



Brief C.V.

Dr. J.S. Samra, CEO, National Rainfed Area Authority
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Dr. Jagir Singh Samra is holding the post of CEO, National Rainfed Area Authority in the pay scale of Rs.80,000 (fixed) since May, 2007. Before that he was Deputy Director General(NRM), ICAR for about 7 years and Director at Central Soil & Water Conservation, Research and Training Institute, Dehradun for about six years. He also concurrently managed research and development portfolio of the Hills and Mountains Agro-eco-System of World Bank aided National Agriculture Technology Project for 3 years. He has more than 12 years experience in posts equivalent to professor, 16 years in administrative posts and 33 years of total service in ICAR. He was on Governing Board of three agricultural universities. He is an Alexander von Humboldt fellow at West Germany and European Fellow at Swiss Federal Institute of Technology, Zurich, Switzerland. He was member of Steering Committee of Challenge Programme on Water & Food, International Water Management Institute (IWMI), Australian Centre for International Agriculture and Research (ACIAR), International Council for Research in Agro Forestry (ICRAF), India-US Agriculture Knowledge Initiative, etc. He has 37 years experience of guiding students, research, extension, administration and policy advocacy in agriculture. Dr. Samra is member of several policy formulating bodies, working groups of Planning Commission and committees on agriculture.

He has rendered 16 national and international consultancies and project evaluations in agriculture. He guided several Ph. D. students for various universities/institutions.

He is decorated with six national awards in agriculture and forest farming. He is a Fellow of 3 international and national academies and President/member of several professional societies. He has published 239 research papers, books, popular articles and bulletins including 10 in American and 21 in European Journals and others of international repute.

**Summary of professional experience of
Dr. J.S. Samra in agriculture**

S. No.	Position/Equivalent	Duration Years Months		Scale (in Rs.)
A. Research, Teaching, Extension (20years and 9 months)				
1	Assistant Professor (Junior Soil Chemist, S1)	4	1	700-1,300 (pre-revised)
2	Associate Professor / Head (SRO, S2)	4	3	1,100-1,600 (pre-revised)
3	Professor (PS)	12	5	4,500-7,300 (pre-revised)
Sub Total		20	9	
B. Others				
	Governing Board Member			As ICAR nominee
	i) PAU, Ludhiana	3	0	
	ii) GBPUAT, Pant Nagar	3	0	
	iii) S.K. Dantewada Agriculture University	3	0	
Sub Total		16	6	
Grand Total		37	3	

Detailed Curriculum Vitae of

Dr. J.S.Samra,

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Name	:	DR. JAGIR SINGH SAMRA
Nationality	:	Indian
Date of Birth	:	18.04.1947
Marital status	:	Married
Children	:	One, 30 years old daughter(married)

Qualifications

Sl.No	Degree obtained	University	Date of passing	Division	GPA/ Percentage	Subject
1.	Ph.D.	Indian Agril. Res. Institute, New Delhi	Oct., 1973	I	3.87/4.00	Soil Sci. & Agril. Chem.
2.	M.Sc.	-----do-----	Sept., 1970	I	3.84/4.00	Soil Sci. & Agril. Chem.
3.	B.Sc.	Punjab University, Chandigarh	April, 1968	I	70.20%	Agriculture

GPA = Grade Point Average

Overseas experience

Name of country	Period	Designation	No. of years/ Assignment details
Univ. of Hannover, Germany	Sept. 1987 to June, 1989	Alexander von Humboldt Foundation fellow	Two years, Natural Resource Inventorying
Swiss Federal Institute of Tech. (ETH), Zurich, Switzerland	01.09.88 to 31.12.88	European fellow	4 months, Modelling of spatial variability in growth
Ankara, Turkey	30.09.95 to 30.11.95	World Bank Consultant, Watershed Specialist	2 months, Consultant for World Bank funded Eastern Anatolia Watershed Rehabilitation Project

