

Dr. S. R. Manik

Bio-Data

Name : SURENDRA RAGHOBAN MANIK
(First name) (Middle name) (Surname)

Designation : Professor, Department of Botany, Sant Gadge Baba Amravati University, Amravati

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Nationality : Indian

Date of Birth : 13/11/1956,
(Thirteen November nineteen fifty six)

Educational Qualification :

S. No.	Exam. Passed	University/ Board	Division	Years of Passing	Subjects offered
1.	B.Sc.	Nagpur University	II	1977	Zoo, Botany, Chemistry
2.	M.Sc	Nagpur University	II	1980	Botany (spl. Cytology Genetics)
3.	Ph.D.	Kanpur University	--	1989	Botany (Palaeobotany)

Teaching Experience :

Post Graduate Teaching experience of 16 years at Department of Botany, Amravati, University, Amravati (from Jan. 1992 till date)

Research Experience :

Actively engaged in research; 9½ 'A' years research experience at Birbal Sahni Institute of Palaeobotany, Lucknow (from April 1982 to Dec. 1991, including Ph.D. work from 1982 to 1988) and 16 years of teaching and research at Deptt. of Botany Amravati University, Amravati.

Papers Published : 23

i) National : 19

ii) International : 04
(List attached)

Employment Details : *(Chronologically from present position)*

S. No.	Name of Institution	Full Address of Employer	Post Held	Period	
				From	To
1.	Sant Gadge Baba Amravati University	Deptt. of Botany, Amravati University	Professor	6.10.2008	Continuing
2.	Amravati University	Deptt. of Botany, Amravati University	Reader (Promoted)	1.1.2001	5.10.2008
3.	Amravati University	Deptt. of Botany, Amravati University	Lecturer (Sr. Scale)	1.1.1996	31.12.2000
4.	Amravati University	Deptt. of Botany, Amravati University	Lecturer	1.1.1992	31.12.1995
5.	B.S.I.P. Lucknow	Birbal Sahni Institute of Palaeobotany, Lucknow.	Jr. Scientific officer	1.4.1990	30.12.1991
6.	B.S.I.P. Lucknow	Birbal Sahni Institute of Palaeobotany, Lucknow.	Sr Scientific Assistant	23.9.1985	31.3.1990
7.	B.S.I.P. Lucknow	Birbal Sahni Institute of Palaeobotany, Lucknow.	Jr Scientific Assistant	22.4.1982	22.9.1985

Research Projects Completed :

Co-principal investigator of the DST sponsored project "Study of fossil biota from Gondwana rocks of district Betul, (M.P) and its possible implications on Gondwana palaeogeography (Rs.7.74.000/-). Under this project detailed work on megafloristic evidences was undertaken. The study emphasized the palaeogeographic conditions, and phylogenetic significance of the fossil flora. *(Dr. A. K. Srivastava)*

Co-principal investigator of the project on "Improvement of Infra-structural facilities in Botanic Garden" sanctioned by Ministry of Environment and Forests, Govt. of India, New Delhi (Rs. 3.00.000/-). The renovation of green house, was undertaken, alongwith other infra-structural facilities in the garden. *(Prof. Dr. U. S. Chaudhari)*

Research projects**Ongoing :**

P.I. : Minor research project entitled "Studies on specific environmental features of Melghat. District, Amravati" sanctioned by UGC (Rs.96,000/-)

Co.P.I. : Minor research project entitled "Phytochemical studies during growth and development of some medicinal plants in Melghat Forest" (Dr. (Mrs.) V.N. Nathar (Rs.1,00,000/).

Co.P.I. : Major research project entitled "Creation of experts directory of scientists in life sciences" sanctioned by NSTMIS, New Delhi. (Dr. Rajesh Singh. Rs.13,50,480/-)

Research Guidance :

Five students namely Shri U.S. Patil, Ku. U.R. Kokate, Mr. D.M. Ratnaparkhi, K.D. Jadhav and Ku. P.P. Ulhe successfully completed and awarded Ph.D.

