

# CURRICULUM VITAE

## ENGR. RAJESH KUMAR SOOTHAR

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### Address

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Permanent Address: Village Kakrario Taluka Mithi, Tharparkar, Sindh, Pakistan.

### Career objectives

To associate my efficiencies with this organization so that I can improve my skills, expertise and utilize my potential and best for achieving for excellence.

### Highlights

- 1 Can perform in challenging environment
- 2 Having an ability of leadership
- 3 Effective communication skills

### Present Position

Lecturer and Ph.D student in the Department of Irrigation & Drainage, Faculty of Agricultural Engineering, Sindh Agriculture University, Tandojam, Sindh Pakistan.

### Qualifications

<i>Qualifications</i>	<i>Year</i>	<i>Grade</i>	<i>Board / University</i>
M.E (Irrigation & Drainage)	2014	86.9%	Sindh Agriculture University, Tandojam
B.E (Agricultural)	2011	CGPA (3.60)	Sindh Agriculture University, Tandojam.
H.S.C (Pre Engineering)	2006	“B”	B.I.S.E, Hyderabad.
S.S.C (Science)	2004	“A”	B.I.S.E, Hyderabad.

### Employment Record (Professional Experience)

**05 May 2014 – to present** Lecturer, Department of Irrigation & Drainage, FAE, SAU, Tandojam.

**24 June 2013 – 05 May 2014** Teach/ take pertinent class(s) of Mathematics in the Department of Basic Engineering, FAE, SAU, Tandojam.

**May 2012 – Oct. 2015** Research Assistant under the HEC funded project in entitled **“EVALUATION OF TRADITIONAL AND MICRO IRRIGATION METHODS FOR BETTER FRUIT QUALITY AND MANGO PRODUCTION”** in Sindh Agriculture University Tandojam.

**Additional Professional Assignment**

**24 March 2014** Appointment as **Internal Examiner** in Sindh Agriculture University Tandojam for the conduct supplementary theory examination of the second (Prof) DVM.

**22 March 2014** Appointment as **Internal Examiner** in Sindh Agriculture University Tandojam for the conduct supplementary theory examination of the B. Sc (Part-1).

**06 Nov 2012 – to date** Examination **invigilation** duties of various classes of B.E (Agri) in Faculty of Agricultural Engineering, Sindh Agriculture University, Tandojam, Sindh Pakistan.

**05 Nov 2013** Appointment as **Internal Examiner** in Sindh Agriculture University Tandojam for the conduct regular theory examination of the second (Prof) DVM.

**07 Nov 2013** Appointment as **Internal Examiner** in Sindh Agriculture University Tandojam for the conduct regular theory examination of the B. Sc (Part-1).

**Membership in Honorary Academic/ Professional Societies.**

- Life time Membership of Pakistan Engineering Council (**Reg. No: AGRI/3440**).
- Member departmental Board of Studies, Department of Irrigation and Drainage, since June 2014.
- Member of Purchasing Committee, under HEC funded project, Sindh Agriculture University, Tandojam.
- Member of Farmer’s Desk Services, Department of Irrigation and Drainage, FAE, SAU, Tandojam, since August 2014.

**Teaching Experience (SUBJECTS TAUGHT TO UNDERGRADUATE)**

1. Functional Mathematics-1 (Subject Code: Math-301) in Faculty of Crop production, SAU Tandojam.
2. Mathematics (Subject Code: Math-201) in Faculty of animal Husbandry and Veterinary Science, SAU Tandojam.
3. Soil Mechanics (Subject Code: ID-411)
4. Pumps and Tube wells (Subject Code: ID-506)
5. Drainage Engineering (Subject Code: ID-604)
6. Irrigation Engineering (Subject Code: ID-605)
7. Engineering Hydrology (Subject Code: ID-307)

**Academic Research Project Experience**

1. Six months research experience in Bachelor of Engineering (Agri.) in project entitled **“EFFECT OF TRADITIONAL AND SCIENTIFIC WATER APPLICATION PRACTICES ON WATER SAVING AND YIELD OF WHEAT CROP”** in Department of Land & Water Management, FAE, SAU, Tandojam. 2011.
2. Six months research experience in Bachelor of Engineering (Agri.) in project entitled **“SURVEYING & LEVELING, DESIGNING AND COST ESTIMATION OF WATERCOURSE”** in Department of Land & Water Management, FAE, SAU, Tandojam. 2011.
3. Research experience for Master of Engineering (Agri) in project entitled **“EVALUATION THE PERFORMANCES OF BUBBLER AND BASIN IRRIGATION METHODS ON MANGO PLANT GROWTH”** in Department of Irrigation and Drainage, FAE, SAU, Tandojam. 2014.

**Participation in National Training/ Workshop/ Seminar**

1. Training workshop on **“DESIGN OF PRESSURIZED IRRIGATION SYSTEM”** by Wali Muhammad Daudpota, Irrigation Engineer, AECOM, ME, Al Ain, UAE organized by Department of Land and Water Management, FAE, SAU, Tandojam.

