DETAIL BIO-DATA

1. **PERSONAL PARTICULARS:**

i)	Name:	**DR. A. RAUF BHUTTA s/o CH. KHAIR-UD-DIN**
ii)	National Identity Card No.	[redacted]
iii)	Date of Birth & Domicile:	15.06.1955, Sialkot (Narowal) Punjab, (Pakistan).
iv)	Postal Address / contact	H.No.51,St.no. 86, G-13/1, Islamabad
v)	E. Mail No.	[redacted]

2. ACADEMIC AND PROFESSIONAL QUALIFICATION

Sr. No	Name of Examination	Year	Aggregate Marks/Grade	University/ Board	Major Subjects
i)	High School Certificate.	1971	II-Div. (54.89%)	Board of Intermediate and Secondary Education, Lahore.	Elective Science and Technical Drawing.
ii)	F.Sc. Agriculture	1973	III-Div. (49.95%)	University of Agriculture, Faisalabad, Pakistan	Elective Science, Biology, English Agronomy etc.
iii)	B.Sc (Hons) Agri.	1976	II Div. (53.53%)	-do-	Botany, Agri. Econ. Entomology, Pt. Pathology & other Agri. Subjects.
iv)	M.Sc (Hons) Agri. Plant Pathology	1979	1st Division CGPA (3.43) (72.14%)	-do-	Plant Pathology Bio-Chemistry Statistics and Plant Protection.
v)	**Ph.D.** (Agri)	1998	Thesis defended in Aug. 1997.	Sindh Agri. Uni. Tandojam. Pakistan.	Plant Pathology

3. TRAINING AND RESEARCH

S.No	Name of training/ topic of research	Supervisor	Institution	Duration
i)	Certificate in Plant Protection Field Training Course.	Dr. Hafiz Abdul Qayyum,Professor of Entomology.	University of Agriculture, Faisalabad, Pakistan.	08.09.97 to 13.09.77
ii)	M. Sc. Thesis Research Project "Incidence of Seed Infection and Reaction of Cotton Varieties to *Xanthomonas malvacearum*"	Dr. M.A.R. Bhatti, Professor and Chairman, Dept. of Plant Pathology.	University of Agriculture, Faisalabad.	1977 to 1979
iii)	LDA's Research Project "The use of sewage effluent for broad irrigation and its effect on crops and human consumption".	Dr. M.A.R. Bhatti, Professor and Chairman, Dept. of Plant Pathology.	University of Agriculture, Faisalabad.	1978 to 1979
iv)	Prescion Land Leveling and Water Course Development Training Course.	M.Sadiq Cheema, Director General, (WM) Agri.	Punjab Agriculture Department, Pakistan	April,80 to Jul.1980

S.No	Name of training/ topic of research	Supervisor	Institution	Duration
v)	Certificate, I,II in "Seed Pathology" Research Project Studies on Pathogens Associated with Cotton Seed Lots Grown in Pakistan.	Dr.S.B.Mathur, Director,DGISP- DC, **Denmark.**	Danish Govt. Institute of Seed Pathology for Developing Countries, (DGISP) Copenhagen.	01.09.85 to 31.08.86
vi)	Certificate in Plant Diseases Diagnosis.	Dr. M.Aslam, Director, CDRI.	Crop Diseases Research Institute, PARC, Islamabad.	04.01.87 to 22.01.87
vii)	Certificate I and II in "Potato Seed Technology" FAO/DANIDA and National Training Course.	Dr. A.F.Nielson and Dr.J.B.Henrikson, Plant Protection Specialist, **Denmark.**	FAO/DANIDA in collaboration with Federal Seed Certification Department (FSCD) Islamabad.	05.04.87 to 16.04.87 11.03.90 to 22.03.1990
viii)	Certificate in "Seed Pathology "FAO/ DANIDA National Training Course.	Prof. Dr. R.O. Hampton Oregon State University, **USA.**	FAO/DANIDA in collaboration with FSCD, Islamabad.	10.01.88 to 21.01.88
ix)	Certificate in “Maize Diseases Field Inoculation Techniques”.	Dr. Carlos De Leon Plant Pathologist.	CIMMYT,ARMD/ PARC, Islamabad	24-29 July, 1989
x)	Certificate in “Train-the-Trainer Course on “Legume seed Production”	Dr. T.A. Van Gastel, Head Seed Unit, ICARDA, **Syria.**	FSCD, Islamabad in collaboration with ICARDA, Syria.	05-14 April, 1994
xi)	Certificate in specialized training course in “Food Legume Seed Health Testing”	Prof. Dr. Ahmad-El-Ahmad, Seed Health Consultant, ICARDA, **Syria.**	FSCD, Islamabad and ICARDA, Syria.	14-20 March, 1995
xii)	Ph.D. Thesis Research Project "Biological studies on some fungi associated with sunflower in Pakistan".	Dr. M.H. Rahber Bhatti, Professor and Chairman, Dept. of Plant Pathology.	Sindh Agriculture University, Tandojam.	1990 to 1998
xiii)	Certification in “Seed Industry Development” FAO/FSCD National Seminar on Seed Industry Development.	Mr. J. Wobil, FAO Seed Consultant, **Italy.**	FAO/FSCD and M/o Food and Agri. Islamabad, Pakistan.	4-6, June 1996
xiv)	Certificate in Computer Basic Course, FCC, DOS, WP-51.	Mr. Qarni, Principal, Apprenticeship Training Centre (ATC).	Govt. of Pakistan, ATC, Islamabad.	17.8.1998 to 18.11.1998.
xv)	Certificate in Modern Agricultural Management Training Course	Mr. Yu Shengwei, Director, AOTC, **China.**	Hubei Agricultural Officials Training Center, Wuhan, China.	03.05.2000 to 02.07.2000
xvi)	Workshop on Non-Formal Education for IPM Resource Persons.	Prof. Yourk von Korff, The American Uni. CAIRO & Dr. Iftikhar Ahmad, DDG, NARC, Islamabad.	NARC, Islamabad	12.02.2002 to 16.02.2002

