2000
89.	S-KU/Agr (217)	Studies on the entomopathogenic nematodes in Sindh.	Dr. Shahina Fayyaz National Nematological Research Centre, University of Karachi.	481, 400.00	01.07.1997 to 30. 06.2000
90.	S-PCCC/Agr(183/1)	Breeding for glandless cotton.	Abdul Razaque Soomro Central Cotton Research Institute, Sakrand, Nawabshah, Sindh.	515,365.00	07.05.1999 to 06.05.2001
91.	F-GU/Agr (198)	Enhancement of post harvest quality and stability of Dhakki dates using advance technology	Dr. Ahmad Khan Baloch Gomal University, Dera Ismail Khan	405,246.00	01.06.1997 to 31.05.1999
92.	P-AU/Agr (223)	Development of commercial diet for rearing of lacewind (Chrysoperla carnea)-A biological control agent.	Dr. Muhammad Yousaf University of Agriculture, Faisalabad.	317,608.00	01.07.1999 to 31.12.2001

93.	F-AU/Agr (214)	Characterization of soyabean mosaic potyvirus and screening of soybean germplasm for the source of resistance to it.	Dr. Muhammad Arif NWFP Agricultural university, Peshawar	418,475.00	01.06.1997 to 31.05.2000
94.	P-UAAR/Agr (234)	<u>Dynamics of Microbial Biomass C, N and P in Rain fed Soils under Wheat and Maize Production.</u>	Dr. Khalid Saifullah Khan Department of Soil Science, University of Arid Agriculture, Rawalpindi.	2,20,613.00	01.06.1999 to 30.05.2001
95.	S-PARC/Agr (277)	Investigations of plants parasitic nematodes and pseudomonas associated with datepalm in Balochistan and their management by organic amendments.	Dr. Aly Khan Department of CDRI, PARC, Karachi University. Karachi.	458,622.00	01-06-2001 to 31-05-2004
96.	C-NARC/Agr (266)	Identification, characterization and distribution of phytoplasmal disease of potato in Pakistan	Mrs. Fauqia Fahmeed National Agricultural Research Centre, (NARC), Islamabad.	437,036.00	01.10.2000 to 31.03.2004 (Extension)
97.	F-AU/Agr (268)	Evaluation of morphological and physiological plant traits adopting as forage under stresses.	Prof. Dr. Mohammad Akmal NWFP Agricultural University, Peshawar.	557,265.00	20.08.2001 to 19.08.2004
98.	S-KU/Agr (269)	Use of rhizobia in the biological control of root knot disease of crop plants.	Prof. Dr. M. Javed Zaki University of Karachi, Karachi.	418,498.00	01.05.2001 to 30.04.2004
99.	F-AU/Agr (282)	Evaluation and assessment of germination stand establishment and yield of soybean and mungbean before and after seed storage using osmoconditioning techniques.	Prof. Dr. Shad Khan NWFP Agricultural University, Peshawar.	414,989.00	01.09.2001 to 31-08-2004

100.	S-KU/Agr (285)	Studies on the field efficacy of the entomopathogenic nematodes as biopesticides.	Dr. Shahina Fayyaz Location of Scheme: National Nematological Research Centre, University of Karachi, Karachi.	532,128.00	01.07.2002 to 30.06.2005
101.	F-AU/Agr (300)	Effect of slope steepness and green manuring on runoff, erosion, soil properties and soil fertility in eroded lands of Northern NWFP.	Prof. Dr. Farmanullh Khan NWFP Agricultural University, Peshawar.	586,080.00	01.08.2003 to 31.07.2005
102.	P-PU/Agr (248)	Fungi as Biocontrol Agents Against Weeds. I: Biocontrol of Weeds of Rice Crop.	Prof. Dr. Rukhsana Bajwa Department of Mycology & Plant Pathology University of the Punjab Lahore.		25-01-1999 to 24-01-2002 report adopted in 2008
103.	P-NIAB/Agr (288)	Effect of soil salinity and nitrogen availability on photosynthetic partitioning and growth of wheat.	Dr. Asma Hassan Principal Scientist Nuclear Institute for Agriculture & Biotechnology, Faisalabad	2,95,734.00	01-09-2002 to 28-02-2006 report adopted in 2008
104.	F-AU/Agr (291)	Development of sustainable rice-wheat cropping system through management of legumes.	Prof. Dr. Zahir Shah NWFP Agricultural University, Peshawar	3,76,395.00	01-11-2002 to 31-10-2005 report adopted in 2008
105.	F-AU/Agr (295)	Weed Management in Wheat in NWFP.	Prof. Dr. Khan Bahadar Marwat Department of Weed Sciences NWFP Agricultural University Peshawar.	3,76,395.00	01.07.2003 to 31.12.2006 report adopted in 2008

106.	F-AU/Agr (296)	Integrated management of noxious weeds in chickpea (<i>Cicer arietinum</i> L.) in southern districts of NWFP (diagnostic phase).	Dr. Gul Hassan Professor NWFP Agricultural University, Peshawar	2,33,115.00	01-03-2004 to 30-06-2005 report adopted in 2008
107.	F-AU/Agr (299)	To Assess the Causes of Ratoon Failure in Sugarcane and Their Control in NWFP.	Mr. Farid Gul Plant Pathologist Sugar Crop Research Institute Mardan.	7,32,887.00	01.07.2004 30.06.2006 Adopted in 2008
Total Amount (Rs.):				26,092,283.97	

BIOLOGICAL SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Cost in Rupees	Date of Initiation/ Completion
1.	P-Pu/Bio (5)	Morpho-Physiological Effects of Gamma Irradiation on Growth and Yield of Agricultural Crops.	Dr. Javed Iqbal, Botany Department, University of Punjab, Lahore	189,305.00	01.03.1975 to 11.06.1978
2.	P-PU/Bio (6)	Palynological Studies of the Plants Growing in Punjab	Dr. S. M. Zahoor, Botany Department, University of Punjab, Lahore.	126,074.00	01.07.1975 to 30.06.1978
3.	S-KU/Bio (52)	Marine Molluscs of Pakistan	Dr. N.M.Tirmizi, Zoology Department, University of Karachi, Karachi.	125,092.00	07.05.1974 to 30.04.1977
4.	S-KU/Bio (53)	Anatomical Studies of Mantis Shrimp.	Dr.N.M. Tirmizi, Zoology Department, University of Karachi, Karachi.	132,59.00	01.05.1974 to 30.04.1975
5.	P-PU/Bio (9)	Investigation into the Occurrence, Biology and Histo-Chemistry of Larval Trematodes in Pakistan.	Dr. Daler Khan, Zoology Department, University of Karachi, Karachi.	132,396.00	01.07.1975 to 30.06.1977
6.	S-KU/Bio (14)	Investigation on Wood Anatomy and Polysaccharide Components of Coniferous Trees of Pakistan.	Dr. Mahmood Ahmad, Botany Department, University of Karachi, Karachi.	198,579.00	01.06.1977 to 31.05.1980

7.	S-KU/Bio (13)	Utilization of Brackish Water for Growing Plants on Sandy Belts of Pakistan.	Dr. Rafiq Ahmad, Botany Department, University of Karachi, Karachi.	218,612.00	01.03.1975 to 28.02.1978
8.	S-KU/Bio (16)	Systematics, Biology & Seasonal Abundance of Plankton in Karachi Coastal Waters.	Dr.M.A. Khan, Zoology Department, University of Karachi, Karachi.	128,569.00	10.03.1975 to 09.03.1978
9.	S-KU/Bio (20)	Taxonomic Studies of some Marine Invertebrates of Northern Arabian Sea.	Dr. N.M. Tirmizi, Invertebrate Reference Museum, University of Karachi, Karachi.	200,721.00	01.03.1975 to 30.06.1978
10.	S-KU/Bio (35)	Palynological Studies of Plants Growing in Sindh Region.	Dr. Khurshid Mustafa Khan, Botany Department, University of Sindh, Jamshoro.	147,103.00	19.04.1974 to 31.04.1977
11.	P-AU/Bio (38)	Collection and Study of Fish Fauna of Punjab.	Dr. Ahmad Nadeem Sheri, Department of Zoology, University of Agriculture, Faisalabad.	108,269.00	25.07.1976 to 24.07.1977
12.	P-PU/Bio (40)	Ecology of some Avian & Mammalian Pests and their Role in the Economy of Farmland Ecosystem.	Dr. Mirza Azhar Beg, Zoology Department, University of Agriculture, Faisalabad.	89,067.00	01.07.1978 to 24.07.1979
13.	S-KU/Bio (36)	Survey of Trace Elements in Soils of Sind Province and their Effectiveness on Productivity of Wheat Paddy Cotton.	Dr.M.Ishaq Khan, Botany Department, University of Karachi, Karachi.	109,384.00	01.05.1975 to 30.04.1978

14.	S-KU/Bio (47)	Culturing of Micro-Algae Strains To Produce Animal Feed for Commercial Exploitation.	Dr.Jamil Ahmad, Botany Department, University of Karachi, Karachi.	138,365.00	01.07.1975 to 30.06.1977
15.	P-FD/Bio (56)	Bioliography of Fresh Water Food Fishes of Paksitan.	Dr. Nazir Ahmad, Ex. Direcotr Fisheries, 97-98 Old Rifle rang, Chowburgi Park, Lahore.	18,769.00	04.04.1975 to 03.07.1976
16.	S-SU/Bio (57)	Culture Collection of Algae of Pakistan at Sind University.	Dr. Shah Nawaz Arbani, Fresh Water Biology Department, University of Sind, Jamshoro	159,617.00	01.04.1975 to 31.08.1979
17.	C-IU/Bio (61)	Studies on Glycoprotein Hormones	Dr. M.H.Qazi, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	550,733/-	01.05.1975 to 31.07.1978
18.	C-IU/Bio (62)	Studies on the Mechanism of Synthesis, Release and Regulation of Human Chorionic Gonadotrophin in Syncytiotrophoblast Cells of Placenta.	Dr. Mohammad Saleem, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	199,936.00	01.05.1975 to 30.04.1977
19.	P-PU/Bio (50)	Survey of Silk-worm Diseases in Punjab, NWFP and Azad Kashmir.	Dr. Rafat Hussain Jafri, Zoology Department, University of Punjab, Lahore.	126,345.00	01.02.1975 to 31.01.1977
20.	P-CSIR/Bio (69)	Production of Amyolytic Enzymes for Industrial Use.	Dr.M.A. Qadeer, Food Technology & Fermentation Division, PCSIR Laboratories, Lahore.	42,304.00	02.10.1976 to 30.09.1979

21.	P-PU/Bio (9/1)	Investigation into the Occurrence, Biology and Histochemistry of Larval Trematodes in Pakistan. (Extension Project).	Dr. Daler Khan, Zoology Department, University of Punjab, Lahore.	53,349.00	01.07.1977 to 30.06.1978
22.	S-KU/Bio (68)	Bibliography of Marine Fishes and Fisheries of Pakistan.	Dr.M.Rahim Ullah Qureshi, Ex-Director, Marine Fisheries Department, Karachi.	17,768.00	01.02.1976 to 31.03.1977
23.	P-PU/Bio (50/1)	The Control of Silk-worm Diseases in Pakistan and Azad Kashmir (Extension Project)	Dr.Rafat Hussain Jafri, Zoology Department, University of Punjab. Lahore.	259,308.00	15.04.1977 to 14.04.1980
24.	F-PU/Bio (72)	Germination and Propagation of Pinus halepensis, P.roxburgi and P.wallichiana Seeds by Stratification and Chemical Treatment.	Dr. Ihsan Elahi, Botany Department, University of Peshawar, Peshawar.	91,862.00	01.09.1978 to 31.08.1980
25.	S-KU/Bio (54)	A Survey of Phyto-Planktons of Sind area and their Utilization as Food for Animal/Man.	Dr. Phool B.Zahid, Botany Department, University of Karachi, Karachi.	166,196.00	16.08.1977 to 15.02.1978 (6 months extension)
26.	PU/Bio (75)	Heterotropic Transplantation of Entire Muscles in Mammals.	Dr. Shahzad A. Mufti, Zoology Department, University of Punjab, Lahore.	86,448.00	01.07.1978 to 30.06.1980
27.	P-PU/Bio (79)	Studies on Wood Preferences of Termites.	Dr. M. Saeed Akhtar, Zoology Department, University of Punjab, Lahore.	86,448.00	01.07.1978 to 30.06.1980

28.	C-QU/Bio (83)	Studies on the Physiological Role and Regulation of Pancreatic Hormones.	Dr. Maqbool Ahmad, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	34,020.00	01.08.1977 to 31.12.1978
29.	C-QU/Bio (84)	Studies on the Breeding Biology and Behaviour of <i>Barbus pituitora</i> (Mahsheer).	Dr. Qazi Javed Iqbal, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	33,360.00	01.01.1978 to 31.12.1978
30.	P-AU/Bio (86)	Epidemiological Survey and Serogrouping of Type Strains of Leptosirois in Veterbrate Animals in Pakistan.	Dr. Mohammad Jamil, College of Veterinary Sciences, Lahore.	64,892.00	15.02.1978 to 14.02.1979
31.	F-HC/Bio (89)	Taste Aversion in Mammals.	Dr. Saeed-ul-Islam, Zoology Department, Government College, Haripur, Hazara.	14,688.00	01.12.1978 to 30.11.1979
32.	F-FI/Bio (70)	To Study Food Habits and Population Dynamics of Markhor.	Mr. Abdul Alim, Pakistan Forest Research Institute, Peshawar	60,579.00	01.07.1979 to 30.08.1981
33.	C-QU/Bio (83/1)	Studies on the Physiological Role and Regulation of Pancreatic Hormones. (Extension Project)	Dr.M.Maqbool Ahmad, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	33,820.00	01.11.1979 to 31.05.1980
34.	C-QU/Bio (88)	Studies on the Male Reproductive Physiology of Primates With Special Reference To Fertility Control.	Dr.M.Arslan, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	26,702.00	01.08.1979 to 31.01.1980

35.	S-ZSD/Bio (90)	Survey of the Reptilian Fauna of Sind	Dr. Mohammad Farooq Ahmad, Zoological Survey Department, Karachi.	69,350.00	01.10.1979 to 31.12.1981
36.	P-AU/Bio (40/1)	Control of some Avian and Mammalian Pests. (Extension Project)	Dr.Mirza Azhar Beg, Zoology Department, University of Agriculture, Faisalabad.	69,773/-	01.09.1980 to 31.08.1982
37.	P-PU/Bio (74)	Biological Control of Plant Diseases Caused by Pathogenic Fungi.	Dr.S.H.Iqbal, Botany Department, University of Punjab, Lahore.	35,692.00	01.07.1980 to 30.06.1982
38.	P-AU/Bio (86/1)	Epidemiological Survey and Sero Grouping of Type Strains of Leptospirosis in the Vertebrate Animals in Pakistan. (Extension Project)	Dr. Mohammad Jamil, College of Animal Husbandry, Lahore.	101,253.00	15.02.1979 to 14.02.1981
39.	P-PU/Bio (91)	Studies on the Occurrence, Bionomics and Epidemiology of Hydatid in Lahore Division and Its Effects on the Host Tissues.	Dr. Daler Khan, Zoology Department, University of Punjab, Lahore.	56,475.00	01.09.1980 to 31.08.1981
40.	S-KU/Bio (94)	Bioecological Survey of the Indus Delta Estuary.	Dr. Muzammil Ahmed, Institute of Marine Biology, University of Karachi, Karachi.	81,652.00	16.01.1980 to 15.01.1981
41.	S-KU/Bio (14/1)	Investigation on Wood Anatomy of Conifers and Polysaccharide components of Eucalyptus and Populus (Extension Project)	Dr. Mahmood Ahmed, Botany Department, University of Karachi, Karachi.	148,258.00	01.05.1981 to 30.04.1983

42.	S-KU/Bio (92)	Majid Crabs of the Arabian Sea.	Dr. Nasima M. Tirmizi, Zoology Department, University of Karachi, Karachi.	22,366.00	01.06.1981 to 31.05.1982
43.	P-PU/Bio (93)	Morpho-physiological and Metabolic Hazards of Chlorinated Insecticides on small mammals.	Dr. Abdul Rauf Shakoori, Zoology Department, University of Punjab, Lahore.	251,636.00	01.08.1980 to 30.11.1983
44.	S-KU/Bio (99)	Catalogue/Records of Zoological Museum of Karachi University.	Dr.S.Hamid Mahmood, Zoology Department, University of Karachi, Karachi.	94,063.00	01.10.1980 to 30.09.1983
45.	P-PU/Bio (102)	Studies on Vertebrate Fossils of Pakistan.	Dr. Abu Bakar, Zoology Department, University of Punjab, Lahore.	319,808.00	01.07.1982 to 30.06.1985
46.	B-BU/Bio (107)	Study on Biology of Vertebrate Pests Baluchistan.	Dr. Maqsood Ali, Zoology Department, University of Baluchistan, Quetta.	91,217.00	01.09.1983 to 31.01.1984
47.	S-KU/Bio (109)	A Qualitative Survey of Nodulating Ability of Legumes of Sind.	Dr. Mahmood Ahmad, Botany Department, University of Karachi, Karachi.	266,340.00	01.06.1982 to 31.05.1985
48.	S-SU/Bio (115)	Study on Taxonomy, Ecology and Economic Importance of Acrididae (Orthoptera) of Sind.	Dr. Mohammad Saeed Wagon, Zoology Department, University of Sind, Jamshoro.	100,009.00	15.08.1983 to 14.03.1985

