

## Profile of Dr Charan Singh

	<p><b>Name:</b> Dr Charan Singh  <b>Designation:</b> Principal Scientist (Forestry) &amp; Head (HRD&amp;SS)  <b>Date of Birth:</b> 03/09/1965  <b>Area of Specialization:</b></p> <ul style="list-style-type: none"> <li>• Forestry</li> <li>• Agroforestry</li> <li>• Conservation Forestry</li> <li>• Soil Conservation and Watershed Management</li> </ul> <p><b>Email ID:</b> <a href="mailto:charan.singh2@icar.gov.in">charan.singh2@icar.gov.in</a>; charan_forest@rediffmail.com  <b>ERP ID:</b> 007889  <b>Mobile:</b> + 91- 9411140824; <b>Phone:</b> 0135-2757917; <b>Fax:</b> 0135-2754213</p>
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### Detail Profile

#### Education

Degree	Year of Passing	University/Institution
Ph. D. Forestry (Agroforestry)	2004	FRI Deemed University, Dehradun
M.Sc. (Forestry)	1989	Dr. Y. S. Parmar Univ. of Horticulture & Forestry, Solan
B.Sc. (Ag. & AH)	1986	GBPUA&T, Pant Nagar

#### Professional History

Position	From	To	Organization
Head of Division (HRD&SS)	23.06.2023	Till date	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Head of Division (Plant Science)	15.07.2021	22.06.2023	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Head of Division (HRD &SS)	01.12.2013	01.12.2014	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Principal Scientist	01.01.2009	till date	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Senior Scientist	01.01.2005	31.12.2008	CSWCRTI, Dehradun
Scientist-SG	05.08.2002	30.12.2004	CSWCRTI, Dehradun
Scientist-SS	27.07.1998	04.08.2002	CSWCRTI, Dehradun
Scientist	15.07.1992	26.07.1998	CSWCRTI, Dehradun
Scientist	05.01.1992	14.07.1992	IGFRI, Jhansi
Scientist	05.08.1991	04.01.1992	NAARM, Hyderabad

## Publications (summary)

S. No.	Publication	Number
1	Research Publications	84
	National	77
	International	07
2	Books	04
	Authored	01
	Edited	03
3	Book Chapters	14
4	Lead Papers	0
5	Radio / T.V. talks	02
6	Technical/Research Reports/ Compilation / Bulletins	18
7	Extension Folders/leaf lets/stickers/posters, etc.	25
8	Symposia/Workshop/Seminar Papers	19
9	Popular article	26
10	Professional Trainings attended	09
11	Consultancy project handled (Leader in 0 & Associated in 4)	04
12	No. of training organized	30
	Short duration sponsored training (Trained : 26)	26
	Soil Conservation Regular Training Course: (5 ½ or 4 months duration) (Trained: 0)	04
	B. Tech students Field Practical training - one to two months (No Students: 0)/ M. Sc.	02
13	Seminars/Symposia/Workshops/Summer or Winter School/ Organized	0
14	External projects handled	04

## Most important 5 Publications

- Charan Singh;** Raizada, A.; Vishwanatham, M.K. and Mohan, S.C. (2008). Evaluation of management practices for a *Grewia optiva* - Hybrid Napier based silvipastoral system for rehabilitating old riverbed lands in the North-Western Himalayas. *International journal of Ecology and Environmental Sciences*, Vol. 34 (4): pp.319-327.
- Charan Singh,** A. Raizada and N. M. Alam (2020). Rehabilitation of old river bed lands by an intensively managed silvi-pastoral system in the north-west Himalayas. *Indian Journal of Soil Conservation*, 48(1): 70-79.
- Charan Singh** and K.S. Dadhwal (2013). Hybrid Napier - *Grewia optiva* based Silvipastoral System for degraded boundary riverbed lands in Doon Valley. *Indian J. of Agroforestry*, Vol. 15 (1): pp. 60 – 63
- Charan Singh,** K.S. Dadhwal, R.C. Dhiman and Raj Kumar (2012). Management of degraded bouldery riverbed lands through *Paulownia* based silvipastoral systems in Doon Valley. *The Indian Forester*, Vol. 138 (3): pp. 243 - 247.
- Charan Singh,** K.S. Dadhwal, R.C. Dhiman, Raj Kumar and R.K. Avasthe (2012). Allelopathic effects of *Paulownia* and Poplar on wheat and maize crops under agroforestry systems in Doon Valley. *The Indian Forester*, Vol. 138(11): pp. 986 - 990.