S.No	Name of training/ topic of research	Supervisor	Institution	Duration
xvii)	Training Course on Project Management.	Dr. Nisar Ahmad, DG, PPMI, P&D Division, Islamabad	Pakistan Planning Management Inst., P&D Div. GOP. IBD	16-21 Sep. 2002
xviii	Workshop on quality assurance in microbiology Testing Labs to be Accredited under ISO 1705.	Mr. Zawdu Felleke CTA, UNIDO, Islamabad.	TRTAP, UNIDO & PNAC	8th Nov. 2004
xviv.	Participation Certification. Human & Institutional Capacity Development Conference, AJK.	Mr. Khalid Sultan Chief Secretary AJK	AJK Govt. Muzaffarabad	August, 26-27, 2008
xvv.	Training course on Food Security Situation in South Asia	Dr. Riffat Aysha Anis Director (SHRDC)	SAARC, HRDC Islamabad	October 02-7-12
Xvvi.	Trg.course/seminar on Effective Working Relation in public & Pvt Sector.	Dr.Fayaz A.Ranjha DG, PMI	PMI,M/o FE&PT Islamabad	11&12th March,2015
Xvvii.	Advanced Agri. Business Management Course for Executives & Mangers in Collaboration with Cornell Uni.USA	Mr. Mari Amana Secretary General, APO	APO Japan/ FTPI Thailand	25-29th July, 2016

4. **EMPLOYMENT RECORD (More than 32 years)**

S.No	Title of Position	Duration	Supervisor	Main Duties
i.	**(Rtd)Director General (BS-20)** FSC&RD, M/o NFS&R, Islamabad.	01-06-2015 to 15-6-2015	Mr. Seerat Asghar, Secretary, M/o NFS&R, Islamabad	a) Project Planning and Development. b) Responsible for all matters of public & private seed sector.
ii.	**Director, FSC&RD M/o NFS&R(BS-19)**	04-12-12 to31-5-2015	Dr. Shahid Iqbal DG, FSC&RD	c) Incharge administration & accounts d) Responsible for preparation of monthly, quarterly and annual reports.
iii.	**Deputy Director,** (BPS-18), FSC&RD, Ministry of Food, Agri. & Livestock, Islamabad.	18.12.1998 to 03.12.2012	Dr. Akhlaq Hussain Director General, (FSC&RD).	e) Liaison with National & International Organizations. f) Responsible for policy matters. g) Responsible for seed health activities. h) Monitoring of import/export of seeds i) Research, publications & training. j) Supervision of process Accreditation
iv)	**Assistant Director,** (BPS-17 + 200 SP). FSC&RD,Islamabad.	08.02.1996 to 18.12.1998	Syed Irfan Ahmad Director General, FSC&RD.	a) Field inspection and seed health of various crops. b) Preparation of monthly, quarterly, annual reports and monitoring of results to seed procurement agencies (Public and Private).
v)	**Seed Certification Officer** (BPS-17+200 SP) Central Seed Health Laboratory, FSCD, Islamabad,	29.06.1982 to 31.08.1986 at R.Y.Khan and 01.09.1986 to 08-2-1996 at Islamabad.	-do-	c) Seed health testing training of departmental officials and Scientific research publications. d) Monitoring of seed quality in the market & at the port of entries.
vi)	**Assistant Research Officer** (NPS-17), Plant Virology/ Pathology Ayub Agricultural Research Institute,Faisalabad, Pak	17.07.81 to 28.06.82	Dr. M. Saleem Mirza, Plant Virologist and Dr.Ahmed Saleem Akhtar, Plant Pathologist.	a) Survey, isolation and identification of crop diseases. b) Technical services to extension staff and farmers. c) Research on control measures of crop diseases.
vii)	**Agricultural Officer** (Pest. Forecasting), (NPS-17), Plant Protection Institute,	26.02.77 to 21.08.77	Mr. Ghulam Qadir Ch. Director, PPI.	a) Survey and assessment of insect and diseases of crops. b) Technical guidance to the farmers.