Also, supervised partially the research work of Ku. R.R. Gawande of Geology Department pertaining to megafloristic investigations. Research work of three students is being actively supervised.

- i) Mr. U.S. Patil : Medico-botanical and socio-cultural studies of the plants of piedmont belt of Satpuda in Amravati District. (185/2002 dtd. 10.10.2002).
- ii) Ku. U.R. Kokate : Investigations on diversity of non-flowering vascular plants in Melghat forest, district Amravati. (39/2007 dated 12.2.2007).
- iii) Mr. D.M. Ratnaparkhi : Community ecological studies in Melghat forest with emphasis on eco-tourism. (77/2007 dated 25.10.2007).
- iv) Mr. K.D. Jadhav : Investigations on some morph-taxonomical and phyto-chemical evaluation of ethno-medicinal plants. (Awarded 2007).
- v) Ku. P.P. Ulhe : Seed morphological and micropropagation studies of some medicinal plants (Awarded in 2008).

Award Received :

Received Birbal-Savitri Sahni Medal conferred by Birbal-Savitri Sahni Foundation, Lucknow on 18.2.2005 at International Conference, ICPSBC-2005 during 17th-20th February, 2005.

Participation in Orientation/ Refresher course :

- Completed orientation course from 4th March to 27th March, 1997 conducted by ASC, Nagpur.
- Refresher course from 30.3.98 to 19.4.1998 conducted by, ASC, Jabalpur.
- Refresher course from 10.12.98 to 31.12.1998 conducted by ASC, Kashmir.

Training Programme :

- 1) Participated in the training programme entitled "Basic training in Recombinant DNA Technology and PCR", organized by Bangalore Genei, Bangalore, from 17th to 20th February, 2004.
- 2) Participated in training programme conducted by MCED, under the sponsorship of DST, New Delhi, from 7th- 18th October, 2003, at MCED, Amravati.

- 3) Participated in workshop on Plant Tissue Culture and Biotechnology organized by Deptt. of Plant Biology and Biotechnology, Loyala College, Chennai, during 25th-28th January, 2006.

Contribution in Administration :

Contributed in establishing, shaping and overall development of the Department of Botany, Amravati University, Amravati since April 1992 to Jan. 1995. Worked as Head of the Department and managed the academic, research and administrative responsibilities of the Department for 3 years.

Actively participated in organizing University programmes. Contributed actively in organizing botanical excursions, guest lectures, and refresher courses in the Department. Also, worked as a coordinator of the Department of Microbiology during 1993-94 and 1994-95 and managed the academic and administrative activities of the Department of Microbiology.

Help in Administration :

- Organizing Secretary of National level conference on Recent Trends in Botany, during 8-9th December, 1993. at Deptt. of Botany, Amravati University.
- Organizing Secretary of International Conference on Modern Trends in plant sciences with special reference to role of biodiversity in conservation during 17th-20th February, 2005 at Deptt. of Botany, Amravati University.
- Worked as a member of Central Admission Committee for post-graduate courses, continuously for three years.
- Active participation in organizing University/ Departmental activities like National Science Day; Exhibition, Aswamedh activities, Departmental examinations etc.
- Worked as a subject expert on selection committees; member of BOS, sub committees for revising syllabus etc.

Membership of University Bodies :

- i) Member of Board of Studies in Botany, in 1993.
- ii) Ex. Officio member of BUTR, in 1993.
- iii) Member of Selection Committees.
- iv) Member of Local Enquiry Committees.
- v) Member-Secretary Academic and Administrative Audit committee.
- vi) Member of Committee for Ph.D. aptitude test, Nov., 2005, May, 2006 & Jan., 08.

Member of Academic Bodies :

Life Member :

- i) Indian Botanical Society, Agra.
- ii) Indian Association for Angiosperm Taxonomy, Calicut.
- iii) The Palaeobotanical Society, Lucknow.
- iv) Indian Science Congress Association, Kolkata.

