

BRIEF BIODATA OF Dr. J.C. DAGAR



1. **Name:** Jagdish Chander **Dagar**
2. **Date of birth:** 20-10-1950
3. **Present Position and (postal, phone & email) address:** Principal Scientist
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4. Academic record:

Degree	University	Year	Distinction if any
BSc	Bhopal University, Bhopal	1972	First Division
MSc	Bhopal University, Bhopal	1974	Merit (Sajjad Hussain Gold Medal for standing 1 st in Science Faculty of Saifia College)
Ph.D.	Vikram University, Ujjain	1979	-

5 Research Experience: Total: 32 years

Research Fellow and Post Doctoral Fellow 1975-1980 (5 ½ years)

Lecturer 1981- June 8, 1988 (7½ years)

Senior Scientist June 9, 1988-July 26, 1998 (10 years)

Principal Scientist July 27, 1998 till date (>9 years)

6. Specialization:

a) *Scientific capabilities and interest*

Experience of handling out-side funded projects (handled/participated in 6 national and 2 international projects) in the following scientific fields:

- √ Ecology and environmental sciences
- √ Ethno-botany
- √ Bio-diversity of rainforests, mangroves, saline habitats, range lands, agricultural fields
- √ Restoration of degraded (including salt effected) environments
- √ Agroforestry
- √ Bio-saline agriculture
- √ Range management

b) *Salient accomplishment*

The following technologies developed/perfected in the field of Natural Resource Management:

- Methodologies for studying vegetation ecology
- Multiplication (through slips) and cultivation of exotic forages on sloping lands in rain-fed conditions
- Techniques of raising mangrove nursery in tidal zone and rehabilitation of tidal areas
- Pit-auger hole technique of fruit and forest tree-plantation for rehabilitation of highly alkali soils
- Raised and sunken bed technique for agroforestry in alkali soils
- Furrow technique of plantation using saline water for irrigation
- Judicious use of low and high saline water for irrigation in arid regions for cultivation of conventional and non-conventional crops, grasses, fruit and forest trees and flowers.
- Domestication of indigenous fruit trees in Namibia and techniques of value addition to them
- Control of water logging through bio-drainage
- Ecology and biodiversity of rainforests, mangroves, range lands, agricultural fields and saline habitats
- Ethno-botanical explorations
- Rehabilitation of degraded (including salt-affected) lands

- Developing agroforestry systems for coastal & island region
- Afforestation and agroforestry of salt-affected lands
- Judicious and sustainable utilization of saline water for bio-saline agriculture
- Evaluation of under-explored and medicinal & aromatic crops for saline habitats
- Control of water logging and salinity through agroforestry interventions (bio-drainage)
- Domestication, post-harvest handling and marketing of indigenous fruit trees
(in FAO Project in Namibia)

c) International Exposure

United Arab Emirates -To attend International Conference on “*High Salt Tolerant Plants in Arid Regions*”, held at University of Al Ain, Abu Dhabi, December 8-15, 1990.

United States of America - Training on “*Evaluation of Agroforestry Systems*”, Dept. of Forestry, University of Florida, U.S.A. from January to May 1991.

Australia - Short Course on “*Agroforestry Management*” at University of New England, Armidale, New South Wales, Australia from Jan. 20 to Feb. 14, 1997.

United Arab Emirates - To attend International Conference on *Desertification* held at Dubai from February 12-16, 2000.

Namibia – FAO International Consultant in a Project, “*Domestication, post-harvest handling and marketing of indigenous fruit trees*” under TCDC sponsored by FAO/UN from September 17 to October 16, 2002 and October 5 to November 6, 2003.

United States of America- To participate and present FAO sponsored sub-**plenary theme paper on Agroforestry and Food Security in Africa** in **First World Congress of Agroforestry** held in Orlando, Florida, USA organized by University of Florida, USA from June 27 to July 2, 2004.

The Netherlands: To participate in kick-off meeting of BIOSAFOR research project held in Volendam, the Netherlands from 6 to 8 March, 2007

7. Publications: Please see attached Annexure

8. Awards/ Recognitions

- Hari Om Ashram Trust Award, 2005 (ICAR, New Delhi)
- Fellow National Academy of Agricultural Sciences (NAAS)
- Fellow National Institute of Ecology
- Fellow International Society for Tropical Ecology
- Fellow Indian Botanical Society
- Fellow Range Management Society of India
- International Consultant in FAO Project in Namibia
- Joint Secretary, Range Management Society of India
- Councillor, National Institute of Ecology
- Member Editorial Board, Indian J. Agroforestry
- Member Advisory Board, J. Non-timber Forest Products