49.	S-KU/Bio (116)	Chemotaxonomic Studies in Angiosperms (from Pakistan) with Reference to Phenolics.	Dr. Khadija Aziz, Department of Botany, University of Karachi, Karachi.	249,023.00	01.08.1983 to 31.07.1986
50.	S-AU/Bio (122)	Studies on Incidence, Taxonomy and Seasonal Variation to Ecto and Endo Parasites of Wild Birds in Sind.	Dr. Shah Nawaz Buriro, Department of Parasitology, Sind Agriculture University, Tandojam.	166,078.00	01.01.1984 to 31.12.1986
51.	C-PMNH/Bio(123)	Ecotaxonomic Evaluation of Valuable Plants of Baluchistan.	Dr. Mrs. Saddiqa Malik, Botanical Sciences Division, Pakistan Museum of Natural History, Islamabad.	56,000.00	01.05.1985 to 30.04.1986
52.	C-QU/Bio (125)	Study of Epididymal Function in Rhesus Monkey (Macaca-mulatta) Androgen dependent Proteins, their Characterization and Regional Distribution.	Dr. Azra Khanum, Deptt. of Biological Sciences, Quaid-I-Azam University, Islamabad.	60,258.00	01.09.1984 to 31.08.1985
53.	B-BU/Bio (111)	Soil Vegetation and Termite. Their Inter relationship in Baluchistan.	Dr. Safdar Ali Kiyani, Department of Botany, University of Baluchistan, Quetta.	267,695.00	01.10.1983 to 30.09.1986
54.	P-PU/Bio (117)	Biology of <i>Bellamaya bengalensis</i> With Special Reference to its reaction to other Molluscs and Digenetic Trematiode Parasites.	Dr. K.P. Lone, Deptt. of Marin Biology, University of Punjab, Lahore.	258,868.00	15.11.1983 to 14.11.1986
55.	P-PU/Bio (121)	Effects of Heavy Metals with Special Referenc to Cadmium & Lead, on Common Edible Fish of Pakistan.	Dr. Abdul Rauf Shakoori, Department of Zoology, University of Punjab, Lahore.	279,028.00	01.02.1985 to 31.01.1988

56.	S-KU/Bio (151)	Clonal Propagation of Carica papaya and Extraction of Papain from It.	Dr. Khalida Khatoon, Department of Botany, University of Karachi, Karachi.	186,375.00	25.09.1987 to 24.09.1988
57.	P-PU/Bio (149)	Hormonal Influences on Skeletal. Muscle Grafts.	Prof. Dr. Shahzad A. Mufti, Department of Zoology, University of Punjab, Lahore.	2,43,100.00	01.05.1986 to 31.04.1988
58.	P-PU/Bio(31)	Texonomic Studies of Incidences of Seasonal Fluctuation of Ecology of Parasites of the Fresh Water Fishes of Kingar Lake	Dr. Ahmad Mohiuddin, Faculty of Sciences, University of Sindh, Jamshoro.	48,175.57	01.02.1975 to 31.01.1978
59.	S-KU/Bio(132)	Extrachromosomal Elements for In-Viro Genetic Engineering	Dr. Miss Hajira Khatoon, Department of Microbiology, University of Karachi, Karachi.	328,496.60	01.09.1985 to 31.08.1988
60.	P-PU/Bio(136)	Pest Status, Food Preferences and Control of Termites of Pakistan.	Dr. M. Saeed Akhtar, Department of Zoology, University of the Punjab, New Campus, Lahore.	386,991.00	01.07.1986 to 30.06.1989
61.	P-PU/Bio(141)	Studies on the Siwalik Artiodactyla (Suoidea Anthracotherioidea and Cevoidea).	Dr. Abu Bakkar, Department of Zoology, University of the Punjab, New Campus, Lahore.	304,299.80	01.02.1986 to 31.01.1989
62.	C-QU/Bio(144)	Effect of Phytohormones applications in the amelioration of Water and Salt Stress in Legumes.	Dr. Asghari Bano, Department of Biological Sciences Quaid-i-Azam University, Islamabad.	52,477.47	24.02.1986 to 23.02.1987

63.	P-TICR/Bio(145)	Collection of Record Reptelian Fauna of TableLand Potowar Punjab, Pakistan.	Dr. Mohammad Sharif Khan, Department of Zoology, Government T.I. College, Rabwah, District Jhang	165,647.00	01.05.1986 to 30.09.1989
64.	B-BU/Bio(143)	Study of Genetic Potential of Local Breeds of Sheep/Goat of Quetta.	Mr. Afsar Mian, Department of Zoology, University of Baluchistan, Quetta.	36,598.13	01.06.1987 to 31.05.1988
65.	S-KU/Bio(116/1)	Chemotaxonomic Studies in Angiosperms (from Pakistan) with reference to Phenolics.	Dr. Khadija Aziz, Department of Botany University of Karachi, Karachi.	97,246.45	01.06.1987 to 31.05.1988
66.	S-AU/Bio(152)	Quantitative Survey of Population Trends of <i>Heliothis armigera</i> and its Natural Enemies on Various Plants in Hyderabad.	Dr. Mohammad Khan Lohar, Department of Entomology, Sindh Agriculture University, Tandojam.	94,525.00	01.09.1988 to 31.08.1989
67.	P-PU/Bio(153)	Studies on the Stability of Hybrid carrying Segments of <i>Bacillus subtilis</i> in <i>E. coli</i>	Dr. Shahida Hussain, Department of Botany, University of the Punjab, Lahore.	482,450.00	01.11.1987 to 31.10.1990
68.	P-BZU/Bio(154)	Ecological Guidelines for Exploitation of Natural Resources in Thar and Cholistan Sand Dunes.	Dr. M.H. Bokhari, Department of Pure and Applied Biology, Bahauddin Zakariya University, Multan.	162,902.00	01.09.1988 to 31.08.1991
69.	P-GC/Bio(156)	Taxonomy and Biology of Entomostraca of Northern Punjab.	Dr. Mohammad Saleem, Department of Zoology, Government College, Lahore.	386,430.00	01.07.1987 to 30.06.1990

70.	B-BU/Bio(160)	Parasitic Survey of Wild Birds in Baluchistan Province	Mr. Muhammad Nawaz, Department of Zoology, University of Baluchistan, Quetta.	53,032.00	01.08.1988 to 31.07.1989
71.	S-KU/Bio(167)	A Guide to the Malacostraca of the Northern Arabian Sea.	Dr. N.M. Tirmizi, Marine Reference Collection Centre, University of Karachi,” Karachi.	63,090.00	01.12.1988 to 30.04.1990
72.	PMNH-Bio(148)	Ecological Studies on the Vegagation of Swat District.	Dr. Muhammad Rashid Awan, Pakistan Museum of Natural History, Islamabad.	95,000.00	21.09.1989 to 20.09.1991
73.	PMNH-Bio(150)	Ecological Studies on Mushrooms and Toadstools of Kaghan Valley.	Dr. Kishwar Nazir, Pakistan Museum of Natural History, Islamabad.	60,350.00	25.04.1989 to 24.04.1990
74.	S-KU/Bio(161)	Survey and Determination of Resistance in Mosquitoes and Houseflies of Karachi Region.	Dr. S.N.H. Naqvi Department of Zoology, University of Karachi, Karachi.	226,056.00	01.09.1990 to 31.08.1992
75.	P-PU/Bio(173)	Studies on the Siwalik Proboscidea and Reptilia Collected under the Project Nos. P-PU/Bio(102) and Bio (141).	Dr. Abu Bakar, Department of Zoology, University of the Punjab, Lahore.	60,072.00	03.06.1990 to 02.06.1991
76.	P-PU/Bio(174)	Teratogenicity and Embryotoxicity of two Commonly Used Insecticides in Mice.	Dr. Shahzad A. Mufti, Department of Zoology, University of the Punjab, Lahore.	202,404.00	01.09.1990 to 31.08.1992

77.	F-PU/Bio(177)	Production of Medicinally Important Metabolites by Rauwolfia Cell Cultures	Prof. Dr. Ihsan Ilahi, Department of Botany, University of Peshawar, Peshawar.	374,640.00	01.06.1992 to 31.05.1994
78.	S-KU/Bio(170)	Plasmids of Gram Positive Cocci as Tools for Genetic Engineering.	Dr. Sheikh Ajaz Rasool, Department of Microbiology, University of Karachi, Karachi.	370,403.00	01.02.1991 to 30.04.1993
79.	P-PU/Bio(172)	Termites of Desert Zones of Pakistan.	Dr. Mohammad Saeed Akhtar, Department of Zoology, University of the Punjab, Lahore.	228,563.00	01.08.1991 to 31.07.1993
80.	AJK-UCR/Bio(178)	Exploration Survey of Nodulated Wild Plants Carrying on Atomospheric Nitrogen Fixation in Forest Areas of District Poonch, Azad Kashmir.	Dr. Mohammad Fasahat Ali Khan, University College of Agricultural, Rawalakot, Azad Kashmir.	58,302.00	15.07.1991 to 14.07.1993
81.	S-KU/Bio(181)	Systematic Distribution of the Flavonoids in Papilionoideae.	Dr. Khadija Aziz, Department of Botany University of Karachi, Karachi.	168,158.00	25.07.1991 to 24.06.1993
82.	P-PU/Bio(187)	Transofrmation Studies of Rice (Oryza sativa)	Dr. Tayyab Hussain, Centre for Molecular Biology, University of the Punjab, Lahore.	204,815.00	01.07.1992 to 30.06.1995
83.	C-QU/Bio(192)	Role of Follicle Stimulating Hormone (FSH) on Gonadal Function in Immature Monkey: Scientific and Synergistic Effects.	Dr. M. Arsalan, Department of Biological Sciences Quaid-i-Azam University, Islamabad.	133,493.80	01.06.1992 to 30.11.1993

84.	S-KU/Bio(194)	Studies on Mass Production of Biocontrol Agents for Application in Plant Disease Control.	Dr. A. Ghaffar, Department of Botany University of Karachi, Karachi.	361,083.00	01.07.1992 to 30.06.1995
85.	S-KU/Bio(200)	Combined Effect of VAM-Fungi and Rhizobium for Increasing Growth and Yield of Soyabean.	Dr. M. Jalaluddin, Department of Botany University of Karachi, Karachi.	294,239.00	01.06.1992 to 31.05.1995
86.	S-KU/Bio(201)	Ecophysiology of Indus Delta Mangroves.	Dr. M. Ajmal Khan, Department of Botany University of Karachi, Karachi.	379,786.00	01.12.1992 to 30.11.1994
87.	C-QU/Bio(225)	Study of Hereditary Disorders in Pakistani Human Kindreds.	Dr. Muhammad Ahmad, Department of Biological Sciences, Quaid-i-Azam University, Islamabad.	60,271.00	01.07.1994 to 30.06.1995
88.	S-KU/Bio(166)	Screening and Isolation of Metal Resistant Bacteria to be used for Environmental Pollution.	Dr. Nuzhat Ahmed, Department of Genetics, University of Karachi, Karachi.	307,632.00	01-11-1998 to 31-10-1990
89.	P-BZU/Bio (189)	Improvement of Salt Tolerance in Sunflower (<i>Helianthus annuus</i> L.) by Selection & Breeding.	Dr. M. Ashraf, Institute of Pure and Applied Biology, Bahauddin Zakariya University, Multan.	373,817.00	01-09-1992 to 31-8-1995
90.	S-KU/Bio (186)	Studies on Plasmid Associated Bacteriocin Production by <i>Lactobacille</i> .	Dr. Roquya Siddiqui,, Department of Microbiology, University of Karachi, Karachi.	268,373.76	01-07-1993 to 30-06-1996

91.	S-KU/Bio (209)	Lipases: The Multifunctional Enzyme of Microbial Origin.	Dr. Nusrat Jamil Department of Microbiology, University of Karachi, Karachi.	330,765.25	01-06-1995 to 30-05-1997
92.	S-AU/Bio (210)	Virus Free Clonal Propagation of Banana In Vitro	Dr. Mir Muhammad Rajper, Department of Plant Breeding & Genetics, Agriculture University, Tandojam, Sindh.	375,090.04	01-06-1995 to 31-05-1998
93.	P-BZU/Bio (211)	Isolation and Characterization of Cytokinin Mutants of Arabidopsis thaliana	Dr. Javed Iqbal Mirza, Institute of Pure & Applied Biology, Bahauddin Zakariya University, Multan.	210,899.16	01-08-1993 to 31-07-1995
94.	S-AKU/Bio(217)	Effect of Benzodiazepines Administered to Pregnant & Lactating Rats on the Reproductive Functions of their Offspring.	Dr. Arif Siddiqui, Department of Physiology, The Agha Khan University Medical College, Karachi.	400,112.50	01-09-1994 to 31-01-1998
95.	P-NIBGE/Bio (219)	Construction of Genetically Engineered Noval Cellulolytic Yeast Strain for step Conversion of Biomass Produced on Saline Land for Ethanol Production.	Dr. Shaukat Pervez, Nuclear Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad.	244,139.00	10-08-1994 to 09-08-1997
96.	S-KU/Bio (222)	Plasmids of Indigenous Pseudomonads: Molecular Characterization and Gene Manipulation.	Dr. Sheikh Ijaz Rasool, Department of Microbiology, University of Karachi, Karachi.	569,629.35	01-09-1994 to 31-08-1997

97.	AJK-UCR/Bio (218)	Survey of Rice Pests in Azad Jammu & Kashmir and Potential of Dragon Flies as Biocontrol Agents.	Dr. Abdul Khaliq, University College of Agriculture, Rawalakot, Azad Jammu & Kashmir.	206,882.00	01-07-1995 to 30-06-1997
98.	P-GC/Bio (221)	Development of <i>Aspergillus niger</i> Strain for Citric Acid Fermentation of Molasses.	Dr. Ikram-ul-Haq, Department of Botany, Government College, Lahore.	277,581.36	01-06-1995 to 31-05-1997
99.	P-CSIR/Bio(223)	Amranthin Production through Cell Suspension Culture of <i>Celosia cristata</i> .	Dr. A.F.M. Ehteshamuddin, Biotechnology & Food Research Centre, PCSIR Labs. Complex, Lahore.	244,889.52	01-06-1995 to 31-05-1997
100.	S-SU/Bio(198)	Acrididae of the Punjab.	Dr. Muhammad Saeed Wagan, Department of Zoology, University of Sindh, Jamshoro.	373,474.88	01-01-1995 to 31-12-1998
101.	P-NIAB/Bio (243)	Production and Evaluation of Immunopotentiators Adjuvanted Haemorrhagic Septicaemia Vaccine in Continuous Culture.	Dr. Tariq Mehmood Choudhry, Nuclear Institute for Agriculture & Biology (NIAB), Faisalabad.	216,462.89	01-02-1996 to 31-01-1999
102.	S-KU/Bio (233)	Cage Culture of <i>Lutjanus Jhoni</i> (Suapprrers) and <i>Pomadasy kaakan</i> (Grunts) Marine Commercial Fishes.	Dr. S. Makhdoom Hussain, Centre of Excellence in Marine Biology, University of Karachi, Karachi.	356,289.70	23-06-1996 to 22-06-1998

103.	S-KU/Bio (193)	Use of Rhizobia in the Integrated Control of Root Rot Disease of Crop Plants.	Dr. Syed Ehteshamul Haque, Biological Research Centre, University of Karachi. Karachi.	405,315.00	15-06-1996 to 14-06-1999
104.	P-AU/Bio (238)	Potentials of Owls as Controlling Agents for Rats and Mice Population in Cultivation.	Dr. Mirza Azhar Beg, Department of Zoology & Fisheries, University of Agriculture, Faisalabad.	450,515.86	01-07-1996 to 30-06-1999
105.	S-AKU/Bio (239)	Elucidation of the Structure and Function of a new Form of Dihydrofolate Reductase.	Dr. Muhammad Perwaiz Iqbal, Department of Biochemistry, The Aga Khan University Medical College, Karachi.	448,975.40	01-10-1996 to 30-09-1999
106.	F-GU/Bio (247)	Soma-Clonal Variation in Sugarcane through Tissue Culture & Subsequent Screening for Salt Tolerance .	Dr. Hamid Ullah Khan, Department of Plant Breeding & Genetics, Gomal University, D. I. Khan.	384,536.86	25-06-1996 to 24-06-1999
107.	S-KU/Bio(260)	Systematics and Ecology of Polychaete Worms of Pakistan Coastal Waters.	Dr. Javed Mistaquim, Centre of Excellence in Marine Biology, University of Karachi, Karachi.	77,020.00	01-06-1996 to 31-05-1997
108.	P-PU/Bio (228)	Evaluation of the Role of Salt Tolerant Bacteria in Developing Resistance in Plants to Salt Stress Conditions.	Dr. Shahida Hasnain, Department of Botany, University of the Punjab, Lahore.	653,700.16	01-07-1997 to 30-06-2000