Member :

- i) International Organisation of Palaeobotany.
- ii) Nature Conservation Society, Amravati.

Co-curricular and Extra Curricular Activities:

- Organized Botanical Excursions.
- Member of Accommodation Committee "Ashwamedh-2003"
- Evaluation of Ph.D. theses.
- Botanical Society activities.
- Conducting SET Examination.
- Member, Awishkar-2008-09.

Student Registered for Ph.D. :

1. Sail. U.R. Raulkar : Studies on phytochemical analysis and antimicrobial properties of some herbal plants used by tribals of Melghat, District Amravati (AU/554/Ph.D./Bot/10/2003-15.7.2003)
2. Ku. U.R. Kokate : Investigations on diversity of non-flowering vascular plants in Melghat forest. District Amravati, (AU/554/Ph.D./Bot/09/2003- 15.7.2003)
3. Mr. P.D. Mankar : Studies on some indigenous drugs with emphasis on their bioresources - (AU/554/Ph.D./Bot/11/2003-15.7.2003)
4. Mr. D. M. Ratnaparkhi : Community ecological studies in Melghat forest with emphasis on ecotourism (AU/554/Ph.D./Bot/07/2003- 15.7.2003) w.e.f 15/01/2003.
5. Ku. Pallavi P. Ulhe : Seed morphological and micropropagation studies of some medicinal plants. (AU/554/Ph.D./Bot/03/2003 w.e.f. 15.1.2003)
6. Shri. K. D. Jadhav : Investigations on some morpho- taxonomical and phyto-chemical evaluation of ethno-medicinal plants -(AU/554/Ph.D./Bot/04/2002 w.e.f. 15.1.2003)
7. U.G. Malode : Structural investigations of some of the ethno-medicinal plants from Amravati District (AU/554/Ph.D./Bot/11/2001 w.e.f. 15.7.2001).
8. Mr. A. N. Korpenwar: Studies on ethno-botanical diversity of Buldhana District (M.S.) with reference to medicinal importance (AU/554/Ph.D./Bot/3/2001 w.e.f. 15.1.2001).
9. Mr. Nilesh P. Ilamkar : Further contributions to the palaeobotanical studies of angiospermic flora of the Deccan Intertrappean series of India with special reference to Vidarbha region. (AU/554/259/2006 w.e.f. 15.1.2006).

Students who completed M.Phil. Dissertation :

1. Mr. S.G. Mhaske : Phytochemical evaluation of Dolichandran talcata wall exDC (SGBAU/M.Phil./bot-42/2007 dated 29.9.2007).
2. Ku. R.B. Olambe : Studies on phytochemical analysis of ethnomedicinal plants (SGBAU/M.Phil./bot-42/2007 dated 29.9.2007).
3. Mr. K.U. Makode : Studies on vegetation around Narnala wildlife sanctuary (M.S.) (SGBAU/M.Phil./bot-42/2007 dated 29.9.2007).
4. Ku. K.B. Gadge : Agrobotanical investigations in ethnomedicinal plants from Melghat forest, Dist : Amravati. (SGBAU/M.Phil./bot-42/2007 dated 29.9.2007).

