

BIBLIOGRAPHY

- Anon. (2004). Annual Report. Arid Forest Research Institute, Jodhpur, Rajasthan, India.
- Amrithalingam, M. (1998). Sthala Vrikshas of Tamil Nadu. In: Krishna, N. and Prabhakaran, J. (eds.), *The Ecological Traditions of Tamil Nadu*, C.P.R. Environment Education Centre, Chennai.
- Ananthkrishnan, T.N. (1999). Multidimensional links in biodiversity research: An Integrated Exercise. *Current Science*, 77: 356-358.
- Anderson, E.N. (1996). *Ecologies of the Heart: Emotion, Belief, and the Environment*. New York: Oxford University Press.
- Anthwal, A., Gupta N., Sharma A., Anthwal S. and Ki-Hyum, K. (2010). Conserving biodiversity through traditional beliefs in sacred groves in Uttarakhand Himalaya, India. *Resources, Conservation and Recycling*, 54: 962-971.
- Anthwal, A., Sharma, R.C. and Sharma, A. (2006). Sacred groves: traditional way of conserving plant diversity in Garhwal Himalaya, Uttaranchal. *The Journal of American Science*, 2: 35-43.
- Arora, V. (2011). "Conserving Sacred Groves and Mitigating Climate Change", Presented at the National Conference on Environment and Biodiversity of India, New Delhi.
- Barbaro, Salvatore, Caracausi, R., Chaix, B., Chisesi, R.M., Cognata, G. and Lorusso, L.C. (2007). Setting up of a protocol of environmental research for preservation and right exploitation of the cultural heritage. *Conservation Science in Cultural heritage*, 7: 267-321.
- Basu, R. (2009). Biodiversity and ethnobotany of sacred groves in Bankura District, West Bengal. *Indian Forester*, Vol.:135.
- Batjes, N. H. (1996). Total carbon and nitrogen in the soils of the world. *European Journal of Soil Science*, 47, 151–163. Reflections by N.H. Batjes
- Baviskar, A. (2014). Mangarbani sacred grove near Delhi. http://www.vikalpsangam.org/article/mangarbani-sacred-grove-near-delhi/#.U4R826I_Zko. Accessed on 27th May 2014.
- Belton, T. (2008). Management Strategy for Mexican Thorn (*Prosopis juliflora*) on Ascension Island: An assessment of this species and recommendations for management.

http://www.issg.org/database/species/reference_files/projul/AscensionProsopisPlan.pdf.

Accessed on 22nd July 2014.

- Bennett, A.B. and Gratton, C. (2013). Floral diversity increases beneficial arthropod richness and decreases variability in arthropod community composition. *Ecological Applications*, 23: 86-95.
- Bhagwat, S.A. and Rutte, C. (2006). Sacred groves: potential for biodiversity management. *Frontiers in Ecology and the Environment*, 4: 519-524.
- Bhagwat, S.A., Kushalappa, C.G., Williams, P.H. and Brown, N.D. (2005). A landscape approach to biodiversity conservation of sacred groves in the Western Ghats of India. *Conserv Biology*, 19: 1853-1862.
- Bhakat, R. and Pandit, P.K. (2004). An inventory of medicinal plants of some sacred groves of Purulia District West Bengal. *Indian Forester*, 130: 37-43.
- Bhakat, R. K. and Sen, U.K. (2008). Ethnomedicinal plant conservation through sacred groves. *Tribes and Tribals*, 2: 55-58.
- Bhakat, R.K. and Pandit, P.K. (2003). Role of a sacred grove in conservation of medicinal plants. *Indian Forester*, 129: 224-232.
- Bhakat, R.K. and Sen, U. K. (2012). Sacred grove as an institution of culture and conservation. *Indian Journal of Biological Sciences*, 18: 38-40.
- Bhandari, M.M. (1990). Flora of the Indian Desert. Jodhpur: Printed by MPS Repros
- Bhandary, M.J. and Chandrasekhar, K.R. (2003). Sacred groves of dakshina kanada and udupi districts of Karnataka. *Current Science*, 85:655-1656
- Bhasin, V. (1999). Religious and Cultural Perspective of a Sacred Site – Sitabari in Rajasthan. *Journal of Human Ecology*, 10: 329-340.
- Bhatla, N., Mukherjee, T. and Singh, G. (1984). Plants-traditional worshipping. *Indian J. History of Science*, 19: 37-42.

- Bhattacharya, P. (2014). Sacred Groves at Risk as Faith Erodes. Indian Express. 05th January 2014.
- Blicharska, M., Mikusiński, G., Godbole, A. and Sarnaik, J. (2013). Safeguarding biodiversity and ecosystem services of sacred groves – experiences from northern Western Ghats. *International Journal of Biodiversity Science, Ecosystem Services & Management*, 9: 339-346.
- Boojh, R. and Ramakrishnan, P.S. (1998). In: *Conserving the Sacred Groves: For Biodiversity Management*, edited by Ramakrishnan, P.S., Saxena, K.G. & Chandrasekhar, U. (UNESCO and Oxford-IBH Publishing, New Delhi), pp. 253-262.
- Bor, N. L. (1960). *The grasses of Burma, Ceylon, India, and Pakistan*. Pregamon press, London. i-xviii, 1-767 pp.
- Brandis, D. (1897). *Indigenous Indian Forestry: Sacred Groves*. In: *Indian Forestry Working*. Oriental Institute, England.
- Byers, B.A., Cunliffe, R.N. and Hudak, A.T. (2001). Linking the Conservation of Culture and Nature: A Case Study of Sacred Forests in Zimbabwe. *Human Ecology*, 29: 187-218.
- Campbell, M.O. (2005). Sacred groves for forest conservation in Ghana's coastal savannas: Assessing ecological and social dimensions. *Singapore Journal of Tropical Geography*, 26: 151-169.
- Cardelus, C.L., Scull, P., Hair, H., Baimas-George, M., Lowman, M.D. and Eshete, A.W. (2013). A Preliminary Assessment of Ethiopian Sacred Grove Status at the Landscape and Ecosystem Scales. *Diversity*, 5: 320-334.
- Cardinale, B.J., Matulich, K.L., Hooper, D.U., Byrnes, J.E., Duffy, E., Gamfeldt, L., Balvanera, P., O'Connor, M.I. and Gonzalez, A. (2011). The functional role of producer diversity in ecosystems. *Am. J. Bot.*, 98: 572-592.
- Castro, P. (1990). Sacred Groves and Social Change in Kirinyaga, Kenya. In: Chaikan, M. and Fleverts, A. (eds.), *Social Change and Applied Anthropology*, Boulden: Westview Press.
- CECOEDECON. Undated. Orans: Marubhumi Me Hariyali Ki Chadar (Shil ke Dungri, Chaksu, CECOEDECON).
- Chakrabarti, S. (2010). Conservation of orchids by the people of North Eastern India. *NeBio*, 1: 48-52.

- Chandran, M. D. S., Gadgil, M. and Hughes, J. D. (1998). Sacred groves of the Western Ghats. In: Ramakrishnan, P.S., Saxena, K.G. and Chandrasekara, U.M. (eds.) *Conserving the Sacred for Biodiversity Management*, Oxford and IBH, New Delhi. pp. 211-32
- Chandran, M. D. S. and Hughes, J.D. (2000). Sacred Groves and Conservation: The Comparative History of Traditional Reserves in the Mediterranean Area and in South India. *Environment and History*, 6: 169–86.
- Chandran, S. and Gadgil, M. (1998). Sacred groves and sacred trees of Uttara Kannada. *Lifestyle and Ecology*. Indira Gandhi National Centre for the Arts and D.K. Printworld, Pvt. Ltd., New Delhi
- Bhandari, M.M., 1990. *Flora of the Indian desert*, M.P.S. Repros, Rajasthan.
- Chandrashekara, U. M. (2011). Cultural and Conservation Values of Sacred Groves of Kerala, India. *International J. Ecology and Environmental Sci.*, 37: 143-155.
- Chandrashekara, U. M. and Sankar, S. (1998). Structure and Function of sacred groves; Case study in Kerala, pages 223-235.
- Chao, A. and Shen, T.J. (2003). Nonparametric estimation of Shannon's index of diversity when there are unseen species in sample. *Environmental and Ecological Statistics*, 10: 429-443.
- Chao, A., Gotelli, N.J., Hsieh, T.C., Sander, E.L., Ma, K.H., Colwell, R.K. and Ellison, A.M. (2014). Rarefaction and extrapolation with Hill numbers: a framework for sampling and estimation in species diversity studies. *Ecological Monographs*, 84: 45–67.
- Chaudhary, H.C., Dimri, B.M. and Choudhary, K.R. (2002). Brief introduction to comprehensive community drought preparedness programme to improve quality of life of women and children in Jodhpur district. In: proceeding of workshop on 'Development of suitable strategy for rehabilitation of Orans and Gauchar in Rajasthan held at AFRI, Jodhpur on 16-17 April, 2002.
- Chen, J., Brosnoff, K. D., Noormets, A., Crow, T. R., Bresee, M. K., Le Moine, J. M., Euskirchen, E. S., Mather, S. V., Zheng, D. (2004). A working framework for quantifying carbon sequestration in disturbed land mosaics. *Environmental Management* 34: S210–S221
- Chatterjee, S., Sastry, A.R.K., Roy, B.N. and Lahon, R. (2000). Sacred groves of Sikkim and Arunachal Pradesh. Abstract. National Workshop on Community Strategies on the Management of Natural Resources, Bhopal.

