

CURRICULUM



Shoukat Ali Soomro

Assistant Professor

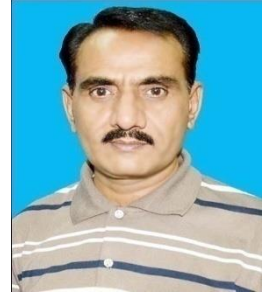
M.E. (SAU, PAK), B.E. (SAU, PAK)

Department of Land and Water Management

Faculty of Agricultural Engineering

Sindh Agriculture University Tandojam

Sindh, Pakistan



CURRICULUM VITAE

1. PERSONAL

Name: Shoukat Ali

Fathers' Name: Muhammad Chhotal Soomro

Designation: Assistant Professor

Date of birth: May 01, 1974

Nationality: Pakistani

Mailing Address:

i. Office: Department of Land and Water Management, Faculty of Agricultural Engineering, Sindh Agriculture University Tandojam, Sindh, Pakistan

ii. Home: Bungalow No. D-11, Block-A, Old Colony, Sindh Agriculture University Tandojam, Hyderabad, Sindh, Pakistan

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2. EXPERIENCE

TEACHING/ RESEARCH/ PROFESSIONAL

- i. **2017- Onward (TEACHING):** Assistant Professor in Department of Land and Water Management, Sindh Agriculture University, Tandojam, Pakistan.
- ii. **2014- 2017 (TEACHING):** Lecturer in Department of Land and Water Management, Sindh Agriculture University, Tandojam, Pakistan. **(3 years)**
- iii. **2014-2015 (RESEARCH):** Research Associate in HEC funded Project, Department of Irrigation and Drainage, Faculty of Agriculture Engineering, Sindh Agriculture University Tandojam. **(1 year)**
- iv. **2005-2014 (PROFESSIONAL):** Water Management Supervisor, in Department of Agricultural Engineering and Water Management (NPIW), Government of Sindh, Pakistan. **(9 years)**
- v. **2004-2005 (TEACHING):** High School Teacher in Iqra Higher Secondary School, Moro. **(1 year)**

3. SCIENTIFIC PAPERS/PUBLICATIONS

- I. Jazib Hussain Jakjrani, **Shoukat Ali Soomro**, Waqar Ahmed Bhayo and Irfan Ahmed Sheikh, (2019). Effect of different organic amendments on water holding capacity of different soils. Submitted in 1st International Conference of Agricultural Engineering and Technology, held on October 5 and 6, 2019, at Sindh Agriculture University, Tandojam. (Accepted)
- II. **Soomro S. A.**, Mirjat M. S., Mangrio M. A., Talpur M. A., (2019). “Moisture distribution zone with surface drippers placed in double circular peripheries of laterals for orchards”, *Mehran University Journal of Science and Technology* – August 2019, (Under Review)
- III. Jazib Hussain Jakhriani, **Shoukat Ali Soomro**, Irfan Ahmed Sheikh, Waqar Ahmed Bhayo, and Muhammad Jamil Laghari, (2019). Use of banana leaves powder as organic amendment to enhance the fertility of different soils. Submitted to *Pak. J. Agri., Agril. Engg., Vet. Sci.* (Submitted)
- IV. Noshawan, **Soomro S. A.**, Wagan B., Nazar Gul, Sheikh I. A., (2019). Scheduling of irrigation and nitrogen fertilizer for growing cabbage on raised beds. *Pak. J. Agri., Agril. Engg., Vet. Sci.*, 35 (2): 105-112
- V. Naeem Abass, **Shoukat Ali Soomro**, Assadulla Sarki, Ahmed Ali Taggar and Shabir Hussain. (2018). Performance evaluation of pour capsules, drip and raised bed irrigation methods for Bitter melon. Paper ID ICETEMS-KIU-2018-48. Presented in 3rd International Conference on Emerging Trends in Engineering, Management and Sciences (ICETEMS=2018), KARAKORUM INTERNATIONAL UNIVERSITY, GILGIT, PAKISTAN. Date:10-11 November 2018. Page No.53.
- VI. W. A. Bhayo, A. A. Siyal, **S. A. Soomro** and A. S. Mashori. (2018). Water saving and crop yield under pitcher and wick irrigation methods. *Pak. J. Agri., Agril. Engg., Vet. Sci.*, 34 (1): 57-67