109.	P-PU/Bio (251)	Biodiversity: I. Studies on Termites of Gilgit and Skardu with Emphasis on Heterotermitinae.	Dr. M. Saeed Akhtar, Department of Zoology, University of the Punjab, Lahore.	261,222.00	10-01-1998 to 09-01-2000
110.	C-QU/Bio (264)	Study of Hereditary Disorders in Pakistani Kindreds-II.	Dr. Mahmud Ahmed, Department of Biological Sciences, Quaid-i-Azam University, Islamabad.	115,473.18	01-11-1997 to 31-10-1998
111.	P-PU/Bio (228)	Evaluation of the role of salt-tolerant bacteria in developing resistance of plants to salt stress conditions.	Dr. Shahida Husnain University of the Punjab, Lahore.	679, 171.00	07.1997 to 30. 06.2000
112.	C-NARC/Bio (271)	Biology and host pathogen interaction in powdery scab of potato in Pakistan.	Mrs. Shamim Iftikhar Crop Diseases Research Institute, NARC, Islamabad.	320, 288.00	07.1997 to 30. 06.2000
113.	P-GC/Bio (283)	Citric acid fermentation by mutant strain of <i>Aspergillus niger</i> GCM-7 in stirred fermenter.	Dr. Ikram-ul-Haq Government College, Lahore	467, 960.00	01. 08.1998 to 31. 07.2000
114.	C-PMNH/Bio (311)	Eco-taxonomic studies on algal flora of Pakistan (Punjab & Islamabad).	Dr. Muhammad Khan Laghari Pakistan Museum of Natural History (PMNH), Islamabad.	141, 880.00	01. 06.2000 to 31. 05.2001
115.	C-PMNH/Bio (295)	Studies on taxonomy and traditional uses of economically important plant of Chitral.	Dr. Muhammad Rashid Awan Pakistan Museum of Natural History, Islamabad.	294,984.00	08.08.1999 to 07.08.2001

116.	P-PU/Bio (187)	Transformation studies of rice (<i>Oryza Sativa</i>).	Dr. Khalid Javed Baig Zoological Science Division, PMNH, Islamabad	200,945.00	01-10-2001 to 30-09-2004
117.	C-PMNH/Bio (315)	Ecological studies of the reptilian fauna of Cholistan desert.	Dr. Wasim Ahmad Department of Biological Sciences, Quaid-i-Azam University Islamabad.	824,435.00	01-06-2000 to 31-05-2003
118.	C-QU/Bio (323)	Identification of loci in Pakistan kindred with ectodermal dysplasia.	Dr. Ikram-ul-Haq Department of Botany, Govt. College Lahore.	618,946.00	01-09-2001 to 31-08-2004
119.	P-PU/Bio (204)	Biodegradation of DCP and TCE by tobacco.	Dr. Zahoor Ahmed Associate Professor Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore.	270,841.00	01-07-1993 to 30-06-1996 adopted in 2008
120.	P-AU/Bio(286)	Taxonomy and ecology of spider communities of citrus orchards and role of spiders as predator.	Dr. Shakila Khalid Associate Professor University of Agriculture, Faisalabad.	239,293.00	01-06-1999 to 31-05-2002 adopted in 2008
121.	P/NIBGE/Bio(317)	Introduction of salinity tolerance in plants through the use of halotolerance conferring genes from bacteria and fungi: A transgenic approach.	Zahid Mukhtar Principal Scientist National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad.	422,661.00	23-08-2001 to 30-06-2006 adopted in 2008
122.	P-NIAB/Bio(324)	Use of Isozyme markers in chickpea breeding.	Hina Ali Syed Senior Scientist Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad.	439,463.00	10-05-2002 to 09-05-2006 adopted in 2008

123.	P-AU/Bio(326)	Evaluation of indigenous trivalent vaccines for the control of mastitis in buffaloes and cows.	Dr. Ghulam Muhammad Professor University of Agriculture, Faisalabad.	310,525.00	01-09-2002 to 31-08-2004 adopted in 2008
124.	AJK-UCR /Bio(333)	Distribution, population status and conservation of cheer Pheasant (<i>Catreus wallichi</i>) in Jhelum valley, Muzaffarabad, Azad Kashmir, Pakistan.	Muhammad Siddique Awan Associate Professor University of Azad Jammu & Kashmir, Muzaffarabad.	256,843.00	01-12-2003 to 06-04-2006 adopted in 2008
125.	S-SU /Bio(338)	Taxonomy and biology of <i>Hieroglyphus</i> spp. (Hemiacridinae: Acrididae: Orthoptera).	Dr. Muhammad Saeed Wagan Professor University of Sindh, Jamshoro.	552,758.00	16-09-2003 to 09-12-2006 adopted in 2008
126.	P-BZU/Bio (340)	Conservation biology of larks (<i>Alaudidae</i>) in Pakistan.	Dr. Aleem Ahmed Khan Associate Professor Bahauddin Zakariya University, Multan	174,840.00	01-11-2002 to 30-10-2005 adopted in 2008
Total Amount (Rs.)				25,625,583.69	

BIOTECHNOLOGY AND GENETIC ENGINEERING

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Cost in Rupees	Date of Initiation/ Completion
1.	Biotech/P-NIBGE/Agr (33)	Engineering phage-type promoters to over express bi-functional proteins in rice proplastids to develop biosafe transgenic plants.	Dr. Muhammad Sarwar Khan National Institute of Biotechnology and Genetic Engineering (NIBGE), Faisalabad.	674,686.00	01.03.2002 to 28.02.2005
2.	Biotech/C-NARC/Agr (36)	Multiplication of virus free banana plants and their field assessment.	Mr. Aish Muhammad Senior Scientific Officer National Agricultural Research Centre (NARC), Islamabad.	528,798.00	01.07.2003 to 30.06.2006
3.	Biotech/P-NIAB/Agr (38)	Characterization of virulent races of blight and wilt pathogens using biological and DNA molecular marker techniques and evaluation of chickpea germplasm for resistance against these diseases.	Dr. Farhat Fatima Jamil Deputy Chief Scientist Nuclear Institute of Agriculture and Biology (NIAB), Faisalabad.	7,23,753.00	01.10.2001 to 30.09.2004 (9 months extension)
4.	Biotech/P-GC/Bio (37)	Optimization of cultural conditions on the biosynthesis of xylanase by locally isolated aspergillums niger.	Prof. Dr. Masoom Yasinzai Institute of Biochemistry Sciences, University of Balochistan, Quetta.	819,218.00	01-12-1999 to 30-11-2002
5.	Biotech/S-KU/Med (42)	Antipsychotic drugs blood dyscrasia and hematological safety.	Dr. Nikhat Siddiqui Professor University of Karachi, Karachi.	396,617.00	16.07.2003 to 15.07.2005
Total Amount (Rs.)				2,419,319.00	

CHEMICAL SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Expenditure (Rs.)	Date of Initiation & Completion
1.	C-QU/Chem (14)	Studies on thermodynamics of interaction of Solid Catalysts with Gases, Liquids and Vapours	Dr.M.Afzal, Chemistry Department, Quaid-i-Azam University, Islamabad.	280,940.00	01.06.1974 to 31.05.1977
2.	F-PU/Chem (19)	Chemical Analysis of Minerals for their Commercial Exploitation.	Dr. M. Sakhawat Hussain, Chemistry Department, University of Peshawr, Peshawr	64,725.00	15.02.1975 to 14.02.1978
3.	F-PU/Chem (22)	Studies of the interaction of Organic Phosphates with Metal Ions and Relations of the Molecular Structure to Biological Activity.	Dr. M. Sakhawat Hussain. Chemistry Department, University of Peshawar, Peshawar	63,455.00	01.01.1975 to 31.12.1977
4.	F-PU/Chem (38)	Influence of Ligand Structure on the Coordination Properties and Reactivity of Transition Metals.	Dr.S.Marhboob Ali, Chemistry Department, University of Peshawar, Peshawar.	56,608.00	01.01.1975 to 31.12.1977
5.	S-KU/Chem (26)	Structure of Bio-polymer and Interaction of Ribo-flavin with Amino-Acids Proteins.	Dr.M.Abdul Haleem, Biochemistry Department University of Karachi, Karachi	70,886.00	01.04.1975 to 31.03.1978
6.	S-SU/Chem (30)	Chemical Analysis and Utilization of Certain Sub-Standard on Un-Economic Minerals and Ores of Pakistan.	Dr. Naseem Naqvi, Institute of Chemistry, University of Sind, Jamshoro.	123,728.00	01.05.1974 to 30.04.1977

7.	S-CSIR/Chem (40)	Effect of Germination on the Nutritive Value and Digestibility of Proteins and Carbohydrates of Gram and Pea.	Dr.S.A.Warsi, PCSIR Laboratories, Karachi.	77,038.00	15.04.1975 to 14.04.1978
8.	P-CSIR/Chem (49)	Production of Single Cell Protein from Industrial Wastes.	Dr. Yaqoob Chaudhry, Food Technology & Fermentation Division, PCSIR Laboratories, Lahore.	246,694.00	02.05.1975 to 30.04.1978
9.	S-KU/Chem (10)	Structural and Synthetic Studies in some β -Carboline Bases.	Dr. Salim-uz-Zaman Siddiqui, HEJ Post Graduate Institute of Chemistry, University of Karachi, Karachi.	297,961.00	01.09.1975 to 31.08.1978
10.	S-KU/Chem (18)	Bio-Chemical Studies on Plants infected by Parasitic Nematodes.	Dr. Zain-ul-Abidin, Biochemistry Department, University of Karachi Karachi.	156,233.00	01.05.1975 to 30.06.1977
11.	C-IU/Chem (41)	Infra-Red Studies of Organic Compounds.	Dr.Athar Yaseen Khan, Chemistry Department, Quaid-I-Azam University, Islamabad.	71,234.00	02.05.1975 to 01.05.1977
12.	P-CSIR/Chem (51)	Use of Activated Clays for Prevention of Infestation in Stored cereal Grains.	Dr.S.M.Ali, PCSIR Laboratories, Lahore.	74,650.00	01.06.1975 to 31.05.1978
13.	S-KU/Chem (5)	Chemistry of Nucleosides.	Dr.G.R.Niaz, Applied Chemistry Department. University of Karachi, Karachi	40,134.00	01.01.1976 to 30.06.1979

14.	S-SU/Chem (46)	Study on Kinetics and Macromolecules of Various Cells in Culture.	Dr.ZainulAbedin, Biochemistry Department University of Karachi Karachi.	386,013.00	01.09.1974 to 30.06.1979
15.	S-KU/Chem (7)	New Calorimetric Technique and Measurement of Heat of Mixing of Organic Liquids.	Dr. Akhlaq Ahmad, Applied Chemistry Department University of Karachi, Karachi.	90,927.00	01.03.1977 to 29.02.1980
16.	S-SU/Chem (13)	Chemical Investigation on Plant Material of Sind.	Dr. Munir A.Qureshi, Institute of Chemistry, University of Sind, Jamshoro.	79,920.00	01.03.1975 to 28.02.1978
17.	S-KU/Chem (17)	Chemical and Pharmacological Investigations of Seeds of Abrus precatorius.	Dr. M.E. Hamdard, Department of Chemistry, University of Karachi, Karachi.	35,000.00	01.07.1976 to 31.12.1977
18.	P-PU/Chem (27)	Characterization and Production of Enzymes of Commercial Importance.	Dr.M.I.D.Chughtai, Institute of Chemistry, Punjab Univerity, Lahore.	304,043.00	01.02.1977 to 31.03.1980
19.	P-GU/Chem (53)	Investigation of Alkaloids Present in Plants Native to Pakistan.	Dr.G.A.Miana, Chemistry Department, Gomal University, D.I.Khan	237,945.00	22.08.1976 to 21.08.1979
20.	C-IU/Chem (54)	Preparation of New Medicinal Compounds by Structure Modification of Certain Existing Medicinal Compounds and their Study.	Dr.Chrsity Munir, Chemistry Department, Quaid-I-Azam University, Islamabad.	131,776.00	01.09.1976 to 31.05.1979

21.	F-FU/Chem (60)	Molecular Weight and Size Measurements of Colloidal Polymers and Macromolecular Materials by Light Scattering Techniques.	Dr. Noor Ahmad, Chemistry Department, University of Peshawar, Peshawar.	128,426.00	01.11.1976 to 31.03.1980
22.	S-SU/Chem (65)	Reactions of Thionyl Chloride with Sucrose, Trehalose, Methyl- β -Maltoside and β -Sactoside.	Dr.M.Yousaf khan, Institute of Chemistry, Sindh University, Jamshoro.	96,745.00	01.11.1976 to 31.10.1979
23.	C-IU/Chem (70)	A Study of Factors influencing the Stability of Five-Membered Lactone Rings.	Dr.Mashooda Hasan, Chemistry Department, Quaid-I-Azam University, Islamabad.	50,120.00	15.06.1976 to 14.06.1977
24.	P-CSIR/Chem (66)	Development of Steroid Chemistry because of its Pharmaceutical as well as Socio-economic Impact.	Dr.Karim Ullah, PCSIR Laboratories, Lahore.	248,919.00	01.09.1977 to 31.08.1980
25.	C-IU/Chem (73)	Kinetic, Electrochemical and Optical investigation of Herbicide Methylviologen (Paraquat) and Related Compounds.	Dr. Mahboob Mohammad, Chemistry Department, Quaid-I-Azam University, Islamabad.	122,367.00	01.08.1977 to 31.07.1980
26.	S-SU/Chem (74)	Conversion of Petroleum Hydrocarbon into Cheap and Effective Insecticides/Pesticides.	Dr.Syed Nazar-ul-Husnain, Biological Research Centre, University of Karachi, Karachi.	16,820.00	21.07.1978 to 20.01.1979
27.	P-CSIR/Chem (75)	Fortification of Human Diet with Leaf Protein Concentrate.	Dr. Abdul Salam Sheikh, PCSIR Laboratories, Lahore.	47,006.00	01.12.1976 to 30.05.1978

28.	S-KU/Chem (44)	Chemical Composition of Hair Root as Criteria of Protein Malnutrition.	Dr. Babra Zain, Biochemistry Department, University of Karachi, Karachi.	263,095.00	01.06.1974 to 05.05.1977
29.	C-IU/Chem (56)	Chemical Investigation of Plants Known to have Significant Pharmacological Activity.	Dr. Mrs. Mashooda Hasan, Chemistry Department, Quaid-I-Azam University, Islamabad.	126,134.00	01.08.1976 to 15.08.1979
30.	F-GU/Chem (79)	Tumor Inhibitor Diterpenoids.	Dr. G.A. Miana, Chemistry Department, Gomal University, D.I. Khan.	42,000.00	01.10.1977 to 30.09.1978
31.	P-CSIR/Chem (76)	Enzymes Hydrolysis of Raffinose for the Improvement of Sugar Recovery in Sugar Beet Processing.	Dr. Abdul Qadir, Food Technology & Fermentation Division, PCSIR Laboratories, Lahore.	52,015.00	16.06.1977 to 15.06.1979
32.	F-PU/Chem (77)	Analytical Uses of Chelating Agents.	Dr. M. Skhawat Hussain, Chemistry Department, University of Peshawar, Peshawar.	27,380.00	15.11.1976 to 14.11.1979
33.	C-IU/Chem (81)	Removal of Olefins, Napthenes and Aromatics from Various Fractions of Petroleum.	Dr. Mohammad Afzal, Chemistry Department, Quaid-I-Azam University, Islamabad.	151,241.00	01.06.1977 to 31.05.1980
34.	C-QU/Chem (78)	Terpenes from Cedrus deodara.	Dr. Naeema Khan, Chemistry Department, Quaid-I-Azam University, Islamabad.	51,193.00	01.12.1976 to 28.02.1978