- Choudhary, K., Singh, M. and Pillai, U. (2008). Ethnobotanical survey of rajasthan - an update. *American-Eurasian Journal of Botany*, 1: 38-45.
- Christopher L. C. E. W.(2014), Trees and the sacred. <http://witcombe.sbc.edu/sacredplaces/trees.html>. Accessed on 5th July 2014.
- Christopher, M., Tankou, C.M., De Snoo, G.R., De Iongh, H.H. and Persoon, G. (2014). Variation in plant biodiversity across sacred groves and fallows in Western Highlands of Cameroon. *African J. Ecology*, 52: 10-19.
- Colding, J., and Folke, C. (2001). Social taboos: “Invisible” systems of local resource management and biological conservation. *Ecological Applications*, 11: 584-600.
- Conservation in Indian Thar Desert. *Current Science*, 93: 279-280.
- DAFF Queensland (2013) [online] available at: http://www.daff.qld.gov.au/__data/assets/pdf_
- Dafni, A. (2007). The supernatural characters and powers of sacred trees in the Holy Land. *J. Ethnobiology and Ethnomedicine*, 3: 10.
- Dagla, H.R., Paliwal, A. and Shekhawat, N.S. (2007). Oran: A sacred way for biodiversity conservation in Indian Thar Desert. *Current Science*, 93: 279.
- Dande, R. (2014). Traditional community management system to climate variability: Case of common property resources in Thar desert of Western Rajasthan. <http://admin.indiaenvironmentportal.org.in/files/file/Rucha%20Dande.pdf>. Accessed on 28th May 2014.
- Day, M.D., Wiley, C.J., Playford, J. and Zalucki, M.P. (2003). Lantana: Current Management, Status and Future Prospects. Australian Centre for International Agricultural Research, 5: 1-20.
- Deb, D. (2007). Sacred Groves of West Bengal: A Model of Community Forest Management? Dr. Oliver Springate-Baginski, Overseas Development Group, University of East Anglia, Norwich NR4 7TJ, UK.
- Deb, D., Deuti, K. and Malhotra, K.C. (1997). Sacred grove relics as bird refugia. *Current Science*, 73: 815-817.
- Deshmukh, S., Gogate, M.G. and Gupta, A.K. (1998). Sacred groves and biological diversity : Providing new dimensions to conservation Issue, In: Ramakrishnan, P.S., Saxena K.G. and Chandrashekara, U.M. (eds.). *Conserving, the Sacred for Biodiversity Management*. Oxford and IBH Publishing Co., New Delhi. pp. 397-414.

- Dev, A. and De, J.N. (2012). Traditional use of plants against snakebite in Indian subcontinent: a review of the recent literature. *Afr J Tradit Complement Altern Med.*, 9: 153–174.
- Devagiri, G.M., Kushalappa, C.G., Prakash, N.A., Mohan, G.S., Raghu, H.B. and Satish, B.N. (2012). Payment for carbon sequestration service: a tool for sustainable management of kodagu landscape in central Western Ghats. *Seronica Journal*, 3: 1-7. http://www.seroindia.org/Article_GMD32.pdf
- Devi, S. (2000). Sacred groves of Manipur. Abstract.National Workshop on Community Strategies on the Management of Natural Resources. Bhopal.
- Dixit, S., Tewari, J.C., Wani, S.P., Vineela, C. Chaurashia, A.K. and Panchal, H.B. (2007). Participatory and conventional Biodiversity assessment: Creating awareness for better natural resource management. *Annals of Arid Zone*, 46: 197-204.
- Donovan, G.H., Butry, D.T., Michael, Y.L., Prestemon, J.P., Liebhold, A.M., Gatziolis, D. and Mao, M.Y. (2013). The relationship between trees and human health: evidence from the spread of the emerald ash borer. *Am J Prev Med.*, 44: 139-145.
- Eaton, D.A.R., Fenster, C.B., Hereford J., Huang, S. and Ree, R.H. (2012). Floral diversity and community structure in *Pedicularis* (Orobanchaceae). *Ecology*, 93: S182–S194.
- EPCO (2001). Pachmarhi Biosphere Reserve. Environmental Planning and Co-ordination Organization, Bhopal.
- FAO., 2010. Global Forest Resources Assessment 2010. Food and Agriculture Organization, Rome. Paper No. 163.
- Fernandes, W. (1993). Forest and tribals, informal economy: Dependence and management decision, In: Miri (ed.), Community and Change in Tribal Society, Indian Institute of Advanced Study, Shimla.
- file/0004/73489/IPA-Mesquite-PP37.pdf Accessed on January 22th 2014.
- Fowler-Smith, L. (2009). Hindu tree veneration as a mode of environmental encounter. *Leonardo*, 42: 43–51.
- Frazer, J.B. (1915). *The Golden Bough*. London: MacMillian & Co.
- Fu, D., Duan, C., Hou, X., Xia, T. and Gao, K. (2009). Patterns and relationships of plant traits, community structural attributes, and eco-hydrological functions during a subtropical secondary succession in central Yunnan (southwest China). *Arch. Biol. Sci., Belgrade*, 61: 741-749.

- Gadgil, M. and Berkes, F. (1991). Traditional resource management systems. *Resource Management and Optimization*, 18: 127-141.
- Gadgil, M. and Vartak, V.D. (1976). Sacred Groves of Western Ghats in India. *Economic Botany*, 30: 152-160.
- Gadgil, M., Berkes, F. and Folke, C. (1993). Indigenous Knowledge for Biodiversity Conservation. *A Journal of the Human Environment*, 22: 151-156.
- Gaikwad, S.S., Paralikar S.N., Chavan V. and Krishnan S. (2004). Digitizing Indian sacred groves - an information model for web interfaced multimedia database. pp: 123-128. In: Ghate, V., Hema, S. and Ranade, S.S. (eds.) Focus on Sacred Groves and Ethnobotany: Prissam publications, Mumbai.
- Gandhi, K. and Vardhan, M. (1997). Documentation of people's knowledge and perception about biodiversity and conservation across selected ecosystems and agroecological zones in Rajasthan. Sewa Mandir, Udaipur, Rajasthan.
- Garg, A. and Singh, V. (2013b). Siddhwari sacred grove in Upper Ganga Ramsar site of Uttar Pradesh. *Current Science*, 105: 1039-1040.
- Garg, A. and Singh, V. (2013a). Mandu sacred grove in Upper Ganga Ramsar site, Uttar Pradesh. *Current Science*, 104: 409.
- Geesing, D., Al-Khawlani, M. and Abba, M.L. (2004). Management of introduced *Prosopis juliflora* species: can economic exploitation control an invasive species? *Unasylva*, 55: 36-44.
- Ghosh, A.K. and Tiwari, K.K. (1984). Biodiversity conservation in North-East India: Problems and Realities. In: Tripathi, R.S. (ed.), *Resources Potentials of North-East India Vol. II (Living Resources)*, Meghalaya Science Society, Shillong. pp.: 105-109.
- Godbole, A., Watv, A., Prabhu, S. and Sarnaik, J. (1998) Role of sacred groves in biodiversity conservation with local people's participation: A case study from Ratnagiri district, Maharashtra. In: Ramakrishnan PS, Saxena KG, Chandrashekara UM (eds) *Conserving the Sacred for Biodiversity Management*, Oxford and IBH Publishing Co., New Delhi. pp 233-246
- Gogkale, Y., Pala, N.A., Negi, A.K., Bhat, J.A. and Todaria, N.P. (2011). Sacred landscapes as repositories of biodiversity. a case study from the Hariyali Devi sacred landscape, Uttarakhand. ISSN: 2067-533X.