Past employment particulars

Employer	Designation with Institution & place of work	Period (from-to)	Scale of pay (Rs.) per Month	Remarks
Planning Commission, GOI	CEO, NRAA	14-5-2007 to till date (4 years)	Rs.80,000/- (fixed)	Deputation/contract
ICAR, New Delhi	Deputy Director General (NRM) New Delhi	04.08.2000 - 13-5-2007 (6 years 9 months)	Rs. 75,000 (fixed)	Permanent
ICAR, New Delhi	Agro-Ecosystem Director (Hills & Mountains)	27.09.97 - 04.08.2000 (Concurrent)	16400-22400	Additional Charge of a World Bank Project
ICAR, New Delhi	Director, CSWCRTI*, Dehradun	11.11.94 - 03.08.2000 (5 years 9 months)	16400-22400	Permanent (Tenurial)
ICAR, New Delhi	Officer-in-charge, CSWCRTI Research Centre, Chandigarh	16.03.90 - 10.11.94 (4 years 8 months)	4500-7300	Permanent
ICAR, New Delhi	Principal Scientist	01.01.86 - 15.03.90	4500-7300	Permanent
	Scientist S-3	01.07.82 - 31.12.85 (7 years 8 months)	1500-2000	
	Scientist S-2	17.06.82 - 30.06.82	1100-1600	
*FRI & Colleges, Dehradun	Sr. Research Officer	10.03.78 - 16.06-82 (4 years 3 months)	1100-1600	Deputation
ICAR, New Delhi	Scientist S-1 and Jr. Soil Chemist	14.08.74 - 09.03.78 (3 years 7 months)	700-1300	Permanent
CSIR	Pool Officer	03.02.74 - 12.08.74 (6 months)	700 fixed	Temporary

*CSWCRTI = Central Soil & Water Conservation Research & Training Institute, Dehradun

*FRI=Forest Research Institute

Consultancies

1. Turkey from 30.09.95 to 30.11.95 as Watershed Specialist in World Bank aided project on Watershed Management in Eastern Anatolia.
2. Project Report on Watershed Management of Mat River Catchment in Mizoram (India), March, 1997.
3. Case study on local water harvesting technologies and management systems in micro-watershed of UP hills, India (October, 1998), ICIMOD, Nepal.
4. Evaluation of National Watershed Development Project for Rainfed Agriculture, Haryana, 1998.
5. Contract research for National Watershed Development Project for Rainfed Agriculture, Haryana, 1998.
6. Soil and Water Conservation-cum-Land Development Plans of Sirumalai Farm, Dindigal, Tamil Nadu.
7. Application of Jute Geotextile for rehabilitation of mine-spoiled watershed (Indian Jute Industries Research Association, Calcutta), 1998.
8. Bench Mark Survey of M.Palada (KG-4) watershed in Kundah catchment, Nilgiris, 1998 sponsored by Agricultural Engineering Department (River Valley Project), Coonor, Tamil Nadu State, Govt. of India.
9. Mid-term review of Directorate of Watershed Development (Rajasthan) and India Canada Environment Fund (ICEF) Pushkar Lake Project from 13.12.98 to 29.12.98.
10. Mid-term review of BAIF-ICEF Project (Karnataka) from 18.02.99 to 28.02.99.
11. Report on “Sustainable drinking water supply in the rural watersheds of humid tropics in Kerala” of Malanadu Development Society, Kanjirapally, Kerala sponsored by India-Canada Environmental Fund, New Delhi from 20.07.99 to 26.07.99.
12. Participatory approaches for “Sustainable development and water resource management of Loktak Lake, Imphal, Manipur” from 04.08.99 to 09.08.99.
13. On the spot interaction visit to Indian Farm Forestry Development Cooperative (IFFDC) Programme of Madhya Pradesh from 03.04.99 to 09.04.99.
14. Rural poverty in semi-arid tropics in western India – profile determinants and possible interventions of Global Mechanism/IFAD for 35 days during August to October, 2003.
15. State Development Report on Lakshadweep. January to May, 2004. Planning Commission of India.

16. Drought Monitoring and Declaration in India. Ten days consultancy for International Water Management Institute, Colombo, Sri Lanka, 2004.

