

## LIST OF PUBLICATIONS

7

### Research Paper

#### International

S. No.	Paper	NAAS rating
1	Ali, Shakir; and Ghosh, N.C. (2016). A methodology for estimation of wetting front length and potential recharge under variable depth of ponding. <i>J.Irrig.Drain. Eng.</i> , ASCE, 142(1): 04015027. (doi: 10.1061/(ASCE)IR.1943-4774.0000921).	6.97
2	Ali, Shakir; Ghosh, N.C.; Mishra, P. K. and Singh, R.K. (2015). A holistic water depth simulation model for small ponds. <i>Journal of Hydrology</i> , 529: 1464-1477.	9.05
3	Ali, Shakir; Islam, A.; Mishra, P. K. and Sikka, A.K. (2016). Green-ampt approximations: A comprehensive analysis. <i>J. Hydrol.</i> , 535: 340-355.	9.05
4	Ali, Shakir; Mishra, P.K.; Islam, A. and Alam, N.M. (2016). Simulation of water temperature in small pond using parametric statistical models: implications of climate warming. <i>J. Environ. Eng.</i> , ASCE, 142(3): 04015085-1-14.	7.27
5	Ali, Shakir; Singh, R.K. and Sethy, B.K. (2015). Field application of a dynamic potential groundwater recharge simulation model for small recharge ponds. <i>Applied Engineering in Agriculture, ASAE</i> , 31(2) : 267-279.	6.41
6	Bagdi, G.L.; Mishra, P.K.; Kurothe, R.S.; Arya, S.L.; Patil, S.L.; Singh, A.K.; Bihari, B.; Prakash, O.; Kumar, A. and Sundarambal, P. (2015). Post-adoption behaviour of farmers towards soil and water conservation technologies of watershed management in India. <i>International Soil and Water Conservation Research</i> , 3: 161-169.	NA
7	Bhattacharyya, T.; Chandran, P.; Ray, S.K.; Mandal, C.; Tiwary, P.; Pal, D.K.; Maurya, U.K.; Nimkar, A.M.; Kuchankar, H.; Sheikh, S.; Telpande, B.A. and Kolhe, Ashwini (2015). Walkley-black recovery factor to reassess soil organic matter: Indo-Gangetic plains and black soil region of India case studies. <i>Communications in Soil Science and Plant Analysis</i> , 46(20): 2628-2648 (DOI:10.1080/00103624.2015.1089265).	6.39
8	Biswas, H.; A. Raizada; D. Mandal; S. Kumar; S. Srinivas and P.K. Mishra (2015). Identification of areas vulnerable to soil erosion risk in India using GIS methods. <i>Solid Earth</i> , 6: 1247-1257.	8.27
9	Dash, Ch. Jyotiprava; A. Sarangi; D. K. Singh; A. K. Singh and P.P. Adhikary (2015). Prediction of root zone water and nitrogen balance in an irrigated rice field using a simulation model. <i>Paddy and Water Environment</i> , 13(3): 281-293.	7.15
10	Dash, J.; Sarangi, A.; Adhikary, P.P. and Singh, D.K. (2015). Simulation of nitrate leaching under maize-wheat cropping system in a semi-arid irrigated area of Indo-Gangetic plain, India. <i>Journal of Irrigation and Drainage Engineering (ASCE)</i> . DOI: 10.1061/(ASCE)IR.1943-4774.0000965.	6.97
11	Ghosh, B.N.; Dogra, Pradeep; Sharma, N.K.; Bhattacharyya, Ranjan; Mishra, P.K. (2015). Conservation agriculture impact for soil conservation in maize-wheat cropping system in the Indian sub-Himalayas. <i>International Soil and Water Conservation Research</i> , 3(2): 112-118. DOI: 10.1016/j.iswcr.2015.05.0012015.	-
12	Jana, C.; Alam, N.M.; Shrimali, S.S.; Kumar, Gopal; Ghosh, B.N. and Mishra, P.K. (2015). Rainfall extremity in Doon valley of Uttarakhand - Reorienting agricultural management. <i>Int. J. Agricult. Stat. Sci.</i> , 11(2) : 425-431.	4.00

13	Khan, Khushboo; Pankaj, Umesh; Verma, Sanjeet K.; Gupta, Anand K.; Singh, Raksh Pal and Verma, Rajesh Kumar (2015). Bio-inoculants and vermicompost influence on yield, quality of <i>Andrographis paniculata</i> , and soil properties. <i>Industrial Crops and Products</i> 70 : 404-409.	8.84
14	Kumar, Raj; Shamet, G.S.; Mehta, H.; Alam, N.M.; Kaushal, R.; Chaturvedi, O.P.; Sharma, N.; Khaki, B.A. and Gupta, D. (2015). Regeneration complexities of <i>Pinus gerardiana</i> in dry temperate forests of Indian Himalaya. <i>Environmental Science and Pollution Research</i> . DOI 10.1007/s11356-015-6010-5.	8.83
15	Mahanta, D.; Bhattacharyya, R.; Sahoo, D.C.; Tuti, M. D.; Gopinath, K.A.; Arunkumar, R.; Mina, B.L.; Pandey, B.M.; Bisht, J.K.; Srivastva, A.K. and Bhatt, J. C. (2015). Optimization of farmyard manure to substitute mineral fertilizer for sustainable productivity and higher carbon sequestration potential and profitability under gardenpea-french bean cropping system in the Indian Himalayas. <i>Journal of Plant Nutrition</i> , 38(11) : 1709-1733.	6.49
16	Meena, D.C.; Singh, O.P.; Singh, Rakesh and Kumari Maina (2015) Price discovery in mustard seed and mustard oil futures markets, India. <i>Int. J. Agriculture Statistics Science</i> , 11(1): 267-273.	4.00
17	Minhas, P.S.; Lal, Khajanchi; Yadav, R.K.; Dubey, S.K. and Chaturvedi, R.K. (2015). Long term impact of waste water irrigation and nutrient rates: I. Performance, sustainability and produce quality of peri urban cropping systems. <i>Agricultural Water Management</i> , 156 : 100-109.	8.29
18	Mondal, B.; Singh, A.; Sekar, I.; Sinha, M.K.; Kumar, S. and Ramajayam, D. (2015). Institutional arrangements for watershed development programmes in Bundelkhand region of Madhya Pradesh, India: an explorative study. <i>International Journal of Water Resources Development</i> , 32(2) : 219-231. DOI:10.1080/07900627.2015.106019	7.09
19	Patil, S.L.; Mishra, P.K.; Ramesha, M.N. and Math, S.K.N. (2015). Response of sunflower to rainwater conservation and nutrient management in semi-arid conditions. <i>Helia</i> , 38(63) : 229-244.	-
20	Patra, S.; Mishra, P.K.; Mandal, D.; Ojasvi, P.R.; Alam, N.M. and Jana, C. (2016). Comments on 'Modelling soil organic carbon storage with RothC in irrigated Vertisols under cotton cropping systems in the sub-tropics' (Authors: Nimai Senapati, Nilantha R. Hulugalle, Pete Smith, Brian R. Wilson, Jagadeesh B. Yeluripati, Heiko Daniel, Subhadip Ghosh and Peter Lockwood. <i>Soil &amp; Tillage Research</i> , 143 : 38-49). <i>Soil &amp; Tillage Research</i> ; 155 : 532-534.	8.62
21	Prasad, J.V.N.S.; Rao, Ch. Srinivasa; Srinivas, K.; Jyothi, Ch. Naga; Venkateswarlu, B.; Ramachandrappa, B.K.; Dhanapal, G.N.; Ravichandra, K. and Mishra, P.K. (2016). Effect of ten years of reduced tillage and recycling of organic matter on crop yields, soil organic carbon and its fractions in Alfisols of semi arid tropics of southern India. <i>Soil and Tillage Research</i> , 156 : 131-139.	8.62
22	Raja, P.; Srinivas, C. V.; Hari Prasad, K.B.R.R. and Singh, Nilendu (2016). Land surface processes simulation over thar desert in northwest India. <i>Pure and Applied Geophysics</i> . Springer International Publishing. 173(1) : 1-20. DOI 10.1007/s00024 - 016-1246-7.	-
23	Rao, B.K.; Mishra, P.K.; Kurothe, R.S.; Pande, V.C.; Kumar, Gopal (2015). Effectiveness of <i>Dichanthium annulatum</i> in Watercourses for Reducing Sediment Delivery from Agricultural Watersheds. <i>Clean - Soil, Air, Water</i> , 43(5) : 710-716.	7.95

24	Sandeep, S. ; Manjaiah, K.M. ; Pal, Sharmistha and Singh, A.K. (2016). Soil carbon fractions under maize -wheat system: effect of tillage and nutrient management <i>Environmental Monitoring and Assessment</i> , 188(1): 1-14.	7.68
25	Sharma, Biplob; Sumit Chakravarty, Pankaj Panwar and Sharmistha Pal (2016). Growth and nutrient uptake of <i>Jatropha curcas</i> L. under nutrient supply, pruning levels and planting geometry. <i>Agrochimica</i> , 59(4): 335-347.	6.21
26	Singh, Dharmendra; Singh, Chandan Kumar; Tomar, Ram Sewak Singh; Taunk Jyoti; Singh Ranjeet; Maurya, Sadhana; Chaturvedi, Ashish Kumar; Pal, Madan; Singh, Rajendra; Dubey, Sarawan Kumar (2016). Molecular assortment of lens species with different adaptations to drought conditions using SSR markers. <i>PLOS One</i> , 11(1). DOI: 10.1371/ journal.pone.0147213.	9.23
27	Singh, R.J. ; Meena, R.L. ; Sharma, N.K. ; Kumar, S. ; Kumar, K. and Kumar, D. (2016). Economics, energy and environmental assessment of diversified crop rotations in sub-Himalayas of India. <i>Environmental Monitoring and Assessment</i> , 188 : 79-91. DOI:10.1007/s/10601-015-5085-2.	7.68
28	Singh, Raman Jeet and Ahlawat, I.P.S. (2015). Energy budgeting and carbon footprint of transgenic cotton -wheat production system through peanut intercropping and FYM addition. <i>Environmental Monitoring and Assessment</i> , 187(5): 1 -16. DOI: 10.1007/s 10661-015-4516-4.	7.68
29	Singh, Raman Jeet ; Pande, Kamal Kumar ; Sachan, Vijay Kumar ; Singh, Naval Kishore ; Sahu, Ram Prakash and Singh, Medni Pratap (2015): Productivity, profitability and energy consumption of potato based intercropping systems. <i>International Journal of Vegetable Science</i> . DOI: 10.1080/19315260.2014.1003632.	-
30	Singh, Raman Jeet ; Ahlawat, I.P.S. and Sharma, N.K. (2015). Resource use efficiency of transgenic cotton and peanut intercropping system using modified fertilization technique. <i>International Journal of Plant Production</i> , 9(4) : 523-540.	6.77
31	Singh, Raman Jeet ; Ghosh, B.N. ; Sharma, N.K. ; Patra, Sridhar ; Dadhwal, K.S. and Mishra, P.K. (2016). Energy budgeting and energy synthesis of rainfed maize -wheat rotation system with different soil amendment applications. <i>Ecological Indicators</i> (Elsevier), 61(2) : 753-765. DOI:10.1016/j.ecolind.2015.10.026.	9.44
32	Yangchan, J.; Jain, A.K. and Tiwari, A.K. (2015). Morphometric analysis of drainage basin through GIS: A case study of Sukhnalake watershed in lower Shivalik India. <i>International Journal of Scientific &amp; Engineering Research</i> , 6(2) : 1015-1023.	-
33	Yangchan, J. ; Jain, A.K. and Tiwari, A.K. (2014). Spatial Changing pattern in Land use/land cover using GIS: S case study of Sukhna choe watershed, India. <i>International Journal of Scientific &amp; Engineering Research</i> , 5(10): 1395-1400.	-
34	Yousuf, Abrar ; Bhardwaj, Anil; Tiwari, A.K. and Bhatt, V.K. (2015). Modelling runoff and sediment yield from a small forest watershed in shivalik foot -hills using WEPP model. <i>International Journal of Agricultural Science and Research</i> , 5(6) : 67-78.	-