- GOI Monitor (2013). The Orans of Rajasthan: On the knees to nature. <http://www.thealternative.in/society/on-the-knees-to-nature/>. Accessed on 8th July 2014.
- Gokhale, Y. and Pala, N.A. (2011). Ecosystem Services in Sacred Natural Sites (SNSs) of Uttarakhand: A Preliminary Survey. *J Biodiversity*, 2: 107-115.
- Gokhale, Y. (2000). Sacred conservation tradition in India: An overview. Abstract. National Workshop on Community Strategies on the Management of Natural Resources. Bhopal.
- Gold, A.G. and Gujar, B.R. (1989). Of Gods, Trees and Boundaries: Divine Conservation in Rajasthan. *Asian Folklore Studies*, 48: 221-229.
- Gorshunova, O.V. (2008). Sacred trees of khodzhi baror: phytolatry and the cult of female deity in central Asia. *Etnoragraficheskoe Obozrenie*, 1: 71-82.
- Government of Rajasthan (2012). Rajasthan Agriculture Competitiveness Project: Social Assessment and Management Framework. Department of Agriculture, Government of Rajasthan, Jaipur
- Gowda, B. (2006). Sacred Plants. Kalpataru Research Academy, Bangalore.
- Gupta, A., Shukla, S., Koradiya, D., Bhavsar, P., Ramji, A., Patel, P. and Taviyad, R. (2000). A cultural and ecological study of sacred groves in Balaram Ambaji and Jessore sanctuary in Banaskantha district of Gujarat. Abstract. National Workshop on Community Strategies on the Management of Natural Resources. Bhopal.
- Gupta, B. and Sharma, S. (2014). Estimation of biomass and carbon sequestration of trees in informally protected areas of Rajouri, J&K, India. *It. Res. J. Environment Sci.*, 3: 56-61.
- Haberman, D.L. (2013). People trees: worship of trees in northern India. Oxford University Press, New York.
- Hangarge L.M., Kulkarni, D.K., Gaikwad, V.B., Mahajan, D.M. and Chaudhari, N. (2012). Carbon Sequestration potential of tree species in Somjaichi Rai (Sacred grove) at Nandghur village, in Bhor region of Pune District, Maharashtra State, India. *Annals of Biological Research*, 3: 3426-3442.
- Haregeweyn, N., Tsunekawa, A., Tsubo, M., Meshesha, D. and Melkie, A. (2013). Analysis of the invasion rate, impacts and control measures of *Prosopis juliflora*: a case study of Amibara District, Eastern Ethiopia. *Environ Monit Assess.*, 185: 7527-7542.
- Haridasan, K. and Rao, P. R. (1985). Forest Flora of Meghalaya, Vol . 1, Bishen Singh , Dehradun.

- Hembram, P.C. (1983). Return to the Sacred Groves. In: Singh, K.S. (ed.), *Tribal Movements in India*, New Delhi.
- Hemmat, M.A., Shamekhi, T., Zobeiry, M. and Tabatabaei, M.G. (2012). Sacred Places: Instances of Natural Heritage and Cultural Landscapes in Northern Iran. *Archives Des Sciences*, 65: 605-612.
- Hooker, J. D. (1897). *Flora of British India*. 7: 156. L. Reeve & co. London.
- Hubert, J. (np). Sacred belief and beliefs of sacredness. http://www.columbia.edu/itc/anthropology/schildkrout/6353/client_edit/week9/anth_g6353.pdf. Accessed on 18th July 2014.
- Hughes, J.D. (1990). *Pan's Travel: Environmental Problems of the Ancient Greek and Romans*. Johns Hopkins University Press, Baltimore.
- Hughes, J.D. and Chandran, M.D.S. (1998). Sacred groves around the earth: an overview. In: Ramakrishnan P.S., Saxena, K.G. and Chandrashekhara U.M. (eds) *Conserving the Sacred for Biodiversity Management*. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi. pp. 69-86.
- IPCC (2007). *Fourth Assessment Report: Climate Change, 2007 (AR4)*.
- Isbell, F., Calcagno, V., Hector, A., Connolly, J., Harpole, W.S., Reich, P.B., Lorenzen, M.S., Schmid, B., Tilman, D., van Ruijven, J., Weigelt, A., Wilsey, B.J., Zavaletas, E. and Loreau, M. (2011). High plant diversity is needed to maintain ecosystem services. *Nature*, 477: 199-202.
- Iyer, S. (2010). Major threats to the Sacred Groves of India. *EcoNews*, 16: 27-30.
- Jackson, M.L. (1973). *Soil Chemical Analysis (II Edition)*. Prentice Hall of India Private Limited, New Delhi, India
- Jain, P. (2011). *Dharma and Ecology of Hindu Communities: Sustenance and Sustainability*. Ashgate Publishing Ltd, Surrey, U.K.
- Jamir, S.A. and Pandey, H.N. (2002). Status of biodiversity in the sacred groves of Jaintia Hills, Meghalaya. *The Indian Forester*, 59: 738-744.
- Jaryan, V, Uniyal Gopichand, S.K., Singh, R.D., Lal, B., Kumar, A. and Sharma, V. (2010). Role of traditional conservation practice: highlighting the importance of Shivbari sacred grove in biodiversity conservation. *Environmentalist*, 30: 101-110.

- Jayakumar, R. and Nair, K.K.N. (2013). Species Diversity and Tree Regeneration Patterns in Tropical Forests of the Western Ghats, India. *ISRN Ecology*, pp:14. <http://dx.doi.org/10.1155/2013/890862>
- Jayanthi, N., Rajeevan, M., Srivastava, A. K., Devi, S., Roy, Bhowmik, S. K. and Hatwar, H. R., (2006). Monsoon 2006 -A Report, IMD Met Monograph, 4:103.
- Jayapal, J., Tangavelou, A.C. and Panneerselvam, A. (2014). Studies on the plant diversity of Muniandavar sacred groves of Thiruvaiyaru, Thanjavur, Tamil Nadu, India. *Hygeia. J. D. Med.*, 6: 48-62.
- Jayson, E.A. (1990). An Ecological Survey at Satpura National Park, Pachmarhi and Bori Sanctuaries, Madhya Pradesh. *Indian Journal of Forestry*, 13: 288-294.
- Jeeva S., Mishra, B.P., Venugopal, N., Kharlukhi, L. and Laloo, R.C. (2006). Traditional knowledge and biodiversity conservation in the sacred groves of Mehalaya. *Indian J. Tradit Knowle.*, 5: 563 -568.
- Jeeva, S., Mishra, B.P., Venugopal, N. and Laloo, R.C. (2005). Sacred forests: Traditional ecological knowledge heritage in Mehalaya. *J.Scott. Res. Forum.*, 1: 93-97.
- Jha, M., Vardhan, H., Chatterjee, S., Kumar, K. and Sastry, A.R.K. (1998). Status of Orans (Sacred Groves) in Peepasar and Khejarli Villages in Rajasthan. In: *Conserving the Sacred for Biodiversity Management*. Oxford and IBH, New Delhi.
- Joshi, P. and Shrivastava, Y. (2000). Drops of Nature Conservation-Sacred Grove. *Journal of Human Ecology*, 11: 327-330.
- Joshi, S. and Shringi, S.K. (2014). Floristic diversity with special reference to rare and threatened plants of jawahar sagar sanctuary area near Kota Rajasthan. *Biological Forum: an International Journal*, 6: 84-91.
- Jost, L. (2006). Entropy and diversity. *Oikos*, 113: 363–375.
- Kakar, K. (2013). *Moving to Goa*. Penguin UK, Biography & Autobiography. pp: 240.
- Kala, C.P. (2005). Ethnomedicinal Botany of the Apatani in the Eastern Himalayan Region of India. *Journal of Ethnobiology and Ethnomedicine*, 1: 1-12.
- Kala, C.P. (2010). Ethnobotanical and Ecological Approaches for Conservation of Medicinal and Aromatic Plants. *Acta Horticulturae*, 860: 19-26.
- Kala, C.P. (2010). Home Gardens and Management of Key Species in the Pachmarhi Biosphere Reserve of India. *Journal of Biodiversity*, 1: 111-117.

- Kala, C.P. (2011). Traditional Ecological Knowledge, Sacred Groves and Conservation of Biodiversity in the Pachmarhi Biosphere Reserve of India. *Journal of Environmental Protection*, 2: 967-973.
- Kalam, M.A. (1996). Sacred Groves in Kodagu District of Karnataka (South India): A SocioHistorical Study, Institute Francais de Pondichery, Pondichery.
- Kandari, L.S., Bisht, V.K., Bhardwaj, M. and Thakur, A.K. (2014). Conservation and management of sacred groves, myths and beliefs of tribal communities: a case study from north-India. *Environmental Systems Research*, 3:16.
- Kent, E.F. (2013). Sacred groves and local gods: religion and environmentalism in south India. Oxford University press, Madison Avenue, New York. pp: 223.
- Khaladkar, R. M., Mahajan, P. N., Kulkarni, J. R. (2009), Alarming Rise in the Number and Intensity of Extreme Point Rainfall Events over the Indian Region under Climate Change Scenario, Research Report No. RR-123” august 2009, ISSN 0252-1075., IITM-India
- Khandal, D. (2014). Save sacred groves to save our forests. <http://www.mydigitalfc.com/leisure-writing/save-sacred-groves-save-our-forests-581>. Accessed on 17th July 2014.
- Khanwalkar, S. (2005). Rajasthan: Tales of co-existence. In: Community Conserved Areas in India- a directory. Pp: 573-586. http://www.kalpavriksh.org/images/CCA/Directory/Rajasthan_StateChapter.pdf. Accessed on 27th May 2014.
- Khiewtam, R.S. and Ramakrishnan, P.S. (1989). Socio-cultural studies at the sacred groves at Cherrapunji and adjoining areas in north-eastern India. *Man in India*, 69: 64-71.
- Khoshoo, T.N. (1986). *Environmental Priorities in India and Sustainable Development*. Presidential address, 73rd session, India Science Congress Association, New Delhi.
- Khoshoo, T.N. (1994). Census of India’s Biodiversity: Tasks Ahead. *Current Science*, 67: 577-582.
- Khumbongmayum, A.D., Khan, M.L. and Tripathi, R.S. (2004). Sacred Groves of Manipur-Ideal Centres of Biodiversity Conservation. *Current Science*, 87: 430-433.
- Khurana, I. (1998). Unnatural decline. *Down To Earth*, 6: 34-38.
- King-Oliver, I.E.D., Chitra, V. and Narasimha, D. (1997). Sacred groves: traditional ecological heritage. *Int J Ecol Environ Sci*, 23: 463-470.
- Koradia, D. (2000). Sacred groves in Dryland sanctuaries. *Honey Bee*, 11: 19-20.