35.	C-QU/Chem (82)	Studies on Catalytic Activity of Nickel in the Production of Vegetable Ghee.	Dr.Mohammad Afzal, Chemistry Department, Quaid-I-Azam University, Islamabad.	84,880.00	01.06.1977 to 31.05.1980
36.	P-PU/Chem (83)	Isolation, Purification and Structural Determination of Biological and Pharmacologically Active Alkaloids.	Dr.M.I.D Chughtai, Chemistry Department University of Punjab, Lahore.	25,302.00	01.01.1980 to 31.12.1980
37.	S-KU/Chem (84)	Isolation and Structural Studies on the Chemical Constituents of some Indigenous Flowering Plants.	Dr.Viqar-ud-Din Ahmad, HEJ Post-graduate Institute of Chemistry, University of Karachi, Karachi.	29,788.00	01.10.1978 to 30.09.1979
38.	S-KU/Chem (86)	Investigation of Fungal Metabolites of Fusarium chlamydosporum and Fusarium moniliforme.	Dr. atta-ur-Rehman, HEJ Postgraduate Institute of Chemistry, University of Karachi, Karachi.	26,408.00	03.07.1978 to 01.03.1980
39.	F-GU/Chem (87)	Transition Metal Complexes of Medicinal Compounds.	Dr. Abdul Rauf, Chemistry Department, Gomal University, D.I.Khan.	61,402.00	19.01.1979 to 18.01.1981
40.	S-KU/Chem (89)	Isolation Characterization and Biological Activity of the Proteins Albicans and Tropicalis.	Dr.Zafar H.Zaidi, HEJ Postgraduate Institute of Chemistry, University of Karachi, Karachi.	31,824.00	24.05.1978 to 23.05.1979
41.	S-KU/Chem (10/1)	Structural and Synthetic Studies of some β -Carboline Bases. (Extension Project)	Dr. Salim-uz-Zaman Siddiqui, HEJ Postgraduate institute of Chemistry, University of Karachi, Karachi.	159,825.00	01.05.1979 to 30.04.1982

42.	S-CSIR/Chem (91)	Effect of Germination on the Protein and Carbohydrate Fractions of Legumes and Study of other Constituents of Nutritive Significance.	Dr.S.A.Warsi, Associate Scientist, PCSIR Laboratories, Karachi.	53,547.00	16.04.1979 to 30.06.1981
43.	C-QU/Chem (94)	Isolation, Identification and Structural Modification of some of the Benzyl Isoquinoline Alkaloids for their use as Anti-Cancer Agents.	Dr.Roshan Ahmad, Chemistry Department, Quaid-I-Azam University, Islamabad.	99,850.00	16.08.1980 to 15.08.1981
44.	S-KU/Chem (96)	Synthetic and Isolation Studies Towards Vinblastine and Vincristine and their Novel Derivatives.	Dr.ata-ur-Rehman, HEJ postgraduate Institute of Chemistry, University of Karachi, Karachi.	431,950.00	01.10.1979 to 30.09.1982
45.	S-KU/Chem (100)	Reactions and Industrial Application of Ortho-Phenyl Benzaldehyde.	Dr.S.A Faseeh, Chemistry Department, University of Karachi, Karachi	14,274.00	01.07.1979 to 30.09.1982
46.	C-QU/Chem (101)	Synthesis and Testing of 1,2,4 Triazine as Potential Antimicrobials.	Dr.Roshan Ahmad, Chemistry Department, Quaid-I-Azam University, Islamabad.	41,761.00	15.09.1979 to 31.03.1981
47.	S-KU/ Chem (89/1)	Isolation, Characterization and Biological Activity of the Proteins Albicans and Tropicalis. (Extension Project).	Dr.Zafar H.Zaidi, HEJ Postgraduate institute of Chemistry, University of Karachi, Karachi.	27,980.00	01.07.1980 to 30.06.1981
48.	P-CSIR/Chem (93)	Production of Various Types of Enamels.	Dr.M.A. Beg, PCSIR Laboratories, Lahore.	36,667.00	01.01.1981 to 31.12.1981

49.	S-SU/Chem (98)	Effect of Snake Venom on Cancerous Cells and other Proteins.	Dr.Din Mohammad Sheikh, Physiology and Biochemistry Department, University of Sindh, Jamshoro.	90,174.00	01.09.1980 to 31.08.1981
50.	C-QU/Chem (99)	Investigation of Hydrolysis Mechanism of β -Lactones.	Dr.Mashooda Hassan, Chemistry Department, Quaid-I-Azam University, Islamabad.	36,206.00	15.07.1980 to 14.01.1982
51.	P-CSIR/Chem (103)	Microbial Production of Xanthan Gum for Industrial Use.	Dr.M.A.Qadeer, Food Technology and Fermentation Division, PCSIR Laboratories, Lahore.	28,620.00	01.08.1980 to 31.07.1981
52.	S-CSIR/Chem (105)	New Medicinal Derivatives form Santonin.	Dr. Yousaf Ahmad, PCSIR, Laboratories, Karachi.	53,079.00	24.03.1981 to 30.06.1982
53.	P-PU/Chem (106)	Synthetic and Catalytic Aspects of New Transition Metals Alkyls and Aryls.	Dr.Mohammad Zafar Iqbal, Institute of Chemistry, University of Punjab, Lahore.	94,919.00	02.12.1980 to 01.12.1983
54.	P-CSIR/Chem (107) & (107/1)	Pilot Plant Production of Butanol by Fermentation.	Dr.M.A. Qadeer, Food Technology and Fermentation Division PCSIR Laboratories, Lahore.	47,610.00	01.08.1980 to 28.02.1982
55.	P-PU/Chem (112)	A Study on Removal of Industrial Pollutant Gases by Absorption.	Dr.M.N.Romani, Institute of Chemistry, University of Punjab, Lahore.	64,306.00	01.10.1980 to 30.09.1982

56.	S-SU/Chem (116)	Application of Volatile Metal Complexes of some New schiff basis.	Dr. Iftikhar-ud-Din Arain, Institute of Chemistry, University of Sind, Jamshoro.	225,706.00	12.10.1981 to 11.10.1983
57.	P-UET/Chem (118)	Studies on the Food Potential of Indigenous Algae.	Dr. Amanullah shah, University of Engineering and Technology, Lahore.	145,241.00	10.07.1982 to 09.07.1983
58.	S-KU/Chem (84/1)	Isolation, and Structural Studies on the Chemical Constituents of some Indigenous Flowering Plants. (Extension Project)	Dr. Viqar-ud-Din Ahmad, HEJ Postgraduate institute of Chemistry, University of Karachi, Karachi.	44,556.00	01.07.1981 to 30.06.1982
59.	P-PU/Chem (130)	Investigation of Reactivity of Phosphate Esters.	Dr. Mohammad Younas, Institute of Chemistry, University of Punjab, Lahore.	83,536.00	13.01.1983 to 12.01.1985
60.	C-QU/Chem (73/1)	Kinetic, Electro-Chemical and Optical Investigations of the Herbicide, Methylologen (Paraquat) and Related Compounds. (Extension Project)	Dr. Mahboob Mohammad, Chemistry Department, Quaid-I-Azam University, Islamabad.	43,800.00	01.11.1981 to 30.10.1983
61.	P-PU/ Chem (27/1)	Characterization and Production of Enzymes of Commercial Importance. (Extension Project)	Dr. M.I.D Chaughtai, Institute of Chemistry, University of Punjab, Lahore.	33,986.00	14.03.1980 to 13.03.1981
62.	C-QU/Chem (138)	Pollution Control Studies on Water in Public Utility and Industry in Pakistan.	Dr. M. Jaffar, Chemistry Department, Quaid-I-Azam University, Islamabad.	95,328.00	13.08.1983 to 12.08.1984

63.	F-PU/ Chem (60/1)	Molecular weight and size Measurement of Colloidal Polymers and Macromolecular Material by Light Scattering Techniques. (Extension Project)	Dr.Noor Ahmad, National Centre of Excellence in Physical Chemistry, University of Peshawar.	176,750.00	01.09.1983 to 31.08.1984
64.	S-KU/ Chem (84/2)	Isolation and Structural Studies on the Chemical Constituents of some Indigenous Flowering Plants. (Extension Project)	Dr. Viqar-ud-Din Ahmad, HEJ Postgraduate Institute of Chemistry, University of Karachi, Karachi.	78,551.00	01.09.1983 to 31.08.1984
65.	S-KU/ Chem (96/1)	Synthetic and Isolation Studies towards Vinblastine and Vincristine and their Novel Derivatives. (Extension Project)	Dr.Ata-ur-Rehman, HEJ postgraduate Institute of Chemistry, University of Karachi, Karachi.	432,395.00	01.07.1983 to 30.06.1986
66.	P-CSIR/Chem (103/1)	Microbial Production of Xanthan Gum for Industrial Use. (Extension Project)	Dr. M.A. Qadeer, PCSIR Laboratories, Shahrah-i-Jallauddin Roomi, Lahore-16	72,672.00	15.08.1983 to 14.08.1984
67.	C-QU/ Chem (137)	Polymerization and Electron Transfer Process, Studies on substituted Ethylenes.	Dr.Mahboob Mohammad, Department of Chemistry, Quaid-I-Azam University, Islamabad.	57,590.00	01.04.1983 to 31.03.1986
68.	C-QU/ Chem (122)	Silicones from Locally Available Silicate Minerals	Dr.Muhammad Mazhar, Department of Chemistry, Quaid-I-Azam University, Islamabad.	51,800.00	01.05.1982 to 14.04.1983
69.	S-SU/Chem (125)	Industrial Enzymology and their Characterization	Dr. Abdul Rehman Memon, Institute of Chemistry, University of Sind, Jamshoro.	46,949.00	01.08.1982 to 31.07.1985

70.	S-CSIR/Chem (129)	Study on Plants of Medicinal and Nutritive Value	Dr.S.A Warsi, PCSIR Laboraories, Karachi.	64,040.00	10.07.1982 to 09.07.1985
71.	P-GHQ/ Chem (131)	Catalytic Production of Industrial Solvents form Natural Gas.	Lt.Col. Abdul Hamid, GHQ Science Laboratory, Chaklala, Rawalpindi.	23,825.00	01.07.1982 to 30.06.1984
72.	S-SU/Chem (133)	Preparation and Development of New Sensitive Chromogenic Reagents for the Analysis of Metal Ions.	Dr. Iftikhar-ud-Din Arain Institute of Chemistry, University of Sind, Jamshoro.	177,712.00	01.01.1985 to 31.12.1986
73.	F-PU/ Chem (135)	A Study of Acetylcholinesterase in Erythrocytes.	Dr. S. Fazli Mahmood, Department of Chemistry, University of Peshawar, Peshawar.	50,830.00	25.09.1983 to 14.09.1984
74.	P-CSIR/Chem (140)	Studies on Industrial Exploitation of Nagar Parker China Clay.	Dr. F.A Farooqi, Gas and Ceramics Division, PCSIR Laboratories, Lahore.	205,174.00	01.10.1983 to 31.09.1984
75.	S-KU/Chem (142)	Chemical Spectroscopic and Microbial Studies of Transition Metals Complexes Containing Mixed Ligands.	Dr. Najma Sultana, Department of Pharmaceutical Chemistry, University of Karachi, Karachi	25,000.00	01.09.1983 to 31.08.1984
76.	S-CSIR/ Chem (143)	Development of New Inorganic Materials (In-Organic Plastics of Future), Based on Portland Cement.	Dr.M.Asam Ex.Chairman PCSIR laboratories, Karachi.	210,687.00	01.02.1984 to 31.01.1986

77.	P-CSIR/ Chem (151)	Study of the Essential Oils as Species of the Plant Family Umbelliferae of Pakistan.	Dr. M.K. Bhatti, PCSIR Laboratories, Ferozpur Road, Lahore.	88,380.00	01.05.1985 to 30.04.1987
78.	S-CSIR/ Chem (150)	Studies on the Hypocholes Terolemic Effect of Allium sativum Linn and Scientific Investigation of Its Protective Action Against Coronary Heart Disease.	Dr. Yousaf Ahmad, PCSIR Laboratories, Karachi	82,532.00	15.06.1985 to 14.06.1986
79.	C-QU/Chem (154)	Development of Amino-Acid Esters Hydrobromide Salts as Antimicrobial Anti-Cockroach Agents.	Dr. Zubair Ahmad Malik Department of Chemistry Quaid-I-Azam University, Islamabad.	78,201.00	14.07.1985 to 13.07.1986
80.	P-PU/Chem (169)	Development of Procedure for the Extraction and Refining of Beryllium from Beryl Ores of Paksitan.	Dr. Muhammad Ali Khan, Institute of Chemistry, University of Punjab, Lahore.	114,249.00	01.02.1986 to 30.05.1987
81.	F-PU/Chem(153)	A Thermodynamic Study of the Supra Molecular Order in Aqueous Solutions of Polyvinyl alcohol.	Dr. Noor Ahmad, National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar.	261,133.00	01.03.1986 to 28.02.1989
82.	S-KU/Chem(163)	Amino acids Sequence Study on Hemoglobin & Venoms from Snakes found in Pakistan.	Prof. Dr. Zafar H. Zaidi, HEJ Research Institute of Chemistry, University of Karachi, Karachi.	355,868.00	01.03.1987 to 28.02.1990
83.	S-KU/Chem(170)	Studies on the Chemical Constituents of Capparidaceous Plants of Pakistan.	Prof. Viqar-ud-Din Ahmad, HEJ Research Institute of Chemistry, University of Karachi, Karachi.	335,813.00	01.01.1986 to 31.12.1988

84.	P-CSIR/Chem(171)	Biosynthesis of Antibiotic Bacitracin by <i>Bacillus licheniformis</i> as Supplement in Poultry Feed.	Dr. M. A. Qadeer, Food Technology and Fermentation Division, PCSIR Laboratories, Lahore.	238,395.00	14.01.1987 to 13.01.1990
85.	C-QU/Chem(177)	Studies on the Chemical Constituents of some Labiatae Plants of Pakistan.	Prof. Dr. Mashooda Hassan Department of Chemistry, Quaid-i-Azam university, Islamabad.	255,054.73	01.02.1987 to 31.01.1989
86.	S-KU/Chem(165)	Isolation and Structural Studies on the Chemical Constituents of <i>Ervatamia coronaria</i>	Dr. Atta-ur-Rehman HEJ Research Institute of Chemistry, University of Karachi, Karachi.	390,489.00	01.01.1986 to 31.12.1988
87.	B-BU/Chem(162)	Chemistry and Biochemistry of Glycoprotein Sulfotransferases and Sulfate Acceptors.	Dr. S. Altaf Hussain, Institute of Chemistry, University of the Punjab, Lahore.	626,797.00	01.09.1987 to 31.08.1990
88.	S-SU/Chem(172) (172/1)	Applications of High Performance Liquid Chromatography for Multi Elemental Analysis at Trace Levels using Ketoamine Schiff.	Dr. M. Y. Khuhawar, Institute of Chemistry, University of Sindh, Jamshoro.	501,313.00	01.08.1987 to 31.07.1989
89.	B-BU/Chem(178)	Immobilization of Enzymes and their Application in Flow Injection Analysis for the Determination of Substrates of Diagnostic Importance.	Dr. Muhammad Masoom, Institute of Chemistry, University of Baluchistan, Quetta.	377,886.00	10.11.1987 to 09.11.1990
90.	C-QU/Chem(175)	Estimation of Heavy Trace Metals in Various Local Fish Species and Relevant Marine/Fresh Waters.	Dr. Muhammad Jaffar, Department of Chemistry, Quaid-i-Azam university, Islamabad.	100,637.55	01.08.1987 to 31.07.1988

91.	S-KU/Chem(182)	Investigation of Pharmacologically Active Substances from Marine Flora and Fauna.	Dr. Atta-ur-Rehman HEJ Research Institute of Chemistry, University of Karachi, Karachi.	200,459.00	01.02.1988 to 30.01.1991
92.	S-KU/Chem(186)	Pharmacological Studies of the Constituents of Medicinal Plant of Cardiovascular Importance.	Dr. Shahid Rashid, Department of Pharmacology, Faculty of Pharmacy, University of Karachi, Karachi.	336,482.00	01.04.1988 to 31.03.1991
93.	B-BU/Chem(187)	Kinetic Study of the Reaction of Hexacyanoferrate (II) with Haloamine in Aqueous Medium.	Dr. Abbas Haider Khan, Department of Chemistry, University of Baluchistan, Quetta.	147,760.00	15.05.1989 to 14.05.1990
94.	S-AKU/Chem(191)	Multiple forms of Dihydrofolate Reductase.	Dr. M. Perwaiz Iqbal, Department of Biochemistry, Agha Khan University, Karachi.	287,830.00	01.05.1989 to 30.04.1991
95.	C-QU/Chem(193)	Calculation of Potential Energy Surface for Ion Pairs derived from the Alkali and Alkaline Earth Metal Reduction of some Substituted Ethylenes.	Dr. Mehboob Muhammad, Department of Chemistry, Quaid-i-Azam university, Islamabad.	185,703.00	01.02.1990 to 31.01.1993
96.	C-QU/Chem(195)	Preparation of new O.S.N. Doner Legends for Complexion with Transition Metals.	Dr. Roshan Ahmad, Department of Chemistry, Quaid-i-Azam university, Islamabad.	124,339.84	16.05.1990 to 15.05.1991
97.	P-PU/Chem(183)	Characterization and Improved Production of Xylanolytic Enzymes of Thermophilic Microorganisms.	Dr. M. Waheed Akhtar, Institute of Chemistry, University of the Punjab, Lahore.	368,820.00	01.07.1989 to 31.08.1993