#### National

S. No.	Paper	NAAS rating
1	Adhikari, R.N.; Singh, A.K.; Math, S.K.N.; Sharma K.K. and Reddy, K.K. (2015). Study on the effect of ground water recharge through water harvesting structures in semi -arid red soil region of south India. <i>Indian Journal of Soil Conservation</i> , 43(3): 266-270.	4.90
2	Adhikary, P.P.; H. Chandrasekharan; Ch. Jyotiprava Dash and Gopal Kumar (2015). Hydrogeochemical investigation of groundwater quality in West Delhi, India. <i>Indian Journal of Soil Conservation</i> , 43(1): 15-23.	4.90

3	Adhikary, P.P.; M. Madhu; Ch. Jyotiprava Dash; D.C. Sahoo; Praveen Jakhar; B.S. Naik; H.C. Hombe Gowda; G.B. Naik and Benukantha Dash (2015). Prioritization of traditional tribal field crops based on RWUE in Koraput district of Odisha. <i>Indian Journal of Traditional Knowledge</i> , 16(1): 88-95.	6.41
4	Ahmad, Akram; Tomar, J.M.S.; Mehta, Harsh; Alam, N.M. and Chaturvedi, O.P. (2015). Influence of canopy architecture on stemflow in agroforestry trees in Western Himalayas. <i>Current Science</i> , 109(4) : 59-764.	6.93
5	Alam, N.M.; G.C. Sharma; C. Jana; S. Patra; N.K. Sharma; A. Raizada; P.P. Adhikary and P.K. Mishra (2015). Probabilistic drought analysis of weekly rainfall data using Markov chain model. <i>Journal of Reliability and Statistical Studies</i> , 8(1) : 105-114.	-
6	Alam, N.M.; Jana, C.; Panwar, P.; Kumar, G.; Mishra, P.K.; Sharma, N.K. and Tiwari, A.K. (2015). Weekly rainfall analysis for crop planning in rainfed Shivalik Himalayas of India. <i>Journal of Agrometeorology</i> , 17(2) : 234-240.	6.15
7	Ali, Shakir (2016). Estimation of time variant water availability and irrigation potential of small ponds in a semi -arid region of Rajasthan, India. <i>Journal of The Institution of Engineers (India): Series A</i> , 97(1): 43-51.	-
8	Behera, M.S.; Mahapatra, P.K.; Singandhupe, R.B.; Kundu, D.K and Kannan. K (2015). Effect of drip fertigation on soil moisture use dynamics, nutrient uptake and productivity of Ashwagandha ( <i>Withaniasomnifera</i> L.). <i>Journal of Soil and Water Conservation</i> , 14(1) (Jan-March) : 41-48.	3.68
9	Bhandari, M.S.; Kaushal, R.; Banik, R.L. and Tewari, S. (2015). Genetic Evaluation of Nutritional and fodder quality of different bamboo species. <i>The Indian Forester</i> , 141(3) : 265-274.	4.27
10	Bhandari, M.S.; Kaushal, R.; Banik, R.L. and Tewari, S.K. (2015). Evaluation of genetic diversity in bamboo species through SDS -Page protein analysis. <i>The Indian Forester</i> , 141(8) : 826-831.	4.27
11	Bhatnagar, P.R. (2015). Rainwater harvesting through plastic lined ponds and its efficient utilization strategies. <i>Indian Journal of Soil Conservation</i> , 43(2) : 125-130.	4.90
12	Bhattacharyya, Ranjan; Ghosh, B.N.; Mishra, P.K.; Mandal, Biswapati; Rao, Ch. S.; Sarkar, D.; Das, K.; Anil, K.S.; Lalitha, M.; Hati, K.M. and Franzluebbbers, A.J. (2015). Soil degradation in India: Challenges and potential. <i>Sustainability</i> , 7(4) : 3528-3570.	-
13	Chand, Subhash; Singh, D.V.; Madhu, M. and Sikka, A.K. (2015). Medicinal and aromatic plants for soil and water conservation in Nilgiris, Tamil Nadu, India: An economic analysis. <i>Molecular Soil Biology</i> , 6(1) : 1-6.	-
14	Chandra, S.S.; Raj, K.; Raheel, A.; Bhardwaj, S.D. (2016). Performance of <i>Mucuna pruriens</i> under Chirpine ( <i>Pinus roxburghii</i> ) plantation of mid hills of western Himalayas. <i>Agricultural Research &amp; Technology : Open Access J.</i> ; 1(2) : 555-560.	-
15	Choulwar, S.B.; Maruthi Sankar, G.R.; Pendke, M.S.; Bhuibhar, B.W.; Mishra, P.K.; Chary, G.R.; Rao, C.S. (2015). Effect of tillage and nutrient management on productivity, soil fertility and profitability of cotton + soybean rotated with soybean + pigeonpea intercropping system under semi-arid Vertisols in India. <i>Indian J. Soil Cons.</i> , 43(1) : 79-91.	4.90
16	Das, N.K.; Saha, A.K. and Adhikary, P.P. (2015). Water regimes and phosphorus on dry matter production, root porosity, transpiration and ion uptake of <i>kharif</i> rice ( <i>Oryza sativa</i> L.). <i>Indian Journal of Soil Conservation</i> , 43(2): 153-158.	4.90
17	Dass, A., Shivkumar, B.G., Dhar, S. and Kumar, Kuldeep (2015). Soil and plant based precision N management in <i>rabi</i> maize ( <i>Zea mays</i> L.) in north-Indian alluvial plains. <i>Annals of Agricultural Research</i> , 36(4): 358-363.	3.02

18	Dhaker, R.C.; Dubey, R.K.; Dhaker, S.C. and Meena, R.M. (2015). Response of sorghum [ <i>Sorghum bicolor</i> (L.) Moench] genotypes to different plant densities and nutrient application rates in southern Rajasthan. <i>Pollution Research</i> , 34(3) : 607-609.	4.75
19	Dhaker, R.C.; Dubey, R.K.; Tiwari, R.C. and Dubey, S.K. (2015). Consumptive use, water use efficiency, soil moisture use and productivity of fenugreek ( <i>Trigonella foenum-graecum</i> L.) under varying IW -CPE ratios and fertilizer levels on calcareous alkali soils of South West Rajasthan. <i>Journal of Soil Salinity &amp; Water quality</i> , 7(1): 54-57.	NA
20	Dubey, R.K.; Rathore, A.C.; Dadhwal, K.S. and Sharma, N.K. (2015). Resource conservation and performance of aonla ( <i>Emblica officinalis</i> Gaertn) under varying tree density and <i>in situ</i> live mulching in rain-fed conditions of north-west India. <i>Indian Journal of Soil Conservation</i> , 43(2): 175-181.	4.90
21	Ghosh, B.N., Meena, V.S. Alam, N.M., Dogra, Pradeep, Bhattacharyya, Ranjan, Sharma N.K. and Mishra, P.K. (2016). Impact of conservation practices on soil aggregation and the Carbon Management Index after seven years of maize -wheat cropping system in the Indian Himalayas. <i>Agriculture, Ecosystem and Environment</i> , 216 : 247-257 (doi.org/10. 1016/j.agee.2015.09.038).	9.40
22	Ghosh, B.N.; Khola, O.P.S.; Bhattacharyya, Ranjan; Dadhwal, K.S.; Mishra, P.K. (2016). Effect of potassium on soil conservation and productivity of maize ( <i>Zea mays</i> L.)/cowpea ( <i>Vigna sinensis</i> L.) based crop rotations in the north-west Indian Himalayas. <i>Journal of Mountain Science</i> , 13(4) : 754-762. DOI: 10.1007/s11629-013-2885-0.	6.96
23	Ghosh, J.; V.D. Lohot; V. Singhal; S. Ghosal, K.K. Sharma; R. Ramani (2015). Genetic diversity in ber ( <i>Ziziphus mauritiana</i> lam.) varieties for lac production. <i>The Bioscan</i> , 10(4): 1905-1908 (Supplement on Genetics and Plant Breeding).	4.57
24	Jakhar, P.; Adhikary, P.P.; Naik, B.S. and Madhu, M. (2015). Finger millet [ <i>Eleusine coracana</i> (L.) Gaertn.]: groundnut ( <i>Arachis hypogaea</i> L.) strip cropping for enhanced productivity and resource conservation in uplands of Eastern Ghats of Odisha. <i>Indian Journal of Agronomy</i> , 60(3): 365-371.	5.00
25	Jakhar, P.; Madhu, M.; Naik, B.S.; Adhikary, P.P.; Hombe Gowda, H.C.; Barman, D.; Naik, G.B. and Gore, K.P. (2015). Livelihood and socio-economic development through Watershed management - An Impact assessment of Lachhaputraghati tribal catchment. <i>Indian Journal of Soil Conservation</i> , 43(3).	4.90
26	Kamble, T.; Rao, B.K. and Sharma, R. (2016). Mulch farming techniques for improving resource conservation, carbon sequestration and crop production in rainfed regions - A review. <i>Journal of Soil &amp; Water Conservation</i> , 15(1) : 14-21.	4.90
27	Kannan, K.; Kundu, D.K.; Singh, R.; Thakur, A.K. and Chaudhari, S.K. (2015). Productivity and water use efficiency of aerobic rice under different moisture regimes in eastern India. <i>Indian Journal of Soil Conservation</i> , 43(2) : 170-174.	4.90
28	Kaushal, R.; Banik, R.L. and Tewari, S. (2015). Flowering in culm cuttings at nursery stage in <i>Bambusa tulda</i> Roxb. <i>The Indian Forester</i> , 141(11) : 1217-1218.	4.27
29	Kaushal, R.; Banik, R.L. and Tewari, S. (2015). Flowering in culm cuttings at nursery stage in <i>Bambusa nutans</i> . <i>The Indian Forester</i> , 141(5) : 585-586.	4.27
30	Khaki, B.A.; Singh, V.R.R.; Wani, A.A. and Kumar, R. (2015). Effect of forest fire on soil nutrients in blue pine ( <i>Pinus wallichiana</i> A.B. JACKSON) ecosystems. <i>The Indian Forester</i> , 141(4): 355-360.	4.27
31	Khaswan, Shankar Lal; Dubey, R.K.; Tiwari, R.C.; Dubey, S.K. and Chaudhary, Raj Kumari (2016). Total chlorophyll, growth and productivity of soybean [ <i>Glycine Max</i> (L) Merrill] under different levels and sources of phosphorus and plant growth regulators in south Rajasthan. <i>Legume Research</i> , DOI 10.18805/Ir.vOioF9280.	6.15