Membership of Policy making bodies

1. Juror for awards on “Environment Reporting and Corporate Governance”.
2. Chairman, Soil Quality Improvement Committee, Bureau of Indian Standards.
3. Member, National Committee on Training to look into the training requirements under common guidelines for Watershed Development Programme, Ministry of Rural Areas and Employment, Department of Wastelands Development, Govt. of India, New Delhi.
4. Member, Core Group for preparation of operational strategy for Watershed Development, Ministry of Rural Areas & Employment, Department of Wastelands Development, Govt. of India, New Delhi.
5. Member, Working Group No. 3, Science & Technology Advisory Committee (STAC) for the Department of Science & Technology, Govt. of India, New Delhi.
6. Member, National Committees of Soil Conservation Division, Ministry of Agriculture, Government. of India, New Delhi.
7. Member, Research Steering Committee of the Management of Environmental Resources by Communities (MERC) Programme of the Aga Khan Foundation, New Delhi.
8. Member Secretary, ICAR Regional Committee No. I.
9. Member, Governing Board, GBPUA&T, Pantnagar University, Pantnagar, Uttaranchal.
10. Member, Science Advisory Committee, G.B.Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora.
11. Member, National Committee for Watershed Training (NCWT), Govt. of India, Ministry of Rural Development, Department of Land Resources, Nirman Bhawan, New Delhi.
12. Co-Chairperson in the Working Group on Minor Irrigation and Watershed Management for the Twelfth Five Year Plan (2012-2017), Planning Commission, New Delhi
13. Member, Steering Committee for the Evaluation Study on the programme of Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA), Planning Commission, New Delhi
14. Chairman, Expert Group for Implementation of Mahatma Gandhi NREGA on Watershed Platform, Dept. of Rural Development, Krishi Bhawan, New Delhi
15. Member Secretary, Advisory Committee on implementation of Drought Mitigation Strategies in Bundelkhand region, Planning Commission, New Delhi
16. Member, Steering Committee to evaluate, review, recommend and monitor project proposals under Climate Change Programme Division of DST, New Delhi.

Guidance to Post-Graduate students (four)

Ph.D. programme of two students of Agra University, One student of H.N.Bahuguna University, Srinagar (Garhwal) and one student of Meerut University was completed under my guidance.

2. The ICAR Team Research Award, 1994-96 in Natural Resource (Watershed) Management.
3. The ICAR Award for Team Research for the biennium 1997-98 for outstanding research contribution in the field of Natural Resource Economics.
4. The Hem Prabha-S.N.Gupta Medal (2000) from the Institution of Engineers (India), Calcutta in Watershed Management.
5. Vasant Rao Naik Award (2000) of Rs. 1,00,000. Rainfed Agriculture.
6. Dr. N.S. Randhawa Memorial Award for the Biennium 2003-04 from NAAS in the field of Natural Resources Conservation and Management, Environment Sciences.

Membership of Societies

President, Indian Association of Soil and Water Conservationists (1995-2001), Dehradun.

Life Member, Indian Society of Soil Science, New Delhi.

Life Member, Indian Society of Agronomy, New Delhi.

Life Member, Soil Conservation Society of India, New Delhi.

Life Member, Tree Growers' Association, Solan.

Life member for the promotion of wasteland development

Fellowships

1. National Academy of Agricultural Sciences of India.
2. Alexander von Humboldt Foundation, Germany.
3. Fellow of the Indian Society of Soil Science

References

1. Dr. Montek Singh Ahluwalia,
Deputy Chairman, Planning Commission,
Yojana Bhawan, New Delhi – 110001, India.
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3. Dr. R.S. Paroda,
Ex-Secretary, DARE & DG (ICAR)
TAAS (IARI), NASC Complex, DPS Marg, Pusa,
New Delhi – 110012, India
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Summary of Publications

1. Referred research journals	
i) American journal	10
ii) European journal	21
iii) Indian journal	98
Sub total	129
2. Books	09
3. Book Chapters	29
4. Conf./Seminar/Symposia (International & national)	39
5. Popular articles	11
6. Technical Bulletins	22
Grand total	239