	Faisalabad, Sub-station, Kasur, Pakistan.	c) Reporting and monitoring of results.
5.	**SCIENTIFIC PUBLICATIONS** (Including 19 Books/Proceedings, 21 Research Reports, Abstracts/ Research Notes).	**125 No. (List enclosed)** (Including 20 in International Journal)
6.	**ADDITIONAL PROFESSIONAL ACTIVITIES.**	
A)	General Secretary and President, Tutorial Group, Uni. of Agriculture, Faisalabad. Pakistan.	1974-75 & 1975-76
B)	**TEACHING AND TRAINING ACTIVITIES:-**	
i)	**Visiting Lecturer, Co-Supervisor & Examiner**: On Seed Pathology and Bacteriology Courses, Barani Agricultural College (BAC) and University of Arid Agriculture (UAA) Rawalpindi, Pakistan.	1989-90 1994-95 & 1996
ii)	**Secretary/Member, Resource Professionals & Trainer**: National Organizing Committees/Training Courses:-	
a)	FAO/DANIDA National Training Course on Seed Pathology, Islamabad.	10.1.88 to FSCD, 21.01.88
b)	FAO/DANIDA National Training Course on Potato Seed Technology, FSCD, Islamabad.	13.3.90 to 22.03.90
c)	FSCD/ICARDA Train-the-Trainers Course on Legume Seed Health Testing, FSCD, Islamabad.	14.3.95 to 20.03.95
d)	FSC&RD/AKRSP training course on "Quality Seed Potato Production in Northern Areas (N.As), Gilgit.	2-4-2002
e)	FSC&RD/AKRSP/DOA-N.A's Capacity Building Training Workshop 8-9 April, on Seed Potato Crop Management in N.A's, Gilgit.	2004
f)	FSC&RD/SDP/AKRSP/AKF/USAID Training Course on fruit plant nurseries management and registration, Islamabad.	3-7th Feb.2014.
g)	Member NOC for FSC&RD/SAP, National Seminar on Role of Quality Seed in Food Security, R.Y.Khan.	24th March, 2014
iii)	**External Examiner**: M.Sc.(Hons) Agri. Plant Pathology, Uni. of Agri. Faisalabad (Pak).and for graduate level to AJK University College of Agriculture, Rawalakot.	1991-92 1996-97 to date.
iv)	**Part time tutor** for Rural Development Course, Allama Iqbal Open University, Islamabad.	1999-2002& 2015-2016
v)	**Member,** Core Group of life Scientists, Directory of Life Scientists, Comstech, Islamabad.	2003
vi)	**Member**: Board of Studies of the Department of Mycology and Plant Pathology, University of Punjab, Lahore.	2002 to 2010
vii)	**Member:** Inter University Course Curriculum Committee, HEC & National Curriculum Revision Committee (Pt. Path.) HEC, Islamabad.	2003-04 2004-05
viii)	**Supervising graduate and post graduate students research and internship** to University of Agriculture, Faisalabad and University of Arid Agriculture, Rawalpindi.	2001 to date
ix)	**Member, Advanced Studies & Research Board,** PMAS, Arid Agri. University Rawalpindi.	Mar, 2014 to date
C)	**AWARDS**	
i)	**National Star Award**, South Asia Publications, Karachi.	2003
ii)	**Life Time Achievement Award**, Private Schools Network, Islamabad.	2004
iii)	**Al-Hafeez Scientist Award**, Agriculture Reform Movement, Lahore.	2011
iv)	Pakistan's Nominee for ECO Awards-Iran	2003