32	Kumar, R.; Shamet, G.S.; Alam, N.M. and Jana, C. (2016). Influence of growing medium and seed size on germination and seedling growth of <i>Pinus gerardiana</i> Wall. <i>Compost Science &amp; Utilization</i> , 24(2) : 98-104.	-
33	Kumar, S.; A. Raizada; H. Biswas and P.K. Mishra (2015). Assessing the impact of watershed development on energy efficiency in groundnut production using DEA approach in the semi -arid tropics of Southern India. <i>Current Science</i> , 109(10): 1831-1837.	6.93
34	Kumar, Sanjeev; Dhar Shiva; Kumar, Ashok and Kumar Dileep (2015). Yield and nutrient uptake of maize ( <i>Zea mays</i> ) - wheat ( <i>Triticum aestivum</i> ) cropping system as influenced by integrated potassium management. <i>Indian Journal of Agronomy</i> , 60(4): 511-515.	5.00
35	Kumar, Vikas, R.K. Dhaliwal and Charan Singh (2015). Impact of climate change on faunal and floral diversity in different geographical regions of Punjab. <i>Indian Journal of Forestry</i> , 38(4) : 1-6.	3.39
36	Kumari, Maina; Singh, O.P. and Meena, D.C. (2015). Innovations in financing agriculture: A case study of kisan credit card. <i>Indian Journal of Social Research</i> , 56(5) : 773-781.	2.79
37	Madhu, M. and Jerry L. Hatfield (2015). Elevated carbon dioxide and soil moisture on early growth response of soybean. <i>Agricultural Sciences</i> , 6 : 263-278 ( <a href="http://dx.doi.org/10.4236/as.2015.62027">http://dx. doi.org /10.4236/as.2015.62027</a> ).	-
38	Mali, S.S.; Das, B., Singh, A.K. and Bhatnagar, P.R. (2015). Effect of fruit stage based irrigation scheduling on yield, quality and irrigation water use efficiency of litchi ( <i>Litchi Chinensis</i> Sonn.) cv. Shahi. <i>The Bioscan</i> , 10(1) : 397-401.	4.57
39	Maurya, U.K. (2014). Geotechnical and mineralogical studies on edaphic stresses of the Deccan trap formations at NIASM site, Malegaon, Baramati, Maharashtra. <i>Clay Research</i> , 33(2): 97-109.	3.62
40	Meena, M.C.; Thomas, T.; Meena, R.S.; Meena, B.L. and Meena, G.L. (2015). Effect of different levels of N, P, K and vermi compost on growth and yield of maize ( <i>Zea mays</i> L.). <i>Environment and Ecology</i> , 33(4) : 1519-1522.	4.09
41	Mehta, H.; Dar, M. Ayoub; Rathore, A.C. and Chaturvedi, O.P. (2015). Intellectual Property Rights (IPRs) in Forestry and Agricultural Sectors in India. <i>The Indian Forester</i> , 141(3) : 254-264.	4.27
42	Mondal, B.; R.N. Adhikari; S.L. Patil; A. Raizada; M. Prabhavathi; D. Ramajayam and N. Loganandhan (2014). Assessment of on -farm employment generation through natural resource conservation activities in the semi -arid region. <i>The Andhra Agric. J.</i> , 61(4): 921-926.	3.51
43	Nangare, D.D., Singh, J., Meena, V.S., Bharat, Bhushan and Bhatnagar, P.R. (2015). Effect of green shade nets on yield and quality of tomato ( <i>Lycopersicon esculentum</i> Mill) in semi -arid region of Punjab. <i>Asian Journal of Advances in Basic and Applied Science</i> , 1(1) : 1-8.	-
44	Neog, P.; Dihingia, P.C.; Maruthi Sankar, G.R.; Sarmah, D.; Sarmah, M.K.; Rajongshi, R.; Sarmah, K.; Chary, G.R.; Srinivasa Rao, Ch. and Mishra, P.K. (2015). Different levels of energy use and corresponding output energy in paddy cultivation in north bank plain zone of Assam, India. <i>Indian J. Dryland Agric. Res. &amp; Dev.</i> , 30(2) : 84-92.	4.70
45	Osman, M.; Chary, G.R.; Mishra, P.K.; Shankar, M.A.; Padmalata, Y.; Murali, R.; Nimmaiah, K.; Khasimpeera, K.; Balamathi, A. and Haffis, S. (2015). Enhancing rainwater productivity and economic viability of rainfed crops through tank silt application. <i>Indian J. Dryland Agric. Res. &amp; Dev.</i> , 30(2) : 17-23.	4.70
46	Pal, S.; Bhatt V.K. and Tiwari, A.K. (2015). Runoff and sediment yield prediction for Chambal Basin using artificial neural network and regression analysis. <i>Journal of Soil and Water Conservation</i> , 14(2): 109-115.	7.60

47	Pande, V.C.; Kurothe, R.S.; Sena, D.R.; Kumar, G. (2015). Implications of optimal groundwater extraction for sustainable groundwater use in Indian semi -arid tropical watershed. <i>Indian Journal of Soil Conservation</i> , 43(1) : 1-8.	4.90
48	Patil, S.L.; P.K. Mishra; N. Loganandhan; S.K.N. Math; S.M. Manikatti and B.N. Seshadri (2015). Suitable chickpea cultivars for rainfed situations in black soils of south India. <i>Legume Research</i> , 38(2): 229-234.	6.15
49	Patra, S.; Mandal, D.; Mishra, P.K.; Ojasvi, P.R.; Patra, J.P.; Kumar, G.; Kaushal, R. and Alam, N.M. (2015). Watershed scale runoff -erosion-carbon flux dynamics: Current scope and future direction of research. <i>Current Science</i> , 109(10) : 1773-1774.	6.93
50	Pramanik, Monalisha; Garg, N.K.; Tripathi, S.K.; Singh, Ranvir and Ranjan, Rajeev (2016). A new approach of canopy temperature based irrigation scheduling of wheat in humid subtropical climate of India. <i>Proceedings of the National Academy of Sciences, India Section B: Biological Sciences</i> . DOI: 10.1007/s40011-015-0699-2.	6.00
51	Rajan, K.; Natarajan, A.; Kasthuri Thilagam, V.; Anil Kumar, K.S.; Dinesh, D.; Alam, N.M.; Khola, O.P.S. and Gowda, R.C. (2016). Clay dispersion induced by changes in some soil properties in undulating salt affected landscapes of southern Karnataka, India. <i>Current Science</i> , 110: 874-883.	6.93
52	Ramesha, M.N.; J.M.S. Tomar and S.L. Patil (2014). Traditional and modern methods and tools adopted by Indian farmers against wild life crop depredation. <i>ENVIS Bulletin on Himalayan Ecology</i> , 22: 51-55.	-
53	Ramesha, M.N.; P.P. Adhikary; V.K. Dwivedi; P. Rathakrishnan and S.P. Tiwari(2015). Can <i>Prosopis Juliflora</i> (Swartz) DC, withstand climatic aberration in semiarid regions of Central india? - An observation from Bundelkhand . <i>Indian Forester</i> , 144(4): 361 - 365.	4.27
54	Ranjan, Rajeev; Chopra U.K.; Sahoo, R.N.; Pramanik, Monalisha; Singh, A.K. and Pradhan, Sanatan (2015). Resource conservation in wheat ( <i>Triticum aestivum</i> L.) under different water and nitrogen stress levels. <i>Indian Journal of Soil Conservation</i> , 43(2): 159-165.	4.90
55	Ranjan, Rajeev; Sahoo, R.N.; Chopra, U.K.; Pramanik, Monalisha; Singh, A.K. and Pradhan, Sanatan (2015). Assessment of water status in wheat ( <i>Triticum aestivum</i> L.) using ground based hyperspectral reflectance. <i>Proceedings of the National Academy of Sciences, India Section B: Biological Sciences</i> . DOI:10. 1007/s40011-015-0618-6.	6.00
56	Roy, T.; Biswas, D.R.; Datta, S.C.; Dwivedi, B.S.; Lata; Bandyopadhyay, K.K.; Sarkar, A.; Agarwal, B.K. and Shahi, D.K. (2015). Solubilization of Purulia rock phosphate through organic acid loaded nano clay Polymer composite and phosphate solubilizing bacteria and its effectiveness as P -fertilizer to wheat. <i>Journal of the Indian Society of Soil Science</i> , 63(3) : 327-338.	4.95
57	Sahoo, D.C.; Madhu, M .; Muralidharan, P. and Sikka, A.K. (2015). Land management practices for resource conservation under vegetable cultivation in Nilgiris hills ecosystem. <i>Journal of Environmental Biology</i> , 36 : 1039-1044.	6.56
58	Senthilkumar, T. and V. Kasthuri Thilagam (2015). Study on effect of incorporation of shredded cotton stalks by cotton stalk shredder on soil properties. <i>Madras Agric. J.</i> , 102(4-6) : 193-195.	3.98
59	Sharma, K.K.; Singh, A.K. and Dubey, S.K. (2015). Analysis of one day probable maximum precipitation for designing soil and water conservation structures in Agra, U.P. <i>Journal of Agrometeorology</i> , 17(2) : 268-270.	6.15
60	Singh, A.K.; Kala, S.; Dubey, S.K.; Pande, V.C.; Rao, B.K.; Sharma, K.K. and Mahapatra, K.P. (2015). Technology for rehabilitation of Yamuna ravines - cost-effective practices to conserve natural resources through bamboo plantation <i>Current Science</i> , 108(8): 1527-1533.	6.93