Spread of publications (Total 239) over journals

(Updated upto February, 2011)

	Research Journals(129)	No. of publications
	American Journals (10)	
1.	Crop Science	01
2.	Forest Science	01
3.	Agronomy Journal	01
4.	Soil Sci. Soc. Am. Journal	02
5.	Soil Science	04
6.	Comm. Soil Sci. & Pl. Analysis	01
	European Journals (21)	
7.	Soil Technology	04
8.	Agroforestry Systems	03
9.	Scientia Horticulture	03
10.	Journal of Hydrology	02
11.	Gender, Technology and Development	01
12.	Plant Breeding	01
13.	Acta Horticulturae	01
14.	Forest Ecol. Mangm.	01
15.	Potash Rev. (Supl.)	01
16.	AMBIO	01
17.	Maydica	01
18.	Publ. Tropical Agric. Res. Centre	01
19.	Hydrological Sciences Journal	01
	Indian Journals (98)	
20.	Indian J. Soil Conserv.	24
21.	Indian J. Hort.	14
22.	Indian For.	11
23.	Indian Soc. Soil Sci.	09
24.	Journ. Himalayan Geol.	01
25.	Van Vigyan	02
26.	Trop. Ecology	01
27.	Indian Farming	02
28.	The Administrator	02
29.	IE(I) Journal-CV	02
30.	J. Soil Water Cons. India	02
31.	Asia-Pacific Journ. Of Rural Dev.	02
32.	Publ. Potash & Phosphorus Instt. Of Canada	01
33.	Indian J. Forestry	02
34.	Indian Nat. Sci. Acad.	01
35.	Punjab Horticulture	01
36.	Indian J. Agri. Sci.	01
37.	Indian J. Agron.	01
38.	Prog. Horticulture	01
39.	Journ. of Rural Development	02

40.	J. Trop. Forest Sci.	01
41.	Journal of The Institution of Engineers (India)	01
42.	Allelopathy Journal	02
43.	Fishing Chimes, Nat. Fish. J. India	01
44.	IASSI Quarterly	01
45.	Indian J. Agroforestry	01
46.	Range Management & Agroforestry	01
47.	Current Sciences	01
48.	Agricultural Economics Research Review	01
49.	Souvenir of Indian Society of Water Management	01
50.	Ph.D. Thesis	02
51.	Indian Journal of Genetics and Plant Breeding	02
52.	Journal of Soil Salinity and Water Quality	01
	Total	129
	Books	09
	Book Chapters	29
	Conf./Seminar/Symposia (internl. & national)	39
	Popular articles	11
	Technical Bulletins	22
	Grand Total	239