- Kosambi, D.D. (1962). *Myth and Reality*. Bombay: Popular Prakashan.
- Kotwal, P.C. and Banerjee, S. (2000). *Biodiversity Conservation in Managed Forests and Protected Areas*. Agribios (India) Publications, Jodhpur. Pp: 217-224.
- Kour, K. and Sharma, S. (2014). Diversity and phytosociological analysis of tree species in sacred groves of Vijaypur Block, Samba (J&K). *International Journal of Science and Research*, 3: 859-862.
- Krishna, N. (2013). Orans of Rajasthan. <http://www.heritageonline.in/2013/10/natural-heritage-discussion-3/>. Accessed on 17th July 2014.
- Kulkarni, D. K. and Nipunage, D.S. (2009). Floristic diversity and ecological evaluation of 'Dhup-Rahat' sacred grove from Pune district. *Geobios*, 36: 298-302.
- Kulkarni, D.K., Nipunage, D.S., Hangarge, L.M. and Kamble, P.B. (2010). Natural heritage of forest conservation in Bhor region of Pune, India. *Asian J. of Environmental Sci.*, 5: 94-98.
- Kulkarni, S. and Kulkarni, D. K. (2013). Kalamvihira Sacred grove-A potential tree growth for carbon sequestration in Jawhar taluka of Thane district. *Annals of Biological Research*, 4: 119-123.
- Kumar, K., Manhas, R.K. and Magotra, R. (2011). The Shankaracharya sacred grove of Srinagar, Kashmir, India. *Current Science*, 101: 262-263.
- Kangah-Kesse, L., Attuquayefio, D., Owusu, E. and Gbogbo, F. (2003). Bird Species Diversity and Abundance in the Abiriw Sacred Grove in the Eastern Region of Ghana.
- Laloo, R.C., Kharlukhi, L., Jeeva, S. and Mishra, B.P. (2006). Status of medicinal plants in the disturbed and the undisturbed sacred forests of Meghalaya, northeast India: population structure and regeneration efficacy of some important species. *Current Science*, 90: 225-232.
- Lee, C. and Wauchope, S. (2003). The Importance of Sacred Natural Sites for Biodiversity Conservation. Proceedings of the international workshop on the importance of sacred natural sites for biodiversity conservation held in Kunming and Xishuangbanna Biosphere Reserve. People's Republic of China.
- Lima, T.T.S., Miranda, I.S. and Vasconcelos, S.S. (2010). Effects of water and nutrient availability on fine root growth in eastern Amazonian forest regrowth, Brazil. *New Phytologist*, 187: 622-630.

- Little, P.D. and Brokensha, W. (1987). Local Institutions, Tenure and Resource Management in East Africa. In: Anderson, D. and Grove, R. (eds.), Conservation in African People, Policies and Practice, Cambridge: Cambridge University Press.
- Love, A., Babu, S. and Babu, C.R. (2009). Management of Lantana: an invasive alien weed, in forest ecosystem of India. *Current Science*. 97: 1421-1429.
- Ludwing, J.A. and Renolds, J.F. (1988). *Statistical Ecology*. John Wiley and Song, New York. Pp: 337.
- Madeweya, K.H. Oka, H. and Matsumoto, M. (2004). Sustainable Management of Sacred Forests and Their Potential for Eco-Tourism in Zanzibar. *Bulletin of FFPRI*, 3: 33-48.
- Magurran, A.E. (1988). *Ecological Diversity and Its Measurement*, Princeton: Princeton University Press, 110 p.
- Mahbal, K.B. (2013). India – Farms robbed of water, farmers livelihood. <http://www.kractivist.org/tag/irrigation/>
- Malhotra, K.C. (1998). Anthropological dimensions of sacred groves in India: an overview. Pages 423-438, In: Ramakrishnan, P.S., Saxena, K.G. and Chandrashekara, U.M. (Editors) *Conserving the Sacred for Biodiversity Management*. UNESCO and Oxford-IBH Publishing, New Delhi
- Malhotra, K.C., Ghokhale, Y., Chatterjee, S. and Srivastava, S. (2001). Cultural and Ecological Dimensions of Sacred Groves in India. INSA, New Delhi.
- Malhotra, K.C., Gokhale, Y., Chaterjee, S. and Srivastava, S. (2007) *Sacred Groves of India: An overview*. Aryan Books, New Delhi. pp: 170.
- Malhotra, K.C., Gokhale, Y., Chatterjee, S. and Srivastava, S. (1999). *Sacred Groves in India: An Overview*. National Museum of Mankind, Bhopal.
- Malhotra, K.C., Stanley, S., Hemam, N.S. and Das, K. (1997). Biodiversity conservation and ethics: Sacred groves and pools, In: Fujiki, N. and Macer, R.J. (eds.) *Bioethics in Asia*, Eubois Ethics Institute, Japan. pp: 33845.
- Manikandan, P., Venkatesh, D. R. and Muthuchelian, K. (2011). Conservation and Management of Sacred groves in Theni District, Tamil Nadu, India. *J. Biosci. Res.*, 2: 76-80.
- Maru, R.N. and Patel, R.S. (2013). Ethno-botanical survey of sacred groves and sacred plants of jhalod and surrounding areas in Dahod district, Gujarat, India. *Research Journal of Recent Sciences*, 2: 130-135.

- McNeely, J.A., Miller, K.R., Reid, W.R. and Werner, T.B. (1990). *Conserving the World's Biological Diversity*. IUCN, Gland, Switzerland.
- Medhi, P. and Borthakur, S.K. (2013). . Sacred groves and sacred plants of the Dimasas of North Cachar Hills of Northeast India. *African Journal of Plant Science*, 7: 67-77.
- Meena, D. and Singh, A. (2012). Oran of Rohida: an endangered tree species of Rajasthan. *Current Sci.*, 103: 189.
- Meenakshi, B., Chauhan, N.S. and Kak, A. (2011). Dye yielding plants of Himachal Pradesh. *J Econo Taxon Bot.*, 35: 429-432.
- Mgunia, F.H. and Oba, G. (2003). Potential role of sacred groves in biodiversity conservation in Tanzania. *Environmental Conservation*, pp: 259-266.
- Misra, R. (1968). *Ecology Work-Book*. Oxford and IBH Publishing Co., New Delhi.
- Mitra, A. and Pal, S. (1994). Besieged the forests of the Gods;The sprit of sanctuary. *Down to Earth* (January 31): 21-36.
- Mohanan, C. N. and Nair, N. C.(1981). *Kunstleria Pram-* a new genus record for India and a new species in the genus.*Proc. Ind. Acad. Sci. B* 90:207-210
- Mondal, K. and Roy, M. (2010). *Sacred grove: its significance in biodiversity conservation*. LAP Lambert Academic Publishing.
- Murthy, D.B.N. (2006). Sacred trees. *The Hindu*, November 3, 2006.
- NAEB (1995). *Sacred groves of Kurukshetra, Haryana*. National Afforestation and Ecodevelopment Board, Ministry of Environment and Forests, Govt. 'of India, New Delhi.
- Nair, G.H., et al Sacred groves of India – vanishing greenery, *Current Science* 1997;72(10):697-698
- Nath, Y.V.S. (1960). *Bhils of Ratanmal*, Maharaja Sayajirao University. Baroda. Oxford and IBH Publishing Co., New Delhi.
- Ormsby, A. (2013). Analysis of Local attitudes toward the sacred groves of meghalaya and karnataka, India. *Conservation Society*, 11: 187-197.
- Ormsby, A. A. and Bhagwat, S. A. (2010). Sacred forests of India: a strong tradition of community-based natural resource management. *Environmental Conservation*, 37: 320-326.