61	Singh, A.K.; S .K. Dubey; Uma Sah and Lakhan Singh (2016). Temporal adaptation of agricultural extension systems in India. <i>Current Science</i> , 110(7) : 1169-1177.	6.93
62	Singh, Charan; Alam, N.M. and Dwivedi, V.K. (2015). Cultivation prospective of some commercially important medicinal plants for Indian health system. <i>Journal of Non Timber Forest Products</i> , 22(3): 199-128.	2.80
63	Singh, J.; Nangare, D.D., Meena, V.S., Bharat, Bhushan; Bhatnagar, P.R. and Naved, Sabir (2015). Growth, quality and pest infestation in tomato under protected cultivation in semi-arid region of Punjab. <i>Indian Journal of Horticulture</i> , 72(4) : 518-522.	6.13
64	Singh, Raman Jeet ; Alam, N.M. and Kumar, Suresh (2015). <i>Bt</i> Cotton-groundnut intercropping system: A pragmatic approach for increasing edible oilseeds production in India. <i>Proceedings of the National Academy of Sciences, India Section B: Biological Sciences</i> , Doi:10.1007/s/40011-015-0643-5.	6.00
65	Singh, Raman Jeet; Ghosh, B.N.; Sharma, N.K.; Patra, Sridhar; Dadhwal, K.S. and Mishra, P.K. (2016). Energy budgeting and emery synthesis of rainfed maize -wheat rotation system with different soil amendment applications in Indian sub - Himalayas. <i>Ecological Indicator</i> , 61(2) : 753-765. DOI: 10.1016/j.ecolind.2015.10.026.	9.44
66	Singh, S.R.; Chand, L.; Saad, A.A. and Hakeem, S.A. (2015). Foliar feeding of rice with free-living nitrogen fixers and boron and nitrogen management under temperate conditions of Kashmir valley. <i>The Ecoscan</i> , 9(1&2) (Supplement on Rice) : 421-425.	5.06
67	Singh, Sukhbir; D.C. Sahoo; N.K. Singh and J.K. Bist (2015). Operator physiological response and bullock draughtability during primary tillage. <i>Agricultural Engineering International: CIGR Journal</i> , 17(4) :115-120.	2.75
68	Singh, Y.P. and Dubey, S.K. (2015). Impact of underground irrigationwater on soil properties and sodic soil reclamation technologies on pearl millet -wheat crop sequence <i>Indian Journal of Soil Conservation</i> , 43(1): 58-62.	4.90
69	Singh, Y.P.; Raghubanshi, B.P.S.; Tomar, S.; Verma, S.K. and Dubey, S.K. (2015). Soil fertility and correlation of available macro and micronutrients in Chambal region of Madhya Pradesh <i>Journal of Indian Society of Soil Sciences</i> , 62(4) : 369-375.	4.90
70	Thakur, S.; Bhardwaj, D.R.; Kaushal, R.K.; Kaushal, R. (2015). Effect of growing media and inorganic phosphorus on growth and development of maggar bans ( <i>Dendrocalamus hamiltonii</i> Munro) planting stock. <i>Indian Forester</i> , 141(1) : 41-461007/s11356-015-5.	4.27
71	Upadhyay, Preeti; Narayan, M. and Meena , H.R. (2015). Studies on the antibacterial and phytochemical activity of <i>Datura innoxia</i> . <i>Bioved</i> 26(2) : 317-321.	2.90
72	Uthappa, A.R.; Bana, O.P.S.; Manish Kumar and Kanwal, M. (2015). Soil physico -bio-chemical properties as influenced by varying tree densities in poplar ( <i>Populusdeltoides</i> Bartr. ex Marsh.) based agroforestry system. <i>Indian J. of Agroforestry</i> , 17(1) : 81-90.	4.50
73	Yadav, R.P.; Bana, O.P.S.; Kaushal, R. and Rajput, P.R. (2015). Growth analysis and yield of wheat in agrisilviculture system in <i>tarai</i> region of North -West India. <i>The Indian Forester</i> , 141(3) : 313-318.	4.27
74	Yadav, R.P.; Pankaj Panwar; Swarn Lata Arya and P.K. Mishra (2015). Revisit of Shivalik region in different states of northwestern India. <i>Journal Geological Society of India</i> , 86 : 351-360.	6.60
75	Yadav, R.P.; S.L. Arya and Ram Prasad (2015). Effect of different horticultural pastoral systems in ameliorating soil compaction in Shivalik region. <i>Indian Journal of Soil Conservation</i> 43(1) : 96-101.	4.90
76	Yadav, Shailendra Kumar; Khokhar, U.U.; Sharma, Som Dev and Kumar, Pramod (2015). Response of strawberry to organic versus inorganic fertilizers. <i>Journal of Plant Nutrition</i> , 39(2) : 194-203. DOI: 10.1080/01904167.2015.1109115.	6.49



## Conference/Symposia Papers

### International

- Chaturvedi, O.P., Handa, A.K.; Kaushal, Rajesh and Pandey, V.C. (2016). Potential of agroforestry for natural resource conservation higher productivity from ravines and degraded lands. *In: Souvenir - 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya (RVKVV), Gwalior (M.P.) India : 74-84.*
- Dubey, S.K. and Dubey, R.K. (2016). Reclaimed Yamuna ravines and their management for agriculture and agroforestry. *In: Souvenir - 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.) India : 128-135.*
- Manivannan, S.; Kholra, O.P.S.; Kannan, K. and Rajan, K. (2015). Application of jute geotextiles for hill slope stabilization. *Proc. of International symposium on Geosynthetics - The road ahead during November 5-6 at New Delhi (Oral presentation) : 291-299.*
- Mishra, P.K.; Singh, R.K. and Ali, Shakir (2016). Conservation measures for Ravine Area Rehabilitation. *In: Souvenir - 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India : 41-48.*
- Sikka, A.K.; Mishra, P.K.; Singh, R.K.; Rao, B.K. and Abdul Islam (2016). Management of Ravines for Food, Livelihood and Environmental Security. *In: Souvenir 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior, India : 1-14.*
- Singh, R.K. and Kumar, Ashok (2016). Characterization of Chambal Ravine and Strategies for Their Sustainable Management. *In: Souvenir 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India : 85-96.*

### National

- Kumar, Ambrish; Dhyani, B.L.; Bihari, Bankey; Mandal, D.; Singh, Charan and Muruganandan, M. (2015). *Participatory Sustainable Water Resource Management for Irrigation in Himalayan Foot Hills*. In proceedings of All India Seminar on "Advances in Engineering and Technology for Sustainable Development" organized by Institution of Engineers (India) at GBPUAT, Pantnagar, during June 12-13 : 28-36.
- Mishra, P.K. and Kumar, Ambrish (2016). Soil Erosion from Arable and Non Arable Lands and their Control Measures in Hills. *In: Technical compendium, National Conference on Hill Agriculture in Perspective held at Pantnagar during Feb. 26-28, Directorate of Experiment Station, GBPUAT, Pantnagar, Uttarakhand : 251-256.*
- Mishra, P.K.; Sena, D.R. and Chaturvedi, S. (2015). Climate change implications on water resources in cold desert: A didactic analysis. Lead paper - National Symposium on 'Sustaining Agricultural Productivity in Arid Ecosystems: Challenges & Opportunities', August 19-22, AZRAI, CAZRI, Leh : 40-50.
- Muruganandam, M.; Mishra, P.K. and Juyal, G.P. (2016). Watershed-based fisheries development to promote fish production in water deficient regions in India. *In: Proceedings of the National Seminar on Development of Fisheries in Water Deficient Regions held during 25-26 February 2014 at Chennai : 118-128.*
- Rathore, A.C.; Jayaprakash, J. and Mehta, H. (2016). Drip irrigation and mulching improves productivity of Kinnow Mandarin cultivation on degraded lands. *In: Symposium Souvenir 'Badalte Jalvayu Parivesh Main Uttarakhand Main Nimbu Vargiye Falon Ki Unnat Bagwani'. January 2-3 held at Dehradun : 37-42.*
- Rathore, A.C.; Jayaprakash, J. and Mehta, H. (2016). Sweet orange (*Citrus senensis*) ki vyavsik kheti se pathrili bhumi ka krishikaran (In hindi). *In: Symposium Souvenir 'Badalte Jalvayu Parivesh Main Uttarakhand Main Nimbu Vargiye Falon Ki Unnat Bagwani'. January 2-3 held at Dehradun : 20-22.*
- Singh, Lakhan; Bishnoi, Rajesh; Bihari, Bankey and Mishra, P.K. (2016). Intergrated watershed management through people's participation. *In: Souvenir published by during 4th U.P. Agricultural Science Congress : 166-169.*

## Short communication/ short note/ professional abstracts)

### International

- Ali, Shakir and Ghosh, N.C. (2016). Development and testing of a robust potential groundwater recharge simulation model. *Proceeding of the Abstract (R. Annadurai et al. eds.): Sixth International Groundwater Conference (IGWC-2015) on Exploration, Assessment and Management of Groundwater Resources in Arid and Semi-Arid*