Annexure: Publications of JC Dagar

a) Total Publications

Research Papers published	No.	Total NAAS Score	Books Published	No.
Papers in Journals with NAAS Score >7	20	154	Books authored	03
Papers in Journals with NAAS Score 4-7	16	65	Books edited	03
Papers in Journals with NAAS Score 3	23	69	Research Bulletins	04
Other papers (NAAS Score not available)		288	Special Reports	04
Papers in International Journals	08			
Papers in National Journals	43			
International Proceedings	11			
National Proceedings	13			
Chapters in Books	20			
Semi- technical/Popular Articles	30			
Total	184		Total	14

b) Best 5 publications of last 10 years

Research publications	NAAS Index
1. Dagar JC, Singh G and Singh NT.2001.Evaluation of forest and fruit trees used for rehabilitation of semiarid alkali-sodic soils in India. <i>Arid Land Research & Management</i> 15: 115-133.	7.5
2. Dagar JC, Tomar OS, Kumar Y, Yadav RK & Tyagi NK. 2006. Performance of some under-explored plants under different treatments of saline irrigation in semi-arid climate of northwest India <i>Land Degradation & Development</i> 17: 285-299	7.8
3. Dagar JC, Sharma HB & Shukla YK. 2001. Raised and sunken bed technique for agroforestry on alkali soils of northwest India. <i>Land Degradation & Development</i> 12: 107-118.	7.8
4. Singh G., Singh NT, Dagar JC, Singh H & Sharma VP. 1997. An evaluation of agriculture, forestry and agroforestry practices in a moderately alkali soil in northwestern India. <i>Agroforestry Systems</i> 37:279-295	8.0
5. Jeet Ram, Garg VK, Toky OP, Minhas PS, Tomar OS, Dagar JC and Kamra SK.2007. . Biodrainage potential of Eucalyptus tereticornis for reclamation of shallow water table areas in north-west India. <i>Agroforestry Systems</i> 69: 147-165	8.0

c. Fifteen other best papers

1. Dagar JC, Kumar Y & Tomar OS.2006.Cultivation of medicinal isabgol (<i>Plantago ovata</i>) in alkali soils of semiarid regions of northern India. <i>Land Degradation & Development</i> 17: 275-283	7.8
2. Dagar JC , Tomar OS, Kumar Y & Yadav RK.2004.Growing three aromatic grasses in different alkali soils in semiarid regions of northern India <i>Land Degradation & Development</i> 15: 143-151	7.8
3. Nair PKR & Dagar JC . 1991. An Approach to developing methodologies for evaluation of agroforestry systems in India. <i>Agroforestry Systems</i> 16 : 55-81.	8.0
4. Singh G, Dagar JC and Singh NT. 1997. Growing fruit trees in highly alkal soil- a case study <i>Land Degradation & Development</i> 8: 257-268.	7.8
5. Upadhyaya SD, Dagar JC & Singh VP. 1979.A mathematical approach towards nitrogen cycling in arable land in <i>Cajanus cajan</i> field. <i>Plant and Soil</i> 52: 315-324	8.3
6. Dagar HS & Dagar JC . 1991.Plant folk medicines among the Nicobarese of Katchal Island India. <i>Economic Botany</i> 45: 114-119	7.5
7. Banuelos GS, Dyer D, Ahmad R, Ismail S, Raut RN and Dagar JC .1993.In search of <i>Brassica</i> germplasm in saline semi-arid and arid regions of India and Pakistan for reclamation of selenium-laden soils in the U.S <i>Journal of Soil & Water Conservation</i> 48 (6) : 530-534	8.0
8. Mongia AD, Dagar JC and Bandyopadhyay AK.1992. Potential of degraded mangrove areas of Andaman and Nicobar Islands for agricultural and other alternative uses. <i>Agrochemica</i> 36 (4-5): 312-323	7.3
9. Dagar JC, Rao AN and Mall LP. 1976. Regeneration of <i>Parthenium hysterophorus</i> Linn. <i>Geobios</i> 3: 202-203	7.8
	7.8

10. Dagar JC , Rao AN and Singh VP.1977.Effects of some growth regulators and chemicals on seed germination of <i>Parthenium hysterophorus</i> Linn. <i>Geobios</i> 4: 87-88	7.5
11. Bhat PK, Upadhayaya SD, Dagar JC and Singh VP.1979.Assessment of heavy metal toxicity. I. Effect on microbial population, mineralization and soil respiration. <i>Current Science</i> 48 (13): 571-573	7.5
12. Dagar JC and Singh VP.1979. <i>Parthenium hysterophorus</i> -A new host for <i>Brevipalpus phoenicis</i> . <i>Current Science</i> 48 (2): 71-72.	7.3
13. Dagar JC and Singh VP.1980. The ecological studies of the vegetation of the river Kshipra and its tributaries. <i>Biologia</i> 26 (1): 43-62	7.3
14. Dagar JC , Singh VP and Mall LP.1977. Interspecific association of aquatic plants. <i>Biologia</i> 23 (2) : 117-123	7.3
15. Ahmad SM, Nayyar Sultan and Dagar JC . 1977. Studies on the effect of light of different qualities and moisture on spore germination and gametophyte development in <i>Plagiochasma intermedium</i> L.& G <i>Biologia</i> 23(2): 137-143	
Total NAAS Index	154.1