Detailed list of publications

i) Papers published in Research Journals

129. **Samra J.S. (2010).** Horticulture Opportunities in Rainfed Areas - Indian J. Horti.67 (1) : 1-7. **INDIA**
128. **Samra J.S. (2009).** Risk Management in Watershed Development - J. of Soil Salinity and Water Quality. I : 25-20 **INDIA**
127. **J.S. Samra and K.D. Sharma (2009):-** “Watershed development: how to make ‘invisible’ impacts ‘visible’?” (Current Science, 96, (2) : Pp 203 to **INDIA**
126. **Samra J.S.(2008),** Gajja B.L., Rajendra Prasad, R.S. Mertia and Khem Chand and– “Impact of Shelterbelts on Net Returns from Agricultural Production in Arid Western Rajasthan” (Agricultural Economics Research Review - Pp 118-122).(Publisher: Dr. P.K. Joshi, Venus Printers & Publishers, B62/8, Naraina Industrial Area Phase II, New Delhi-28). **INDIA**
125. **Samra. J.S. (2007)** S.K. Dhyani, Ajit, A.K. Handa and Uma. Forestry to Support Increased Agricultural Production: Focus on Employment Generation and Rural Development **INDIA**
124. **Samra , J.S.(2007)** Heavy Metal Contaminated Waters and their Remediation for Food Safety – Souvenir of Indian Society of Water Management (Ensuring water and environment for prosperity and posterity Pp 6-11. **INDIA**
123. Agnihotri, Y., **Samra, J.S.,** Aggarwal, R.K., Mittal, S.P., Bansal, R.C., Yadav, R.P. and Prasad, Ram (2004). Impact analysis of a watershed management project in Shivalik foothills through multiple discriminant function approach. Indian Journal of Soil Conservation. Vol.32 No.2. pp.91-94. **INDIA**
122. **Samra, J.S. (2003).** Impact of Climate and Weather on Indian Agriculture. Indian Society of Soil Science, Vol.51, No.4, pp 418-430. **INDIA**
121. Lal, H. **Samra, J.S.** and Arora, Y.K. 2003. Kinnow Mandarin in Doon Valley: 2. Effect of irrigation and mulching on water use, soil temperature, weed population and nutrient losses. Indian J.Soil Cons.31(3): 281-286. **INDIA**
120. Lal, H. **Samra, J.S.** and Arora, Y.K. 2003. Kinnow Mandarin in Doon Valley: 1. Effect of Irrigation and Mulching on Growth, Yield and Quality. Indian J.Soil Cons.31(2): 162-167. **INDIA**
119. **Samra, J.S. 2002.** Participatory Watershed Management in India. Journal of the Indian Society of Soil Science. **50** (4): 345-351. **INDIA**

118. Sikka, A.K., **Samra, J.S.**, Sharda, V.N., Samraj, P. and Lakshmanan, V 2003. Low flow and high flow responses to converting natural grassland into bluegum (*Eucalyptus Globulus*) in Nilgiris watersheds of South India. Journal of Hydrology **270** :12-26. **NETHERLAND**
117. Sekhon, R.S., Dhillon, B.S., Saxena, V.K. and **Samra, J.S.** 2002. Realized response to different selection criteria in maize (*Zea mays L.*). The Indian J. Genet. and Plant Breeding. **62**(4): 309-311. **INDIA**
116. **Samra J.S.**, Sharda V.N. 2002. Hydrological simulation of a conservation bench terrace system in a subhumid climate. Hydrological Sciences Journal – des Sciences Hydrolologiques. **47**: 549-561. **ENGLAND**
115. **Samra J.S.**, Dhyani S.K. and Sharma A.R. 2002. Sustainable agriculture in north-eastern hill region. Range Management & Agroforestry. **23**(1): 1-9. **INDIA**
114. Arya, S.Lata, **Samra, J.S.** and Aggarwal, R.K. 2001. Contribution of Beneficiary Participation in Project Effectiveness in Watershed Management Projects : A case study in Shivalik foothill region in Northern India. Asia Pacific Journal of Rural Development. XI : 90-112 **INDIA**
113. Bagdi, G.L., **Samra, J.S.** and Kumar, V. 2002. People's participation in soil and water conservation programme in Sardar Sarovar Project catchment. Indian J. Soil Cons. **30**(2): 179-182. **INDIA**
112. Bagdi, G.L., **Samra, J.S.** and Kumar, V. 2001. Adoption of soil and water conservation technologies by the farmers of Sardar Sarovar Project catchment in Gujarat state. Indian J. Soil Cons. **29**(1): 65-68. **INDIA**
111. Mishra, A.S. and **Samra, J.S.** 2001. Participatory Generation of Water Resource through Community Action in Institute Village Linkage Programme. The Administrator, XLIV : 180-192 **INDIA**
110. Ali, S., Prasad, S.N., Singh, K.D. and **Samra, J.S.** 2001. Evaluation of some parameter of USLE for various cropping management practices in south-eastern Rajasthan. Indian J. Soil Cons. **29**(3): 235-240. **INDIA**
109. Ali.S, **Samra, J.S.**, Singh, K.D. and Prasad, S.N. 2002. Soil loss estimation model for south-eastern Rajasthan. J. of The Institution of Engineers. 83: 1-4. **INDIA**
108. Dhyani, B.L., Babu, Ram, **Samra, J.S.** and Kumar, Nirmal. 2001. Farmers participation and attitudes towards soil conservation measures – a case study from Uttaranchal. Indian Journal of Hill Farming. **14** (1): 1-6. **INDIA**
107. Sharma, N.K., **Samra, J.S.** and Singh, H.P.. 2001. Influence of boundary plantation of poplar (*Populus deltoids M.*) on soil-water use and water use efficiency of wheat. Agricultural Water Management. **51**: 173-185. **NETHERLAND**
106. Kurothe, R.S., Challa,O., **Samra, J.S.** and Velayutham M. 2001. Assessment of Soil erosion in Maharashtra. Indian J. of Soil conservation. **29** (2): 133-137. **INDIA**