- Regions, organized by Global Groundwater Society, held during February 11-13, 2016 at SRM University, Chennai (TN), India : 142-143.
- Bazaya, B.R.; Chand, L.; Kumar, A.; Kachroo, D. and Puniya, R. (2015). Conservation tillage and mulching on the productivity of wheat under irrigated conditions of Jammu region. *In: Proceedings International Seminar on Natural Resource Management Ecological Perspectives, Vol.1 : 111.*
- Bhatnagar, P.R.; Rao, B.K.; Pande, V.C.; Kumar, Raj and Kakade, Vijay (2016). Technological interventions for reclamation and productive utilization of Mahi ravines of Gujarat. *In: Abstracts Book (S.K. Verma et al. eds.) - 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India : 19.*
- Bhatt, V.K., Tiwari, A.K. Pankaj Panwar, Pawan Sharma and Bhattachryya, P (2016) Improvement of water yield in micro watersheds of Shivalik region. *In: Extended Abstracts, Natural Resource Management Ecological Perspectives (Vol. 1) at Jammu during February 18-20 : 101.*
- Dubey, R.K.; Dubey, S.K.; Bhushan, L.S.; Yadav, R.C.; Agnihotri, R.C. and Gawande, A.P. (2016). Productivity enhancement due to different soil and water conservation interventions and improved agro-techniques in operational research project on Yamuna ravines of Agra watershed. *In: 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India: 115.*
- Ghosh, B.N.; Singh, Lakhan and Mishra, P.K. (2016). Conservation Agriculture and Ecosystem Services: An Overview. *In: Abstract Book of GRC-2016 on Managing Ravines for Food and Livelihood Security, RVSKVV, Gwalior 7-10 March : 90.*
- Kala, S.; Meena, H.R. and Singh, R.K. (2016). Exploration and assessment of medicinal plants diversity at rehabilitated Chambal and Yamuna ravines in India. *In: 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India. 124.*
- Kumar, Ashok; Ali, Shakir; Kumar, K. and Singh, R.K. (2016). Post-adoption behaviour of farmers towards soil and water conservation interventions in Chambal ravine region – A case of Badakhra watershed. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India: 163.*
- Madhu, M.; Sikka, A.K. and Mishra, P.K (2016). Utilization of weeds in erosion control and soil improvement. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India: 44.*
- Meena, G.L., Singh, R.K., Meena, H.R. and Sathy, B.K. (2016). Reference crop evapotranspiration estimation for predominant land uses in south-eastern Rajasthan for conservation planning: FAO 56 Penman - Monteith approach. 6th International Conference on Technology, Innovation and Management for Sustainable Development (TIMS 16) held at ITM University, Gwalior (MP), India, during February 11-13.
- Meena, G.L.; Singh, R.K.; Mina, B.L.; Kumar, Gopal; Kumar, Kuldeep and Meena, R.B. (2016). Ravine area Delineation using Remote Sensing and GIS: A case study Kota district in upper Chambal basin of India. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India : 3.*
- Meena, H.R.; Mina, B.L.; Meena, G.L.; Parandiyal, A.K.; Kumar, Ashok and Singh, R.K. (2016). Performance of horti-pastoral systems in Chambal ravines of Rajasthan. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India: 79.*
- Meena, R.B.; Singh, A.K.; Meena, D.C. and Bagdi, G.L. (2016). Perception based study on understanding post-adoption behavior of farmers towards soil and water conservation technologies in Jalalpur watershed in semi-arid region of U.P. (India). *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India : 166.*
- Mehta, H.; Dar, M. Ayub; Juyal, G.P.; Ojasvi, P.R.; Kaushal, R.; Rathore, A.C.; Tomer, J.M.S.; Jayaprakash, J. and Mishra, P.K. (2016). Ecological restoration of land slide site through Geo-jute in North-Western Himalayas. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security' during March 7-10 at RVKVV, Gwalior (M.P.), India : 14.*

- Mina, B.L.; Kala, S.; Singh, R.K.; Meena, G.L.; Parandiyal, A.K. and Kumar, Ashok (2016). Effects of different land use systems on soil properties in chambal ravine of Rajasthan. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 2.
- Pal, Rama; Dubey, R.K.; Dubey, S.K. and Singh, A.K. (2016). Water quality of Yamuna river in eutrophicated segment in ravine range of U.P. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 116.
- Pal, Sharmistha, Pankaj Panwar and A.K. Tiwari (2016). Forest Based Land Uses for Carbon Sequestration: A Climate Resilient Option for Sustainable Management of Natural Resources in Shivalik Region, India. *In: Proceedings of the international conference on Natural Resorce Management - Ecological Perspectives (Vol.1) at SKUAST-J, Jammu, India, during Feb.18-20 : 431.*
- Pande, V.C.; Rao, B.K.; Bhatnagar, P.R.; Kumar, Raj and Kakade, V.D. (2015). Socio-economics of conservation measures and investment on ravine land management: Issues and policy interventions for Mahi ravines in Gujarat. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 167.
- Panwar, Pankaj, Sharmishta Pal, Bhatt, V.K., Ram Parsad and Tiwari, A.K. (2016). Sustainable utilization of degraded sloping lands through diversidfied farming system in Shivalik Himalaya. *In: Extended Abstracts, Natural Resorce Management - Ecological Prospectives (Vol. 1) at SKUAST-J, Jammu during February 18-20 : 42.*
- Parandiyal A.K.; Meena, H.R.; Sethy, B.K. and Singh, R.K. (2016). Evaluation of forestry and horticultural based systems for Chambal ravines. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 77.
- Prakash, Om and Bihari, Bankey (2015). Participation and constraints faced by farm women of watershed programmes in Bundelkhand region of central India. *In: XXIII International Grassland Congress (IGC 2015), New Delhi, India during November 20-24 : No. 831.*
- Rao, B. Krishna; Pandey, V.C.; Singh, A.K.; Parandiyal, A.K.; Kurothe, R.S.; Kumar, Gopal; Mishra, P.K and Bhatnagar, P.R. (2016). Bamboo based bio-engineering intervention for reclamation and productive utilization of degraded ravine lands of India. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 39.
- Sharma, K.K.; Dubey, S.K.; Kumar, Dileep and Singh, A.K. (2016). Study on hydrological behavior of farm pond in reclaimed Yamuna ravines at Agra, Uttar Pradesh. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 4.
- Shyam, Manisha; Rawat, G.S. and Kumar, Dileep (2016). Production and Economics of clusterbean [*Cyamopsis tetragonoloba (L.) Taub*] and pearl millet (*Pennisetum glaucum*) intercropping system as affected by weed management practices in arid and semi arid areas of Madhya Pradesh. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 66.
- Singh, A.K.; Dubey, S.K; Kala, S.; Parandiyal, A.K.; Sharma, K.K. and Rao, B.K. (2016). Management of degraded lands of Yamuna ravine through bamboo plantation (*Dendrocalmus strictus*) for resource conservation and livelihood. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 78.
- Singh, Lakhani; Bishnoi, Rajesh and Bihari, Bankey (2016). Social dimension for ravine management in India. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior, India : 164.
- Somasundaram, J.; Singh, R.K.; Parandiyal, A.K.; Sethy, B.K.; Meena, H.R.; Ali, S. and Kumar, Ashok (2016). Ravines - a prospective zone of carbon sink in Chambal region of Rajasthan. *In: Abstracts (S.K. Verma et al. eds.) 'Global Ravine Conference on Managing Ravines for Food and Livelihood Security'* during March 7-10 at RVKVV, Gwalior (M.P.), India : 40.

**National**

- Ali, Shakir and Mishra, P.K. (2016). An analytical approximation to Green-Ampt infiltration equation. In Technical Compendium (R.C. Das *et.al* eds.): 50th Annual convention of Indian Society of Agricultural Engineers (ISAE) and symposia on *Agricultural Engineering in National Building: Contributions and Challenges* organized by Indian Society of Agricultural Engineers (ISAE) held during January 19-21 at OUAT, Bhubneswar (Odissa) : 250.
- Bhatt, V.K.; Singh, P. and Sharma, Pawan (2015). Moisture conservation techniques for higher crop production in Shivalik. *In: Souvenir, National Workshop on Natural Resource Management for Climate Resilient Agriculture in Lower Himalayas*, held at Ballawal Saunkhri, SBS Nagar (Punjab), Regional Research Station of PAU on 22-23 December : 98.
- Bihari, Bankey and Singh, Lakhan (2016). Sustainability issues in Community based watershed Management Programmes. Abts. National seminar on Sustainable Family farming for Food, Nutritional and Livelihood Security organised by Div. of Extension, Economics and Statistics, Institute of Agriculture, Visva-Bharati University, West Bengal during March 5-6 : 49-50.
- Bihari, Bankey; Singh, Lakhan and Sharma, S.K. (2015). Farmer's First in Soil and Water conservation – A case study. Abts. ISEE Golden Jubilee National seminar on Strategies to drive skill based agriculture development for sustainability and rural employability organised by Indian Society of Extension Education at Banaras Hindu University during Nov.5-7 : 57-58.
- Chand, L., Sharma, N.K. and Singh, K.N. (2015). Integrated weed management in lentil (*Lens culinaris Medik*) under temperate conditions of North Himalaya. National Seminar on emerging 'Weed problems and their management in major Crops', Orissa Chapter ISA, 2015 : 180-182.
- Chand, L.; Hasan, B.; Sharma, N.K. and Singh, U. (2016). Productivity of rice under varied geometry, irrigation and seedling age at transplanting in temperate conditions of Kashmir. Book of Abstracts: National Seminar on Agriculture Resource Management for Sustainability and Eco-Restoration held at ICAR-CIAH, Bikaner, March 11-13 : 92.
- Chand, L.; Singh, K.N. and Sharma, N.K. (2015). Evaluating water depths for high water productivity in irrigated low land rice genotypes by employing different irrigation regimes under temperate conditions. *In Souvenir: National Workshop on Natural Resource Management for Climate Resilient Agriculture in Foothills of Lower Himalayas* (Eds.: Vijay Kumar, S.S. Kukal and Vivek sharma), Regional Research Station, (PAU), Ballawal Saunkhri (Punjab) during December 22-23 : 62.
- Dhaker, R.C.; Dubey, R.K.; Dhakad, G.S.; Mishra, Shubham; Meena, Brijesh and Kumar, D. (2016). Effect on plant height, LAI and various yield attributes of fenugreek (*Trigonella foenum-graecum L.*) under varying IW-CPE ratios and fertilizer levels in Rajasthan. Abstracts *In: National Conference on Frontiers in Research & Development on Agriculture, Bio-medicinal and Pharmaceutical Services* held on 0 March, 4 at Mewar University, Chittorgarh (Rajasthan) : 38.
- Dhyani B.L., Kumar, Ambrish; Bihari, Bankey; Mandal, Debashis; Singh, Charan and Muruganandan, M. (2015). Livelihood security through participatory adoption of soil and water conservation technologies in uttarakhand. *In: 4th Jammu & Kashmir Agricultural Science Congress* organized at SKUAST-J, Jammu, India during October 28-30 : 179.
- Dubey, R.K.; Dubey, S.K.; Bhushan, L.S.; Yadav, R.C.; Agnihotri, R.C. and Gawande, A.P. (2016). Soil fertility and crop productivity on newly constructed bench terraces in Yamuna ravines of Agra watershed. *In: 25th Conference on Natural Resource Management in Arid and Semi-arid Ecosystem on Climate Resilient Agriculture and Rural Development* during February 17-19 held at Bikaner (Rajasthan): 131.
- Ghosh, B.N. (2016). Balanced and Integrated Fertilizer Use for food security and environmental sustainability in North-Western Himalayas Region. *In: Proceeding - National Conference (Agricon-2016) on Balanced Fertilization - A Key to Food Security and Environmental Sustainability* (eds Ramawat *et al.*) jointly organized by Amity Institute of Technology (AIOA), Amity University and KRIBHCO during February 24-25 : 23.
- Ghosh, B.N.; Khola, O.P.S. and Dadhwal, K.S. (2015). Influence of potassium on soil conservation and productivity in mica dominated soils of the North-West Himalayan region. *Proceeding In: National Conference on Application*