D) **WORKING EXPERIENCE WITH FAO/DANIDA AND ICARDA CONSULTANTS:**

	Name and Country	Country Assignment	Duration
i)	**Prof.Dr.R.O.Hampton,** Department of Botany and Plant Pathology, Cordley Hall 4071, Oregon State University Corvallis, OREGON.	Assisted FAO/DANIDA Seed Health Consultant/ Course Director in conducting of FAO/DANIDA National Training Course "Seed Pathology, Islamabad".	10.1.88 to 21.1.88
ii)	**Dr.A.From Nielson,** Director, Deptt.	Assisted FAO/DANIDA Seed Health Consultant/ Course Director in conducting of	13.3.90 to

	of Plant Protection, Udkaersvej-15,Skeiby Dk-8200,Arhus, N. Denmark.	FAO/DANIDA, National Training Course "Seed Potato Technology", Islamabad.	22.03.90
iii)	**Prof.Dr.Ahmad-El-Ahmad,** Seed Health Consultant,ICARDA, Aleppo, Syria.	Assisted ICARDA Seed Health Consultant/ Course Director in conducting "FSCD/ICARDA Food legume Seed Health Testing Course".	12.3.95 to 20.0.95
E)	**ADDITIONAL COURSES/TRAININGS.**	a) National Cadet Corps Training, University of Agriculture, Faisalabad	31.10.73 to 30.08.75
		b) Introductory Course on Denmark **"<u>Danish Life and Culture</u>"** Danida Fellowship Centre/ISC, <u>Copenhagen.</u>	20.10.85 to 26.10.85
		c) Certificate in "Introductory Fire Fighting Training" PIA Corporate Safety, Islamabad.	14.10.94
		d) Certificate in official Urdu Language for Federal Government Officers, Allama Iqbal Open University, Islamabad.	1992-93
F)	**MEMBER SCIENTIFIC/ PROFESSIONAL/Civic SOCIETIES.**	**i) <u>Life Member & Joint Secretary</u>** Pakistan Phyto-Pathological Society, University of Agriculture, Faisalabad,(PAK.).	1988 and 1998 todate
		ii) **<u>Life Member,</u>**	
		- Pakistan Botanical Society, (PBS), University of Karachi.	1994 todate
		- Agricultural Foundation of Pakistan, Islamabad.	1997 todate
		- Mycopathological Society of Pakistan, University of the Punjab, Lahore.	2006 todate
		iii) **<u>Regular Member & Joint Secretary</u>** Pakistan Society of Seed Technologists, Lahore.	1995-96 todate
		iv) **<u>Member,</u>** Research Board of Advisors, ABI, N.C, USA.	1999 todate
		v) **<u>Editor</u>** Pakistan Journal of Seed Technology, Islamabad.	2001 todate.
		vi) **<u>Vice President,</u>** MYCOPS, University of the Punjab, Lahore.	2004-05
		vii) **Executive Member** Green Pages, Agri. Reform Movement, Lahore.	2005-06
		viii) **Member** Better Pakistan Foundation, Islamabad	2007
		ix) **Chairman** (Hon), Bhutta Development Foundation **Narowal**.	2008 to date
		x) **Patron Chief,** Private School Network, Islambad	2005 to date
		xi) **General Secretary**(Hon) Agriculture Reform Movement, Lahore.	2006 to date
		xii) Founder Chairman, Islamabad Board Education(IBE) PSN- 1998	
G)	**REFEREE FOR SCIENTIFIC JOURNALS**	i) Pakistan Journal of Botany, PBS, Karachi.	1993 todate
		ii) Pakistan Journal of Agricultural Research, PARC, Islamabad.	1992 todate
		iii) Science Technology and Development CS&T, Islamabad.	1992 todate
		iv)Pak.J.Sci.& Ind.Res.PCSIR,Karachi	1996 todate
		v) Mycopath, Dept. of MPPL, Uni. of Punjab,Lahore	2003 todate
H)	**SUB-EDITOR/ TREASURER.**	- National Seed Bulletin, FSC&RD, G-9/4, Islamabad.	Jan.94 to 1999
I)	**COUNTRIES VISITED**	- Denmark, Sweden and Germany.	1985-86*
		- Denmark(To attend 24th ISTA Congress)	1995(two week)
		- Syria (To attend seminar on Seed Technology)	1996 (two week)
		- P.R. China	2000(two months)