105. Sikka, A.K., Singh, D.V. and **Samra, J.S.** 2001. Characteristic features, zonation and problems of western ghats for natural resource management. Indian J. of Soil conservation. **29** : 107-117. **INDIA**
104. Sharma, N.K., **Samra, J.S.** and Singh, H.P.. 2001. Poplar (*Populus Deltoides*) based Agroforestry systems for an alluvial soil under irrigated condition in Western Uttar Pradesh. The Indian Forester. **127**:61-69. **INDIA**
103. Saroj, P.L., **Samra, J.S.**, Sharma, N.K., Dadhwal, K.S., Shrimali, S.S. and Arora, Y.K. 2000. Mango based Agroforestry Systems in Degraded Foothills of North-Western Himalayan Region. Indian J. Agroforestry. **1**:121-128. **INDIA**
102. Raizada, A. and **Samra, J.S.** 2000. Rehabilitation of an abandoned limestone mine in the lower western Himalayas – Impact assessment on vegetation development and floristic Diversity. The Indian Forester. **126**:842-855. **INDIA**
101. Sharma, N.K., **Samra, J.S.** and Singh, H.P. 2000. Effect of leaf litter of poplar on *Phalaris minor* weed. Allelopathy Journal. **7**:243-253 **INDIA**
100. **Samra, J.S.** and Singh, Shiv Charan. 2000. Silvopasture systems for soil, water and nutrient conservation on degraded land of Shiwalik foothills (sub-tropical northern India). Indian J. Soil Conserv. **28**:35-42. **INDIA**
99. Singh, R.K., Narain, P., Dhyani, S.K. and **Samra, J.S.** 2000. The rooting behaviour of four agroforestry species in the Western Himalayan valley region. J. Trop. Forest Sci. **12**:207-220 **INDIA**
98. Muruganandam, M. and **Samra, J.S.** 2000. Mountain Fisheries of India : Developmental Prospects through Integrated Watershed Management. Fishing Chimes, Nat. Fish. J. India, **20**(1):21-28. **INDIA**
97. Sharma, N.K., **Samra, J.S.** and Singh, H.P. 2000. Effect of aqueous extracts of *Populus deltoides* M. on germination and seedling growth. 1. Wheat. Allelopathy J. **7**:56-58. **INDIA**
96. Samra, J.S. 1999. Role of watershed planning and management in sustainable agricultural production under rainfed agro-eco system. IASSI Quarterly. **17**:142-147. **INDIA**
95. Vishwanatham, M.K., **Samra, J.S.** and Sharma, A.R. 1999. Biomass production of trees and grasses in silvopasture system on marginal lands of Doon Valley of north-west India. 1. Performance of tree species. Agroforestry Systems. **46**:181-196. **NETHERLAND**
94. **Samra, J.S.**, Vishwanatham, M.K. and Sharma, A.R. 1999. Biomass production of trees and grasses in silvopasture system on marginal lands of Doon Valley of north-west India. 2. Performance of grass species. Agroforestry Systems. **46**:197-212. **NETHERLAND**
93. **Samra, J.S.**, 1999. Peoples participation and community organizations in the management of watersheds. J. of Rural Dev. **18**:421-437. **INDIA**