- of Clay Science in Agriculture, Environment and Industry (eds Nayak *et al.*) organized jointly by Clay Mineralogy Society of India and NBSS&LUP, RC, Kolkata during August 7-8 : 46.
- Gupta, A.; Rao, B.K.; Bhatnagar, P.R.; Pande, V.C.; Sena, D.R.; Mishra, P.K. and Mandal, U. (2016). Assessing hydrologic components for water balance study using SWAT model in the part of upper Sabarmati Basin. *In: Proceedings of 29th National Convention of Agricultural Engineers by The Institution of Engineers (India), February 20-21 held at Anand (Gujarat) : 16.*
- Kamble, T.; Rao, B.K.; Bhatnagar, P.R.; Kurothe, R.S.; Pande, V.C.; Mishra, P.K.; Kumar, A., Sharma, R. (2016). Surge-flow alternate furrow irrigation for enhancing water productivity of fennel (*Foeniculum vulgare mill*) in semiarid region of Central Gujarat. *In: Proceedings of 29th National Convention of Agricultural Engineers by the Institution of Engineers (India), February 20-21 held at Anand (Gujarat) : 17.*
- Maurya, U.K.; Duraiswami, R.A.; Karmalkar, N.R. and Vittal, K.P.R. (2015). Delineation of potential zones for sinking of water abstraction structures in the drought prone area of Baramati (M.S.). *In: 19th Annual Convention and National Conference on Application of Clay Science in Agriculture, Environment and Industry, organized by CMSI, New Delhi in collaboration with NBSS&LUP, Nagpur held during August 7-8 at NBSS&LUP, Regional Centre, Kolkata : 15.*
- Panadiyal, A.K.; Kala, S.; Kumar, Ashok; Meena, G.L. and Singh, R.K. (2016). Tree borne oilseed species (TBOs) based silvipastoral system : Ideal technology for effective utilization of Chambal ravines in south-eastern Rajasthan. *In: Abstracts (N.K. Pareek *et al.* eds), 25th National Conference on Natural Resource Management in Arid and Semi-arid Ecosystem for Climate Resilient Agriculture and Rural Development held at Swami Keshwanand RAU, Bikaner (Rajasthan) during Febr. 17-19 : 239.*
- Parandiyal, A.K. and Singh, A.K. (2015). बीहड़ भूमि उपयोग हेतु बांस का महत्व *In: Abstracts Proceeding - Rashtriya hindi Vigyan Sammelan held at Jivaji Visvavidyalaya, Gwalior during Dec. 11-12 : 39-40.*
- Parandiyal, A.K. and Singh, A.K. (2015). ग्रामीण विकास में बांस का महत्व। *In: Abstracts Proceeding - Rashtriya hindi Vigyan Sammelan held at Jivaji Visvavidyalaya, Gwalior during Dec. 11-12 : 40.*
- Rao, B.K.; Bhatnagar, P.R.; Kurothe, R.S.; Kamble, T.; Mishra, P.K.; Pande, V.C.; Kumar, A.; Sharma, R. (2016). Blue and green water harvesting techniques for enhancing the land and water productivity of rainfed region of Gujarat. *In: Proceedings - 29th National Convention of Agricultural Engineers by the Institution of Engineers (India), Feb 20-21 held at Anand (Gujarat) : 16.*
- Singh, Raman Jeet; Sharma, N.K. and Deshwal, J.S. (2015). Strategic tillage for effectively implementation of conservation agriculture in rainfed agriculture. *In Souvenir: National Workshop on Natural Resource Management for Climate Resilient Agriculture in Foothills of Lower Himalayas (Eds.: Vijay Kumar, S.S. Kukal and Vivek sharma), Regional Research Station (PAU), Ballawal Saunkhri (Punjab) during December 22-23 : 58-59.*
- Singh, Y.P.; Singh, D.; Singh, S.; Tomar, S.S.; Dubey, S.K. and Gupta, Raj K. (2016). Success of wider acceptability of short duration varieties of pigeonpea. *In: 25th Conference on Natural Resource Management in Arid and Semi-arid Ecosystem on Climate Resilient Agriculture and Rural Development during February 17-19 held at Bikaner (Rajasthan): 356.*
- Yousuf, A.; Bhardwaj, A.; Tiwari, A.K.; Bhatt, V.K. (2015). Modelling runoff and sediment yield from a foreset watershed in Shivalik foothills using WEPP model. *In: 49th Annual Convention of ISAE & Symposium on Engineering Solution for Sustainable Agriculture and food processing, Feb. 23-25 held at PAU Ludhiana : 223.*
- Popular Articles**
- Ali, Shakir; Sethy, B.K. and Singh, R.K. (2015). Potential impact of climate change scenarios on small water resources. *Indian Farming*, 65(3) : 35-37.
- Gupta, A.K.; Kaushal, R. and Chaturvedi, O.P. (2015). Environmental Legislation in India. *Indian Farmer's Digest*, 48(6) : 43-44.
- Kala, S.; Kumaran, K.; Meena, H.R. and Singh, R.K. (2015). Edible dye for the future: Annatto (*Bixa orellana L.*). *Popular Kheti*, 3(3) : 112-114.
- Kannan, K.; Selvi, V.; Singh, D.V. and Khola, O.P.S. (2015). Coirpith compost-An alternate source of organic manure for rainfed maize. *Kissan world*, 42(10) : 12-13.

- Kumar, Ashok; Singh, R.K.; Prasad, S.N. and Kumar, K. (2015). Intercropping of castor and green gram for higher income. *Kheti*, 67(5) : 14-16.
- Manivannan, S.; Kasthuri Thilagam, V. and Khola, O.P.S. (2016). Missing dimensions of landslides in Nilgiris. *Kisan World*, 43(2) : 55-58.
- Meena, H.R.; Kala, S.; Mina, B.L.; Meena, G.L.; Kumar, Ashok and Singh, R.K. (2015). Bael - A Highly Remunerative Fruit for Chambal Ravines. *Popular Kheti*, 3(3) : 59-64.
- Meena, H.R.; Kumar, Ashok; Kumar, Kamlesh and Singh, R.K. (2015). *Laagat me kum aur guno me dum – Bael. Phal phool*, May–June issue : 12-13.
- Meena, H.R.; Meena, G.L. (2015). *Chambal ke behead me hogen unnat kism ke bael*. News paper Dainik Navajyoti, December 23: 12.
- Mishra, P.K.; Kaushal, R. and Chaturvedi, O.P. (2014). Agroforestry technologies for resource conservation and production of degraded lands. *Indian Farming*, 63(11): 12-15.
- Purohit, R., Kaushal, R. and Tewari, S. (2016). Jalvayu parivartan ke parbhandan main krishi vaniki ka mehtav (In hindi). *Kisan Bharti*, 47(7) : 20-24.
- Ramesha, M.N. and Patil, S.L. (2015). *Janakku mattu januvargu mevu - Chaya. Negela Medita* (Kannada), June issue : 24-25.
- Sharma, N.K., Singh, Raman Jeet, Mandal, D., Kumar, A. and Deshwal, J.S. (2015). *Makka ke sath lobia ki kheti. Kheti*, 67(2) May issue : 27-29.
- Sharma, N.K.; Singh, R.; Sharma, S.N., Mishra, P.K. (2015). रबी की बुआई से पहले और बाद में किए जाने वाले मृदा एवं जल संरक्षण के सस्य उपाय किसान भारती, 47(2) नवम्बर : 37 & 40.
- Sharma, S.K. and Kala, S. (2016): Avain fauna of the jawai hills comprises of outcrops, crags, caves and cancaves, Technical Proc. Bird Fair–Udaipur : 9-10.
- Singh, Raman Jeet, Ghosh, B.N.; Sharma, N.K.; Dadhwal, K.S.; Patra, Sridhar and Deshwal, J.S. (2015). In-situ green manuring in maize-wheat cropping system to check soil degradation and carbon improvement in sloppy soils of Himalaya. *Popular Kheti*, 2(4) : 89-95.
- Singh, Raman Jeet; Sharma, N.K. and Deshwal, J.S. (2015). *Marda evam jal sarakshan ke upaya. Kheti*: 67(3) June issue : 3-5.
- Tewari, S. and Kaushal, R. (2015). *Krishi vaniki: Paryavaran suraksha ke saath dhanarjan* (In hindi). *Kisan Bharti*, 46(9) : 6-7.

### Patent

- Sarkar, B.; Maurya, U.K.; Brahmane, M.P.; Krishnani, K.K. and Minhas, P.S. (2014). Process for one step synthesis of bactericidal silver nanoparticles from tissue extracts of *Labeo rohita*. Patent Office Journal, Publication Date: 25.07.2014, Issue No. 30/2014.

### Research Brief

- Kumar, S.; Raizada, A.; Biswas, H. and Srinivas, S. (2015). Planning Holistic Development in Karnataka using the Sustainable Livelihood Security Index. Research Brief Number: IISWC-RB-1/BL-1, Affiliation: ICAR-Indian Institute of Soil and Water Conservation, Dehradun (UK), India.

### Bulletins

- Narayana, M.; Nanda, S.K. and Bhatnagar, P.R. (2015). Compendium of Plasticulture Technologies. AICRP on PET Coordinating Unit, CIPHET, Ludhiana : 69p.
- Pande, V.C.; Bagdi, G.L. and Sena, D.R. (2015). Status of Community Based Water Storage Structures in Gujarat. ICAR-IISWC, Research Centre, Vasad (Gujarat). Bulletin No. T-62/ V-5 : 38p.
- Singh, A.K.; Kala, S.; Dubey, S.K.; Rao, B.K.; Mishra, P.K. (2015). Bamboo based resource conservation - A viable technology for reclamation of Yamuna ravines. ICAR-IISWC RC, Agra Technical bulletin No. T-67/A-01 : 18p.
- Singh, A.K.; Sharma, K.K.; Dubey, S.K. and Chandra, S. (2016). Peripheral bund : Controlling measures for ravine formation in arable land. ICAR-IISWC RC, Agra Technical bulletin No. T-71/A-02 : 16p.

Singh, Charan; Bihari, Bankey; Kumar, Suresh; Murganandam, M.; Mandal, D.; Madhu, M.; Kumar, Ambrish; Kumar, Ashok; Kumar, Rakesh; Sharma, S.K.; Dewivedi, V.K. and Dhyani, B.L. (2015). Sankar Napier – Uttar Paschim Himalay Kshetra Me Chara Uttapadan Evam Sansadhan Hetu Ek Upukat Vikalp. Technical Bulletin No. T-70/D-41, IISWC, Dehradun : 36p.