2. Research Experience in “**COMPACTING DROUGH AND DESERTIFICATION BY MANGING WATER RESOURCES IN THAR DESERT AT MITHI**” by Rajab Ali Samoo, Assistant Director, Drainage Research Institute of Pakistan (DRIP), Tandojam
3. Two days professional training on “**RIDGE AND BED PLANTING**” organized by Drainage and Reclamation Institute of Pakistan, Tandojam.
4. Key Stakeholder workshop on “**BEST IRRIGATION PRACTICES AND TECHNOLOGIES**” organized by Institute of Water Resources Engineering and Management, MUET, Jamshoro.
5. Training workshop on “**MICRO IRRIGATION SYSTEMS FOR FRUITS AND NURSERIES**” organized by Climate Change, Alternate Energy and Water Resource Institute National Agricultural Research Centre, Islamabad.
6. Training workshop on “**BEST IRRIGATION PRACTICES AND TECHNOLOGIES**” organized by Institute of Water Resources Engineering and Management, MUET, Jamshoro.
7. Training workshop on “**WATER CONSERVATION and EFFICIENT IRRIGATION WATER MANAGEMENT TECHNIQUES**” organized by Institute of Water Resources Engineering and Management, MUET, Jamshoro.
8. **B.E in Agricultural Engineering (2007 - 2011)**  
**Key Subjects:** Irrigation Conveyance & Distribution, Farm Structures, Land Development Machinery, Water Quality, Irrigation Engineering, Pumps & Tube Wells, Agri. Processing Engineering, Post Harvest Technology, Water Resource Technology, Environmental Engineering, Saline Sodic & Waterlogged Soils, Rural Sociology, Advance Calculus, Farm Irrigation System.

#### Assignment activities experience

1. Design a Model of “**CANAL REGULATION STRUCTURE**” as subject assignment, submitted to Department of Irrigation & Drainage, FAE, SAU, Tandojam.

#### Research work Published in National Journals

1. **Soothar, R. K.,** M. S. Mirjat, M. A. Mangrio, N. Leghari and A. S. Chandio. 2015. ESTIMATING SEEPAGE LOSSES IN DIFFERENT SIZE OF EARTHEN WATERCOURSES AT FARM LEVEL. Pak. J. Agri., Agril. Engg., Vet. Sci., 27(1): 81-92.
2. Mirjat, M. S., A. S. Chandio, **R. K. Soothar,** M. U. Mirjat and S. A. Soomro. 2015. TRADITIONAL AND MICRO IRRIGATION METHODS FOR BETTER MANGO PRODUCTION. Booklet published in Sindhi and English.
3. **Soothar, R. K.,** A. S. Chandio, M. S. Mirjat, M. A. Mangrio, M. U. Mirjat and M. A. Talpur. 2015. COMPARISON OF BUBBLER AND BASIN IRRIGATION METHODS IN A BIVARIETAL *Mangifera indica* ORCHARD IN PAKISTAN. Sci. Int. (Lahore), 27(2): 1229-1236.
4. Mangrio, M. A., A. K. Lohano, N, Leghari, K. L. Khatri, M. Hyder, M. J. Shaikh and **R. K. Soothar.** 2015. ECONOMIC FEASIBILITY OF WATERCOURSES LINING IN SINDH PAKISTAN. Sci. Int. (Lahore), 27(2): 1237-1242.
5. Solangi, M., A. M. Solangi, **R. K. Soothar,** M. A. Mangrio, M. A. Talpur and A. W. Gandahi. (Submitted). PLANT NUTRIENT CONTENT OF OKRA AS AFFECTED BY DIFFERENT LEVELS OF SOIL APPLIED NUTRIENTS. Sci. Int. (Lahore), 27(5): 4385-4391.
6. Mangrio, M. A., R. A. Buriro, I. A. Shaikh, N. Leghari, M. A. Issani, M. A. Talpur and **R. K. Soothar.** 2015. EVALUATION OF RECHARGE BEHAVIOUR THROUGH DIFFERENT WATER BALANCE APPROACHES IN CANAL COMMAND. Sci. Int. (Lahore), 27(1): 359-364.