- VII. Soomro A., Baloch A., Soomro S. A., Tagar A. A., **Soomro S. A.** Gandahi A. W. (2017). Effect of Different Irrigation Water Qualities on Turnip Production and Water Productivity under Furrow Irrigation Method. Journal of Basic & Applied Sciences. (13): 340-346
- VIII. Soomro A., Nauman M., Soomro S. A., Tagar A. A., **Soomro S.A.**, Burriri M., Gandahi A. W. and Memon A. H. (2017). Evaluation of Raised-Bed and Conventional Irrigation Systems for Yield and Water Productivity of Wheat Crop. Journal of Basic & Applied Sciences. (13): 143-149.
- IX. Shiekh I.A., Mangrio M.A., Memon S. A., Sarki A, and **Soomro S.A.** (2016). Impact assessment of water course lining in Barani area: A case study of Karachi. Journal of Science International Lahore. 28(5):4607-4610
- X. Babar A.A., Soomro A.A., Kandhro M.N., Ansari M.A., Laghari G.M., **Soomro S.A.** (2016). Effect of macro-nutrients and humic acid on growth and yield of different wheat genotypes. Journal of Science International Lahore. 28 (3): 2655-2660 (2016)
- XI. Siyal, A. A.; **Soomro, S. A.** and Siyal, A. G. (2015). Pitcher irrigation performance under saline water and high evapotranspiration rates. Journal of the Chinese Soil and Water Conservation. 46 (1): 61-69.
- XII. Mirjat, M. S., Chandio A. S., **Soomro S. A.**, Mirjat M. U. and Soothar R. K., (2015). Traditional and micro irrigation methods for better mango production. Booklet published in Sindhi and English.

4. ACADEMIC QUALIFICATION

- i. (Ph. D.)** Registration Number PhD-2K12-ID-40, Department of Irrigation and Drainage, Faculty of Agricultural Engineering, Sindh Agriculture University Tandojam, Pakistan. Academic Courses passed along with Synopsis Approval and Comprehensive exam. Data collection and thesis write-up is in progress
- ii. M. E.** (1st Class, 73%) Department of Land and Water Management, Faculty of Agricultural Engineering, Sindh Agricultural University Tandojam, Pakistan
- iii. B. E.** (1st Class, 67%) Faculty of Agricultural Engineering, Sindh Agricultural University Tandojam, Pakistan

5. ACHIEVEMENTS/AWARDS

3rd Position in M.E. (LWM)

6. PROFESSIONAL MEMBERSHIP

- i.** Member (Life time) of Pakistan Engineering Council (PEC) Registration No. AGRI/2547.
- ii.** Member of Program Team for Degree Program M.E. in Land and Water Management under Directorate of Quality Enhancement Cell, Sindh Agriculture University, Tandojam.
- iii.** Member of Program Team for Degree Program Ph. D. in Land and Water Management under Directorate of Quality Enhancement Cell, Sindh Agriculture University, Tandojam.
- iv.** Member of Board of Studies, Department of Land and Water Management, Faculty of Agricultural Engineering, Sindh Agriculture University Tandojam
- vi.** Member of Vigilance and Counselling Committee, Faculty of Agricultural Engineering, Sindh Agriculture University, Tandojam.
- vii.** Faculty Representative (FR), Faculty of Agricultural Engineering, Sindh Agriculture University Tandojam

7. COURSES TAUGHT TO STUDENTS IN SAU TANDOJAM

B. E. (Agricultural Engineering)

- i. LWM-311 Surveying and Levelling (Theory and Practical)
- ii. LWM-312 Farm Irrigation Systems (Theory and Practical)
- iii. LWM-501 Soil Physics (Theory and Practical)
- iv. LWM-508 Saline, Sodic and Waterlogged Soils (Theory and Practical)
- v. LWM-606 Water Management Practices (Theory and Practical)
- vi. LWM-607 Soil and Water Conservation Engineering (Theory and Practical)
- vii. AE-610 Project and Thesis write-up
- viii. AE-612 Internship and Report writing

M. E. (Land and Water Management)

- i. LWM-702 Advanced Soil Physics
- ii. LWM-703 Land and Water Management
- iii. LWM-704 Ground Water Modelling
- iv. LWM-705 Saturated and Unsaturated flow and Transport
- v. LWM-706 Soil water and Salinity Management
- vi. LWM-715 Integrated Watershed Management
- vii. LWM-716 Advanced Soil and Water Conservation

8. FIELD OF INTEREST

Water Management, Irrigation and Drainage

9. COMPUTER SKILLS

- i. A good knowledge of office automation, net surfing, and packages.