&2016(Two weeks)

- Thailand & Japan (Study tour) 2007 (two week)
- Bangladesh (visit SIAC) 2007 (one week)
- Turkey (Participation in the Interregional Workshop) 2009(one week)
- Syria Int.wheat strip rust symposium,ICARDA. 2011 (one week)
- Itlay 14th session of PGR for F&A. 2013(one week)
-Saudia Arabia 2013(Two week)

*One year training and research in Seed Pathology at DGISP-DC & one-week excursion tour to **Sweden** (Stockholm) and **Germany** (Lubek).

J) **Project Incharge:** - "Establishment of Seed Testing Laboratories & Rehabilitation of Existing Laboratories" 07-10-2004 todate
- "Establishment of Seed Certification System for Vegetable Seed Production in N.As and AJK" 2005 todate

k) **Special Task/achievement:** Established Central Seed Health Laboratory at FSC&RD (Hqrs), Islamabad & 15 new STL. 1985-86

L) **Member (Technical)** - GB Seed Council (GBSC) Govt. of GB 2018 to date.

7. **National Consultant** (Short term consultancy)

i. Integrated Pest Management
FAO/IPM Cotton Project in Asia (GCP/RAS/164/EU/FAO) 3 months (2001)

ii. PC-I of project, "Improvement of cotton quality through modern agricultural practices. Sumitomo Corporation/ODA, Japan----------One week (2003)

iii. PC-I, Projects prepared/consultancies----------15 days (2003)

a) Best Agricultural Practices and IPM in the MRD Project Area, NWFP. FAO/MRDP.
b) Promotion of olive cultivation in MRD Project Area, NWFP. FAO/PODB/MRDP.
c) Introduction of cashmere goats in Malakand division under MRDP, NWFP. FAO/MRDP.

iv. Training Manual on Potato Biotechnological Rapid Multiplication Techniques, submitted to Department of Agriculture, Northern Areas, Gilgit---------- 20 days (2004)

v. Preparation of TORs for various consultancies under the project MARS-NAs---------7 days (2006)

vi. Preparation of TORs for various consultancies under the project SDA-NAs----------7 days (2007)

vii. Studies on Agriculture Farms Mountain Agriculture Research System DOA, NAs-10 days (2007)

viii. PC-1, Establishment of N.A Seed Corporation (Public/Pvt. Partnership), AKRSP, (GB). Gilgit-30 days(2008).

ix. Consultant Hunza Seed Crop, Western Agri. Products & Bhutta Seed Corp (2015 to date)

x. Tech. Consultant with Global environmental management services, Karachi. (2017-18.)

xi. National Consultant on Development of seed system ETI- IFAD, GB.-----10 Days (2018) & (2020).

8. **REFERENCES**

(i). Dr. Hafeezullah Khan, Chairman Pakistan Science Foundation (PSF). Cell.No [redacted]
E-mail:- [redacted]

(ii). Prof. Dr. Tariq Mukhtar, Deen Faculty of Food & Agri. PMAS, AAU, Rawalpindi.
Cell No. [redacted] E-mail:- [redacted]

9. **SEMINAR/WORKSHOP/CONGRESS/STUDY TOUR**

i) Participated in the National Traveling Seminar on Sunflower/Soybean, 10-16 May, 1991, organized by National Oilseed Development Project (NODP), Pakistan Agricultural Research Council, Islamabad.

ii) Participated and presented a paper on "Karnal Bunt of Wheat in Pakistan" at the Fourth National Conference of Plant Scientists, Organized by the Pakistan Botanical Society and held at Ayub Agri. Research Ins. (AARI), Faisalabad from 16-18 February, 1993.

iii) Participated in the Workshop on "Modern assays for fungal pathogens with special reference to Plasmodiophorals" organized by CDRI/PSPDP, held on 25th January, 1995 at National Agricultural Research Centre (NARC), Islamabad.

iv) Participated and presented jointly three papers on "Seed-borne pathogens of mungbean, maize and soybean", at the 5th National Conference of Plant Scientists, organized by Pakistan Botanical Society, held at NARC, Islamabad from 28-30 March, 1995.