### Souvenir

ICAR-IISWC (2015). Souvenir & Programme - ICAR Zonal Tournament (North Zone) : April 18-21. ICAR-Indian Institute of Soil & Water Conservation, Dehradun : 26p.

### Newsletters

Dogra, Pradeep; Kaushal, Rajesh and Kumar, Nirmal (2015). IISWC News No.7 (October 2014 to March 2015). ICAR-IISWC, Dehradun : 16p.

Dogra, Pradeep; Kaushal, Rajesh and Kumar, Nirmal (2015). IISWC News No.8 (April to September 2015). ICAR-IISWC, Dehradun : 20p.

### Brochure

Singh, Charan; Raizada, A. and Alam, N.M. (2015). Fodder and Firewood Production from Managed Silvipastoral System Raised on Old River Bed Lands in the North-West Himalayas. CSWCRTI, Dehradun : 8p.

### Extension leaflets

Bihari, Bankey Singh, Lakhan and Kumar, Suresh (2015). Watershed Management, Policy Planner Digdarshika. IISWC, Dehradun.

Bihari, Bankey; Singh, Lakhan and Kumar, Suresh (2015). Watershed management, PIA Digdarshika. IISWC, Dehradun .

Bihari, Bankey; Singh, Lakhan and Kumar, Suresh (2015). Watershed management, WDT Digdarshika. IISWC, Dehradun.

बिहारी, बांके, सिंह, लाखन, सिंह, चरण एव कुमार, सुरेश (2015). वर्षा आधारित क्षेत्रों में जल संरक्षण-किसान दिग्दर्शिका। भारतीय मृदा एवं जल संरक्षण संस्थान, देहरादून (उत्तराखण्ड)।

Kannan, K. and Sundarambal, P. (2016). Puertorican bench terraces (in Tamil). IISWC RC, Udhagamandalam.

Kannan, K. and Sundarambal, P. (2016). Soil and water conservation practices for the Nilgiris (in Tamil). IISWC RC, Udhagamandalam.

Kannan, K. and Sundarambal, P. (2016). Water harvesting techniques in the Nilgiris (in Tamil). IISWC RC, Udhagamandalam.

Kannan, K. and Sundarambal, P. and Rajan, K. (2016). Malaipaguthikalukku Yatra Man matrum Neer Vala Melanmai (in Tamil). IISWC RC, Udhagamandalam.

Khola, O.P.S., Kannan, K., Sundarambal, P., Selvi, V., Rajan, K., Manivannan, S., Kasthuri Thilagam, V., Dinesh, D., Raja, P. and Ragupathy, R. (2016). Natural Resource Management and Livelyhood Support Interventions in the Tribal area of Nilgiris, Tamil Nadu. IISWC RC, Udhagamandalam.

Rao, B.K.; Kurothe, R.S.; Kamble, T.T.; Pande, V.C.; Kumar, G. and Bhatnagar, P.R. (2015). *Varsadi Pradeshoma Panini Utpadakta Vadharva Green Water Harvesting Ane Sinchai Paddhatiyon.*

Rao, B.K.; Bhatnagar, P.R.; Kurothe, R.S.; Kamble, T.; Pande, V.C.; Kumar, Anand and Chouhan, U.B. (2016). *Varsadi Aadharit Pradeshoma Jamin Ane Panini Utpadakta Vadharva Mate Checkdam Ane Bhugarbh Jal Recharge Filter.*

Rao, B.K.; Pande, V.C.; Bhatnagar, P.R.; Vishwkarma, A.K.; Kumar, R. and Mayawanshi, K.D. (2016). *Pakwana Khetaro Ane Nalama Mati Ane Poshaktatvonu Nuksan Ghatadva Ghasni Garni.*

Sundarambal, P. and Kannan, K. (2016). Economic utilization and stabilization of bench terrace riser with tea (in Tamil). IISWC RC, Udhagamandalam.

Sundarambal, P. and Kannan, K. (2016). Puertorican bench terraces (in Tamil). IISWC RC, Udhagamandalam.

Sundarambal, P. and Kannan, K. (2016). Soil and Water Conservation Practices in New Tea Plantation (in Tamil). IISWC RC, Udhagamandalam.

**Book**

- Dhyani, B.L.; Dogra, Pradeep; Singh, Lakhan; Singh, Rajbir and Kumar, Nirmal (Eds.) (2015). Background Note - Agro-climatic Zone I (H.P., J&K and Uttarakhand) for Workshop on 'Providing Technological Support, Extension and Demonstration Services to Farmers' held at SKUAST, Jammu on 4th November, 2015, ICAR-IISWC, Dehradun : 49p.
- Muruganandam, M.; Mandal, D.; Kaushal, R.; Mishra, P.K.; Chaturvedi, O.P.; Sharma, N.K.; Ojasvi, P.R.; Singh, Lakhan and Sharma, Sangeeta N. (2016). Farmer Innovations and Initiatives in Natural Resource Conservation in the Northern Region (Bilingual in Hindi and English). Indian Association of Soil and Water Conservationists and ICAR-IISWC, Dehradun : 196p.
- Rajan, K., Dinesh, D. and Kasthuri Thilagam, V. (2015). Integrated Plant Nutrient System for Maize (*Zea mays L.*) with Reference to Phosphorous Nutrition. Lambert Academic Publishing, Germany. ISBN.No.978-3-659-71208-1.
- Bandyopadhyay, N.R.; Singh, Narendra and Kumar, Ambrish (Eds) (2016). Tradition Irrigation systems in India. Institution of Engineers (India), Gokhale Road, Kolkata : 325p.
- Chaturvedi, O.P.; Mehta, H.; Raizada, A.; Singh, C.; Tomar, J.M.S.; Rathore, A.C.; Kaushal, R.; Jayaparkash, J.; Gupta, A.K. and Kadam, D.M. (Eds) (2016). 60 Years of Research on Soil and Water Conservation in North-West Himalaya - Plant Science. Division of Plant Science, ICAR-IISWC, Dehradun : 100p.
- Sharma, N.K.; Dadhwal, K.S.; Ghosh, B.N.; Mandal, D.; Alam, N.M.; Rajeev, R. and Singh, R.J. (eds) (2016). 60 Years of Research on Soil and Water Conservation in North-West Himalaya - Conservation Agronomy & Soil Science. Division of Soil Science & Agronomy, ICAR-IISWC, Dehradun : 114p.

**Manual**

- Kasthuri Thilagam, V.; Manivannan, S. and Khola, O.P.S. (Eds.) (2016). Training Manual on 'Soil and Water Conservation Technology Transfer and Withdrawal Strategy in Watershed Management' ICAR-IISWC, Regional Centre, Udhamandalam, The Nilgiris (Tamil Nadu) : 105p.
- Manivannan, S. and Kasthuri Thilagam, V. (Eds.) (2016). Training manual on 'Soil and Water Conservation Technologies for Dryland Agriculture' (in Tamil). ICAR-IISWC, Regional Centre, Udhamandalam, The Nilgiris (Tamil Nadu) : 98p.
- Manivannan, S.; Kasthuri Thilagam, V.; Kumaravadivelu, P.; Raja, P. and Raghupathy, R. (Eds.) (2016). 'Soil and Water Conservation Technologies for Sustainable Agriculture' (in Tamil). ICAR-IISWC Regional Centre, Udhamandalam and KVK, Coimbatore : 126p.
- Manivannan, S.; Khola, O.P.S. and Kasthuri Thilagam, V. (Eds.) (2016). Hand Book on Field Engineering Structures for Forest Watershed Management. ICAR- IISWC, Regional Centre, Udhamandalam, The Nilgiris, Tamil Nadu : 154p.
- Sharma, N.K.; Singh, Raman Jeet and Mehta, Harsh (2016). Training Manual on 'Conservation Agronomy' (Edited by Lakhan Singh). Advanced Skill Development Centre, Division of Human Resource Development and Social Science Division, ICAR-IISWC, Dehradun : 100p.
- Tomar, J.M.S.; Rathore, A.C.; Kaushal, R.; Kumar, Raj; Jayaprakash, J.; Mehta, H. and Chaturvedi, O.P. (2015). Agroforestry a Research Manual. CSWCRTI (ICAR), Dehradun. Publisher - Bishen Singh Mahendra Pal Singh, New Connaught Place, Dehradun : 108p.

**Book Chapters**

- Bihari, Bankey; Singh, Lakhan and Dhyani, B.L. (2016). Sustainability issues in community based watershed management programme. *In: Family Farming - Challenges and Opportunities*, edited by Bitan Mandal, *et al.* Renu Publisher, New Delhi : 309-314.
- Biswas, H.; Lakaria, B.L. and Katiyar, V.S. (2016). Land-capability and land-use optimization. *In: Gupta, A.K., Nair, S.S. and Yunus, M. (Eds.) Land-Use and Environmental Resources: Methods and Management.* Associated Publishing Company, New Delhi : 11-24.
- Kumar, Ambrish; Dhyani, B.L.; Mishra, P.K. (2016). Sustainable Water Resource Management for Efficient Irrigation System. *In: Tradition irrigation systems in India* (Eds. N.R. Bandyopadhyay, Narendra Singh and Ambrish Kumar). Institution of Engineers (India) Gokhale Road, Kolkata : 117-123.