98.	S-SU/Chem(184) (184/1)	Production of Mycelial Protein from Cellulosic Biomass as Substrate for Poultry feed.	Dr. Muhammad Umar Dahot, Institute of Biochemistry, University of Sindh, Jamshoro.	349,344.00	08.08.1989 to 28.02.1993
99.	C-QU/Chem(204)	Synthesis and Application of Organotin Compounds for Pest and Disease Control.	Dr. Saqib Ali, Department of Chemistry, Quaid-i-Azam university, Islamabad.	96,600.00	01.04.1991 to 31.03.1992
100.	S-KU/Chem(205)	Isolation, Structure Elucidation and Biological Activity of the Chemical Constituents of Some Composite Plants.	Prof. Viqar-ud-Din Ahmad, HEJ Research Institute of Chemistry, University of Karachi, Karachi.	255,592.00	01.04.1990 to 31.03.1993
101.	P-PU/Chem(208)	Evaluation of Trace Elements and Aerosols in Air and their effect on Urban Environment of Punjab Area in Pakistan.	Dr. Muhammad Zafar Iqbal, Institute of Chemistry, University of the Punjab, Lahore.	320,140.00	01.04.1991 to 31.03.1994
102.	F-GU/Chem(108)	Sesquiterpene Lactones from Medicinal Plant of Pakistan.	Dr. G. A. Miana, Department of Chemistry, Gomal University, D.I.Khan.	169,804.00	01.05.1990 to 30.04.1993
103.	S-KU/Chem(185)	Synthetic and Biological Studies on Pederin.	Dr. S. Saleh Shekhani, HEJ Research Institute of Chemistry, University of Karachi, Karachi.	169,575.00	01.02.1988 to 30.01.1991
104.	S-SU/Chem(200)	Effect of Municipal Sewerage and Industrial Effluents on the Quality of Phulleli Channal Water.	Dr. M. Y. Khuhawar, Institute of Chemistry, University of Sindh, Jamshoro.	94,799.00	01.09.1992 to 30.08.1993

105.	P-CSIR/Chem(219)	Process Development for the Manufacture of 6-Amino Pencillanic Acid (6-APA) from Penicillin G.	Dr. M. A. Qadeer, Biotechnology and Food Research Centre, PCSIR Laboratories, Lahore.	151,029.00	01.03.1992 to 28.02.1994
106.	P-PU/Chem(223)	Determination of Lead Contents in Drinking Water of Peshawar.	Dr. M. Rasul Jan, Department of Chemistry, University of Peshawar, Peshawar.	84,324.00	01.09.1993 to 31.08.1994
107.	C-QU/Chem(226)	Synthesis, Spectroscopic Studies and Biological Activity of Novel Hetrocyclic Compounds Having Five or Seven Membered Ring Systems.	Dr. Mrs. Roshan Ahmad, Department of Chemistry, Quaid-i-Azam university, Islamabad.	287,679.00	01.03.1993 to 17.05.1995
108.	P-PU/Chem(215)	Pharmaceutical Investigation on Cannabis sativa L.	Dr. Muhammad Ashraf, Department of Pharmacy, University of the Punjab, Lahore.	168,780.00	01.06.1993 to 31.05.1995
109.	C-QU/Chem(234)	Selected Air Pollutant Monitoring and Correlation Study for Evaluation of Air Quality of Rawalpindi/Islamabad.	Dr. Muhammad Jaffar, Department of Chemistry, Quaid-i-Azam university, Islamabad.	207,845.00	01.07.1994 to 30.06.1995
110.	B-BU/Chem(211)	Biotechnological Potential of Immobilized Enzymes: Application of Immobilized Enzymes in the Synthesis of Valuable Biological Compounds.	Dr. M. Masoom Yasinzai, Institute of Biochemistry, University of Baluchistan, Quetta.	356,005.00	01-11-1996 to 31-10-1998
111.	S-KU/Chem(218)	Microbial Transformation (Bio-transformation) of Natural Antitumor Agents.	Dr. Atta-ur-Rahman, H.E.J Research Institute of Chemistry, University of Karachi, Karachi.	234,912.00	01-06-1993 to 31-05-1996

112.	C-QU/Chem(235)	Isolation and Characterization of Flavonoids having Potential Agricultural Applications.	Dr. Aurangzeb Hassan, Department of Chemistry, Quaid-i-Azam University, Islamabad.	197,103.00	01-03-1995 to 30-06-1996
113.	S-KU/Chem(236)	Isolation of Cytotoxic Compounds from Marine Animals.	Dr.Mrs. Rashida Qasim, Department of BioChemistry, University of Karachi, Karachi.	652,488.00	01-06-1993 to 31-05-1996
114.	C-QU/Chem(246)	Impedence Spectroscopic Studies of High Tc. Super Conductor Ceramic at Superconducting State.	Dr.Mahboob Mohammad, Department of Chemistry, Quaid-i-Azam University, Islamabad.	869,959.00	01-07-1993 to 30-06-1996
115.	P-CSIR/Chem (258)	Production of Edible Rice Bran Oil.	Dr. M. Yaqub Raie, PCSIR Labs.Complex, Lahore.	287,220.00	21-07-1993 to 20-07-1995
116.	C-QU/Chem(256)	Synthesis of Biologically Active Organotin Derivatives, their Characterization and Applications.	Dr. Saqib Ali, Department of Chemistry, Quaid-I-Azam University, Islamabad.	245,142.00	01-04-1995 to 30-06-1997
117.	S-KU/Chem(240)	Biodegradable & Safer Nematicides from Natural Sources.	Dr. M. Iqbal Choudhry, H.E.J. Research Institute of Chemistry, University of Karachi, Karaci.	142,85.00	17-08-1995 to 16-07-1996
118.	C-QU/Chem(265)	Synthesis, Structural & Pharmacological studies on some New 4, 1-Benzoazepine, 2-5-Diones.	Dr. Mrs.Naeema Khan , Department of Chemistry, Quaid-I-Azam University, Islamabad.	257,587.00	20-06-1995 to 19-06-1997

119.	P-PU/Chem(278)	Synthesis of N.N-dialkyl benzylamine Derivatives & their Evaluation as Chelating Organic Reagents.	Dr. M. Zafar Iqbal, Department of Chemistry, University of the Punjab , Lahore.	1,09,720/-	01-07-1995 to 30-06-1996
120.	F-PU/Chem(286)	Preparation & Characterization of Reforming Catalysts.	Dr. Muhammad Ilyas, National Center of Excellence in Physical Chemistry, University of Peshawar, Peshawar.	198,726.00	01-10-1995 to 30-09-1997
121.	F-PU/Chem(287)	Draining & Long Range Interaction in Polymer Solutions.	Dr. Muhammad Saleem Khan, National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar.	155,287.00	01-01-1996 to 30-06-1998
122.	P-CSIR/Chem (267)	Production of Citrus Flavor through Tissue Culture Technology.	Dr. Abdul Sattar Applied Chemistry Research Centre, PCSIR,Lahore.	76,260.00	16-10-1994 to 15-10-1995
123.	P-PU/Chem(284)	A study on the Lubricity of Lubricating Oils Produced in Pakistan.	Dr. Ikram-ul-Haq, National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar.	345,541.00	01-07-1997 to 30-06-1999
124.	F-PU/Chem(285)	Flash Pyrolysis of Indigenous Coal Utilizing Effective Radical Transfer.	Dr. Iftikhar Ahmed Awan, National Centre of Excellence in Physical Chemistry, University of Peshawar, Peshawar.	340,429.00	01-08-1996 to 30-07-1998
125.	S-CSIR/Chem(248)	Evaluation of Aqueous Extracts of Sea-Weeds as Elicitor of Plant Defence Mechanism.	Dr.(Mrs) Fatima Bi, PCSIR Labs Complex, Karachi.	273,194.00	01-03-1994 to 28-02-1997

126.	F-PU/Chem(315)	Ion Exchange Properties of Metal III Phosphates.	Dr. S. Mustafa, National Centre of Excellence in Analytical Chemistry, University of Peshawar, Peshawar.	303,339.00	01-12-1997 to 30-11-1999
127.	P-CSIR/Chem(219/1)	Process Development for the Manufacture of 6-Amino Pencillinic Acid(6-APA) from Pencillin G.	Dr. M.A. Qadeer, Biotechnology and Food Research Centre, PCSIR Laboratories Complex, Lahore.	56,909.00	01-01-1994 to 31-12-1995
128.	S-SU/Chem(272)	Isolation Purification and Characterization of Antibacterial & Antifungal Properties of Peptides of Plants.	Dr. Muhammad Umar Dahot, Department of Bio Chemistry, University of Sindh, Jamshoro.	395,026.00	18-04-1995 to 17-04-1996
129.	C-FGC/Chem(323)	Synthesis of Neurotensin Mimics.	Dr. Javaid Hussain Zaidi, Department of Chemistry, F.G. College for Men, Islamabad.	2,22,156.00	01-08-1998 to 31-07-1999
130.	S-KU/Chem(311)	Isolation & Characterization of Antibiotics from Soil Fungi for the Development of Drugs.	Dr. Viqar Sultana, Department of Biochemistry, University of Karachi, Karachi.	440,998.00	01-06-1997 to 31-05-2000
131.	B-BU/Chem (279)	Physico-chemical studies on the biologically active constituents of ferrus on Pakistan.	Dr. Hamid Latif Siddiqui University of Balochistan, Quetta	390, 948.35	03. 09.1996 to 29. 09.1998
132.	C-QU/Chem (303)	Synthesis of biologically active organotin compounds containing germanium and silicon.	Dr. M. Mazhar Quaid-i-Azam University Islamabad	319, 633.26	01. 03.1999 to 28. 02.2001

133.	S-KU/Chem (311)	Isolation & characterization of antibiotics from soil fungi for the development of drugs.	Dr. Viqar Sultana University of Karachi	471, 515.00	01. 06.1997 to 31. 05.2000
134.	S-KU/Chem (321)	Characterization of plasma membrane glycoproteins of rabbit corneal epithelium.	Dr. Nikhat Siddiqui University of Karachi	606, 939.00	20. 06.1998 to 19. 06.2001
135.	S-SU/Chem (294)	Spectrophotometric and high performance liquid chromatographic determination of copper, nickel, iron, cobalt, vanadium, cadmium, lead and mercury using new semicarbazones as complexing reagents.	Dr. Muhammad Yar Khuhawar University of Sindh, Jomshoro	490,105.00	01.05.1997 to 30.04.2000
136.	S-NCEAC/Chem (269)	High resolution NMR studies of chemical shifts and relaxation time in quinoline, its various derivatives and some metal complexes formed by its hydroxyquinoline derivatives.	Dr. A. W. K. Khanzada University of Sindh, Jamshoro.	439,160.00	05.12.1994 to 04.02.1997
137.	S-KU/Chem. (342)	Influence of Long Chain Branching and High Molecular Weight Components on Elongational and Shear Properties of Polyolefin.	Prof. Dr. Riaz Ahmad University of Karachi, Karachi	3,80,916.00	1-11-1999 to 31-10-2002
138.	S-KU/Chem. (348)	Extra pyramidal and Monoaminergic Effects of Neuroleptics: Modulation by L-Tryptophan and L-Valine.	Prof. Dr. Darakhshan J Haleem Department of Biochemistry, University of Karachi, Karachi.	4,32,184.00	01-6-2000 to 31-5-2003
139.	P-AU/Chem. (353)	Pilot Production of Barium and Strontium Pigments from Indigenous Barite and Celestite Minerals.	Prof. Dr. Riaz Ahmad University of Agriculture, Faisalabad.	4,00,154.00	01-12-2000 to 31-11-2003

140.	S-KU/Chem. (363)	Purification, Characterization and applied studies of Protein antibiotics from indigenous Staphylococci.	Dr. Sheikh Ajaz Rasool University of Karachi, Karachi.	5,22,901.00	01-02-2001 to 31-5-2004 (4-months extension)
141.	C-QU/Chem. (370)	Synthesis and Characterization of some liquid Crystalline Molecules	Prof. Dr. Mrs. Naeema Khan Quaid-i-Azam University, Islamabad.	.6,17,685.00	01-6-2001 to 31-8-2003 (3-months extension)
142.	B-BU/Chem. (346)	Leishmania and leishmeniasis in Pakistan.	Shahid Hussain. Earth Science Division , Pakistan Museum of Natural History Islamabad.	311,500.00	01-10-1990 to 30-09-1992
143.	F-GU/Chem (351)	Emulsification of Oil/Water System.	Dr. Musa Kaleem Baloch Professor Gomal University, Dera Ismail Khan.	537,540.00	01-01-2003 to 31-12-2005 adopted in 2008
144.	S-KU/Chem (367)	Direct and Indirect electro-Chemical attack on Cancer Cells.	Dr. Ahsana Dar Professor HEJ, University of Karachi, Karachi.	806,311.00	01-10-2001 to 31-12-2006 adopted in 2008
145.	C-QU/Chem(373)	Enantioselective Synthesis of Carbohydrate Building Blocks and Bio-Active Natural Products.	Dr. Farzana Latif Ansari Professor Quaid-i-Azam University, Islamabad.	971,202.00	01-11-2001 to 31-01-2005 adopted in 2008
Total Amount (Rs.)				26,901,315.12	

EARTH SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Expenditure (Rs.)	Date of Initiation & Completion
1.	S-KU/Earth (4)	Terrain Analysis and its Application to Urbanization.	Dr. S.M.A. Syedian Zadi, Geology Department University of Karachi, Karachi.	23,865.00	01.02.1975 to 31.01.1976
2.	S-SU/Earth (5)	Exploration and Evaluation of the Economic Minerals Potential and Deposits of Nagar Parkar, South Eastern Sind.	Dr. Rais Ahmad, Geology Department, University of Sind, Jamshoro.	78,949.00	01.07.1978 to 30.06.1980
3.	F-PU/Earth (15)	Land forms and Soil Parent Material of the Khattak Foot Hills, Peshawar Valley.	Dr. Mohammad Said, Geology Department, University of Peshawar, Peshawar.	20,997.00	01.06.1975 to 31.05.1977
4.	P-PU/Earth (17)	Geological investigation of Chromite Ore Deposits of the Malakand Agency	Dr. Zulfiqar Ahamad Geology Department, University of Punjab, Lahore.	11,506.00	03.01.1977 to 02.04.1977
5.	F-PU/Earth (19)	Effect of Metropolitan Expansion on the Rural-Urban Fringe: A Case Study from Peshawar.	Dr. M. Aslam Khan, Geography Department, University of Peshawar, Peshawar.	25,656.00	15.12.1976 to 14.06.1978
6.	F-PU/Earth (20)	Sociodemographic Survey of Daduzai Integrated Rural Development Area.	Dr. Israr-ud-Din, Geopgraphy Department, University of Peshawar, Peshawar.	33,840.00	01.07.1977 to 30.04.1978

7.	P-PU/Earth (12)	Changing Pattern of Resource Use in Punjab.	Dr. M.K. Elahi, Geography Department, University of Punjab, Lahore.	100,160.00	01.07.1977 to 20.11.1981
8.	P-GC/Earth (23)	Problems of Resource Utilization in Human Settlement of Murree-Kahuta Region.	Mr. Abdul Hamid Rathore, Geography Department, Government College, Asghar mall, Rawalpindi.	46,177.00	10.01.1977 to 10.04.1979
9.	B-BU/Geo (10)	Exploration of flourite Deposits in Kalat Division.	Mr. S. Iqbal Mohsin, Geology Department, University of Baluchistan, Quetta.	126,687.00	17.04.1976 to 18.04.1977
10.	P-GC/Earth (25)	Resources Potential of Potwar: A Study for Identification of Resource Management areas and Growth Points.	Dr. M. Zafar Ahamad Khan, Geography Department, Government College, Asghar Mall, Rawalpindi.	52,918.00	26.06.1980 to 25.02.1981
11.	P-PU/Earth (24)	Geochemistry and Mineralogy of the Speckled Sandstone Formation and Related Rocks of the Salt range in Punjab.	Dr.F.A Shams, Geology Department, University of Punjab, Lahore.	52,976.00	01.11.1980 to 31.10.1981
12.	P-PU/Earth (24/1)	Geochemistry and Mineralogy of Sardhai Formation & Related Rocks of the Salt Range in Punjab. (Extension Project)	Prof. F.A. Shams, Geology Department, University of Punjab, Lahore.	186,210.00	01.11.1983 to 31.01.1984
13.	B-BU/Earth (27)	Geology & Mineralogy of Selected Pakistani Ophiolites.	Dr. Zulfiqar Ahmad, Institute of Geology, University of Baluchistan, Quetta.	63,003.00	01.07.1985 to 30.06.1988