7. Solangi, M., A. A. Tagar, A. M. Solangi, A. G. Siyal, **R. K. Soothar** and A. R. Shah. (Submitted). NUTRIENT UPTAKE OF SOME OKRA VARIETIES AS INFLUENCED BY DIFFERENT LEVELS OF APPLIED N, P AND K. *Sci. Int. (Lahore)*, 27(5): 4327-4331.
8. S. A. Memon, **R. K. Soothar**, M. A. Mangrio, R. H. Saraz, M. Leghari and A. R. Shah. 2015. COMPARISON OF OBSERVED WITH THEORETICAL ROUGHNESS CO- EFFICIENT UNDER LINED AND UNLINED WATERCOURSES. *Sci. Int. (Lahore)*, 27(6): 6053-6056.
9. Tagar, A. A., A. Soomro, S. Masi, S. Memon and **R. K. Soothar**. COMPARATIVE STUDY OF TRADITIONAL AND SCIENTIFIC WATER APPLICATION PRCTETICS FOR WHEAT CROP. *Pak. J. Agri., Agril. Engg.*, Accepted.
10. Solangi, M., V. Suthar, B. Wagan, A. G. Siyal, A. Sarki and **R. K. Soothar**. EVALUATE THE EFFECT OF NITROGEN AND PHOSPHORUS FERTILIZER DOSES ON GROWTH AND YIELD OF SPINACH. *Sci. Int. (Lahore)*, 28(1): 379-383.
11. Solangi, M., Q. Jogi, A. R. Shah, V. Suthar, B. Wagan and **R. K. Soothar**. RESPONSE OF POTATO (*SOLANUM TUBEROSUM* L.) IN TERMS OF GROWTH AND TUBER YIELD TO VARYING NPK DOSES. *Sci. Int. (Lahore)*, 28(1): 385-389.
12. Kori, S. M., **R. K. Soothar**, C. Soothar and S. H. Ashrafani. IMPACT EVALUATES OF DIFFERENT IRRIGATION METHODS ON WATER USE EFFICIENCY IN SEMI ARID CLIMATE REGION. *Pak. J. Agri., Agril. Engg.*, paper submitted.

#### **Research Project Submitted to Sindh Higher Education Commission**

1. M. S. Mirjat and **R. K. Soothar**. 2015. ADAPTATION OF MICRO AND CONVENTIONAL IRRIGATION METHODS FOR OPTIMUM GRAIN AND FODDER MAIZE PRODUCTION.

#### **Supervisor/ Co-Supervisor on Various Degree Programs**

##### ***Masters program***

1. Co-Supervised M.E (Agri.) student. (Ongoing). The title of his research study was "TO INVESTIGATE THE EFFECT OF DIFFERENT TYPES OF MULCHING MATERIAL ON THE PERFORMANCE OF PLANT GROWTH".
2. Co-Supervised M.E (MUET) student. (Ongoing). The title of his research study was "PERFORMANCE EVALUATION OF VARIOUS IRRIGATION METHODS OF MAIZE CROP".
3. Co-Supervised M.E (Agri.) student. (Ongoing). The title of his research study was "DETERMINATION OF CONSUMPTIVE USE OF WATER BY USING CANAL AND GROUND WATER FOR OKRA (*ABELMOSCHUS ESCULENTUS*) UNDER LYSIMETER".
4. Co-Supervised M.E (Agri.) student. (Ongoing). The title of his research study was "ASSESSMENT OF IRRIGATION DEMAND FOR SECONDARY CANAL COMMAND: A CASE STUDY OF SHAH LATIF MINOR".

##### **Bachelors program (Research Project)**

1. Supervised B.E (Agri.) student. PERFORMANCE EVALUATION OF DIFFERENT IRRIGATION METHODS ON WATER USE EFFICIENCY IN SEMI ARID CLIMATE. 2015.
2. Supervised B.E (Agri.) student. IMPACT OF ASH (WOODEN) APPLICATION ON THE SOIL PROPERTIES AND SEED EMERGES OF WHEAT UNDER DESERT SOIL CONDITION (On-going).
3. Supervised B.E (Agri.) student. ASSESSMENT THE CHARACTERISTICS OF AN AQUIFER FROM PUMPING TEST BY DIFFERENT METHODS (On-going).
4. Supervised B.E (Agri.) student. REHABILITATION OF KB FEEDER FOR FUTURE DEMAND (On-going).

### **Bachelors program (Internship)**

1. Supervised B.E (Agri.) student. SURVEY, DESIGN AND IMPROVEMENT OF WATERCOURSE. 2015.

### **Skills**

- 1 Strategic thinker
- 2 Professional Image
- 3 Strong analytical and problem-solving skills

### **Scholarships / awards**

- 13<sup>th</sup> April 2009 Award of Quaid-E-Azam Aligarh Scholarship  
17<sup>th</sup> April 2010 Award of Quaid-E-Azam Aligarh Scholarship

### **Personal profile**

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|--------------------------|----------------|---|-----------------|
| <input type="checkbox"/> | Father's Name  | : | Jethanand       |
| <input type="checkbox"/> | Surname        | : | Soothar         |
| <input type="checkbox"/> | Date of Birth  | : | 27/10/1988      |
| <input type="checkbox"/> | C.N.I.C        | : | 41303-2068636-7 |
| <input type="checkbox"/> | Domicile       | : | Tharparkar      |
| <input type="checkbox"/> | Marital Status | : | Marriage        |
| <input type="checkbox"/> | Nationality    | : | Pakistani       |
| <input type="checkbox"/> | Religion       | : | Hindu           |

### **Knowledge of Languages**

English, Urdu, Sindhi, Hindi and Local languages

### **References / Recommendations**

#### **Prof. Dr. Muhammad Saffar Mirjat**

Dean,  
Faculty of Agricultural Engineering,  
S.A.U. Tandojam.  
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#### **Dr. Abdul Ghafoor Siyal,**

Associate Professor,  
Department of Land and Water Management,  
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#### **Dr. Muneer Ahmed Mangrio**

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