v) Participated in the "National Workshop on Oilseed Strategy Planning", Organized by Lendell Mills Ltd. UK and NODP/PARC, held from 29-30 March, 1995 at Islamabad, Pakistan.

vi) Participated and presented a paper on "Production of disease free seed potato, present status and future area of research and development in Pakistan" at PSPDP/PARC National Seminar on "potato Research and Development" at NARC, Islamabad from 23-25 April, 1995.

vii) Participated and presented a paper on "Seed Pathology:- An emerging science of Plant disease management in the production of quality seed in Pakistan" at 24th Pre ISTA Congress-Seminar "Seed health testing in production of quality seed" at Copenhagen held on 6th June, 1995, organized by Danish Govt. Inst. of Seed Pathology for Developing Countries, Denmark.

viii) Participated in the 24th ISTA Congress held from 7-16, June 1995, held at Copenhagen, Denmark, organized by International Seed Testing Association (ISTA), Switzerland.

ix) Participated in the FAO/FSCD "National Seminar on Seed Industry Development" held on 4-6 June, 1996 at Islamabad in collaboration with Ministry of Food,Agriculture & Livestock, Govt. of Pakistan.

x) Participated and presented a paper on "Seed-borne diseases problem of legume crops in Pakistan" in a follow-up Seminar on Seed Technology held from 1-12, December 1996, at ICARDA, Aleppo, Syria.

xi) Participated and presented a paper on "Chemical control of seed-borne fungal pathogens of sunflower" at 7th National Conference of Plant Scientists organized by Pakistan Botanical Society, held at University of the Punjab, Lahore, Pakistan from November 14-16, 2000.

xii) 1st Pakistan Agri. Business conference (April 26-28, 2001) organized by the Mediators Conferences and Board of Investment, Government of Pakistan, Islamabad.

xiii) Workshop on Non-Formal Education for IPM Resource Persons, held on Feb. 12-16, 2002 and organized by National IPM programme NARC, Islamabad in collaboration with FAO/EU.

xiv) International Workshop on "SPS Measures in the wake of trade liberalization: Challenges to Agriculture in Developing Countries" from 12-14, January 2005, Organized by University of Arid Agriculture, Rawalpindi, Pakistan.

xv) Two weeks Study Tour to Thailand and Japan, regarding Seed Industry Development – Organized by APSA, during May and June, 2007.

xvi) Two days conference on human & institutional capacity development (August 26-27th 2008) organized by Azad Govt. of the State of Jammu & Kashmir, Muzaffarabad.

xvii) International Workshop on contingency planning for rapid variety release, seed multiplication and distribution of wheat rust resistant varieties. Ankara, Turkey, 7-10 December 2009, organized by ICARDA & FAO.

xviii) International wheat stripe rust symposium, Aleppo, Syria, 18-12, April, 2011, organized by ICARDA, FAO, BGRI & CIMMYT.

xix) International Course on Seed Pathology, Production and Management, September, 27-28, 2011 & Int. Workshop on Seed Testing through ISTA Standards at Faisalabad, organized by University of Agriculture, Faisalabad and USDA.

xx) Brief report on flood relief performance – 2011, FSC&RD,M/o NFS&R, GoP, Islamabad.

xxi) Development of fruit plant certification system and production of early generation seed potato. A visit Report of Gilgit Baltistan – 28 -10-2013 to 01-11-2013.

xxii) Fourteenth session of Plant Genetic Resources for Food & Agriculture, FAO (Hqrs) Rome, Italy 14-20th April, 2013.

xxiii) International Seed Workshop organized by University of Agriculture, Faisalabad & USAID - 2-3 October, 2013.

xxiv) Participated/chaired a session & presented a paper on"Genetic Resources and international obligations of Pakistan" at 5th International Conference on Crop Protection for sustainable Agriculture (Nov. 23-25, 2015, organized by PPS, at Ins. of Agri. Sciences, University of the Punjab, Lahore.

xxv) Paper presented & chaired session in 6th Int. conf. of PPS(Plant Health for Sustainable Agri. W.e.f.Nov.20-22, 2017. BZU, Multan.

xxvi) Paper presented at Int. Trg. Course on Agri. Business Value Chian, organized by ASF/USAID & IFAD Project at Islamabad. W.e.f. 11-13, December, 2017.