- Lenka, N.K.; Rao, B.K. (2016). Hill soils: Erosion management. Encyclopedia of Soil Science, Third Edition. DOI: 10.1081/e-ess3-120052909.
- Mandal, Debashis; Sharma, N.K.; Ranjan, Rajeev and Mishra, P.K. (2015). Modelling the impact of climate change on soil erosion in stabilization and destabilization of soil organic carbon In: Crop growth simulation modelling and climate change (Eds. Mohanty *et al.*). Scientific Publishers, India : 87-109.
- Manivannan, S.; Kholra, O.P.S.; Kannan, K. and Rajan, K. (2015). Application of Jute Geotextiles for Hill Slope Stabilization. In: Three Decades of Geosynthetics in India - A Commemorative Volume. Published by Central Board of Irrigation and Power, New Delhi. (ISBN: 81-7336-335-8).
- Mehta, H.; Dar, M. Ayoub; Ranjan, Rajeev; Dadhwal, K.S. and Chaturvedi, O.P. (2014). Performance of Bhimal (Grewiaoptiva J.R. Drummond ex Burret) based agroforestry systems on Farmer fields in the north western Himalayas. In: Managing natural resources in the dry lands: Constraints & opportunities (Eds. Raizada et al.) : 143-152.
- Mehta, Harsh; Tomar, J.M.S.; Mandal, D.; Rathore, A.C.; Kaushal, R.; Sharma, S.K.; Dar, M. Ayoub and Chaturvedi, O.P. (2015). Minor millets based agroforestry of multipurpose tree species of Bhimal (Grewia optiva drummond J.R. ex Burret) and mulberry (Morus alba) for resource conservation and production in North Western Himalayas. Advances in Soil and Water Resource Management for Food and Livelihood Security in Changing Climate. Suraj Bhan and Sanjay Arora (Ed.). Soil Conservation Society of India NASC Complex, Pusa, New Delhi : 686-693.
- Mishra, P.K.; Kaushal, R. and Chaturvedi, O.P. (2015). Grassland for Soil and Water Conservation. In: Grassland, A Global Resource Perspective. Ghosh, P.K.; Mahanta, S.K.; Singh, J.B.; Pathak, P.S. (eds). Range Management Society of India, Jhansi : 247-269.
- Narayan, Dev and Tiwari, S.P. (2015). Natural Resource Management Practices for Sustainable Production in Central India. In. (Editors Suraj Bhan and Sanjay Arora) Advances in soil and water Resource Management for food and livelihood security in changing climate. Soil Conservation Society of India, New Delhi : 69-76.
- Pande, V.C. and Naik, Umesh M. (2015). Issues and perspectives in Groundwater Management. In (Eds.) Meena, M.S., Singh, K.M. and Bhatt, B.P. Water Management in Agriculture: Lessons Learnt and Policy Implication. Narendra Publishing House, New Delh : 95-105.
- Pande, V.C.; Bagdi, G.L. and Sena, D.R. (2015). Understanding interactions in local governance of community based natural resources: Implications for policy interventions. In: 'Managing Natural Resources in the Dry lands - Constraints and Opportunities' Eds. A. Raizada, S.L. Patil, Hritick Biswas, K.K. Reddy, O.P.S. Kholra, D. Mandal, O.P. Chaturvedi and P.K. Mishra. Satish Serial Publishing House, Delhi : 363-376.
- Pramanik, Monalisha and Ranjan, Rajeev (2015). Aqua crop modeling: A water driven simulation model. In: Crop growth simulation modeling and climate change (Eds. Mohanty *et al.*). Scientific Publishers, India : 171-185.
- Rajan, K.; Dinesh, D. and Kasthuri V. (2015). Integrated plant nutrient system for maize (*Zea mays L.*) with reference to phosphorous nutrition. Lambert Academic Publishing, Germany. ISBN.No.978-3-659-71208-1.
- Ravindra, N.; Chavan, S.B.; Uthappa, A.R.; Sridhar, K.B.; Kumar, Manish and Kumar, D. (2015). Scope of TBOs promotion through forest department. In: National Workshop on TBOs – Way Ahead. (Eds. Vimala Devi et al.) Published by: DAC & FW, MoA& FW, GOI, New Delhi and ICAR- CAFRI, Jhansi. Army Printing Press, Lucknow: 97-110.
- Sharma, H.C. and Kumar, Ambrish (2016). Land Evaluation for Capability, Irrigability and Suitability for Major Crops and its Management. In: Tradition irrigation systems in India (Eds. N.R. Bandyopadhyay, Narendra Singh and Ambrish Kumar). Institution of Engineers (India), Gokhale Road, Kolkata : 103-110.
- Sharma, N.K.; Lekh Chand; U.K. Maurya and Raman Jeet Singh (2015). Conservation Approaches for Sustainable Agricultural Production in North-Western Himalayan Region. In: Advances in Soil and Water Resource Management for Food and Livelihood Security in Changing Climate (Eds: Suraj Bhan and Sanjay Arya), Soil Conservation Society of India, New Delhi : 414-429.
- Singh, P.K.; Mishra, S.K. and Kumar, Ambrish (2016). Irrigation Scheduling Systems: Principles and Applications. In : Tradition irrigation systems in India (Eds. N.R. Bandyopadhyay, Narendra Singh and Ambrish Kumar). Institution of Engineers (India), Gokhale Road, Kolkata : 66-84.

Singh, Raman Jeet; Mandal, D.; Ghosh, B.N.; Alam, N.M.; Chand, L. and Sharma, N.K. (2015). Efficient soil and water management under limited water supply condition. *In: Integrated Soil and Water Resource Management for Livelihood and Environmental Security* (Eds. D.J. Rajkhowa, Anup Das, S.V. Ngachan, A.K. Sikka, M. Lyngdoh) Chapter 1. Publisher : ICAR Research Complex for NEH Region, Umiam (Meghalaya), India : 1-18.

Tewari, S.; Banik, R.L.; Kaushal, R.; Bhardwaj, D.R.; Chaturvedi, O.P. and Gupta, A.K. (2016). Bamboo based agroforestry systems. *In: Bamboos in India*. Kaushik, S; Singh YS; Kumar, D; Thapliyal, M; Barthwal, S (eds). ENVIS Centre of Forestry, National Forest Library and Information Centre. FRI, Dehradun : 261-284.

Tiwari, S.P.; Narayan, D.; Durbude, D.G.; Prakash, O.; Biswas, H.; Ramesha, M.N.; Adhikary, P.P. and Pramanik, M. (2015). Rainwater harvesting for sustainable development- A case study from drought prone Bundelkhand region of India. *In: (Editors Suraj Bhan and Sanjay Arora) Advances in soil and water Resource Management for food and livelihood security in changing climate*. Soil Conservation Society of India, New Delhi : 329-337.

### Technical Report

Manivannan, S., Khola, O.P.S., Kannan, K. and Rajan, K. (2015). Completion Report on 'Prototype Study on Efficacy of Jute Geo-Textiles for Hill Slope Stabilisation Using Tea Plants. IISWC RC, Udhagamandalam.

### Radio/TV Talks

Dinesh, D. (2015). On-going research activities of Indian Institute of Soil and Water Conservation. Podigai TV Channel (Doordharshan), Tamil on September 29.

Dinesh, D. (2015). Soil fertility management in Nilgiris. Podigai TV Channel (Doordharshan, Tamil) on September 25.

Kannan, K. (2015). Biological bench terraces. Podigai TV (Doordharshan, Tamil) Channel on Sept. 24.

Kannan, K. (2015). Biological Bench terraces. Podigai TV Channel on October 02.

Kannan, K. (2015). Economic utilization and protection of bench terrace riser protection through tea planting on the riser. Podigai TV Channel on October 05.

Kannan, K. (2015). Green manures for the hilly regions. Podigai TV Channel on October 02.

Kannan, K. (2015). IISWC activities in Iduhati Model Watershed under HADP. Podigai TV Channel (Doordharshan, Tamil) on September 18.

Kannan, K. (2015). Water resource management in the hilly regions. Podigai TV (*Doordharshan, Tamil*) Channel on September 25.

Kannan, K. (2016). Conservation of swamps and Environmental issues in the Nilgiris. AIR on March 21.

Khola, O.P.S. (2015). Background of IISWC, Udhagamandalam. Podigai TV Channel (*Doordharshan, Tamil*) on September 21.

Kumar, Ambrish (2016). TV talk on Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) at DD Kishan, Shimla (H.P.) on February 16.

Kumar, Ashok (2015). भूमि एवं जल संरक्षण के उपाय। AIR, Kota on June 8.

Manivannan, S. (2015). Grass structures for structure of soil erosion at Nilgiris. Podigai TV Channel on October 01.

Manivannan, S. (2015). Rainwater harvesting and its multiple use. Podigai TV (*Doordharshan, Tamil*) Channel on September 22.

Manivannan, S. (2015). Soil, Water and Environmental Issues in the Nilgiris. AIR on June 9.

Meena, G.L. (2015). *Mittee Parikshan Ke Phayde*. AIR, Kota on September 29.

Meena, G.L. (2015). *Mrida Ki Urvarkata Banayen-Mrida Swasthya Badhayen*. AIR, Kota on May 15.

Meena, H.R. (2015). Sabjiyon anam bagvani me sam-samyiki krishi karyakarm in a live phone in programme) at AIR, Kota on 02/11/2015.

Meena, H.R. (2015). बगीचा लगाने का वैज्ञानिक तरीका (Live phone in programme). AIR, Kota on July 22.

Meena, H.R. (2016). उद्यानिकी फसलों का कीट-रोगों से बचाव (a live phone in programme) AIR, Kota on February 15.

Mehta, Harsh (2015). गिरता भूजल स्तर व समाधान। Radio talk recorded on 30.04.2015 by Prasar Bharti and aired on 08.05.2015.

- Mehta, Harsh (2015). तोरिया की खेती। Radio talk recorded on 02.09.2015 by Prasar Bharti and aired on 09.09.2015
- Mehta, Harsh (2016). फसलों को पाले से कैसे बचाया जाए। Radio talk recorded on 19.01.2019 by Prasar Bharti and aired on 26.01.2016.
- Mina, B.L. (2015). खड़ी फसलों में पोषक तत्व प्रबन्धन एवम शस्य क्रियायें। AIR, Kota on July 24.
- Mina, B.L. (2015). मृदा स्वास्थ्य एवं जल प्रबंधन। AIR, Kota on November 18.
- Narayan, D. (2015). *Kaise barahein Bhumi ki urvara shakti*. AIR, Gwalior, September 15.
- Narayan, D. (2016). *Grism Kalin Urd Moong ki Unnat Kheti*. AIR, Gwalior, February 26.
- Rajan, K. (2015). Services of Central Laboratory – About central lab and its activities. Podigai TV (*Doordharshan, Tamil*) Channel on September 8.
- Rajan, K. (2015). Services of Central Laboratory - Instruments and equipments for soil analysis. Podigai TV Channel (*Doordharshan, Tamil*) on September 18.
- Rajan, K. (2015). Soil fertility and crop production. Podigai (*Doordharshan, Tamil*) TV Channel on September 15.
- Rajan, K. (2015). Soil sampling for soil testing. Podigai TV Channel (*Doordharshan, Tamil*) on September 22.
- Singh, R.K. (2015). ग्रीष्म कालीन गहरी जुताई एवं मृदा परीक्षण (Live Phone programme). AIR, Kota on April 29.
- Singh, R.K. (2016). Use of surface water, groundwater and recycled water for crop production (*Live Phone programme*). AIR Kota on February 17.
- Sundarambal, P. (2015) Extension services of IISWC, Udhagamandalam. Podigai TV (*Doordharshan, Tamil*) Channel on September 21.
- Sundarambal, P. (2015). Capacity building programmes in Iduhatti watershed under Hill Area Development Programme. Podigai TV Channel on September 28.