10. LANGUAGES

a. English

Good Reading, Speaking and Writing

b. Sindhi and Urdu

Excellent Reading, Speaking and Writing

11. TRAININGS

i. RECEIVED

2021 Three days training workshop (October 4-6, 2021) for “Surveying and Mapping by GPS and GNSS” organized by PMAS- Arid Agriculture University Rawalpindi and Data-Driven Decision Platform (DDSDP) Sindh Agriculture University Tandojam.

2017 Four days training workshop (November 20 to 23, 2017) on “Data analysis using SPSS Statistical Software” organized by U.S. Pakistan centre of Advanced Studies in Water, MUET, Jamshoro.

2015 Two days (August 12-13, 2015) on “Recycling of Banana Waste for Improving Soil Fertility & Soil Health” organized under the project “Soil Fertility and Soil Health Project” at Sindh Province.

2015 Three days (May 28-30, 2015) on “Flood Forecasting” organized by IWRE&M, MUET Jamshoro in collaboration with WSIP, Govt. Of Sindh

2015 Two days (March 26-27, 2015) on “Ridge and Bed Planting” organized by Watershed Rehabilitation and Irrigation Improvement in Pakistan at DRIP and PCRWR Tandojam

2014 Two days (November 27-28, 2014) on “Best Irrigation Practices and Technology” organized by Institute of Water Resources Engineering and Management MUET Jamshoro.

2011 Two days training on “Design of Pressurized Irrigation Systems” at Faculty of Agricultural Engineering, Sindh agriculture University Tandojam

2005 One Month (06-06-2005 to 02-07-2005) on “Water Management Technology Course” at Directorate Sindh Institute Sakrand.

ii. WORKSHOP/ SEMINARS ATTENDED

2021 One day (September 13, 2021) Focus Group Discussion to Produce a Policy Review for the Adapting to Salinity in the Southern Indus Basin (ASSIB) Project organized by Drainage Reclamation Institution Pakistan at Tandojam.

2020 One day Research Seminar on Agricultural Issues organized by Secretary, Agriculture, Supply and Prices, Department, Government of Sindh, on Monday, November 30, 2020 at Director General, Agriculture Research Sindh, Tandojam.

2020 One day Seminar on Water Resources Management and Climate Change held on October 28, 2020 at Pakistan Council of Research in Water Resources (PCRWR), DRIP Campus, Tandojam organized by Water, Minerals & Environmental (WME) Consultants, Karachi.

2018 One day Awareness Seminar (January 22, 2018) on “Climate change implications for water management and adaptation strategies”, jointly organized by Faculty of agricultural Engineering, Sindh Agriculture University, Tandojam and Pakistan Agriculture Research Council, Islamabad.

2017 Four days (November 20-23, 2017) on “Data Analysis using SPSS.” Organized by U.S. Pakistan Centres for Advanced Studies in Water. MUET Jamshoro.

2015 One day (November 26, 2015) on “Capacity Building of Professionals on Banana Tissue Culture & Micro Irrigation System for Tunnel Farming” organized by AWMP and CAEWRI, NARC Islamabad.

2015 One day (January 22, 2015) on “Best Irrigation Practices and Technologies” organized by IWREM at MUET Jamshoro sponsored by ICARDA under USDA.

2014 Two days workshop (November 18-19, 2014) on “Micro Irrigation System for Fruits & Nurseries”, organized by Climate Change, Alternate Energy and Water Resource Institute National Agricultural Research Centre Islamabad.