List of Publications Dr. S.R. Manik : 23

1. Manik S.R., (1987), Some new genera of Triassic Seeds, *Palaeobot*, 36, 197-200.
2. Srivastava, S.C. and Manik S.R.(1990), *Rostrumaspermum Venkatachalli* gen. et.sp. nov., an archegoniate seed from Triassic of Nidpur, India, *Palaeobot*, 38, 98-104.
3. Manik, S.R. & Srivastava, S.C. 1991 : Conifer wood from new sites of Gangapur Formation, India, *Act Biologica*, Szeged, Germany, 37, 45-55.
4. Srivastava, S.C. and Manik, S.R. (1992) Triassic flora of India a transition, *Palaeobot*, 40, 244.
5. Srivastava, S.C. and Manik, S.R. (1993), Indian seed Compressions from Triassic of Nidpur in evolutionary perspective, *coloquios de paleontologia* 45; Madrid, 209-219.
6. Srivastava, S.C. and Manik S.R., (1993), Taxonomic diversity of Triassic seeds from India. Proceedings of the eighth Gondwana Symposium, Hobart, Australia, in Findlay, Unrag, Banks, Veevers (eds), Gondwana eighth Assembly, Evolution & dispersal 265-275.
7. Srivastava, S.C. and Manik S.R., (1996), Reconsideration of *Savitrispermum* from Triassic of Gondwanas, *Geophytology* 26(1): 1-11.
8. Srivastava, A.K. Banubakode, P.D. Kale, V.M. Patil, G.V. & Manik, S.R. (1999) : Lower Cretaceous plant fossils from Bairam- Belkher area, District Amravati, Maharashtra and District Betul, Madhya Pradesh & their significance in stratigraphy, *Palaeobotanist* 48 (1), 39-48.
9. Srivastava, S.C.; Manik, S.R., & Prakash, N. (2000) : Observations on Triassic seeds with remarks on their morphology in fossil state *Botanical Essays*, Tribute to Professor Bahadur Singh, 183-216.
10. Srivastava, S.C.; Manik, S.R., & Prakash, N. (2001) *Chaturvedecarpon chauhanii* a new seed associated with other seed genera from 200 million years old (225 My Triassic) rocks of India. *Plant Cell Incompatibility*, 30:98.
11. Srivastava, A.K.; Manik S.R., Patil, G.V. & Gawande, R.R. (2001). Record of genus *Hausmannia* Dunker from the Upper Gondwana of Bairam- Belkher area, Amravati district, Maharashtra and Betul district, Madhya Pradesh. *Curr. Sci.* 81(7) :756-757.
12. Manik S.R. ; Palil, U.S. & Pachkhede, A.U., (2002): Amravati Kshetra ki Aushadhiyukt Vanaspatiyonka Adhyayan, Proceedings of the National Seminar on Bharat me Vigyan ke Badhate Charan, "Bharat me Vigyan ki Uplabdhiyan" (ed. N. Khare and P.C. Pandey), NCAOR, Goa, 2002 : 234-238.
13. Pachkhede, A.U. & Manik, S.R. (2002): Effect of Nutritive media on growth of different species of *Curvularia*, *Drechslera* and *Biopolaris*. *J. Basic Appl. Mycol* 1(1): 55-57.