- Ormsby, A. and Edelman, C. (2010). Tafi Atome Monkey Sanctuary, Ghana: Community-based ecotourism at a sacred site. In: *Sacred natural sites: Conserving nature and culture* (eds. Verschuuren, B., Wild, R., McNeely, J. and Oviedo G.). pp: 233-243.
- Ormsby, A.A. (2011). The impacts of global and national policy on the management and conservation of sacred groves of India. *Human Ecology*, 39: 783-793.
- Pala, N.A., Negi, A.K., Vikrant, K.K., Gokhale, Y. and Todaria, N. P. (2013). Carbon storage in sacred groves-A Study from Chanderbadni sacred grove in Garhwal Himalaya, Uttarakhand, India. *Journal of Biodiversity and Ecological Sciences*, 3: 75-79.
- Pandey, A. (2000). From Sarana (sacred groves) to sustainable natural resources management. Abstract. National Workshops on Community Strategies on the Management of Natural Resources. Bhopal.
- Pandey, D.N. (1998). *Ethnoforestry: Local Knowledge for Sustainable Forestry and Livelihood Security*. Himanshu Publications, Udaipur.
- Pandey, D.N. (1998b). Sacred Groves, Sacred Corridors, Sacred Gardens and Temple Forests of Rajasthan. Paper presented in The National Workshop on Sacred Groves at CPR Environmental Education Centre, Chennai.
- Pandey, D.N. (1999). Sacred Forestry: The Case of Rajasthan, India. *Sustainable Development International*, pp: 1-6. available at: <http://www.p2pays.org/ref/40/39748.pdf>. Accessed on 25th July 2014.
- Pandey, D.N. (2000). Sacred Water and Sanctified Vegetation: Tanks and Trees in India. <http://dlc.dlib.indiana.edu/dlc/bitstream/handle/10535/2384/pandeyd041700.pdf?sequence=1>. Accessed on 27th May 2014
- Pandit, P.K. and Bhakat, R.K. (2007). Conserving of biodiversity and ethnic culture through sacred groves in Midnapore District, West Bengal, India. *Indian Forester*, 133: 323-344.
- Participation and scaling up Farmer Empowerment". Eds. T M Radha, TM; Tafur, JC; Mertineit, A; Yap, E. (MISEREOR). Pg 52-55
- Patel, P.K. and Patel, M.K. (2013). Sacred groves in conservation of plant biodiversity in Banaskantha district, Gujarat, India. *Recent Research in Science and Technology*, 5: 13-16.

- Patel, R., Mahato, A.K.R. and Patel, Y.S. (2014). Study on the floristic diversity of two newly recorded sacred groves from Kachchh district of Gujarat, India. *Indian Journal of Plant Sciences*, 3: 75-81.
- Patil, S. (1982). *Dasa-Sudra, Slavery*. New Delhi: Allied Publishers.
- Patnaik, S. and Pandey, A. (1998). A study of indigenous community based forest management system: Sarna (sacred groves). In: Ramakrishnan, P.S., Saxena, K.G. and Chandrasekara, U.M. (eds.) *Conserving the Sacred for Biodiversity Management*, Oxford and IBH, New York, pp: 315-322.
- Pearce, D.W. and Moran, D. (1994). *The Economic Value of Biodiversity*. Earthscan, London. P: 24.
- Pielou, E.C. (1966). The Measurement of Diversity in Different Types of Biological Collections, *J. Theor. Biol.*, no. 13, pp. 145–163.
- Primack, R. and Higuchi, H. (2006). Climate change and cherry tree blossom festivals in Japan. *Arnoldia*, 65: 15-22. <http://people.bu.edu/primack/cherries.pdf>. Accessed on 16th July 2014.
- Priya, K. and Sharma, S. (2014). Deteriorating condition of sacred groves in Jammu city and its surroundings, J&K. *International Journal of Scientific Research*, 3: 213-215.
- Priyanka, N. and Joshi P. K. (2013). A review of *Lantana camara* studies in India. *International Journal of Scientific and Research Publications*, 3: 1-11.
- Pruthi, I. and Burch, W. J. (2009). A socio-ecological study of sacred groves and memorial parks: Cases from USA and India. *J. Environ. Sci. Eng.*, 1: 7-14.
- Pundee, S. (2007). Rare trees in forest fragments– will they survive? A study of four climax forest tree species within sacred groves of the Konkan region (northern Western Ghats). Project Report Applied Environmental Research Foundation (AERF), Kothrud, Pune-411029, Maharashtra - INDIA
- Pushpagandan, P., Rajendraprasad, M. and Krishnan, P.N. (1998). Sacred groves of Kerala synthesis on the state of the art of knowledge. In: Ramakrishnan, P.S., Saxena, K.G. and Chandrashekhara, U.M. (eds.) *Conserving the Sacred for Biodiversity Management*. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi. pp: 193-209.
- Quiroz, D. (2013). The role of Spritual values. <http://www.ciwem.org/news/2013/aug/the-role-of-spiritual-values.aspx>

- Rahangdale, C.P., Patley, R.K. and Yadav, K.C. (2014). Phytodiversity of Ethnomedicinal plants in Sacred groves and its Traditional Uses in Kabirdham District of Chhattisgarh. <http://www.academia.edu/3642503/>. Accessed on 11th July 2014.
- Rajendraprasad, M. (1995). The Floristic, Structural and Functional Analysis of Sacred Groves of Kerala, Ph.D. thesis, University of Kerala, Thiruvananthapuram.
- Ramachandran, B. (1999). Significance of Kavu - A Note on the Sacred Grove of Kerala in Eco-Cultural Context. *Journal of Human Ecology*, 10: 285-288.
- Ramakrishnan, P.S. (1998). Conserving the sacred for biodiversity: the conceptual framework. In: Ramakrishnan, P.S., Saxena, K.G. and Chandrashekhara, U.M. (eds.), *Conserving the sacred for biodiversity management*, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi. pp: 3-15.
- Ramakrishnan, P.S. (2001). Increasing population and declining biological resources in the context of global change and globalization. *Journal of Bioscience*, 26: 465-479.
- Ramakrishnan, P.S. (2002). What is Traditional Ecological Knowledge? In: Ramakrishnan, P.S., Rai, R.K., Katwal, R.P.S. and Mehndiratta, S. (eds.), *Traditional Ecological Knowledge for Managing the Biosphere Reserve in South and Central Asia*, Oxford University Press, New Delhi. pp: 3-12.
- Ramesh, B.R. and Pascal, J.P. (1997). *Atlas of Endemics of the Western Ghats (India)*, Institute Francais, Pondicherry.
- Ramesh, M. and Ishwar, N.M. (2008). Status and distribution of the Indian spiny-tailed lizard *Uromastyx hardwickii* in the Thar Desert, Western Rajasthan. GNAPE Technical Report No T02. pp: 48.
- Rao, B.R.P. and Sunitha, S. (2011). Medicinal plant resources of Rudrakod sacred grove in Nallamalais, Andhra Pradesh, India. *J. Biodiversity*, 2: 75-89.
- Rao, B.R.P., Babu, M.V.S., Reddy, M.S., Reddy, A.M., Rao, V.S., Sunitha, S. and Ganeshaiyah, K.N. (2011). Sacred groves in southern Eastern Ghats, India: Are they better managed than forest reserves? *Tropical Ecology*, 52: 79-90.
- Rao, K.N. and Nayudu, M.V. (1979). *Plant Wealth of Seven Hills*, T.T.D. Publications, Tirupati.
- Rao, M.L.S., Ramakrishna, N. and Saidulu, C.H. (2014). Ethno-veterinary herbal remedies of Gujjars and other folklore communities of Alwar district, Rajasthan, India. *Int. J. Ayur. Pharma Research*, 2: 40-45.

- Rathore, M.S. and Shekhawat, N.S. (2012). Ethnobotanical importance of Orans - as a means of conserving biodiversity. *Intern. J. Agric. Sci., Res. and Techn.*, 1: 195-200.
- Rawat, V.S. (2012). Fine root biomass and soil nutrients in van panchayat forest of Almora district. *Indian Journal of Plant Sciences*, 1: 101-108.
- Ray, R.M., Chandran, D.S. and Ramachandra, T.V. (2014). Biodiversity and ecological assessments of Indian sacred groves. *J. Forestry Research*, 25: 21-28.
- Roy Burman, J.J. (2014). Sacred Groves: A Cultural Symbol of Tribal Political Self-Assertion. *Journal of Tribal Intellectual Collective India*, 1: 37-47.
- Roy Burman, J.J. (1992). The institution of sacred groves, *Journal of Indian Anthropological Society*, 27: 219-38.
- Roy Burman, J.J. (1995). The dynamics of sacred groves. I. *Human Ecol.*, 6: 245-254.
- Roy Burman, J.J. (1996). A comparison of sacred groves among the Mahadeo Kolis and Kunbis of Maharashtra. *Indian Anthropologist*, 26: 3746.
- Saha, Suranjana, and Coauthors, (2010): The NCEP Climate Forecast System Reanalysis. *Bull. Amer. Meteor. Soc.*, **91**, 1015–1057.
- Sahu, P.K., Kumari, A., Sao, S., Singh, M. and Pandey, P. (2013). Sacred plants and their Ethnobotanical importance in central India: A mini review. *Int. J. of Pharm. & Life Sci.* 4: 2910-2914.
- Sajwan, B.S. and Kala, C.P. (2007). Conservation of medicinal plants: conventional and contemporary strategies, regulations and executions. *Indian Forester*, 133: 484-495.
- Sambandan, K. and Dhatchanamorthy, N. (2012). Studies on the Phytodiversity of a Sacred Grove and its Traditional Uses in Karaikal District, U.T. Puducherry. *Journal of Phytology*, 4: 16-21.
- Sarfo-Mesah, P., Oduro, W., Fredua, E.A. and Amisah, S. (2010). Traditional Representations of the Natural Environment and Biodiversity Conservation: Sacred Groves in Ghana. *FEEM Working Paper No. 87.2010* Available at SSRN: <http://ssrn.com/abstract=1665065> or <http://dx.doi.org/10.2139/ssrn.1665065>
- Sebastiano, T. (2009). Research, protection and evaluation of Sicilian and Mediterranean marine cultural heritage. *Conservation Science- In Cultural Heritage*, 9: 79-112.
- Sehgal, J. and Abrol, P.(1994). *Soil Degradation in India: Status and Impact*, Oxford and IBH Publishing Pvt. Ltd.

