

## BRIEF BIODATA OF Dr. R. S. Pandey



1. Name: Dr.R.S.Pandey  
2. Date of birth: 28-12-1953  
3. Present Position and (postal, phone & email) address:  
Dr.R.S.Pandey  
Principal Scientist  
Central Soil Salinity Research Institute  
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### 4. Academic record (Bachelor's degree onward)

Degree	University/ Institution	Year	Distinction, if any
B.Sc. Ag. Engineering	Allahabad university, Allahabad, U.P., India	1975	
M.Tech. Soil and Water Engineering	Punjab Agricultural university, Ludhiana, Punjab, India	1978	
Ph.D. Agricultural Engineering	Indian Agricultural Research Institute, New Delhi, India	1989	

### 5. Research Experience:

(a) Total (yrs): 31Years

(b) Year wise breakup with position

Scientist S1                    1977—1983  
Scientist S2                    1983 ---1986  
Senior Scientist                1986 --- 1998  
Principal Scientist              1998---- Till now

### 6. Specialization:

#### a ) Scientific capabilities and interests (3-5 Key words)

Drip irrigation, Wastewater, Sub surface drainage, Salt movement of interacting ions, and Salt movement of non-interacting ions

#### b) Salient Accomplishments (3 to 5 in bullet form)

- Success story in the case of clogging phenomenon in the case of surface and subsurface drip irrigation

- Visualization of the future of installation of subsurface drainage in the alkali waterlogged soil having shallow water table.
- Correction of the old theory given by institute that subsurface drainage neither feasible nor possible in the waterlogged alkali soil
- Significant contribution in Ph.D. Research Work as 6 papers has been published in research and technical field i.e. two in international journal and one in Indian Journal and three technical.
- Significant contribution in M.Tech. research work as one research paper has been published in international journal

**c) International Exposure:** Visit to North Carolina University, Raleigh, North Carolina, U.S.A. for four month under **United Nation Development Programmed**, Fellowship for advanced training.

## 7. Publications

a) (i) Research (Journals)	30
(ii) Books	
(iii) Book Chapters	04
(iv) National/ International Seminar/ Symposia	20
(v) Bulletins/ Technical Reports	05
<b>Total</b>	<b>59</b>

### b) Best 5 publications of last 10 years (to be appended)

- (1) Pandey, R.S. and Dubey, S.K.,2001. Effect of velocity of percolating water on salt leaching. Indian Society of Soil Science. 49(1), pp229-231.
- (2) Pandey, R.S. and tyagi, N.K.,2003. Study of variation of drainable porosity in alkali soil. Indian Journal of Soil Conservation. 31(1). 86-89.
- (3) Pandey, R.S. and Tyagi, N.K., 2003. Subsurface drainage in waterlogged alkali soil. Journal of Institution of Engineers (Agriculture), June: 24-27.
- (4) Pandey,R.S., 2007. Drip Irrigation for Saline/Waste Water. In; Agricultural Land Drainage (Eds. S.K.Ambast, S.K.Gupta and G.B.Singh), Sponsored by CAD&WM, MoWr(GoI), Central Soil Salinity Research Institute, Karnal, pp 201-212
- (5) Pandey, R.S., 2007.Potential and limitation of Micro-irrigation( subsurface and subsurface ) for waste water use. In On farm land and water management( Eds Kaledhonker, M.J.,Gupta,S.K., Bundela, D.S. and Singh Gurubachan) .Central Soil Salinity Research Institute, Karnal, India, pp 128-134.

**c) Best 10 publication of whole career (to be appended)**

- (1) Pandey,R.S. and Bandyopadhyya,A.K. 1980. Prediction of salt movement in heavy textured cracked soils, Journal of Ag. Engg., 19: 85-89.
- (2) Pandey,R.S., Singh,S.R. and Sinha, B.K., 1982. An extrapolated Crank-Nicolson method for solving convection dispersion equation, Journal of Hydrology, 56(4): 277-285.
- (3) Pandey,R.N.,and Pandey,R.S., 1982. Estimation of effective infiltration rates in cracked soils, Journal of Agriculture Science ( Camb.), 99: 659-660.
- (4) Pandey,R.S., and Gupta, s.K.,1984. Analysis of breakthrough curve: Effect of mobile and immobile pore volume. Aust. Journal of Soil Research, 22(1): 23-30.
- (5) Pandey,R.S.,1985. Effect of cracks on infiltration behavior of soils. Journal of Indian Soc. Science. 33(1): 137-140.
- (6) Pandey,R.S., and Gupta, S.K., 1990. Drainage design equation with simultaneous evaporation from soil surface. International Commission on Irrigation and Drainage Bulletin, 39(1), 19-25.
- (7) Pandey,R.S.,Gupta,S.K. and Rama Nand,1991. Assessing steady state upward flux from shallow water table. Journal of Indian Society of Soil Science, 39(3): 415-421.
- (8) Pandey,R.S., Bhattacharya, A.K., Singh O.P. and Sarkar,T.K., 1991. Prediction of water table with variable drainable porosity. Indian Journal of Agricultural Engineering, 1(2): 127-134.
- (9) Pandey,R.S.,Bhattacharya,A.K., Singh,O.P., and Gupta,S.K., 1992. Draw down solution with variable drainable porosity. Journal of Irrigation and Drainage Engineering, 118(3): 382-396.
- (10) Pandey,R.S., Bhattacharya,A.K., Singh,O.P.,and Gupta,S.K., 1997. Water table draw down during drainage with evapo-transpiration/evaporation. Agricultural Water Management, 35: 61-63.

**8. Awards/ Special recognitions (Limit to the best five)**

- (1) Indian Council of Agricultural Research, India, **Fellowship** during B.Sc. Ag. Engineering study
- (2) Council of scientific and Industrial Research, India, **Fellowship** during M.Tech. study.
- (3) Indian Agricultural research Institute, **Fellowship** during Ph.D. study.
- (4) Institute nominated for advanced U.N.D.P. training to north Carolina university, Raleigh, north Carolina, U.S.A and it was under taken successfully.
- (5) All ways promotion on due date through out research carrier.