14. Patil, U.S. Manik, S.R & Pachkhede, A.U.(2004) : Morphotaxonomic authentication of ethno-medicinal plants from Amravati District, M.S. J. Comp. Toxicol, Physiol 1(2) : 118-126.
15. Pochhi, D.U. Patil, U.S. & Manik , S.R. (2004): Karyotypic studies in two species of Cassia L. J. Comp. Toxicol Physiol, 1 (2): 167-171.
16. Srivastava, A.K. Manik, S.R.; Patil, G.V. & Gawande. R.R. (2004) : The genus Araucarites from Upper Gondwana succession (Early Cretaceous) of Bairam- Balkher area, district Amravati Maharashtra and district Betul, Madhya Pradesh Palaeobotanist: 53 : 91-95.
17. Srivastava, A.K. Manik, S.R.; Gawande, R.R. & Patil, G.V. (2004) Pteridophytic remains from early Cretaceous succession, Geophytology, 34:105-114.
18. Srivastava, A.K., Manik, S.R. and Gawande, R.R., 2004 Lithofacies analysis and depositional environment of Upper Gondwana (Early Cretaceous) succession of Bairam-Belkher area, district Amravati, Maharashtra and district Betul, Madhya Pradesh, Journal of Indian Association of Sedimentologist, Aligarh. 23 (1 & 2):79-86 .
19. Ratnaparkhi, D.M., Manik, S.R. and Nathar, V.N. (2005) Implications of characteristic Environmental Parameters of Melghat Forest, Dist. Amravati, Environmental Conservation Journal 6(2) : 75-81.
20. Nathar, V.N., Kaley, D.M., Tidke, J.A., Manik, S.R., and Chaudhari, U.S. (2005) Biochemical changes effected by 'Boron' on growth and development of Potato (Solanum tuberosum L.) J. Comp. Toxicol, Physiol, 2(I & II):18-27.
21. Ulhe, P.P., Manik, S.R. and Deshmukh, P.D. (2006) Studies on seed anatomical structure in Umbelliferae and Malvaceae (In : Chaudhari, U.S. et al. (Eds.) Proceedings of ICPSBC-2005):192-196.
22. Ratnaparkhi, D.M. and Manik, S.R. (2006) Impact of soil and water on biodiversity of Melghat forest, Dist. Amravati, Maharashtra (In : Chaudhari, U.S. et al. (eds.) Proceedings of ICPSBC-2005):201-207.
23. Srivastava, A.K., Manik, S.R., Gawande, R.R. (2007) Diversity of gymnospermous plant remains from Upper Gondwana (Early Cretaceous) succession of Bairam- Belkher area district Amravati, Maharashtra and district Betul, Madhya Pradesh, with remarks on stratigraphic age and plaeoclimete, Phytomorphology 57 (3 & 4) : 153-163.

Papers under Review : 01

Srivastava, A.K., Manik, S.R., Gawande, R.R.: Fluvial traces from upper Gondwana (Early Cretaceous) succession of Central India. Ichnos, Canada.

Participation in Conference/ Symposia/ Seminar :

- Participated and presented a paper in National workshop on Concepts, Limits and extension of the Indian Gondwana, B.S.I.P., Lucknow during Nov. 14-18, 1987.
- Participated and presented a paper in symposium "Vistas in India Palaeobotany" organised by B.S.I.P., Lucknow on Nov. 14-16, 1988.
- Participated and presented a paper in Symposium Four decades of Indian Palaeobotany organised by B.S.I.P., during Nov.18-19, 1991.
- Participated in National Seminar on Recent Trends in Biological Sciences organised by School of Life Sciences, Pandit Ravishankar Shukla University, Raipur during July 18-20, 1994.
- Participated and presented paper in Seminar on Perspectives of medico- botany organised by Agharkar Research Institute, Pune during June 5-7,1996.
- Participated and presented paper in National Conference on flowering plants: Systematics and diversity during Oct. 16-18, 1997.
- Participated and presented paper in National Seminar on Integrated Management of Plant resources at Chhindwra during January 23-24, 1998. ,
- Participated and presented paper in All India Botanical Conference at Mumbai during Oct.. 23-25, 1999.
- Nominated by Hon'ble Vice-Chancellor for participation in International 8th World Environment Congress at New Delhi during Dec. 29-31, 1999. Presented a paper on "Floristic diversity of Amravati University campus, M.S. India, an ecological perspective".
- Participated & presented paper in National Conference on Recent Trends in Biotechnology, at Amravati during 3-5, February, 2000.
- Participated and presented a paper in regional workshop entitled "Energising curriculum for upgradation of standards organised by TRDEA, Amravati University, Amravati, during 14-15 July, 2001.
- Participated & presented a paper in 24th All India Botanical Conference arid symposium on Botany in new millennium organised by Deptt. of Botany, Osmania University, Hyderabad, during 19-21st Nov.2001.
- Participated & presented paper in 25th All India Botanical Conference at Bareilly (U.P.) during 27-29th October, 2002.