12. RESEARCH/THESIS/PROJECTS

i. PERSONAL ACADEMIC

2016- “Experimental and simulation study of soil water dynamics under drip and basin irrigated mangoes”. Synopsis approved for the partial fulfilment of the requirement for the degree of **PhD (Irrigation and Drainage)**, research is completed, and thesis is under write-up.

2012- “Effect of saline water on soil properties and yield of bottle gourd using pitcher irrigation method”. Thesis submitted for the partial fulfilment of the requirement for the degree of **M. E. (Land and Water Management)**

2001- “Use of electrical appliance on agriculture farms of district Hyderabad”. Project report submitted for the partial fulfilment of the requirement for the degree of **B. E. (Agri.)**.

ii. PROJECT

2014- “Evaluation of traditional and micro irrigation methods for better fruit quality and mango production.” Under HEC funded project

iii. RESEARCH AS SUPERVISOR FOR B.E.

S#	Degree	Name of student	Title of Thesis/Research	Year	Supervisor
12	B. E	Group of students	Design construction and data collection of soil and water conservation simulator	2021	Supervisor
11	B. E	Group of students	To determine the soil erosion of different soils using universal soil loss equation	2021	Supervisor
10	B. E	Group of students	Effect of different irrigation methods on the growth and yield of vegetables to enhance kitchen gardening	2021	Supervisor
9	B. E	Group of students	To determine the yield and water productivity of vegetables cultivated under kitchen gardening	2021	Supervisor
8	B. E	Group of students	Response of Onion Crop irrigated by Different Shapes of Pitchers in Arid area	2020	Supervisor
7	B. E	Group of students	Design and cost estimation of parabolic watercourse	2019	Supervisor
6	B. E	Group of students	Effect of marginal saline irrigation water on the yield of chickpeas under	2017	Supervisor

			sprinkler and conventional irrigation method		
5	B. E	Group of students	Comparative study for determination of moisture content of soils along with temperature by gravimetric method and self-developed smart design computer model	2017	Supervisor
4	B. E	Group of students	Assessment of different lined water courses at farm level for improving the growth and yield of different crops and water saving in district Thatta	2016	Supervisor
3	B. E	Group of Students	Determination of the water saving and crop water productivity using Basin and sprinkler irrigation method for growing chickpeas	2016	Supervisor
2	B. E	Group of Students	Assessment of clay pipe irrigation performance over flood and furrow irrigation methods for Okra crop	2016	Supervisor
1	B. E.	Group of Students	Performance evaluation of Mini-Harvester for Harvesting of different crops	2015	Supervisor

iv. PRODUCED M.E. STUDENTS AS MAIN SUPERVISOR

Completed

S#	Degree	Name of student	Title of Thesis/Research	Year	Supervisor
13	M.E	Shahzad Zahoor 2K17-AE-85	Effect of biochar, biosolid compost and leaching water on the reclamation of saline sodic soil.	2021	Supervisor
12	M.E	Shoaib Ahmed 2K17-WM-79	Management of saline water use for okra crop under furrow irrigation method	2020	Supervisor
11	M.E	Komal Qasim 2K17-WM-76	Effect of saline and non-saline water on Okra crop Production	2020	Supervisor
10	M.E	Kamran Aziz Bhayo 2K15-WM-48	Effect of different irrigation intervals on water saving, crop water productivity and yield of cluster bean crop under raised bed and conventional furrow irrigation method	2020	Supervisor
9	M.E	Aamir Mukhtiar 2K15-WM-44	Irrigation water management at farm level affecting farmers' life and agriculture products at some selected water courses of Lateef minor District Hyderabad Sindh Pakistan	2020	Supervisor
8	M.E	Abdul Saleem 2K16-WM-56	Performance evaluation of cylindrical pitchers made with different soil textures.	2019	Supervisor
7	M.E	Jazib Jakhrani 2K16-WM-63	Assessment of water holding capacity and fertility of different soils using different organic amendments	2019	Supervisor
6	M.E	Imran Shah 2K15-WM-48	To determine the effect of saline sodic soil amended by different levels and gypsum, on spinach production under pot irrigation method	2019	Supervisor
5	M.E	Naeem Abbas 2K15-WM-53	Performance evaluation of porous capsul and drip irrigation method over raised bed furrow irrigation method for growing Bitter Gourd	2017	Supervisor
4	M.E	Nowsherwan 2K14-WM-35	Assessment of negative effects on soil chemical properties using chemical fertilizers	2017	Supervisor
3	M.E	Yavar Nasir 2K13-WM-58	Effect of gypsum and leaching water on the reclamation of saline sodic soil	2018	Supervisor
2	M.E	Umair Lakhair 2K13-WM-57	Effect of salinity stress on growth and yield of Soybean under furrow irrigation method	2019	Supervisor
1	M.E	Aman Gul 2K14-WM-30	Effect of different organic amendment on Physico-chemical properties of saline sodic soil	2017	Supervisor