92. Kurothe, R.S., **Samra, J.S.** and Samarth, R. 1999. Optimum design of contour bunds: A case study of Navamota Watershed (Gujarat). *Indian J. Soil Conserv.* **27**(1):17-21. **INDIA**
91. **Samra, J.S.** and Singh, Shiv Charan. 1998. Evaluation of *Acacia nilotica* based silvipasture system on degraded land of Shivalik foothills. *Indian J. Soil Conserv.* **26**:226-233. **INDIA**
90. Sharda, V.N., Samraj, P., **Samra, J.S.** and Lakshmanan, V. 1998. Hydrological behaviour of first generation coppiced bluegum plantations in the Nilgiri sub-watersheds. *J. of Hydrology.* **211**:50-60. **NETHERLAND**
89. Pandey, J.S., **Samra, J.S.** and Singh, C.P. 1998. Variation in chemical composition of *ber* (*Zizyphus mauritiana* Lam.) as influenced by Eciw, Cl:SO₄ ratios. *Indian J. Hort.* **55**: 196-207. **INDIA**
88. **Samra, J.S.** and Mishra, A.S. 1998. Watershed Management: Some successful initiatives. *The Administrator.* XLII: 41-54. **INDIA**
87. **Samra, J.S.**, Sikka, A.K. and Bansal, R.C. 1998. Efficacy of channel bio-remedial measures in retaining silt & reducing reservoir sedimentation. *IE (I) J.-CV.***79**:67-72. **INDIA**
86. Arya, Swan Lata, **Samra, J.S.** and Mittal, S.P. 1998. Rural Women and Conservation of Natural Resources: Traps and Opportunities. *Gender, Technology and Development.* **2**:167-185. **THAILAND**
85. Dadhwal, K.S., **Samra, J.S.** and Rana, B.S. 1998. Characteristics of upper Mat river catchment soils of Mizoram. *Indian J. Soil Conserv.* **25**:190-196. **INDIA**
84. Sikka, A.K., **Samra, J.S.** and Bansal, R.C. 1998. Land Improvement Index for Evaluating Impact of Watershed Management on Land Development. *IE (I) J.-CV,* **79**:10-13. **INDIA**
83. Arya, Swarn Lata and **Samra, J.S.** 1998. Energy use pattern in relation to watershed management-A case study in Shiwalik foothill village. *Ind. Forester.* **124**:299-308. **INDIA**
82. **Samra, J.S.** and Mishra, A.S. 1997. Watershed Management: a strategy for sustained development. *Indian Fmg.* **47**:17-24 & 27. **INDIA**
81. Arya, Swarn Lata and **Samra, J.S.** 1996. Economics of Livestock in relation to watershed management-A case study of Shiwalik foothill villages in Haryana. *J. Soil & Water Cons.* **40**:8-16. **INDIA**
80. **Samra, J.S.** and Singh, Shiv Charan. 1996. Vegetation status and biomass estimates of Rel. Majra dam catchment-baseline survey. *Indian J. Soil Conserv.* **24**:240-247. **INDIA**
79. Agnihotri, Y., **Samra, J.S.** and Mittal, S.P. 1996. Boosting hill resource economy through watershed management in Hoshiarpur Shiwaliks. *Indian J. Soil Cons.* **24**:248-252. **INDIA**
78. Goel, P.K., Bansal, R.C. and **Samra, J.S.** 1996. A Model Design of Water Harvesting Structure for Hoshiarpur Siwaliks of Punjab. *J. Soil Wat. Conserv. India.* **40**:65-71. **INDIA**

77. Goel, P.K., **Samra, J.S.** and Bansal, R.C. 1996. Sediment retention by gabion structures in Bunga watershed. *Indian J. Soil Conserv.* **24**:107-110. **INDIA**
76. **Samra, J.S.**, Narain, P., and Dadhwal, K.S. 1996. Watershed management, technology and programmes in ravinous, coastal, saline and waterlogged ecosystems. *Indian J. Soil Conserv.* **24**:91-99. **INDIA**
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