14.	C- PMNH/Earth(30)	Mineralogy and Geochemistry of Cambrian Formations in Salt Range.	Dr. S.R.H. Baqri, Pakistan Museum of Natural History, Islamabad.	133,668.00	01.08.1987 to 31.10.1990
15.	P-PU/Earth(32)	Stratigraphic Analysis of Mesozoic and Paleozoic Rocks of Hazara, Azad Kashmir and Adjacent Areas of Rawalpindi District & Islamabad, Kohat Potwar Province of Indus Basin.	Dr. M. Latif, Institute of Geology, University of the Punjab, Lahore.	493,495.00	01.06.1987 to 31.05.1990
16.	AJK/Earth(33)	Petrology and Geochemistry of Punjab Volcanics in Poonch Muzaffarabad and Kaghan Valley.	Dr. M. Ashraf, Institute of Geology, Azad Jammu and Kashmir, University of Muzaffarabad, Azad Kashmir.	440,247.00	01.05.1988 to 30.06.1992
17.	P-PU/Earth(37)	Petrotectonic Elements and Tectonic Frameworks of North West Himalaya.	Dr. M. Nawaz Chaudhry, Institute of Geology, University of the Punjab, Lahore.	424,954.00	20.03.1987 to 19.03.1990
18.	B-BU/Earth(39)	Geology of the Baluchistan (Pakistan) Portion of the Southern Margin of the Tethys.	Dr. George R. Mc. Cormic Centre of Excellence in Mineralogy, University of Baluchistan, Quetta.	43,829.00	01.06.1988 to 30.05.1989
19.	P-PU/Earth(40)	Environmental hazards Atlas of Northern Areas of Pakistan (K.K.H. between Mansehra & Khunjrab) and Possible Remedial Measures.	Dr. F. A. Shams, Institute of Geology, University of the Punjab, Lahore.	106,257.00	01.07.1991 to 30.06.1993
20.	S-KU/Earth (42)	Environmental Geology and Aggregate Resources of Karachi Region	Dr. Syed Iqbal Mohsin, Department of Geology, University of Karachi, Karachi.	397,600.00	29-09-1993 to 30-09-1996

21.	F-PU/Earth (68)	Updating and compilation of the Stratigraphic of Pakistan	Mr. Ali Hamza Kazmi Department of Geology, University of Peshawar, Peshawar.	2,45,499.00	01.12.1998 to 30.11.2000
22.	C-PINSTECH/Earth (67)	Geological studies of carbonate complexes of Northern Pakistan and their economic evolution in terms of rare metals, rare earth elements, phosphate & uranium.	Dr. Safia Ahmed Department of Biological Sciences, Quaid-i-Azam University Islamabad.	312,772.00	01-07-2000 to 30-06-2002
23.	C-PMNH/Earth (38)	Mineralization & petrogenetic study of rocks along Indus suture zone.	Aziz Ahmed Qureshi Physics Research Division, PINSTECH, P.O.Nilore, Islamabad.	283,686.00	01-11-2001 to 31-01-2004 (3-months)
24.	S-SU/Earth (65)	Detection of saline intrusions in the right bank coastal sediments of Southern Sindh.	Dr. Saeed Soomro Professor University of Sindh, Jamshoro.	715,795.00	01-10-2001 to 30-09-2004 adopted in 2008
Total Amount (Rs.)				3,750,293.00	

ENGINEERING SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Expenditure (Rs.)	Date of Initiation & Completion
1.	P-PU/Eng (3)	Studies of Atmospheric Underground Corrosion as Control and Prevention.	Dr.I.H.Khan, Institute of Chemical Engineering and Technology, University of Punjab, Lahore.	7,461.00	01.09.1978 to 31.03.1979
2.	P-UET/Eng (7)	Design and Manufacture of Hydraulic Turbines in Pakistan	Dr.Ikram Khan, Mechanical Engineering Department, University of Engineering and Technology, Lahore.	44,150.00	01.11.1974 to 30.05.1979 01.01.1977 to 31.12.1979 (Extension Period)
3.	P-CTT/Eng (14)	Dyeing Problems in Blended Fabrics- Study on Pakistan industry.	Mr. F.A Bhatti, National College of Textile Technology, Faisalabad.	216,051.00	07.06.1977 to 06.06.1980
4.	P-PU/Eng (3/1)	Studies of Atmospheric Underground Corrosion as Control and Prevention.	Dr. I. H. Khan, Deptt. of Chemical Engineering, University of Engineering & Technology, Lahore.	390,577.00	01.09.1983 to 31.08.1986
5.	P-UET/Eng (17)	Groundwater Management Model of SCARP-II	Dr.N.M.Awan Centre of Excellence in Water Resources University of Engineering & Technology, Lahore	96,000.00	01.03.1983 to 31.08.1984
6.	P-CSIR/Eng (20)	Development of Fluidized Bed Coal Combustion System Based on Low Grade Coal for the Supply of Clean Heat for Industrial use.	Dr. A.B. Choudhry, PCSIR Laboratories, Lahore.	324,499.00	01.11.1984 to 31.01.1987

7.	S-DRIP/Engg(27)	Developing Management Model for Optimum Use of Water Resources under System Constraints.	Dr. Bashir Ahmad Chandio, Drainage & Reclamation Institute of Pakistan, Tandojam, Sindh.	144,600.00	15.12.1990 to 14.12.1992
8.	P-CSIR/Engg(23)	Design Development & Fabrication of a Continuous Tray Dryer.	Dr. A. B. Chaudhry, PCSIR Laboratories Complex, Lahore.	335,000.00	01.12.1990 to 31.05.1993
9.	P-CEME/Engg(61)	Solar Tent for Snow Bound Areas.	LT. Col. Dr. Nasim. A. Khan, College of Electrical & Mechanical Engineering, Rawalpindi.	27,920.00	20-06-1996 to 19-08-1996
10.	C-PINSTECH/Eng (41)	Determination of lateral and vertical penetration of canal water in Rechna Doab using environmental isotopes.	Dr. M. Ishaq Sajjad PINSTECH, Islamabad.	3, 21,436.00	1.6.1998 to 31.5.2000
11.	P-CEWRE/Eng (43)	Impact of irrigation management on nitrate leaching at farmers field.	Prof. Dr. M. Latif University of Engg. & Technology, Lahore.	3, 15,089.00	1.5.1997 to 31.7.2000 (3- months extension)
12.	P-CEME/Eng (73)	Design and fabrication of rock bed storage system for a solar air heated, hospital at Goma-Skardu, Pakistan.	Brig. Dr. Nasim A. Khan College of Electrical & Mechanical Engineering, Rawalpindi.	3, 39,484.00	15.6.1998 to 14.6.2000
13.	S-DRIP/Engg (33)	On-farm drainage and water management strategies to minimize environmental impacts of saline drainage effluents.	Mr. Moula Bux Mirbahar PCRWR, Tando-Jam, Sindh.	805,742.00	08.04.1993 to 07.04.1996
14.	C-PINSTECH/Engg (38)	Stress corrosion cracking & pitting of low alloy stress (las) corrosion in sour environment.	Mr. Nazar Hussain PINTECH, Islamabad	259,763.00	17.05.1997 to 16.05.2000

15.	P-CEWRE/Engg(77)	Stochastic flood risk zoning (mapping).	Engr. Dr. S. M. Saeed Shah Head of Hydrology Division University of Engineering & Technology, Lahore.	346,469.00	14-09-2003 to 30-09-2004 adopted in 2008
16.	C-PCRWR/Engg(78)	Assessment of Water Resources and Development of Strategic Water Utilization Plan in Pothwar Region for its Sustainable Management.	Dr. Ashfaq Ahmed Sheikh Deputy Director Pakistan Council of Research in Water Resources, Islamabad.	1,012,084.00	17-07-2006 to 09-10-2006 adopted in 2008
Total Amount (Rs.)				3,675,316.00	

ENVIRONMENTAL SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Expenditure (Rs.)	Date of Initiation & Completion
1.	S-KU/Envr (4)	Problem of Eutrophication and Control of Aquatic Weeds in Fresh Water Lakes of Sind.	Dr. I.U. Baqai, Botany Department, University of Karachi, Karachi.	150,025.00	02.08.1976 to 01.08.1979
2.	C-IU/Envr (5)	Biological Control of Termites with Pheromones and Pathogenic Fungi.	Dr. Qazi Javed Iqbal, Biological Science Department, Quaid-I-Azam University, Islamabad.	186,566.00	01.02.1976 to 31.01.1978
3.	C-IU/Envr (10)	Behavioral and Ecological Studies on Rhesus Monkeys.	Dr. Qazi Javed Iqbal, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	38,480.00	01.01.1976 to 30.06.1976
4.	F-PU/Envr (2)	Testing for Mitotic Gene Conversion in Yeast by Food Color and Other Chemicals.	Dr. Bashir A. Siddiqui, Botany Department, University of Peshawar, Peshawar	115,489.00	11.06.1977 to 31.05.1980
5.	P-PU/Envr (3)	Ecological Studies on Fresh Water Hyphomycetes.	Dr. S. H. Iqbal, Botany Department, University of Punjab, Lahore.	152,702.00	15.06.1977 to 14.06.1979
6.	F-PU/Envr (9)	Water Pollution Studies of the Urban and Industrial Areas of Peshawar and Nowshera.	Dr. Noor Ahmad, Institute of Physical Chemistry, University of Peshawar, Peshawar.	100,646.00	01.01.1980 to 21.12.1981

7.	C-IU/Envr (11)	Limnological Survey of Rawal Lake, Rawalpindi.	Dr. Maqbool Ahmad, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	12,605.00	13.12.1976 to 12.12.1977
8.	P-GC-Envr (15)	Study of Pollution & Aquatic Organisms of the Leh Stream, Rawalpindi.	Mr. Rashid Ali, Zoology Department, Gordon College, Rawalpindi.	91,343.00	15.05.1978 to 14.05.1980
9.	C-IU/Envr (16)	Behavioral and Ecological Studies on Rhesus Monkey With Special Reference To their Communication.	Dr. Qazi Javed Iqbal, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	51,924.00	01.12.1976 to 30.11.1977
10.	P-NIAB/Envr (18)	Mutagenicity Testing of Children's Consumables.	Sheikh Riaz-ud-Din, Biochemistry and Natural Products Division, NIAB, Faisalabad.	54,637.00	01.07.1980 to 30.06.1983
11.	P-GC/Envr (23)	Hydrobiological Studies of Lakes of Punjab.	Mr.S. Rashid Ali, Zoology Department Gorden College, Rawalpindi.	87,492.00	11.06.1980 to 10.06.1982
12.	C-QU/Envr (22)	Biological Control of Termites with Pheromones.	Dr. Qazi Javed Iqbal, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	82,211.00	01.06.1980 to 30.06.1982
13.	P-PU/Envr (3/1)	Ecological Studies on Fresh Water Hyphomycetes, (Extension Project)	Dr.S.H.Iqbal, Biological Sciences Department, University of Punjab, Lahore.	46,664.00	01.07.1980 to 30.06.1982

14.	S-KU/Envr (21)	Pollution due To Waste Water Affluents form Textile Mills in Karachi.	Dr. M.A. Salam, Department of Applied Chemistry, University of Karachi, Karachi.	82,591.00	01.09.1982 to 31.08.1983
15.	S-KU/Envr (24)	Hazardous Effects of Industrial Pollution & Environment due to Refineries and Oil Spills.	Prof. Dr. Akhlaq Ahmad, Department of Applied Chemistry, University of Karachi, Karachi.	293,362.00	01.11.1984 to 30.10.1986
16.	S-KU/Envr (26)	Resource Recovery from Poultry Waste and its Utilization.	Dr.M. Altaf khan, University of Karachi, Karachi.	136,712.00	01.01.1985 to 31.12.1986
17.	P-BZU/Envr (29)	Effect of Industrial Effluents on Soil and Vegetation in and Around Multan.	Prof. Dr. M.H. Bukhari, Institute of Pure and Applied Biology, Bahauddin Zakariya University, Multan.	315,580.00	01-04-1994 to 31-03-1997
18.	P-UAAR/Envr (42)	To evaluate suitability of sewage sludge as organic manure for crop production in Potohar region.	Dr. Mushtaq Ahmed Khan. University of Arid Agriculture Rawalpindi.	1, 80,647.00	01-04-1998 to 31-03-2000
19.	P-AU/Envr (44)	Studies on metals eco-toxicity of the River Ravi.	Dr. Muhammad Javed University of Agriculture, Faisalabad.	550, 884.00	02-05-1998 to 01-05-2001
20.	S-SALU/Envr(45)	Floristic study of Arid Zone (Desert Nara Region) Sindh, Pakistan.	Dr. Ghulam Raza Bhatti Assistant Professor, Department of Botany, S.A. Latif University, Khairpur Sindh.	501,243.00	01-10-1998 to 30-09-2001

21.	C-QU/Envr (58)	Studies on the degradation of chlorinated phenolic compounds by Pseudomonas Species.	Prof. Dr. M. Perwaiz Iqbal Department of Biological & Biomedical Sciences, Aga Khan University Karachi.	486,111.00	01-01-2002 to 31-08-2004
22.	P-PU/Envr(36)	Assessment of Physiological and Genetic Defects in Human Population exposed to Industrial Pollutants in the Industrial Area of District Kasur, Punjab, Pakistan.	Prof. Dr. A. R. Shakoori Distinguished National Professor & Director University of the Punjab, Lahore.	228,499.00	01-09-1996 to 30-10-1998 adopted in 2008
23.	C-NARC/Envr(59)	Passerine birds in cotton based agro-ecosystem of Punjab: A preliminary study to investigate the risks of pesticides	Dr. Iftikhar Hussain Principal Scientific Officer Institute of Plant & Environmental Protection, NARC, Islamabad.	367,907.00	01-10-2002 to 31-09-2004 adopted in 2008
24.	P-AU/Envr(62)	Studies on Growth and Bio-energetics of Fish under Heavy Metals Toxicity.	Prof. Dr. Muhammad Javed (Izaz-i-Fazeelat) Chairman, Department of Zoology & Fisheries. University of Agriculture, Faisalabad.	709,995.00	01-09-2002 to 31-08-2005 adopted in 2008
Total Amount (Rs.)				4,292,784.00	

MARINE SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Expenditure (Rs.)	Date of Initiation & Completion
1.	S-KU/Ocean (2)	Studies on the Settlement and Control of Marine Organisms in Cooling System of Coastal Installations.	Dr. S.M. Haq, Director, institute of Marine Biology, University of Karachi, Karachi.	201,140.00	01.03.1974 to 31.05.1977
2.	S-KU/Ocean (4)	Shore Errosion Studies of Pakistani Coast in the Vicinity of Karachi.	Dr. S.M.A Tirmizi, Physics Department, University of Karachi, Karachi.	33766.00	01.03.1978 to 31.05.1979
3.	S-KU/Ocean (4/1)	Shore Errosion Studies of Pakistani Coast in the Vicinity of Karachi. (Extension Project)	Dr.S.M.A Tirmizi, Professor of Physics, Physics Department, University of Karachi, Karachi.	157,442.00	01.08.1980 to 31.12.1983
4.	S-NIO/Ocean (9)	Feasibility Studies for the Extraction of Energy from Current and Heliohydrogravity Along Pakistan Coasts.	Mr. G.S. Qureshi, National Institute of Oceanography, Karachi.	541,125.00	01.08.1984 to 31.07.1986
Total Amount (Rs.)				933,473.00	

MATHEMATICAL SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Expenditure (Rs.)	Date of Initiation & Completion
1.	P-PU/Maths (8)	Inclusive Reactions	Dr. Mohammad Rafique, Mahtematics Department, University of Punjab, Lahore.	47,998.00	01.08.1976 to 31.07.1979
2.	C-QU/Maths (7)	Study of Magnetohydrodynamics and Plasama Physics.	Dr.G.Murtaza, Physics Department, Quaid-I-Azam University, Islamabad.	39,272.00	01.07.1974 to 30.06.1977
3.	P-PU/Maths (13)	Existence and Properties of Generalized Free Products of Certain Group Amalgams.	Dr. Abdul Majeed, Mathematics Department, University of Punjab, Lahore.	6,553.00	01.07.1982 to 30.06.1983
4.	P-BZU/Math(15)	Study of Properties of BCK and BCI Allgebras and Their Catagorical Aspects	Dr. M. Anwar Chaudhary, Bahauddin Zakariya University, Multan.	22,156.19	15.08.1988 to 14.08.1989
5.	C-QU/Math(16)	The Pseudo Newtonian Formalism.	Dr. Asghar Ali, Department of Mathematics, Quaid-I-Azam University, Islamabad.	375,162.00	01.06.1989 to 31.05.1992
6.	C-QU/Math (21)	Ricci collineations of space times.	Dr. Muhammad Ziad Quaid-i-Azam University, Islamabad	2,35,254.00	15.7.1996 to 14.7.1999
Total Amount (Rs.)				491,141.19	