v. **STUDENTS UNDER SUPERVISION AS MAIN SUPERVISOR FOR M.E**

Under Process

S#	Degree	Name of student	Title of Thesis/Research	Year	Supervisor/ Co-supervisor
6	M.E	Aamir Lund 2K20-WM-001	Assessment of soil nutrients and soil moisture storage capacity with organic amendments in salt affected are of Kaccho (District Dadu)	2021	Supervisor
5	M.E	Gulsher Ali 2K19-WM-54	Assessment of soil and groundwater suitability for crops in Rural Hyderabad	2021	Supervisor
4	M.E	Sarfraz Nawaz 2K19-WM-57	Efficacy of different watercourse lining in Hyderabad Region, Sindh	2021	Supervisor
3	M.E	Sana Iftakhar 2K19-WM-56	Simulation of climatic change for Agricultural requirements in district Hyderabad	2021	Supervisor
2	M.E	Mir Murtaza 2K17-WM-77	Evaluation of different infiltration models for saline and non-saline soils	2020	Supervisor
1	M.E	Hub Ali Wagan 2K17-WM-73	Evaluation of efficient bed size and irrigation interval for growing balsam pear	2020	Supervisor

v. RESEARCH AS CO-SUPERVISOR FOR M.E

Sr #	Degree	Name of Student Registration No	Title of Research and Thesis	Year	Position
23	M.E	Shakeel Ahmed 2K20-WM-13	Effect of different irrigation water regimes on water productivity of Wheat crop.	2021	Co-Supervisor
22	M.E	Muhsin Baloch 2K18-ID-22	Comparison of furrow and basin (conventional) irrigation methods in terms of growth, yield and water productivity of Onion crop	2021	Co-Supervisor
21	M.E	Zain ul Abidin 2K17-WM-89	Assessment of Farm water use efficiency at Kot Ghullam Muhammad Minor in the command area of Nara Canal	2021	Co-Supervisor
20	M.E	Miss Mehak Bhatti 2K19-ID-28	To evaluate the effect of different types of furrows, Mulching and Irrigation Intervals on plant level water use efficiency of Tomato Crop	2021	Co-Supervisor
19	M.E	Mir Ali Hyder 2K19-ID-62	Effect of different soil types and ground water level on crop water requirement of Maiz crop in the lacy meter	2021	Co-Supervisor
18	M.E	Aftab Ahmed Rahu 2K19-ID-63	Integrating Effect of water stress and plastic film mulch on plant growth and water use efficiency of maiz crop under conventional and alternate furrow irrigation	2020	Co-Supervisor
17	M.E	Faiza Ahmed 2K19-WM-53	Calibration and Evaluation of Empirical Models for Evapo-transpiration under climatic conditions of Tandojam, Sindh.	2020	Co-Supervisor
16	M.E	Adnan Vighio 2K17-WM-69	A technical and economic analysis of Cotton crop cultivated on raised beds and conventional irrigation methods	2020	Co-Supervisor
15	M.E	Munsif Ali Langah 2K16-EN-81	Effect of municipal solid waste dumping on soil and ground water quality in the vicinity of Hyderabad city.	2019	Co-Supervisor
14	M.E	Asif Ali Tagar 2K16-WM-60	Effect of plastic mulching on crop water productivity and yield of Ridge gourd	2019	Co-Suoervisor
13	M.E	Adnan Vighio 2K17-WM-69	Cotton cultivation on raised bed in compression of conventional (Ridge and Flat saving) methods-A technical and economic analysis	2019	Co-Supervisor
12	ME	Abdul Ghaffar Rahimo	Assessment of ground water quality and its impact on human health in Shikarpur	2019	Co-Supervisor
11	M.E	Sher Zaman Dahri 2K17-ENE-	Effect of sugar industrial waste water on ecosystem in Sanghar district of Sindh	2019	Co-Supervisor
10	M.E	Amail Hamza Soomro 2K17-ENE-03	Assessment of ground water quality and its impact on human health in Shikarpur city of Sindh Pakistan	2019	Co-Supervisor