- Sen, S. 1989. Urbanisation and Erosion in Traditional Values and Practices in the Tribal Setting of North-east India. In: Gupta, A. and Dhar, D.C. (eds.) *Environment Conservation and wasteland development in Meghalaya*. MSS, Shillong. pp: 179-188.
- Shah, R. and Patel, R. (2011). Study of traditional worshipping plant of Borsad taluka (Gujarat) India. *Abnnav*, 1: 69-73.
- Shannon, C. E. and Weiner, W. (1963). *The Mathematical Theory of Communication*, Urbana, United States: University of Illinois Press, 177 p.
- Sharifi, M., Nadjafi, F., Youssefshahi, H., and Hemmati, Z. (2000). Sacred Grove in western Iran. *Journal of Environmental Studies*, 26: 49-58.
- Sharma GP, Raghubanshi AS. 2010. How Lantana invades dry deciduous forest: a case study from Vindhyan highlands, India. *Tropical Ecology*, 51(2S): 305–316.
- Sharma, B.R. (2000). Sacred groves and their role in social life in Himachal Himalayas. Abstract National Workshops on Community Strategies on the Management of Natural Resources. Bhopal.
- Sharma, L. and Upadhyay, D.P. (2014). Biodiversity conservation in Rajasthan: role of a botanist. *Res. J. Pharma., Biol. and Chem. Sci.*, 5: 1037-1044.
- Sherring, M.A. (1974). *Hindu Tribes and Castes*, Vol. III, Gosmo Publications, New Delhi, India. pp: 140.
- Shetty, B.V. and Singh, V. (1993). *Flora of Rajasthan Vol. III*. Botanical Survey of India, Calcutta
- Silja, V.P., Varma, K.S. and Mohanan, K.V. (2008). Ethnomedicinal plant knowledge of the Mullu kurumatribes of Wayanad district, Kerala. *Indian J Traditional Knowledge*, 7: 604-612.
- Simpson, E. H. (1949). Measurements of Diversity, *Nature*, 1949, no. 163, pp. 683–688
- Singh, A. (2010). Communities Manage Orans for Protecting Their Livelihoods. In “Sustaining
- Singh, A. (2011). Oran/Devbani matters trees and tigers conservation by tribes: a case study from Sariska. *Envis Newsletter*, 10: 2-6.
- Singh, A. and Sisodia, P. (2003). Oran-A traditional biodiversity management system in Rajasthan. *Leisa* India. pp: 19-21. http://www.agriculturesnetwork.org/magazines/india/3-access-to-resources/oran-a-traditional-biodiversity-management-system/at_download/article_pdf. Accessed on 14th July 2014.

- Singh, G. (2008). Assessment of soil carbon stock and dynamics in forest soils of India. http://afri.icfre.org/showdetails87fe.html?pid=16&statusp=d&keepThis=true&TB_iframe=true&height=500&width=600
- Singh, G.S. and Saxena, K.G. (1998). Sacred groves in the rural landscape: a case study of Shekhala village in Rajasthan. In: *Conserving the Sacred for Biodiversity Management*, Eds. Ramakrishnan, P.S., Saxena, K. G. and U.M. Chandrashekara, Science Publishers, New Hampshire/Oxford and IBH New Delhi. pp: 153-161.
- Singh, H., Husain, T. and Agnihotri, P. (2010). Haat kali sacred grove, Central Himalaya, Uttarakhand. *Curr. Sci.*, 98: 290.
- Singh, N.K. (2011). A Survey of sacred groves of Devipatan region of U.P., Paper presented at the National Conference on *Forest Biodiversity Earth's Living Treasure*. UP State Biodiversity Board Souvenirs, pp: 153 -157.
- Sinha, B. and Maikhuri, R.K. (1998). Conservation through socio-cultural-religious practices in Garhwal Himalaya: A case study of Haryali sacred site. A P H Publication Corporation, New Delhi. pp: 289-299.
- Sisodia, V. and Malhotra, K.C. (1963). Terracotta Motifs among the Warlis of Dharampur, East and West, 14: 97-105.
- Skinner, A.K., Lunt, I.D., Spooner, P. and McIntyre, S. (2009). The effect of soil compaction on germination and early growth of eucalyptus albens and an exotic annual grass. *Austral Ecol.*, 34: 698-704.
- Skolimowski, H. (1991). *Dancing Shiva in the Ecological Age*. London: East-West Publishers.
- Sokal, R.R. and Rohlf, F.J. (1981). *Biometry*, 2nd edn. New York, USA: W.H. Freeman.
- Srivastava, M.K. (1994). Hill Korwa: Past, present and potential. Shri Mudran and publication, Raipur.
- Stepp, J.R., Wyndham, F.S. and Zarger, R.K. (2002). *Ethnobiology and biocultural diversity: proceedings of the seventh international congress of ethnobiology*. University of Georgia Press. pp: 720.
- Subash Khamari, S. (2011). Floral Sanctuary : A study of sacred grove of a village in western Orissa. *Orissa Review*, pp: 72-78.
- Sukumaran, S. and Raj, A.D.S. (2010). Medicinal Plants scared groves in Kanyakumari district, Southern Western Ghats. *Indian J. Trad, Knowl*, 9: 294-299.

- Swamy, P. S., Sundarpandian, S. M. and Chandrasekharan, S. (1998). Sacred groves of Tamil Nadu. Pages 357-361, In: Ramakrishnan, P.S., Saxena, K.G. and Chandra sekhar, U.M. (Editors), *Conserving the Sacred for Biodiversity Management*. UNESCO and Oxford-IBH Publishing, New Delhi.
- Takahashi, Y., Veríssimo, D., MacMillan, D.C. and Godbole, A. (2012). Stakeholder perceptions of potential flagship species for the sacred groves of the north Western Ghats, India. *Human dimensions of Wildlife: An International Journal*, 17: 257-269.
- Tegegn, G. G. (2008). Experiences on Prosopis management case of Afar region. FARM-Africa, London.
- Tegegn, G. G. (2008). Experiences on Prosopis management case of Afar region. FARM-Africa, London DAFF Queensland (2013) [online] available at: <http://www.daff.qld.gov.au/__data/assets/pdf_file/0004/73489/IPA-Mesquite-PP37.pdf> [Accessed on January 22th 2014]
- Tiwari, B.K., Tynsong, H., Lynrah, M.M., Lapasam, E., Deb, S. and Sharma, D. (2013). Institutional arrangement and typology of community forests of Meghalaya, Mizoram and Nagaland of North-East India. *Journal of Forestry Research*, 24: 179-186.
- Tiwari, U.K., Bank S.K. and Tripathi, R. (1998). Sacred groves of Meghalaya, In: Ramakrishnan, P.S., Saxena, K.G. and Chandrashekara, U.M. (eds.) *Conserving the Sacred for Biodiversity Management*, Oxford and IBH Publishing Co., New Delhi, pp. 253-62.
- Tokarev, S. (1989). *History of Religion*. Progress Publishers, Moscow.
- Tripathi, G., Deora, R. and Singh, G. (2013). The influence of litter quality and micro-habitat on litter decomposition and soil properties in a silvopasture system. *Acta Oecologica*, 50: 40-50.
- Tripathi, R.S., Tiwari, B.K. and Barik, S.K. (1995). *Sacred Groves of Meghalaya: Status and Strategy for Their Conservation*. NAEB, NEHU, Shillong. pp: 112-125.
- Unnikrishnan, E. (1990). Part played by the Sacred Groves in Local Environments, Centre for Science and Environment, New Delhi
- Unnikrishnan, V. (1995). Sacred groves of North Kerala: an ecofolklore study (in Malayalam). Jeevarekha, Thrissur