xxvii) Organized and participated, in Two days National Education Conference, Islamabad, 27-28th August 2019, Nat Coordination Council (NCC) All Private Schools Association and hosted by Private schools Network, (PSN) Islamabad.

xxviii) Paper presented on "Seed Pathology" An integrated approach for disease management & Chaired a session of Training Workshop on "Integrated disease management, June 07-09-2021, Organized by Deptt. of PP, PPS & PSN, founded by ORIC, PMAS AAU, Rawalpindi.

xxix). Technical Resource Persons declared by ORIC, Uni. Of Agri. Faisalabad, 2023, for training of Agri. Officers of the Deptt. of Agri. Pb. in seed sector.

xxx). Paper presented on "Developments in testing technology of plants & planting materials" and chaired a session of Training Workshop on "Hyperspectral imaging for the detection of plant pathogens farm seeds, Organized Deptt. PP, CETEWA & ORIC, PMAS AAU, Rawalpindi" 02-03-2024.

10. **Project Management and Research**

1. Worked as Research Assistant with LDA/UAF Project "The use of sewage effluent for broad irrigation and its effect on crops and human consumption". .....**One year (1978-790).**
2. Post Graduate Research Project "Incidence of seed infection and reaction of cotton varieties to *Xanthomanas malvacearum* at the University of Agriculture Faisalabad (UAF).**2 years (1977-79)**
3. As DANIDA Scholar worked on research and training Project "Studies on the pathogens associated with cotton seed lots grown in Pakistan" at Danish Govt. Inst. of Seed Pathology for Developing Countries (DGISP-PC), Copenhagen.....**One year (1985-86).**
4. Co-Incharge FAO/DANIDA Project on "Seed health and certification of seed potato, FSC&RD, Islamabad.....**5 years (1986-1990).**
5. As Ph.D Scholar worked on a research project "Biological studies on some fungi associated with sunflower in Pakistan" at CHSL, FSC&RD, Islamabad and Sindh Agriculture University, Tandojam.....**6 years (1991-97).**
6. Prepared PC-I of National Integrated Pest Management (IPM) project "Executed by GCP/RAS/164/EU/FAO-Bangkok/Nat.IPM programme, Pakistan, Islamabad.....**3 months (2001).**
7. Prepared PC-I of project "Establishment of seed health system for monitoring of seed quality during production and export/import. FSC&RD, GOP, Islamabad.....**2002-2003 to 2006-2007.**
8. Prepared PC-I of Project "Improvement of cotton quality through modern agricultural practices" Sumitomo Corporation/ODA, Japan and MINFAL, Islamabad. .....**2003.**
9. Prepared PC-I Best Agricultural Practices and IPM in the MRD Project Area, NWFP. FAO/MRDP……**2003.**
10. Prepared PC-I Promotion of Olive Cultivation in MRD Project Area, NWFP. FAO/PODB/MRDP.....…….**2003.**
11. Prepared PC-I Introduction of cashmere Goats in Malakand Division under MRDP, NWFP. FAO/MRDP……**2003.**
12. Prepared PC-1 Establishment of Seed Testing Laboratories and Rehabilitation of Existing Laboratories, FSC&RD, GOP, Islamabad.……...**2004-05 to 2008-09.**
13. Prepared PC-1 "Establishment of Mountain Agri. Research System, Deptt. of Agri. NAs. **2004-05.**
14. Prepared PC-1 "Sustainable Development of Agriculture in Northern Areas, Department of Agriculture, Northern Areas……..**2004-05.**
15. Prepared PC-1 "Establishment of Seed Certification System for Vegetable Seed Production in Northern Areas and AJK" ……**2005-06.**
16. Prepared PC-1 "Capacity Building of Seed Health Labs, FSC&RD for SPS Measures"…**2005-06.**
17. Prepared PC-1 "Strengthening of Capacity Building for Improvement of Agriculture Statistics in Pakistan (FANA Component), Deptt. Of Agriculture, N.As, Gilgit…….**2005-06.**
18. Prepared PC-1 Establishment of FSL for production of Pre-basic seed of cotton, FSC&RD/ PCCC. **2007.**
19. PC-I "Establishment of NAs Seed Corp. (Pub / Pvt. Partnership) AKRSP/DOA, NAs" ……**2008**
20. Prepared PC-I "Seed Quality / Health Testing Lab". FSC&RD, for ISO certification, Karachi.**2008**
21. PC-I Establishment of Seed Certification System in AJK…… **2009.**
22 PC-I, Development of Mountain Agriculture Research Set up in Gilgit Baltistan **2012**
23 PC-I Monitoring of Seed Quality in the Market, FSC&RD, Islamabad **2012**
24 PC-I Monitoring of Seed Potato Quality for Food Security in Pakistan, FSC&RD, IBD. **2013**
25 PC-I Strengthening of Seed Certification Services for Food Security in Gilgit Baltistan. **2013** FSC&RD, Islamabad.
26 Prepared Protocol for Bt. Cotton Seed Certification, FSC&RD, Islamabad **2013**

