

Resume of Dr. Muhammad Azam Khan

I. Personal Data

- Born in Dera Ismail Khan, Pakistan on 2nd March, 1952 and hold Pakistani nationality.
- Office/Mailing Address: Faculty of Agriculture, Gomal University, Dera Ismail Khan.
- Permanent Home Address: Pirzai House, Alizai Street, D. I. Khan, Pakistan.
- Phone Office: +92 966 750253
 - Residence: +92 966 733465
 - Mobile: +92 300 5812297
- Email: azam369@yahoo.com.au; azamkhn7@gmail.com; azam@gu.edu.pk;
- National ID No: 12101-0960774-1
- Pass port No.GR4107741

II. Academic Qualifications

- Post Doctorate, 2007 Charles Strut University, Wagga Wagga New South Wales, Australia.
- Ph.D. Agricultural Engineering with Specialisation in Energy in Agriculture with Special Reference to Water Management, 1994, Asian Institute of Technology (AIT), Bangkok, Thailand.
- M.Sc. Agricultural Engineering, 1986, University of Agriculture, Faisalabad, Pakistan.
- B.Sc. Agricultural Engineering, 1976, University of Engineering and Technology, Peshawar, Pakistan

III. Computer Literacy

Soft wares in normal use

M.S. Word, M.S. Excel, M.S. Power Point

IV. Specialized Trainings

International

- Use of Geophysical Electrical Sounding Array System to Quantify Losses in Irrigation System Charles Strut University, Wagga Wagga, NSW, Australia. From 9th August 2006 to 8th November 2006.

National

- Precision Land Leveling and Water Management. On-Farm Water Management Project, Ministry of Agriculture, Peshawar, Pakistan, 1977.
- Technology and Industrial Development. NWFP Agricultural University, Peshawar, 1983.
- English for Academics Purposes. Academy of Education Development, Islamabad
- Statistical Procedures and Computer Application in Agricultural Research, Pakistan Agricultural Research Council, Agricultural Research Station, D.I. Khan

V. Experience

December 2008 to date

Position: Associate Professor,

Location: Faculty of Agriculture, Gomal University Dera Ismail Khan, NWFP, Pakistan.

Duties: Working on Research Project Related to Use of energies (with special reference to water resources).

Teaching Subjects of Water Management, Technical Drawing, Surveying, Rural Electrification, Farm Power, and Farm Machinery.

January 2005 to December 2008

Position: Assistant Professor,

Location: Faculty of Agriculture, Gomal University Dera Ismail Khan, NWFP, Pakistan.

Duties: Working on Research Project Related to Use of energies (with special reference to water resources).

Teaching Subjects of Water Management, Technical Drawing, Surveying, Rural Electrification, Farm Power, and Farm Machinery.

August 2006 to March 2007

Granted study leave for “Post Doc” at Charles Strut University, Wagga Wagga New South Wales, Australia and also completed three months training on use of Geophysical Electrical Sounding Arrays System to Quantify Losses in Irrigation System at Murray Darling Basin, NSW, Australia”.

January 2002 to January 2005

Position: Senior Engineer, Water Resources Research Institute (WRRI),
Location: National Agricultural Research Centre, Pakistan Agricultural Research Council, Islamabad.
Duties: Responsible to assist Director WRRI for planning, evaluation, and coordination of research in the sector of energy in agriculture with special reference to water use.

July 1988 to January 2002

Position: Assistant Professor,
Location: Faculty of Agriculture, Gomal University, Dera Ismail Khan, Pakistan.
Duties: Worked on Research Project Related to Impact of Energies on Different Crops with Special Reference to Water Use.
Taught Subjects of Water Management, Technical Drawing, Surveying, Rural Electrification, Farm Power, Farm Machinery.

October 1990 to December 1994

Granted study leave for the degree of “Doctor of Engineering” at Asian Institute of Technology, Bangkok, Thailand and completed the research project on “Energy Inputs and Crop Production, in Dera Ismail Khan District of Pakistan”, as a partial fulfilment of D.E. degree.

October 1980 to July 1988

Position: Lecturer,
Location: Faculty of Agriculture, Gomal University, Dera Ismail Khan, Pakistan.
Duties: Taught Subjects of Technical Drawing, Surveying, Rural Electrification, Farm Power, Farm Machinery.

January 1984 to June 1986

Granted study leave for Master's degree in Agricultural Engineering at Faculty of Engineering & Technology, University of Agriculture, Faisalabad, Pakistan and completed research project on “Effect of Soil Compaction on Seed/Seedling Performance of Wheat Crop”, as a partial fulfilment of M.Sc. Engineering degree.

September 1979 to October 1980

Position: Water Course Engineer,
Location: On-Farm Water Management Project, Ministry of Agriculture, NWFP,
Duties: Worked in the Design, Construction, and Management of Water Courses, Land Levelling and Related Scientific and Development Services in Surface Water Development.