- Vartak, V.D. and Gadgil, M. (1981). Glimpse of Indian Ethnobotany, edited by Jain SK, (Oxford University Press, Mumbai). pp. 272-278.
- Vartak, V.D., Kumbhojkar, M.S. and Nipuge, D.S. (1987). Sacred groves in tribal areas of Western Ghats: treasure trove of medicinal plants. *B. Medi. Ethno. Bot. Res.*, 8: 77-78.
- Vatsyayan, K. (1992). Ecology and Indian Myth. *India International Centre Quarterly*, 19: 157-180.
- Verschuuren, B., McNeely, J., Oviedo, G. and Wild, R. (2012). Sacred natural sites: conserving nature and culture. *Nature*, pp: 336.
- Vidyarthi, L. P. and Rai, B. K. (1977). Tribal Culture of India, Concept Publishers, Delhi. Viji, C. (1995). The sacred groves. *The Hindu*, 5 September
- Vinothkumar, D., Murugavelu, S. and Kethsy Prabhavathy, A. (2011). Phytosociological and ethenobotanical studies of sacred groves in Udukottai District, Tamil Nadu, India. *Asian J. Exp. Biol. Sci.*, 2: 306-315.
- Waghchaure, C.K., Tetali, P., Gunale, V.R., Antia, N.H. and Birdi, T.J. (2006). Sacred groves of parinche valley of Pune district of Maharashtra, India and their importance. *Anthropology and Medicine*, 13: 55-76.
- Walkely, A. and Black, I.A. (1934). An examination of Degtjareff methods for determining soil organic matter and a proposed modification of the chromic acid titration method. *Soil Science*, 37: 29-38
- Wang, X., Wang, J. and Zhang, J. (2012). Comparisons of Three Methods for Organic and Inorganic Carbon in Calcareous Soils of Northwestern China. *PLoS ONE* 7(8): e44334. doi:10.1371/journal.pone.0044334
- WWF- Andhra Pradesh, (1996). Sacred Groves of Andra Pradesh. World Wide Fund for Nature, Andhra Pradesh State Office, Hyderabad.
- Xaxa, V. (1991). Orans: Religion, Custom and Environment. In: Sen, G. (Ed.), *Indigenous Vision*, Saga Publication, New Delhi, pp: 101-109.
- Yadav, S., Yadav, J.P., Arya, V. and Panghal, M. (2010). Sacred groves in conservation of plant biodiversity in Mahendergarh district of Haryana. *Indian J. Traditional Knowledge*, 9: 693-700.

Yelvattimath, G. P. and Kotresha, K. (2011). Phytodiversity studies in Sri Ramathirth sacred grove, Halasi, Khanapur taluk, Belgavi district, Karnataka. *Life sciences Leaflets*, 18: 670- 683.

Annexure I

Tree and shrub species recorded in the sacred groves of different districts in Rajasthan.

SNo.	Species name	Habit	Family
1.	<i>Acacia auriculiformis</i> A. Cunn. ex Benth.	Tree	Fabaceae
2.	<i>Acacia catechu</i> Willd.	Tree	Fabaceae
3.	<i>Acacia leucophloea</i> (Roxb.) Willd.	Tree	Fabaceae
4.	<i>Acacia nilotica</i> L.	Tree	Fabaceae
5.	<i>Acacia nilotica</i> var. <i>Cupressiformis</i> (J. L. Stewart) Ali & Faruqi	Tree	Fabaceae
6.	<i>Acacia pennata</i> (L.) Willd.	Tree	Fabaceae
7.	<i>Acacia senegal</i> (L.) Willd.	Tree	Fabaceae
8.	<i>Acacia tortilis</i> (Forssk.) Hayne	Tree	Fabaceae
9.	<i>Adansonia digitata</i> L.	Tree	Bombacaceae
10.	<i>Adina cordifolia</i> (Roxb.) Brandis	Tree	Rubiaceae
11.	<i>Aegle marmelos</i> (Linn.) Corr.	Tree	Rutaceae
12.	<i>Ailanthus excelsa</i> Roxb.	Tree	Simaroubaceae
13.	<i>Albizia lebeck</i> (L.) Benth	Tree	Fabaceae
14.	<i>Albizia procera</i> (Roxb.) Benth.	Tree	Fabaceae
15.	<i>Anogeissus latifolia</i> (DC.) Wallich ex Guill. & Perr.	Tree	Combretaceae
16.	<i>Anogeissus pendula</i> Edgew.	Tree	Combretaceae
17.	<i>Anogeissus sericea</i> (Brandis.)	Tree	Combretaceae
18.	<i>Anogeissus sericea</i> ssp. <i>nummularia</i> Brandis	Tree	Combretaceae
19.	<i>Azadirachta indica</i> A. Juss.	Tree	Meliaceae
20.	<i>Balanites aegyptiaca</i> (Linn.) Del.	Tree	Balanitaceae
21.	<i>Bauhinia racemosa</i> Lam.	Tree	Fabaceae
22.	<i>Bombex ceiba</i> L.	Tree	Bombacaceae
23.	<i>Boswellia serrata</i> Roxb. ex Colebr.	Tree	Burseraceae
24.	<i>Bridelia retusa</i> (L.) Spreng.	Tree	Euphorbiaceae
25.	<i>Butea monosperma</i> (Lam.)	Tree	Fabaceae
26.	<i>Capparis decidua</i> (Forsk.) Edgew.	Tree	Capparaceae
27.	<i>Cassia fistula</i> L.	Tree	Fabaceae
28.	<i>Cassia siema</i> Lam.	Tree	Fabaceae
29.	<i>Cocos nucifera</i> L.	Tree	Arecaceae
30.	<i>Cordia dichotoma</i> G. Forst.	Tree	Boraginaceae
31.	<i>Cordia gharaf</i> (Forssk.) Ehrenb. ex Asch.	Tree	Boraginaceae
32.	<i>Cordia myxa</i> L.	Tree	Boraginaceae
33.	<i>Crateva religiosa</i> Forst. f.	Tree	Capparaceae
34.	<i>Cretiva nurvala</i> Buch. Ham.	Tree	Capparaceae
35.	<i>Dalbergia sissoo</i>	Tree	Fabaceae
36.	<i>Delonix regia</i> Raf.	Tree	Fabaceae
37.	<i>Diospyros cordifolia</i> Roxb.	Tree	Ebenaceae
38.	<i>Diospyros melanoxylon</i> Roxb.	Tree	Ebenaceae
39.	<i>Dolichandrone falcata</i> (Wall. ex DC.) Seem	Tree	Bignoniaceae
40.	<i>Ehretia aspera</i> Willd.	Tree	Boraginaceae
41.	<i>Ehretia laevis</i> Roxb.	Tree	Boraginaceae
42.	<i>Elaeocarpus ganitrus</i> (Roxb.)	Tree	Elaeocarpaceae
43.	<i>Emblical officinalis</i> Gaertn.	Tree	Euphorbiaceae

44.	<i>Eucalyptus camaldulensis</i> Dehn	Tree	Myrtaceae
45.	<i>Feronia limonia</i> Linn.	Tree	Rutaceae
46.	<i>Ficus bengalensis</i> Linn.	Tree	Moraceae
47.	<i>Ficus glomerata</i> Roxb.	Tree	Moraceae
48.	<i>Ficus infectoria</i> Roxb.	Tree	Moraceae
49.	<i>Ficus religiosa</i> (L.)	Tree	Moraceae
50.	<i>Grewia tiliifolia</i> Vahl	Tree	Tiliaceae
51.	<i>Guazuma ulmifolia</i> Lam.	Tree	Sterculiaceae
52.	<i>Holarrhina antidysenterica</i> Wall. Ex A. DC.	Tree	Apocynaceae
53.	<i>Holoptelea integrifolia</i> Roxb.	Tree	Ulmaceae
54.	<i>Lannea coromendelliaca</i> (Houtt.) Merr.	Tree	Anacardiaceae
55.	<i>Lawsonia inermis</i> Linn.	Tree	Lythraceae
56.	<i>Leucaena leucocephala</i> (Lam.) De Wit.	Tree	Fabaceae
57.	<i>Madhuca indica</i> J.Gmelin	Tree	Sapotaceae
58.	<i>Mangifera indica</i> Linn.	Tree	Anacardiaceae
59.	<i>Maytenus emarginata</i> (Willd.)	Tree	Celastraceae
60.	<i>Miliusa tomentosa</i> (Roxb.) J. Sinclair	Tree	Annonaceae
61.	<i>Millingtonia hortensis</i> Linn.	Tree	Bignoniaceae
62.	<i>Mitragyna parviflora</i> , (Roxb.) Korth	Tree	Rubiaceae
63.	<i>Morinda tinctoria</i> (Roxb.)	Tree	Rubiaceae
64.	<i>Moringa concanensis</i> nimmo ex Dalz. & Gibson	Tree	Moringaceae
65.	<i>Morus alba</i> L.	Tree	Moraceae
66.	<i>Ougeinia oojeinensis</i> (Roxb.)	Tree	Fabaceae
67.	<i>Phoenix sylvestris</i> Roxb.	Tree	Arecaceae
68.	<i>Pithecellobium dulce</i> (Roxb.) Benth.	Tree	Fabaceae
69.	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Tree	Annonaceae
70.	<i>Pongamia pinnata</i> L.	Tree	Fabaceae
71.	<i>Prosopis cineraria</i> (L.) Druce.	Tree	Fabaceae
72.	<i>Prosopis juliflora</i> (Sw) dc	Tree	Fabaceae
73.	<i>Putranjiva roxburghii</i> Wall.	Tree	Putranjivaceae
74.	<i>Randia dumentorum</i> Lam.	Tree	Rubiaceae
75.	<i>Randia dumetorum</i> (Retz.) Poiret	Tree	Rubiaceae
76.	<i>Salvadora oleoides</i> Decne	Tree	Salvadoraceae
77.	<i>Salvadora persica</i> L.	Tree	Salvadoraceae
78.	<i>Santallum album</i> Linn.	Tree	Santalaceae
79.	<i>Sapindus mukorossi</i> Gaertn.	Tree	Sapindaceae
80.	<i>Soymida febrifuga</i> (Roxb.) A.Juss.	Tree	Meliaceae
81.	<i>Sterculia urens</i> Roxb.	Tree	Sterculiaceae
82.	<i>Syzygium cumini</i> (L.)	Tree	Myrtaceae
83.	<i>Tamarandis indica</i> Linn.	Tree	Fabaceae
84.	<i>Tamarix aphylla</i> (L.) H. Karst.	Tree	Tamaricaceae
85.	<i>Tecomella undulata</i> D.Don	Tree	Bignoniaceae
86.	<i>Tectona grandis</i> L.f.	Tree	Verbenaceae
87.	<i>Terminallia arjuna</i> (DC.) Wight & Arn	Tree	Combretaceae
88.	<i>Terminallia bellerica</i> (Gaertn.) Roxb.	Tree	Combretaceae
89.	<i>Thespesia populnea</i> Linn	Tree	Malvaceae
90.	<i>Wrightia tinctoria</i> (Roxb.) R. Br.	Tree	Apocynaceae
91.	<i>Zizyphus mauritiana</i> Lam.	Tree	Rhamnaceae