MEDICAL SCIENCES

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Expenditure (Rs.)	Date of Initiation & Completion
1.	C-NHL/Med (11)	Studies for Development of Vaccine for Trachoma.	Maj. Gen. M.I. Burney, National Institute of Health, Islamabad.	14,000.00	01.07.1974 to 30.09.1975
2.	P-MH/Med (19)	Bacteriological Studies of Tuberculosis.	Dr. Salman H. Siddiqui, Institute of Tuberculosis, Lahore Hospital, Lahore.	20,000.00	01.10.1975 to 30.09.1976
3.	S-JPMC/Med (21)	Effects of Protein Caloric Malnutrition and Anemia in Young Children on their Immune Response.	Dr. Javid A. Hashmi, Pakistan Medical Research Council. Jinnah Post-graduate Medical Center, Karachi	23,084.00	01.10.1975 to 30.09.1976
4.	S-JPMC/Med (22)	Epidemiological Study on Viral Hepatitis in Industrial Population of Karachi.	Dr. Sarwar Jehan Zuberi, Jinnah Post-graduate Medical Center, Karachi.	41,652.00	01.01.1976 to 31.12.1978
5.	C-NHL/Med (24)	Virological, Serological and Electron Microscopic Studies on Hepatitis in Rawalpindi and Islamabad area.	Maj. Gen. M.I. Burney National institute of Health, Islamabad.	19,882.00	01.09.1975 to 30.06.1977
6.	C-NHL/Med (25)	Role of Arthropod borne Viruses in Pakistan.	Maj.Gen.M.I. Burney National Institute of Health, Islamabad.	16,898.00	01.09.1975 to

7.	C-NHL/Med (26)	A Study on Streptococcal Infection, Rheumatic Fever and Rheumatic Heart Diseases in Rawalpindi/Islamabad.	Dr. Abdul Ghafoor, Biological Production Division, National institute of Health, Islamabad.	20,000.00	15.04.1976 to 14.04.1977
8.	S-JPMC/Med (20)	Nutritional Disorders in an Urban Community.	Dr. Razia J. Rahimtoola, Paediatrics Department, Jinnah Post-Graduate Medical Center, Karachi.	223,055.00	01.08.1976 to 30.06.1980
9.	C-AFMC/Med (31)	Studies on the Nutritional Problems of Pregnant and Nursing Women in the Families of the Armed forces of Pakistan.	Col. Ashfaq Ahmad, Armed Forces Medical College, Rawalpindi.	32,276.00	01.09.1976 to 31.08.1977 & 15.02.1979 to 14.02.1980
10.	S-AEMC/Med (6)	Determination of Human Placental Lactogen Level as Guide to the Foetal Well Being During Pregnancy.	Dr. Munir Ahmad Siddiqui, Atomic Energy Medical Centre, Liaquat Medical College, Jamshoro.	207,495.00	01.07.1978 to 30.06.1980
11.	S-JPMC/Med (28)	Ultra Structural Study of the Human Liver Diseases.	Dr. Younas Khan, Jinnah Post-Graduate Medical Center, Karachi.	26,643.00	01.07.1979 to 30.06.1981
12.	C-NHL/Med (35)	Study of Enteroviruses in Drinking Water of Islamabad.	Kaj.Gen.M.I. Burney, National institute of Health, Islamabad.	3,535.00	01.09.1977 to 31.08.1978
13.	C-PC/Med (36)	Frequency and Natural History of Rheumatic Fever in Islamabad and Identification of Diagnostic Criteria for Acute Rheumatic Fever.	Prof. Dr. Ata-ur-Rehman, Jinnah Post-Graduate Medical Center, Karachi.	66,488.00	15.05.1977 to 14.05.1979
14.	S-JPMC/Med (38)	Biochemical Studies in Cataractus Human Lenses.	Dr.M.ata-ur-Rehman, Department of Biochemistry, Jinnah Post-Graduate Medical Center, Karachi.	71,444.00	01.01.1979 to 31.12.1981

15.	S-JPMC/Med (39)	Studies on Insulin Level and its Antagonism in Diabetic Patients.	Dr. M.Ata-ur-Rehman, Biochemistry Department, Jinnah Post-Graduate Medical Center, Karachi.	30,535.00	01.07.1979 to 30.06.1982
16.	C-AFMC/Med (34)	Mapping of the Chemical Constituents of Water in Pakistan with a view to Correlate it with some Diseases.	Dr. (Col) Ashfaq Ahmad, Armed Forces Medical College, Rawalpindi.	11,170.00	01.08.1978 to 20.10.1980
17.	S-JPMC/Med (44)	Investigation on therapeutic Value of Indigenous Plants used in Traditional Medicine for the Control Diabetes.	Prof. Ata-ur-Rehman, Biochemistry Department, Jinnah Post-Graduate Medical Center, Karachi.	82,753.00	01.01.1981 to 30.12.1982
18.	S-KU/Med (45)	Haemoglobin Structural Changes and their Impact on Function.	Dr.Zafar H. Zaidi, HEJ Post Graduate Institute of Chemistry, University of Karachi, Karachi.	54,108.00	11.06.1981 to 22.09.1982
19.	P-PMI/Med (49)	High Altitude Medical Research Project: Change in Renal Function.	Dr. Farakh A. Khan, Faculty of Surgery, Post-Graduate Medical Institute, Lahore.	43,309.00	01.08.1981 to 31.10.1981
20.	P-SGR/Med (48)	Cholelithiasis and Incidence of Carcinoma in Gall Bladder Diseases.	Prof. Dr. Khalida Usmani, Sir Ganga Ram Hospital, Lahore.	160,126.00	01.01.1981 to 31.12.1983
21.	F-AFMC/Med (50)	Prevalence and Prevention of Tuberculosis in Children.	Dr. Faiz Mohammad, Department of Paediatrics, Khyber Medical College, Peshawar.	78,740.00	01.09.1981 to 31.09.1982
22.	P-PMI-Med (53)	Role of Calcium in Renal Stone Formation in Pakistan.	Dr. Farakh A. Kha, Postgraduate Medical Institute, Lahore.	11,964.00	16.06.1981 to 15.06.1983

23.	C-QU/Med (55)	Hormonal Level and Secretary Pattern in Rhesus Monkeys with Induced Polycystic Ovaries.	Dr.M.Arslan, Biological Department, Quaid-I-Azam University, Islamabad.	64,010.00	16.06.1981 to 15.06.1982
24.	P-KEMC/ Med (57)	Epidemiological Study of Orbital tumours in Mayo Hospital, Lahore.	Dr. Munir-Ul-Haq, Ophthalmology Department, King Edward Medical College, Lahore.	54,118.00	16.06.1981 to 15.06.1983
25.	S-DMC/Med (67)	To Study the Prevalence, Clinical Presentation and Management of Juvenil Rheumatoid Arthritis, J.R.A.	Prof. Saleh Mimon, Medicine Department, Dow Medical College and Civil Hospital, Karachi.	226,135.00	01.07.1981 to 30.06.1983
26.	C-NIH/Med (69)	Study of Viral Respiratory Diseases in Children in Rawalpindi and Islamabad.	Dr. Abdul Ghafoor, Public Health Division, Natural Institute of Health, Islamabad.	88,769.00	16.06.1981 to 15.06.1983
27.	C-QU/Med (54)	Sexhormone Binding Globulins, Age Dependence and interrelationships with Steroids Hormones.	Dr.M.Arslan, Biological Sciences Department, Quaid-I-Azam University, Islamabad.	50,205.00	04.10.1982 to 04.10.1983
28.	P-AEMC/ Med (58)	Neonatal Screening for Hypothyroidism and its Relationship To Mental Retardation.	Dr. Farhat Zaheer, Atomic Energy Medical Center, Mayo Hospital, Lahore.	39,980.00	01.07.1982 to 30.06.1983
29.	P-PMI/Med (72)	High Altitude Medical Research Project: Incidence of Malarial Parasites.	Dr.M.aslam Khan, Human Genetics Department, Postgraduate Medical Institute, Lahore.	40,500.00	18.10.1982 to 31.01.1983

30.	P-PMI/Med (73)	High Altitude Mountain Sickness Explorative and Evaluative Study.	Dr. Farakh A. Khan, Postgraduate Medical Institute, Lahore.	37,400.00	18.01.1982 to 31.01.1983
31.	P-PMI/Med (81)	Comparative Study of Lung Function Test in Healthy Adults and Chronic Smokers Applying Different Techniques of Smoking.	Prof. Shahnaz Javed, Post-graduate Medical Institute, Mayo Hospital, Lahore.	60,525.00	01.06.1983 to 31.05.1984
32.	B-BU/Med (89)	Bio-Chemistry of Gallbladder Mucin Glycoproteins.	Dr. Nisar-ud-Din, Department of Biochemistry, University of Baluchistan, Quetta.	220,550.00	01.08.1983 to 31.07.1986
33.	S-KU/Med (45/1)	Haemoglobin Structural Changes and their Impact on Function. (Extension Project)	Dr. Zafr H. Zaidi, HEJ Research Institute of Chemistry, University of Karachi, Karachi.	60,188.00	01.05.1983 to 30.04.1984
34.	S-DMC/Med (66)	Identification of Bio-Medical Errors Causing Brain Damage and Neurological Disorders.	Dr. Akhtar Ahmed, Neurology Department, Dow Medical College, Karachi.	238,131.00	01.10.1983 to 30.09.1986
35.	S-LMC/Med (71)	Ultrasound in Obstetrics and Gynecology.	Prof. Qamar Shah, Liaquat Medical College, Jamshoro.	235,117.00	01.11.1982 to 31.10.1985
36.	P-PMI/Med (86)	Modification Trabeculotomy.	Dr. Nazir Ahmad Malik, Postgraduate Medical Institute, Mayo Hospital, Lahore.	59,006.00	01.08.1983 to 31.03.1985
37.	P-FMC/Med (87)	Comparative Study of Tru-Cut Needle Biopsy in Evaluation of Breast Masses.	Dr. Khalida Usmani, Professor of Surgery, Fatima Jinnah Medical College, Lahore.	144,260.00	01.01.1983 to 31.12.1985

38.	C-QU/Med (88)	Use of Carcine-Embryonic Antigen for Cancer Diagnosis.	Dr.M.Arslan, Department of Biology, Quaid-I-Azam University, Islamabad.	151,071.00	01.01.1984 to 31.01.1986
39.	P-PMI/Med (90)	Effect of Fasting on Serum and Urinary Bo-Chemical Profile of Normal Males.	Prof. Furakh A. Khan, Department of Urology, Post-graduate Medical institute, Lahore.	30,213.00	01.06.1984 to 31.12.1984
40.	C-PC/Med (92)	Incidence of Infertility in Islamabad Management of Primary and Secondary Infertility, by Advanced Techniques.	Dr. Saima janjua, Central Government Polyclinic, Islamabad.	122,984.00	01.12.1984 to 30.11.1986
41.	B-BU/Med (93)	Bio-Chemistry of Normal asthmatic and Bronchitic Lung Mucus.	Dr. Nasirr-ud-Din, Department of Bio-Chemistry, University of Baluchistan, Quetta.	550,415.00	01.08.1983 to 31.07.1986
42.	S-DMC/Med (102)	To Study the Present Pattern of Prevalence Etiology, Clinical Presentation and Management of Lower Gastro Intestinal Disorders.	Prof. Dr. Saleh Memon, Dow Medical College, Karachi.	197,485.00	07.06.1985 to 06.06.1987
43.	S-DMC/ Med(103)	Early Detection of Cancer Cervix using Coldo Microscope and Comparing With Other Methods.	Prof. Noor Jehan Samad, Dow Medical College, Karachi.	439,470.00	01.09.1985 to 31.08.1987
44.	P-PMI/Med (104)	Maternal Serum Alpha-Feto-Protein Levels in Second Trimester of Pregnancy and its Correlation with Prenatal Diagnosis of Impending Fetal Death and Open Neural Tube Defects.	Dr. Shahnaz Javed Khan, Post-graduate Medical Institute, Lahore.	55,488.00	01.05.1985 to 30.04.1987

45.	S-AKMC/ Med (105)	General Anesthetic Respiration Function and Gama Amino Butyric Acid (GABA) Level in Rat Brain.	Prof. Dr. Amin Suria, Department of Pharmacology, Aga Khan Medical College, Karachi.	148,465.00	18.05.1985 to 17.05.1987
46.	P-FJMC/ Med (107)	Colorectal Biopsics in the Diagnostic Evaluation of Large Bowel Diseases.	Dr. Khalida Usmani, Professor of Surgery, Fatima Jinnah Medical College, Lahore.	319,310.00	01.08.1985 to 31.07.1987
47.	P-PMI/Med (91)	An Etiology Study of Urolithiasis in D.G. Khan, Muzaffargarh, and Bhawalpur.	Prof. Furakh A. Khan, Department of Urology, Post-graduate Medical institute, Lahore.	160,340.00	01.01.1986 to 34.12.1987
48.	S-JPMC/ Med (114)	Acquired Immune Deficiency Syndrom: Seroepidemiology and Surveillance.	Prof. Amtul Hafiz, Jinnah Post-graduate Medical Center, University of Karachi, Karachi.	54,400.00	01.01.1987 to 31.12.1987
49.	P-PGMI/ Med (109)	Sodium Transport in Erythrocytes of Patients with Treated and Un-Treated Essential Hypertension.	Dr. Shahnaz Javed Khan, Post-graduate Medical institute, Lahore.	61,410.00	01.01.1987 to 31.12.1987
50.	S-JPMC/ -Med (85)	Bio-Chemical Studies on Trauma.	Prof. M. Atta-ur-Rehman, Department of Biochemisty Jinnah Post-graduate, Medical Center, University of Karachi, Karachi.	212,551.00	01.06.1986 to 15.06.1988
51.	S-JPMC/Med(129)	Use of Leu M1, Monoclonal Antibody for the Diagnosis of Hodgkin's Disease.	Dr. Capt. Ghulam Mustafa, Department of Pathology (Medical Sciences), Jinnah Postgraduate Medical Centre, Karachi.	40,395.00	01.04.1989 to 31.03.1990

52.	S-JPMC/Med(143)	Effect of Periodic Massive Dose of Vitamin-A, on Improving the Iron Status of Anemic Children of Low Socio-economic Status of Karachi.	Dr. Abdul Baseer, Department of Biochemistry, Jinnah Postgraduate Medical Centre, Karachi.	29,000.00	31.03.1992 to 28.02.1993
53.	S-JPMC/Med(98)	Byssinosis in Cotton Industry of Sindh.	Dr. Salim-ud-Din Aziz Jinnah Postgraduate Medical Centre, Karachi.	382,300.00	01.06.1986 to 30.05.1989
54.	S-KU/Med(108)	Studies on Protein Changes in Senile Cataract.	Prof. Dr. Zafar H. Zaidi, HEJ Research Institute of Chemistry, University of Karachi, Karachi.	505,965.00	01.01.1987 to 31.12.1990
55.	C-NIH/Med(110)	Mother Infant Transmission of Hepatitis B Virus in Pakistan	Dr. Abdul Ghafar, National Institute of Health, Islamabad.	195,725.00	01.01.1986 to 31.12.1188
56.	S-JPMC/Med (145)	Predictive and Discriminative Relations of Lipids and Lipoproteins with Angiographically Assessed Coronary Artery Disease.	Dr. Abdul Baseer, Department of Biochemistry, Jinnah Postgraduate Medical College, Karachi.	24,000.00	31-03-1992 to 28-02-1993
57.	P-PGMI/Med (142)	Compensatory Renal Hypertrophy following Unilateral Nephrectomy in Albino Rats at Low and High Altitude.	Dr. Farakh Ahmad Khan, Postgraduate Medical Institute, Lahore.	25,000.00	26-06-1992 to 25-05-1993
58.	C-NIH /Med(149)	A Study of Prevalence of Pollen Allergies in Islamabad.	Dr. Shahid Abbas, National Institute of Health, Islamabad.	285,450.00	01-03-1996 to 28-02-1998
59.	S-AKU/Med(161)	<u>Low Urinary Citrate: A Major Risk Factor for Calcium Stone in Pakistan.</u> Is it Due to Low Alkali Intake?	Dr. Jamsheer Talati The Agha Khan University Medical College, Karachi, Karachi	239,836.00	01-07-1998 to 30-06-2000

60.	C-PINSTECH/MED (172)	Clinical Application of 13C Urea Breath Test for Diagnosis of Helicobacter pylori Infection and Confirmation of Eradication following Therapy.	Dr. Rakhshanda Bilal, Pakistan Institute for Nuclear Science & Technology (PINSTECH), Islamabad.	269,848.00	01-06-1998 to 30-05-2000
61.	S-AKU/Med (185)	Role of vitamins B6, B12 and folate glutathione and cytokines in the development of coronary artery disease in a Pakistani population.	Dr. Tayyab Hussain Centre for Molecular Biology, University of the Punjab Lahore.	268,800.00	01-07-1992 to 30-06-1995
62.	S-AKU/Med (160)	Analysis of morphological, immunohistochemical and genetic prognostic determinants in predicting disease free survival of breast carcinoma patients.	Dr. Shahid Pervez Aga Khan University Karachi	2, 29,500.00	01-07-1998 to 15-12-2000
63.	S-AKU/Med (161)	Low urinary citrate, a major risk factor for calcium stone in Pakistan is it diet induced.	Dr. Jamsheer Talati The Aga Khan University Karachi	262, 732.00	01-05-1998 to 30-09-2000
64.	S-DMC/Med (180)	Haem degradation products in the feaces of jaundiced and normal newborn infants.	Dr. Sina Aziz Senior Medical Officer Pediatrician/ Neonatology PMRC, Dow Medical College, Karachi	114,205.00	15-09-2000 to 14-09-2001 adopted in 2008
Total Amount (Rs.)				7,762,177.00	