### Google Scholar link

<https://scholar.google.co.in/citations?user=CCcziYAAAAJ&hl=en>

### ResearchGate link

<https://www.researchgate.net/profile/Charan-Singh-15>

### Awards/Fellowships/Recognitions:

<b>Recognitions &amp; Awards</b>		
<b>Items of Recognition</b>	<b>Year</b>	<b>Awarding Organization (National/International, Institutional/Professional Society/Academy)</b>
Merit Certificate (third position)	2012	ICAR award for research paper exhibition (in Hindi) by Bhartiya Krishi Anusandhan Samiti, Karnal and CSWCRTI, Dehradun.
Merit Certificate (third position)	2007	ICAR award for the third position in the competition for research paper exhibition (in Hindi) by Bhartiya Krishi Anusandhan Samiti, Karnal and CSWCRTI, Dehradun.
Merit Certificate (First position)	2004	ICAR award for research paper exhibition (in Hindi) by Bhartiya Krishi Anusandhan Samiti, Karnal and CSWCRTI, Dehradun.
Brandis Award	2001	Indian Council of Forestry Research Education, Dehradun.
S. K. Seth Prize	1999	Indian Council of Forestry Research Education (ICFRE), Dehradun.
Editor	2010 - 2011	Indian Journal of Soil Conservation, Indian Association of Soil and Water Conservationists, CSWCRTI, Dehradun.
Business Manager	1997 - 2005	Indian Association of Soil and Water Conservationists, CSWCRTI, Dehradun.
Joint Secretary	2003 - 2004	Van Vigyan, "Society of Indian Foresters", ICFRE, New Forests, Dehradun.
Appreciation Letter	18.03.2008 - 05.04.2008	From the Director NAARM, Hyderabad for coordinating FET of the ARS probationers at CSWCRTI, Dehradun in an excellent manner.

### Particulars of Memberships/Positions held in Academies/Societies/Professional Bodies:

- Life member of Society of Tree Sciences, UHF Solan, India,
- Life member of Indian Association of Soil and Water Conservation, Dehradun
- Life member of Society of Agroforestry, NRCAF, Jhansi, India

### Research Projects as PI (On-going)

- Development and rejuvenation of natural springs through soil and water conservation measures (Institute funded)  
Institute Project Code: **CSIP 201501700103**
- Implementation and monitoring of Tribal Sub-Plan (TSP) for Scheduled Tribes - Project Coordinator from 2011-12 till date.
- Implementation and monitoring of Scheduled Caste Sub-Plan (SCSP) for Scheduled Caste from 2017-18 till date.

## Research Projects as PI (Concluded)

### (A). Institute / ICAR funded Projects implemented as Principal Investigator (PI)

1. Determination of heterogeneity in agroforestry practices and acceptability alongwith altitude gradient in western Himalaya (2016-17 to 2018-19)
2. Evaluation of the agroforestry systems for marginal lands in Doon Valley. (2001-02 to 2010-11)
3. Silvipastoral system under various management practices for degraded lands. (1996-97 to 2009-10)
4. Introduction and evaluation of *Paulownia fortunei* in bouldery riverbed lands of Doon Valley. (1996-97 to 2007-08)
5. Introduction and Evaluation of *Paulownia fortunei* under Agroforestry Systems in rainfed conditions of Doon Valley. (1998-99 to 2004-05)
6. Growth behaviour and Biomass Production of *Grewia optiva* (Drumm) seedlings influenced by pre-sowing seed treatments. (1998-99 to 1999-02)
7. Germination behaviour of *Grewia optiva* seeds under different pre-sowing treatments. (1998-99 to 1999-02).
8. Effect of soil working techniques on biomass production of *Grewia optiva* in degraded lands. (1993-94 to 1996-97).
9. Growth performance of *Arundo donax* (Reed grass) under difficult site conditions of Doon Valley for erosion control. (1997-98 to 1998-99)
10. Biomass production of *Morus alba* under different management practices on degraded bouldery riverbed lands of Doon Valley. (1994-95 to 1996-97)
11. Introduction and evaluation of *Paulownia fortunei* based silvipastoral system in bouldery riverbed lands. (2001-02 to 2007-08)