October 1977 to September 1978

Position: United Nation Agricultural Engineer,
Location: United Nation/ Pakistan Program for Drug Abuse Control. Islamabad, Pakistan.
Duties: Responsible for all technical services, related to Engineering (including Design, Construction, and Management of Water Courses, Land Levelling, Tube well construction) in the project area.

VI. Membership of Technical and Expert Committees

National

- Member National Curriculum Revision Committee, Higher Education Commission Islamabad, Pakistan.
- Member of Scientific and Technical Expert team in support of the United Nation Framework Convention on Climate Change, Ministry of Environment and Rural Development, Government of Pakistan.

University

- Member Board of Advance Studies and Research, Gomal University, Dera Ismail Khan.
- Member Board of Studies, NWFP University of Engineering and Technology, Peshawar.

VII. Membership of Professional Organizations

International

- Life Member, Asian Association for Agricultural Engineering, Bangkok, Thailand

National

- Life Member, Pakistan Engineering Council

VIII. Participation in Seminars & Conferences

Organizer and one of the speakers of one day workshop on “Water/Energy Conservation in Agriculture”. Organized by Faculty of Agriculture, Gomal University, Dera Ismail Khan.

Participated in more than 20 National/International Seminars, Conferences and Workshops.

IX. Development of Projects

Working as member of the team, developed the following projects.

- National Research and Development Project on Water Management of Spate Irrigation System in Rod-Kohi Areas of Pakistan
Estimated Cost of the Project: Rs. 196.807 million
Status of the Project: Approved by Ministry of Food, Agriculture and Livestock, Pakistan.
- National Research Project on Water Management of Spate Irrigation System in Rod-Kohi Areas of Pakistan
Estimated Cost of the Project: Rs. 95.961 million
Status of the Project: Approved by Ministry of Finance
(The project remained in operation for five years in the four provinces of the country).

X. Publications

1. Awan, I.U. Rmzan, M. and **Khan, M.A. (1993)**. Efficiency of Herbicides in Direct seeded Short Duration Rice (*Oryza Sativa L*) Variety KSK-282, *Pakistan Journal of Weed Science Research*, 6(1-2), 56-60.
2. Khan, H.U., **Khan, M. A.**, Awan, I.U., Khan, M.A. and Munir, M. (1995). Effect of Rod-Kohi Irrigation on Wheat and Chickpea Production in a Semi-Arid Climate of Pakistan. *Pakistan Journal of Soil Science*, 10(1-4), 58-62.
3. **Khan, M. A.** and Singh, G. (1996). Energy Inputs and Crop Production in Western Pakistan. *Energy*, 21(1), 45-53. (The impact factor of the Journal is 1.712).
4. **Khan, M. A.** and Singh, G. (1997). Energy Inputs and Potential for Agricultural Production in Western Pakistan. *Agricultural Systems*, 54(3), 341-356. (The impact factor of the journal is 1.708).