9	M.E	Ghous Bakhsh 2K16-ENE-03	Use of municipal waste water and its effects on the growth and quality of cucumber	2018	Co-Supervisor
8	M.E	Akhtiar Ahmed Bullo	Effect of different size of raised bed and irrigation intervals on the growth and yield of Indian Squash vegetable	2017	Co-Supervisor
7	M.E	Khushal Das 2K15-WM-51	Simulating the moment of cations and anions in vadose zone at different soil depths through physical model	2017	Co-Supervisor
6	M.E	Yar Muhammad	Comparison of conventional furrow and alternate furrow irrigation method on water saving and yield of Onion	2017	Co-Supervisor
5	M.E	Abdul Latif Noohpoto 2K14-WM-29	Water Saving and Yield assessment of Wheat crop under different irrigation methods	2017	Co-Supervisor
4	M.E	Azhar Ali Laghari 2K10-WM-355	Effect of different shapes of pitchers on soil water distribution, plant yield and crop water productivity	2017	Co-Supervisor
3	M.E	Kashif Ali Abro 2K13-WM-49	Effect of conjunctive use of Waste Water and ground water on cluster bean crop and soil properties	2016	Co-Supervisor
2	M.E	Muhammad Ahmed Madani 2K11-WM-183	Assessment of soil and tube well water quality for crop production in vicinity of Union Council Tando Qaiser, Hyderabad	2015	Co-Supervisor
1	M.E	Sallahudeen Tunio	To investigate the effect of different types of mulching material on the performance of plant growth	2015	Co-Supervisor

13. OTHER SCIENTIFIC AND TECHNICAL RESPONSIBILITIES

Technical assessment of Synopsis' of the M.E. students

S#	Degree	Name of student	Title of Thesis/Research	Year
12	M.E	Muhammad Yaqoob 2K14-WM-32	Evaluation of different irrigation methods on water saving, growth and yield of Cotton crop under semi-arid climate	2016
11	M.E	Ahmed Nawaz 2K14-ID-15	Effect of irrigation frequency on growth and water productivity of fodder maize	2016
10	M.E	Muzaffar H. Tunio 2K15-ID-73	Estimating Seepage losses of different types of unlined water courses at form level	2017
9	M.E	Faisal Khan 2K13-WM-44	Investigating relationship between water quality and soil physio-chemical characteristics	2017
8	M.E	Assadullah 2K14-ID-17	Effect of various irrigation regimes in shallow ground water table on wheat crop (A case study at District Sukkur)	2017
7	M.E	Mudasar Ahmed Qazi 2K15-ENE-65	Impact of sea intrusion on ground water in coastal area of district Thatta	2017
6	M.E	Asif Ali 2K16-WM-61	Estimation of Crop Area and Water Requirement of Wheat Crop in Distt: Tando Muhammad Khan using Satellite Data	2018
5	M.E	Mudasir Ahmed Qazi 2K15-ENE-05	Assessment of ground water and soil quality as influenced by sea water intrusion in selected coastal areas of district Thatta	2018
4	M.E	Muzaffar H. Tunio 2K15-ID-73	Effect of polymer mulching on morphological parameters and productivity of Okra crop under different draught stresses	2018
3	M.E	Shazad Hussain Dahri	Simulating design variables for furrow irrigation for maximizing irrigation efficiencies	2018
2	M.E	Shahnawaz Laghari 2K16-ENE-11	Assessment of biochar addition in sandy desert soil in conjunction with Acacia gum for improving soil properties	2018
1	M.E	Mohsan Ali Babar 2K16-ENE-05	Study of the waste water management and its impacts on the Left Bank Outfall Drain (LBOD) in District Nawabshah	2018

14. REFERENCES

Prof. Dr. Muhammad Saffar Mirjat

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