### (B). Institute / ICAR funded Projects implemented as Co-PI

1. Soil fertility restoration and carbon sequestration potential of five agroforestry trees in Himalayan foothills. (2016-17 to 2018-19)
2. Hydrological evaluation of recommended forest grasses in Himalayan foothills. (2004-05 to 2018-19).
3. Role of Soil and Water Conservation Technologies for Climate Resilient Agriculture in Himalayan Ecosystem – An Action Research (2013-14 to 2017-18).
4. Development of a user-friendly Decision Support System application for planning of watershed development project in different agro-eco-regions of India. (2011-12 to 2015-16)
5. Effect of degradation on conservation and production attributes of Sal forests in Uttarakhand (2010-11 to 2016-17)
6. Effect of degradation on conservation attributes of Sal forests in Uttarakhand. (2010 to 2015)
7. Fuel wood and fodder production from densified plantations on old riverbed land. (1997-98 to 2012-13)
8. Effective utilization of waterways for conservation and production. (2003-04 to 2006-07)

9. Production, Nutrient Dynamics and Breakdown of Leaf Litter in Six Forest Plantations Raised on Gravelly Flood Plains in The Lower Western Himalayas. (1999-02 to 2003-04)
10. Growth, survival and mean annual increment of *Quercus leucotrichophora* (Ban. Oak) on degraded lands of Doon Valley. (1990-91 to 1997-98)

**(C). Externally Funded Projects as Theme leader/ Principal Investigator (PI)**

1. National Mission on Sustaining Himalayan Ecosystem (NMSHE) – Task force on Himalayan agriculture for lower and middle Himalayan region - DST, New Delhi Funded (March, 2015 to March, 2020).

**(D). Externally Funded Projects as Theme leader/ Principal Investigator (Co-PI)**

1. Participatory Dissemination and Assessment of Land and Water Management Technologies for Livelihood Security in Rainfed areas of North Western Himalayas - MoRD, New Delhi funded (2007-08 to 2014-15).

**Other important responsibility**

1. **Officer in Charge (Agroforestry)** for “All India Coordination Research Project on agroforestry” for five years from 2004-2008 at Dehra Dun Centre.
2. **COORDINATOR FOR** Field Experience Training (FET) for ARS probationers from NAARM, Hyderabad at CSWCRTI, Dehradun from 2008 to till date.
3. **COORDINATOR FOR** One month “*Orientation Training programme*” for ARS Scientists of FOCARS, NAARM, Hyderabad from 2008 to till date.
4. **COORDINATOR FOR** Three months “*Professional Attachment Training*” for ARS Scientists of FOCARS, NAARM, Hyderabad from 2008 to till date.
5. **Coordinator** Tribal Sub-Plan (TSP)
6. **Coordinator** Scheduled Caste Sub-Plan (SCSP)
7. RTI Transparency Officer of the institute
8. Liaison Officer for SC/ST/OBC/PH of the Institute
9. GEM Primary User of the Institute
10. Evaluator for e-tender of the Institute
11. Officer In charge (Training Hostel & Guest House) at ICAR-IISWC, Dehradun during 12.1.2015 till 2017.
12. Course Leader (Forestry) for regular training course at IISWC, Dehradun during 16.04.1993 till now.

**Consultancies**

- Four