5. **Khan, M. A.** (2002). Energy Inputs for Production of Wheat Crop in Pakistan. *Pakistan Journal of Agricultural Research*, 17(4), 314-319.
6. **Khan, M. A.**, Ahmad, S., Hussain, Z., Yasin, M., Aslam, M. and Majid R. (2005). Efficiency of Water and Energy Use for Production of Organic Wheat. *Journal of Science, Technology and Development*. Pakistan Council of Science & Technology, Islamabad, 24(1), 25-29.
7. **Khan, M. A.**, Rehman, A. and Singh, G. (2005). Impact of Chashma Right Bank Canal on Energy-Inputs and Crop Production in D.I. Khan. *Journal of Science, Technology and Development*. Pakistan Council of Science & Technology, Islamabad, 24(3):1-7.
8. Ahmad, S., **Khan M.A.**, Aslam, M. and Hussain, Z. (2005). Capsule-Type PE Biogas Digester: Low-Cost and Environment Friendly System. *Journal of Science, Technology and Development*. Pakistan Council of Science & Technology, Islamabad, 24(3), 14-18.
9. Pomee, M.S., Zaheer-ul-Ikram, M., **Khan, M. A.** and Ali, I. (2005). Drought Mitigation Measures: An Overview under Pakistan's Perspective. *Pakistan Journal of Water Resources*. 9(2), 31-42.
10. Pomee, M.S., Zaheer-ul-Ikram, M., **Khan, M. A.** and Ali, I. (2005). Guidelines for Field Calibration of Irrigation Outlets Commonly Used in Indus Basin Irrigation System. *Pakistan Journal of Water Resources*. 9(2), 31-42.
11. **Khan, M. A.**, Shafeeq, M. and Awan, I.U. (2007). Water and Energy Inputs for Wheat Production under Permanent Raised Beds. *Sarhad Journal of Agriculture*. 23(3), 693-699.
12. **Khan, M. A.**, Khan, S. and Mushtaq, S. (2007). Energy and Economic Efficiency of Wheat Production Using Different Irrigation Supply Methods. *Soil and Environment (Former, Pakistan Journal of Soil Science)*. 26(2), 121-129.
13. **Khan, M. A.**, Zafar, J. and Bakhsh, A. (2008). Energy Requirement and Economic Analysis of Sugarcane Production in Dera Ismail Khan District of Pakistan. *Gomal University Journal of Research*. 24(1), 71-81.
14. Latif, N., **Khan, M. A.** and Ali, T. (2008). Effects of Soil Compaction Caused by Tillage and Seed Covering Techniques on Soil Physical Properties and Performance of Wheat Crop. *Soil and Environment*. 27(2), 185-192.
15. **Khan, M. A.**, Awan, I. U. and Zafar, J. (2008). Energy Requirement and Economic Analysis of Rice Production in Western Part of Pakistan. *Soil and Environment*. 28(1), 60-67.
16. Khan, S., **Khan, M.A.**, Hanjra, M.A. and Mu, J. (2009). Pathways to reduce the environmental footprints of water and energy inputs in food production. *Food Policy*. 34 (2), 141-149. (The Impact factor of the Journal is 1.351).
17. **Khan, M. A.**, Khan, S. and Mushtaq, S. (2009). Energy and Economic Efficiency Analysis of Rice and Cotton Production in China. *Sarhad Journal of Agriculture*. 22(2), 291-300.
18. Awan, I.U., **Khan, M.A.**, Zareef, M. and Khan, E.A. (2009). Weed Management in Sunflower with Allelopathic Water Extract and Reduced Doses of Herbicide. *Pakistan Journal of Weed Science Research*. 15(1), 19-30.
19. **Khan, M.A.**, Khan, S. and Latif, N. (2009). Analysis of Energy Inputs and Outputs in Pakistan Agriculture – Part I. *Gomal University Journal of Research*. 25(2), 1-10.
20. **Khan, M.A.**, Khan, S., and Latif, N. (2009). Analysis of Energy Inputs and Outputs in Pakistan Agriculture – Part II. *Gomal University Journal of Research*. 25(2), 11-22.
21. Khan, S., **Khan, M.A.**, and Latif, N. (2010). Energy requirements and economic analysis of wheat, rice and barley production in Australia. *Soil and Environment*. 29(1): 61 - 68.
22. **Khan, M.A.**, Latif, N. (2010). Environmental friendly solar energy in Pakistan's scenario. *Renewable and Sustainable Energy Reviews*. 14(8), 2179-2181. (The Impact factor of the Journal is 4.075).
23. Hussain, Z., **Khan, M.A.** and Irfan, M. (2010). Water energy and economic analysis of wheat production under raised bed and conventional irrigation systems: A case study from a semi arid area of Pakistan. *Soil & Tillage Research*. 109(2), 61-67. (The Impact factor of the Journal is 1.695).
24. Qaisrani, R., Jian-qiao, LI., **Khan, M.A.**, Rashid, I. (2010). Soil adhesion preventing mechanism of bionic bulldozing plates and mouldboard ploughs. *Advances in Natural Science*. 3(2), 1-8.
25. **Khan, M.A.**, Qaisrani, R., Jian-qiao, LI. (2010). The techniques of reducing adhesion and scouring soil by bionic – Review of literature. *Advances in Natural Science*. 3(2), 103-112.

Thesis & Dissertation

1. “Effect of Soil Compaction on Seed/Seedling Performance of the Wheat Crop” M.Sc. (Agricultural Engineering) Thesis, University of Agriculture Faisalabad, Pakistan.
2. “Energy Inputs and Crop Production in Dera Ismail Khan District, NWFP Pakistan”. Doctor of Engineering Dissertation, Asian Institute of Technology, Bangkok, Thailand.

Reference

Engr. Dr A. Rashid Qaisrani
Plant Biosecurity
Biosecurity Australia
Australian Government Department of Agriculture Fisheries and Forestry
GPO Box 858,
Canberra ACT 2601
Phone# +61 2 6272 4191,
Email: rashid.qaisrani@biosecurity.gov.au

Engr. Dr Ghulam Q. Amur
Renewable Energy Policy and Partnerships Section
Industry, Community and Partnerships Branch
Department of Climate Change and Energy Efficiency
PO Box 854 CANBERRA 2601 ACT
Phone: +61 2 6159 3124
Email: ghulam.amur@climatechange.gov.au

Prof. Dr. Shahbaz Khan
Programme Specialist UNESCO (International Hydrological Programme)
Global Co-ordinator of the HELP programme
1, rue Miollis
Paris, France
Phone ++33 1 45 68 4569
Fax ++33 1 45 68 5811
Email: s.khan@unesco.org

Prof. Dr. Zahid Mahmood
Chairman
Department of Agricultural Engineering
NWFP, University of Engineering and Technology
Peshawar
Ph: 091 9216852
Email: zmahmood03@gmail.com

Prof. Dr. Taj Ali Khan
Department of Agricultural Engineering
NWFP, University of Engineering and Technology
Peshawar
Ph No. 091 9216 6500
Cell: 0301 8993556
Email: taj_marwat@yahoo.com