- Contributed a paper in National Conference on "Biodiversity-Past and Present" organized by the Paleobotanical Society at Lucknow during November, 2002 (Could not attend because of Xth' plan UGC committee visit to the Department) 28-29, Nov. 02, 66-67.
- Participated and presented a paper in National Conference on Recent advances in Botany, organised by J.M.Patel College, Bhandara during 28-29, January, 2003.
- Participated & presented a paper in XXVI annual conference of Indian Botanical Society organized by Department of Botany, Jamia Hamdard, New Delhi during 29-31 December, 2003.
- Participated in workshop on Plant Tissue Culture and Biotechnology Department of Plant Biology organized by Biotechnology Loyola College, Chennai during 23rd-28th January, 2006.
- Participated in Training Programme conducted by MCED, Amravati jointly with Directorate of Industries and sponsored by DST, New Delhi from 7th-18th October, 2003.
- Participated in workshop on new UGC curriculum in Botany organized by Deptt. of Botany, Amravati University, Amravati on 12th September, 2004.
- Participated in the workshop on Molecular Biology organized by Deptt. of Zoology jointly with Bangalore Genei, Bangalore during 1-2 August, 2004.
- Participated in National Symposium on three decades of Project Tiger in Melghat, organized by Deptt. of Zoology in collaboration with office of the conservator of forests, field Director, MTR and Nature conservation society during 8-9th October, 2004.
- Participated and presented papers in International Conference on Modern Trends in Plant Sciences with special reference to the role of Biodiversity in Conservation organized by Department of Botany, Amravati University, during 17th-20th February. 2005.
- Participated in one day Seminar on Tissue Culture on 26th Feb., 2008 organized by the department of Botany, SGBAU, Amravati.

Papers Presented in Conference : (2005- 2007)

- 1) Srivastava, A.K., Manik, S.R., & Gawande, R.R. (2005): Megafloral diversity of upper Gondwana succession (early Cretaceous) of Bairam-Belkher area, District Amravati Maharashtra, and District, Betul, Madhya Pradesh, *Abstracts - ICPSBC-2005* :149.
- 2) Manik, S.R. & D.M. Ratnaparkhi, (2005) : Impact of soil and water on biodiversity of Melghat forest, Dist. Amravati, Maharashtra; *Abstracts of International Conference ICPSBC-2005* :44.

- 3) Ulhe. P.P; P.D. Deshmukh; & Manik, S.R. (2005) studies on seed anatomical structures in Um be Hi ferae & Malvaceae : *Abstracts - ICPSBC-2005* : 84
- 4) Ulhe, P.P. & Manik, S.R. (2005) Observations on morphological variations of seeds from Apocynaceae, Malvaceae & Bignoniaceae, *Abstracts, ICPSBC 2005* : 84.
- 5) Manik, S.R., Kokate, U.R. and Muratkar, G.D. (2005): Species diversity of *Ophioglossum* in Melghat tribal region of Amravati District, *Abstracts : ICPSBC-2005*, : 171, organized by Deptt. of Botany, Amravati University.
- 6) Kaste, P.S., Anand Subhedar ; Manik, S.R. & Tidke, J.A. (2005) Three new ascomycetes from Maharashtra, *Abstracts, ICPSBC-2005* : 169; organized by Amravati University, Amravati.
- 7) Srivastava, A.K. and Manik S.R. (2006) Floral diversity in upper Godwana succession (early cretaceous) near Achalpur fault, Amravati district, Maharashtra, International Conference organized at BSIP Lucknow, Abs.:154.
- 8) Manik, S.R. & D.M. Ratnaparkhi, (2006) Biodiversity studies through vegetation analysis of selected spots in Melghat forest area, Dist. Amravati, Maharashtra, IAAT conference at Aagarkar Research Institute, Pune, Abs. :95.
- 9) Ulhe P.P. and Manik S.R. (2006) Seed surface characteristics of Acanthaceae using scanning electron microscopy, IAAT conference at Aagarkar Research Institute, Pune, Abs. :105.
- 10) Ulhe P.P. and Manik S.R. (2007) Observations on morphological variations in seeds belonging to Cucurbitaceae and Umbelliferae, 13th All India Botanical conference at Gawaliar .