27 PC-1, Up gradation of seed certification services in Baluchistan FSC&RD, Islamabad **2014**
28. PC-I, Strengthening of STL, FSCRD, Karachi **2014**
29. PC-I, Rehabilitation of Central Seed Health Labs, FSCRD (In pipeline)……...**2023**

LIST OF SCIENTIFIC AND TECHNICAL PUBLICATIONS

A- **RESEARCH PAPERS (Including 20 International Publications*)**

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2. Ahmad, S.I. and **Bhutta, A.R.** 1989. Seed industry development in Pakistan. Science Technology and Development: 8(5): 35-38.
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4. Ahmad, S.I. and **Bhutta, A.R.** 1990. Legume seed production, constraints and strategies for improvement. Progressive Farming. 10(4): 10-12.
5. Ahmad, S.I. and **Bhutta, A.R.** 1993. Wheat seed health testing for *Ustilago tritici* and *Tilletia indica*. Pakistan J. Agric.Res. 14 (2 & 3): 222-226.
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*16. Bashir, M. Rehman, M.H. and **Bhutta, A.R.** 1994. Food grain industry and storage technology in Pakistan. S&T in the Islamic World, 12(2): 63-70.

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75. **Bhutta, A. R.,** Malik, T.H. and Ali, M.A. 2009. Wheat rust screening and variety development/ research system in Pakistan. PJST.11(13&14): 10-24.

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88. Mehmood, M.Q, Bhatti, F.J and **Bhutta,A.R.,** 2003. Present scenario of seed borne fungi in certified wheat seed lots in Punjab, PJST. 1(3): 49-58.

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B- **ABSTRACTS RESEARCH NOTES/LETTERS TO EDITOR OF SCIENTIFIC JOURNAL**

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***5. **Bhutta, A.R.** 1990. Studies on pathogens associated with cotton seed lots grown in Pakistan. Summary No.143, Published in "Summaries of Research Projects 1967-88, DGISP for Developing Countries, Denmark, PP-III.

6. **Bhutta, A.R.** 1993. Vegetable and horticultural seed production in Islamabad. Science Technology and Development, 12(2): 62.

7. **Bhutta, A.R.**,Rahber-Bhatti, M.H. Ahmad, I and Nizamani, S.M. 1995. Chemical control of seed-borne pathogen of sunflower "ABSTRACTS" Fifth National Conference of Plant Scientists, 28-30 March, 1995, at NARC, Islamabad, P: 64-65.

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12. Noor, Z., Ahmed, S, Khan, S. N Javid, F. & Musa , M., and **Bhutta, A.R.,** 2009. Prevalence, incidence and severity of rot of ground nut (Arachis hypogeal. L) in rain fed area of Punjab,Int. Seminar on Advances in Agriculture (11-12) August, 2009, Uni. College of Rawalakot AJK.
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C- **RESEARCH REPORTS AND TECHNICAL BULLETINS**

1. Ahmad, I. Mirza, S, **Bhutta, A.R.** and Asad, S. 1991. Report on plant pathology for traveling seminar on sunflower/soybean NODP, NARC, Islamabad, P: 18 (Fig.5,Table-3, Appendx-2).
2. **Bhutta, A.R.** 1979. Incidence of seed infection and reaction of cotton varieties to *Xanthomonas malvacearum* (E.F.Smith) Dowson. (M.Sc. Thesis Uni. of Agri. Faisalabad). PP: 31.

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4. **Bhutta, A.R.** 1998. Biological studies on some fungi associated with sunflower in Pakistan (Ph.D Thesis, Sindh Agri. Uni. Tandojam).
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11. **Bhutta, A.R.,** Khan, M.Q., Muhammad, J. and Hussain, I. 2004. Pathological Survey of Potato Crop in NAs. Published by FSC&RD/AKRSP/NADOA, Islamabad/Gilgit. PP-109 (ISBN8191-10-0).
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