PHYSICS

S.No	Project No.	Project Title	Name & Address of Principal Investigator	Total Expenditure (Rs.)	Date of Initiation & Completion
1.	S-KU/Phys (3)	Investigation of Electronic Spectra of Metallic Hydrides.	Dr. M. Rafi, Physics Department, University of Karachi, Karachi.	123,225.00	01.07.1974 to 30.06.1978
2.	P-PU/Phys (11)	High Energy Phenomenology.	Dr.M. Saleem, Physics Department, University of Punjab, Lahore.	31,103.00	01.07.1974 to 30.06.1977
3.	P-PU/Phys (12)	Properties of Dielectrics at Microwave Frequencies.	Dr. Shafiq H. Tirmizi, Physics Department, University of Punjab, Lahore.	42,315.00	01.05.1975 to 31.12.1976
4.	P-PU/Phys (9)	To Investigate Momentum Distribution of Nucleons inside the Nuclei of Light Elements of Emulsion using Nuclear Emulsion Technique.	Dr.N.A. Khan, Physics Department, University of Punjab, Lahore.	133,009.00	01.11.1974 to 31.10.1976
5.	S-KU/Phys (5)	Fundamental and Applied Research in Experimental Solid State Physics at and below Room Temperature.	Dr.S.M.A Tirmizi, Physics Department, University of Karachi, Karachi.	501,982.00	01.07.1975 to 30.06.1978
6.	S-KU/Phys (13)	A) Isotope Fraction Studies of Stable Isotopes. B) Diffusion of Gases in Solids.	Dr.S.A Hussain, Physics Department, University of Karachi, Karachi.	139,679.00	01.10.1977 to 30.04.1979

7.	P-PU/Phys (19)	Impact of Ioans on Solids.	Dr.M.Rafi Chaudhry, Center for Solid State Physics, University of Punjab, Lahore.	656,792.00	01.09.1978 to 31.08.1981
8.	C-QU/Phys (20)	To Study the Various interactions in Elementary Particle Physics in Particular Weak and Electromagnetic interaction.	Prof. Fayyaz-ud-Din, Physics Department, Quaid-I-Azam University, Islamabad.	95,041.00	15.09.1978 to 30.09.1980
9.	S-KU/Phys (23)	Spectroscopy of Diatomic Molecules.	D.M. Rafi, Physics Department, University of Karachi, Karachi.	271,838.00	01.10.1978 to 30.09.1981
10.	C-QU/Phys (26)	Nonlinear Wave Propagation in Plasma.	Dr.G. Murtaza, Physics Department, Quaid-I-Azam University, Islamabad.	74,185.00	01.07.1978 to 07.01.1982
11.	P-PU/Phys (29)	Material Studies by Auger and Photo- Emission Spectroscopy.	Dr.M.Suleman, Center of Excellence in Solid State Physics, University of Punjab, Lahore.	237,100.00	23.07.1980 to 22.07.1981
12.	P-PU/Phys (30)	Trapping Levels and Mobile Charge Determination in Thin Solid Films.	Dr. Fateh Muhammad Nazar, Center of Solid State Physics, University of Punjab, Lahore.	141,910.00	01.06.1979 to 30.05.1982
13.	P-PU/Phys (31)	Electromagnetic Properties of Rocks Building Material and Ceramics.	Dr. M.A Shah, Centre of Solid State Physics, University of Punjab, Lahore.	36,000.00	01.09.1981 to 31.01.1984

14.	C-QU/Phys (33)	An investigation of the Weak and Electromagnetic interactions of Particles with Particular Reference to High Energy Neutrino Scattering and Electron Position Annihilation.	Dr. M.S.K. Razmi, Physics Department, Quaid-i-Azam University, Islamabad.	16,500.00	01.09.1980 to 31.08.1981
15.	P-PU/Phys (11/1)	High Energy Phenomenology. (Extension Project)	Dr. M. Saleem, Physics Department, University of Punjab, Lahore.	93,210.54	09.08.1979 to 08.08.1982
16.	S-KU/Phys (24)	Measurement of Electrical Conductivity of some Solids at and Below Room Temperature.	Dr. S.M.A. Tirmizi, Department of Physics, University of Karachi, Karachi.	167,632.00	01.03.1981 to 01.04.1983
17.	C-QU/Phys (36)	Some Aspects of Thermonuclear Fusion.	Dr.G.Murtaza, Department of Physics, Quaid-I-Azam University, Islamabad.	128,631.00	01.05.1982 to 31.10.1987
18.	P-PU/Phys (40)	Characterization of MIS and Thin Film Solar Cells.	Dr. Fateh Muhammad Nazar, Centre for Solid State Physics, University of Punjab, Lahore.	192,917.00	01.05.1983 to 28.02.1986
19.	P-PU/Phys (11/2)	High Energy Phenomenology.	Dr.M.Saleem, Department of Physics, University of the Punjab, Lahore.	317,921.00	01.03.1983 to 28.02.1987
20.	S-KU/Phys (41)	Study of Transport Properties in Solids Particularly II-IV Compounds.	Dr.S.M.A Tirmizi, Department of Physics, University of Karachi, Karachi.	135,982.00	01.08.1985 to 31.07.1986

21.	P-IU/Phys (43)	Feasibility Study of Wind Energy Utilization in Cholistan Area Bhawalpur.	Dr.M.Belal sukhera, Cholistan Institute of Desert Studies, Islamia University, Bahawalpur.	157,114.00	01.04.1986 to 30.09.1987
22.	C-QU/Phys (44)	Deep Level Transient Spectroscopy on Semi-Conductor Material.	Dr.M.Zafar Iqbal, Department of Physics, Quaid-I-Azam University, Islamabad.	351,386.00	01.05.1985 to 30.04.1988
23.	C-QU/Phys(49)	Coherence Properties of Radiation in Non Linear Optics and Lasers.	Dr. M. Suhail Zubairy, Department of Physics, Quaid-i-Azam University, Islamabad.	389,228.00	01.09.1986 to 31.08.1989
24.	C-QU/Phys(50)	Computer Simulation of Laser Fusion/ Some Aspects of Plasma Physics.	Prof. Dr. G. Murtaza, Department of Physics, Quaid-i-Azam University, Islamabad.	577,237.00	01.09.1986 to 31.08.1989
25.	S-KU/Phys(51)	Electronic Spectra of Molecules.	Prof. Dr. M. Rafi, Department of Physics, University of Karachi, Karachi.	373,907.41	01.03.1988 to 28.02.1991
26.	C-QU/Phys(54)	Atomic Photo absorption Spectroscopy at High Resolution.	Dr. M. Aslam Baig, Department of Physics, Quaid-i-Azam University, Islamabad.	707,295.00	01.02.1988 to 31.01.1991
27.	C-QU/Phys(57)	Quark Aspects of Nuclear Physics.	Dr. Pervez Amir Ali Hoodbhoy, Department of Physics, Quaid-i-Azam University, Islamabad.	144,743.51	01.02.1988 to 31.01.1991

28.	C-QU/Phys(62)	Nonlinear Optical effects in Atoms in a Cavity.	Dr. M.S.K. Rizvi, Department of Physics, Quaid-i-Azam University, Islamabad.	132,125.00	01.11.1989 to 30.12.1991
29.	P-PU/Phys(52)	Laboratory Preparation and Study of Properties of Binary and Ternary semi-conducting Compounds.	Dr. Shakoor A. Mughal, Department of Physics, University of the Punjab, Lahore.	96,264.80	15.06.1989 to 14.06.1990
30.	C-QU/Phys(64)	Theoretical/Experimental/ Computational Study of Some Aspects of Plasma/Fusion Physics.	Prof. Dr. G. Murtaza, Department of Physics, Quaid-i-Azam University, Islamabad.	235,795.25	01.09.1989 to 15.10.1991
31.	C-QU/Phys(69)	Wave Propagation and Transport Phenomenon in Controlled Fusion.	Prof. Dr. G. Murtaza, Department of Physics, Quaid-i-Azam University, Islamabad.	400,513.43	01.10.1991 to 30.09.1994
32.	C-QU/Phys(70)	Study of Plasma Focus Discharge.	Dr. Mohammad Zakaullah, Department of Physics, Quaid-i-Azam University, Islamabad.	261,069.32	01.09.1991 to 31.08.1994
33.	C-QU/Phys(75)	Numerical/Experimental Study of Z-O Pinch Device.	Prof. Dr. Sakhawat Beg, Department of Physics, Quaid-i-Azam University, Islamabad.	171,091.75	01.09.1991 to 31.08.1993
34.	C-QU/Phys(78)	High Resolution Studies of Atoms and Molecules.	Dr. M. Aslam Baig, Department of Physics, Quaid-i-Azam University, Islamabad.	386,403.00	01.09.1991 to 31.08.1993

35.	P-BZU/Phys(55)	Characterization of Semi Conductor Lasers.	Dr. M. Zakariya Arif, Department of Physics, Bahauddin Zakariya University, Multan.	351,677.00	01.11.1988 to 31.10.1991
36.	C-QU/Phys(58)	Preparation and Study of the High TC Super Conductors.	Dr. Khurshid Hassnain, Department of Physics, Quaid-i-Azam University, Islamabad.	256,748.64	01.08.1989 to 31.07.1992
37.	C-QU/Phys(67)- (67)/1	A Study of Coherence Properties of Radiation in Lasers and Quantum Optics.	Dr. M. Suhail Zubairy, Department of Physics, Quaid-i-Azam University, Islamabad.	481,757.00	01.01.1990 to 31.12.1992
38.	S-KU/Phys(72)	Electronic Spectra of Diatomic Molecules.	Prof. Dr. M. Rafi, Department of Physics, University of Karachi, Karachi.	291,110.00	01.08.1991 to 31.07.1994
39.	C-QU/Phys(73)	Weak Interactions in a Medium and their Implications in Astrophysics/ Cosmology	Prof. Dr. Kamal-ud-Din Ahmed, Department of Physics, Quaid-i-Azam University, Islamabad.	257,619.00	01.09.1991 to 31.08.1994
40.	S-KU/Phys(74)	Optical studies of Liquid Crystals.	Dr. Iqbal A. Khan, Department of Physics, University of Karachi, Karachi.	248,336.00	01-07-1994 to 31-01-1997
41.	C-QU/Phys(71)	Optical Characterization of Defects in Semiconductors	Dr.M.Zafar Iqbal, Department. Of Physics, Quaid-i-Azam University, Islamabad.	477,807.00	03-06-1993 to 30-06-1996

42.	C-QU/Phys(85)	Hard Processes in Nuclear/Particle Physics.	Dr. Pervez Amir Ali Hoodbhoy Department of Physics, Quaid-i-Azam University, Islamabad.	219,143.05	01-10-1993 to 30-09-1996
43.	C-QU/Phys(87)	Characterization of Radiation Induced Defects in Semiconductors.	Dr. (Mrs.) Nasim Zafar, Department of Physics, Quaid-i-Azam University, Islamabad.	355,683.75	01-11-1993 to 31-10-1996
44.	C-QU/Phys(90)	Studies on the Anisotropy and Vortex Motion in Melt Texture Grown Super Conductors.	Dr. S.K. Hasanain, Department of Physics, Quaid-i-Azam University, Islamabad.	192,595.00	01-07-1994 to 30-06-1997
45.	C-QU/Phys(92)	An Experimental Study of Plasma Focus Discharge	Dr. M. Zakaullah, Department of Physics, Quaid-i-Azam University, Islamabad.	338,783.87	01-09-1994 to 31-10-1997
46.	C-QU/Phys(89)	Numerical/Theoretical Study of Laser Light Propagation, Energy Deposition & Thermal Transport in Laser Produced Plasmas, & Computational Study of Z-Pinch Plasma.	Dr. Arshad Majeed Mirza , Department of Physics, Quaid-i-Azam University , Islamabad.	187,451.01	01-06-1995 to 31-05-1996
47.	P-PU/Phys(91)	Elastic & Diffractive Scattering & QCD Based Phenomenology.	Dr. Fazal-e-Aleem, Center of High Energy Physics, University of the Punjab, Lahore.	190,001.16	01-07-1995 to 30-06-1997
48.	P-PU/Phys(99)	Analytical Investigation of Non-linear Waves in Semiconductor Superlattice Plasmas.	Dr. H.A. Shah, Centre for Solid State Physics, University of the Punjab, Lahore.	231,372.00	01-11-1995 to 30-10-1998

49.	P-CEME/Phys(103)	Fabrication of Cadmium Telluride Photovoltaic Solar Cells by Close-Spaced Sublimation.	Lt. Col. Dr. Nasim A. Khan, College of Electrical & Mechanical Engineering, (CEME), Rawalpindi.	471,812.30	15-6-1995 to 14-6-1997
50.	C-QU/Phys(93)	Atomic Coherence Effects in Laser & Quantum Optics.	Dr. M. Suhail Zubairy , Department of Electronics, Quaid-i-Azam University, Islamabad.	255,899.50	01-06-1996 to 30-05-1999
51.	P-PU/Phys(94)	Theoretical/ Computational Studies of Fractals in Material	Dr. Nazma Ikram, Centre for Solid State Physics, University of the Punjab, Lahore.	248,985.73	01-06-1996 to 30-05-1999
52.	C-PINSTECH/Phy (97)	Study of Heavy Ion Reactions using Dielectric Track Detectors.	Dr. Imtinan Elahi Qureshi, Radiation Physics Division, PINSTECH, Islamabad.	299,066.90	01-07-1996 to 30-06-1998
53.	P-BZU/Phys(95)	Optical and Electrical Properties of Germanate Glasses.	Dr. M. Younas Nadeem, Department of Physics, Bahauddin Zakarya University, Multan.	482,000.00	01-05-1997 to 30-04-2000
54.	PSF/NSFC/Res (6)/Phys	Particle production & nuclear fragmentation in $O^{16} + S^{32}$ collision at 14.6, 60 & 200GeV energies.	Prof. Dr. Abdul Waheed Khan Gomal University, D.I. Khan	4, 48,060.00	01-04.1995 to 31-03-1998

55.	S-KU/Phys (74)	Optical studies of liquid crystals.	Prof. Dr. Iqbal A. Khan University of Karachi, Karachi.	2, 48,436.00	01.07.1991 to 31.1.1997 (re-initiated)
56.	P-BZU/Phys (95)	Optical & electrical properties of germanate glasses	Prof. Dr. M. Younis Nadeem Bahauddin Zakrya University, Multan.	4, 83,090.00	01.05.1997 to 31.04.2000
57.	C-QU/Phys (104)	Laser assisted atomic structure studies.	Prof. Dr. M. Aslam Baig Quaid-i-Azam University, Islamabad.	2, 31,849.00	01.06.1997 to 31.05.2000
58.	P-PU/Phys (106)	Fabrication and study of Mechanical properties of High Strength High Temperature Zirconia Based Composites.	Prof. Dr. Salah-ud-Din Center of Excellence in Solid State Physics, University of the Punjab, Quaid-i- Azam Campus, Lahore.	434,459.00	01-10-1999 to 30-09-2001
59.	C-QU/Phys (115)	Quantum state measurement.	Prof. Dr. M. Suhail Zubairy, Chairman, Dept. of Electronics, Quaid-I-Azam University, Islamabad.	3,78,797.40	01-09-1999 to 30-08-2002
60.	C-QU/Phys (119)	Generation and characterization of hydrogen, methane and oxygen-argon cold plasma.	Dr. Riaz Ahmed Centre for Advance Studies in Physics, Govt. College, Lahore.	624,515.00	01-11-2001 to 30-10-2004
61.	C-QU/Phys (120)	Laser optogalvanic spectra of atoms.	Dr. M. Aslam Baig. Department of Physics, Quaid-i-Azam University Islamabad.	6,60,113.00	01-08-2001 to 30-07-2004

62.	PSF/Res/P-PU/Phys (117)	Investigations in CP violation.	Prof. Dr. Haris Rashid, Center for High Energy Physics, University of the Punjab, Quaid-I-Azam Campus, Lahore.	3,35,202.00	21-.04-2000 to 20-10-2003 adopted in 2008
63.	C-QU/Phy (121)	Preparation and characterization of CdTe based solar cells and related thin film materials.	Dr. Asghari Maqsood Professor Dept. of Physics Quaid-i-Azam University, Islamabad.	933,763.00	01-07-2003 to 30-06-2006 adopted in 2008
64.	C-QU/Phy (128)	Investigation about iron related defects in silicon.	Dr. Akbar Ali, Professor. Dept. of Physics Quaid-i-Azam University, Islamabad.	1,048,812.00	01-07-2003 to 30-06-2005 adopted in 2008
65.	C-QU/Phy (130)	Study of soliton formation, ITG modes and energy deposition by cluster-ion- beams in dust-contaminated plasma.	Dr. Arshad M. Mirza, Professor. Dept. of Physics Quaid-i-Azam University, Islamabad.	272,048.00	01-07-2003 to 30-06-2006 adopted in 2008
Total Amount (Rs.)				17,072,591.92	