92.	<i>Zizyphus rotundifolia</i> Lam.	Tree	Rhamnaceae
93.	<i>Acacia jacquemontii</i> Benth	Shrub	Fabaceae
94.	<i>Adhatoda vasica</i> Nees	Shrub	Acanthaceae
95.	<i>Aegave Americana</i> L.	Shrub	Agavaceae
96.	<i>Aerva persica</i> (Burm. f.) Merrill. in Philipp.	Shrub	Amaranthaceae
97.	<i>Aerva pseudotomenosa</i> Blatt. & Hallb	Shrub	Amaranthaceae
98.	<i>Annona squamosa</i> L.	Shrub	Annonaceae
99.	<i>Aristolochia bracteata</i> Retz.	Shrub	Aristolochiaceae
100.	<i>Barleria prionitis</i> L.	Shrub	Acanthaceae
101.	<i>Cadaba fruticosa</i> (L.) Druce	Shrub	Capparaceae
102.	<i>Callygonum polygonides</i> L.	Shrub	Polygonaceae
103.	<i>Calotropis procera</i> (Ait.) Ait.f	Shrub	Asclepiadaceae
104.	<i>Capparis sepiera</i> L.	Shrub	Capparaceae
105.	<i>Carissa carandas</i> Linn	Shrub	Apocynaceae
106.	<i>Cassia auriculata</i> L.	Shrub	Fabaceae
107.	<i>Clerodendrum phlomidis</i> Linn.	Shrub	Verbinaceae
108.	<i>Commiphora wightii</i> (Am) Bhand,	Shrub	Burseraceae
109.	<i>Crotolaria burhia</i> Buch.-Ham.	Shrub	Fabaceae
110.	<i>Dichrostachys cinerea</i> (L.) Wight & Arn	Shrub	Fabaceae
111.	<i>Dyerophytum indicum</i> Kuntze	Shrub	Plumbaginaceae
112.	<i>Euphorbia caducifolia</i> HAINES	Shrub	Euphorbiaceae
113.	<i>Euphorbia neriifolia</i> L.	Shrub	Euphorbiaceae
114.	<i>Flacortia indica</i> (Burm. f.)	Shrub	Flacourtiaceae
115.	<i>Grewia flavescens</i> Juss.	Shrub	Tiliaceae
116.	<i>Grewia tenax</i> (Forssk.)	Shrub	Tiliaceae
117.	<i>Grewia villosa</i> Willd.	Shrub	Tiliaceae
118.	<i>Gymnospora montana</i> (Roth) Bemth	Shrub	Celeastraceae
119.	<i>Haloxylon salicornicum</i> (Moq.) Bunge ex Boiss	Shrub	Chenopodiaceae
120.	<i>Jatropha gossipifolium</i> L.	Shrub	Euphorbiaceae
121.	<i>Jatropha curcus</i> L.	Shrub	Euphorbiaceae
122.	<i>Lantana camara</i> L.	Shrub	Verbenaceae
123.	<i>Leptadenia pyrotechnica</i> (Forssk.) Dec'ne	Shrub	Asclepiadaceae
124.	<i>Lycium barbarum</i> L.	Shrub	Solanaceae
125.	<i>Maerua oblongifolia</i> (Forssk.) A. Rich.	Shrub	Capparaceae
126.	<i>Nerium odoratum</i> Lam	Shrub	Apocynaceae
127.	<i>Opuntia dillenii</i> (Ker-Gawl) Haw.	Shrub	Cactaceae
128.	<i>Pendanus odoratissinus</i>	Shrub	Pandanaceae
129.	<i>Rhus mysorensis</i> G.Don	Shrub	Anacardiaceae
130.	<i>Securengia virosa</i> Roxb. ex Willd.	Shrub	Euphorbiaceae
131.	<i>Zizyphus nummularia</i> (Burm. f.) Wight et Arn.	Shrub	Rhamnaceae

Annexure II

Diversity variables of trees of girth class >30 cm and 10-30 cm observed in sacred groves of different districts of Rajasthan.

SNo	Name of Oran	District	Tree of >30 cm girth					Trees of 10-30 cm girth				
			pop	Species	H'	ENS	1/D	pop	Species	H'	ENS	1/D
1	Devnarayan Ji Ka Oran	Ajmer	63	5	0.32	1.38	1.14	6	1	0.00	1.00	1.00
2	Bheruji Ka Oran	Ajmer	59	5	0.46	1.59	1.23	9	2	0.69	1.99	1.98
3	Bhuna Bai ji ka Oran	Ajmer	64	3	0.27	1.31	1.13	43	1	0.00	1.00	1.00
4	Manaldan ji Todli Ka Oran	Alwar	80	10	1.64	5.17	3.49	22	5	1.42	4.16	3.67
5	Hanuman Ji Ka Oran	Alwar	98	8	1.43	4.19	2.77	12	3	0.82	2.28	1.95
6	Jharna Ji Ka Oran	Alwar	75	9	1.78	5.90	4.52	23	7	1.78	5.90	5.34
7	Rupu Ka Vas Oran	Alwar	272	2	0.16	1.17	1.08	1	1	0.00	1.00	1.00
8	Shiv Ji Maharaj Ka Oran	Alwar	43	7	1.70	5.48	4.68	18	7	1.82	6.15	5.59
9	Dagia Bheruji Ka Oran	Banswara	54	5	0.32	1.38	1.14	373	5	0.83	2.29	1.92
10	Prathurinath ji Ka Oran	Banswara	47	6	0.87	2.39	1.66	-	-	0.00	1.00	
11	Sai Baba Ka Mandir	Banswara	50	5	1.01	2.73	2.13	3	2	0.64	1.89	1.80
12	Devnarayan Ji Ka Oran	Baran	52	9	1.41	4.09	2.58	-	-	0.00	1.00	
13	Musain Mata Ji Ka Oran	Baran	61	8	1.44	4.22	3.05	63	7	1.29	3.63	2.78
14	Kala ji Ka Bagh (Nag)	Baran	141	10	1.75	5.77	4.59	48	2	0.56	1.75	1.60
15	Baukal Mata ji Ka Oran	Barmer	27	3	0.85	2.34	1.98	34	2	0.30	1.35	1.19
16	Viratra Mata Ka Oran	Barmer	27	3	0.50	1.65	1.35	-	-	0.00	1.00	
17	Mata ji Ka Oran	Barmer	20	1	0.00	1.00	1.00	-	-	0.00	1.00	
18	Khuwas Mata Ji Ka Oran	Barmer	26	4	1.03	2.81	2.37	-	-	0.00	1.00	
19	Mama ji Ka Selenadi	Barmer	41	4	1.26	3.54	3.25	1	1	0.00	1.00	1.00
20	Ghanshsyam Baba Ka Ashram	Bharatpur	237	12	1.91	6.75	0.81	34	9	2.00	7.37	6.49
21	Adi Badri Dham	Bharatpur	64	9	1.76	5.84	4.49	3	1	0.00	1.00	1.00
22	Sawai Bhoj/Devnarayan Mandir	Bhilwara	30	8	1.82	6.16	4.64	6	4	1.24	3.46	3.00
23	Dennaryan Ji Ki Bani	Bhilwara	150	4	0.45	1.56	1.31	-	-	0.00	1.00	
24	Devnaryan	Bhilwara	35	7	1.58	4.84	3.64	-	-	0.00	1.00	
25	Goga Ji Ka Oran	Bikaner	36	3	0.92	2.51	2.34	1	1	0.00	1.00	1.00
26	Karni Mata Ji ka Oran	Bikaner	65	5	1.38	3.96	2.13	14	3	0.76	2.14	1.78
27	Karni Mata Ji Ka Oran	Bikaner	70	1	0.00	1.00	1.00	-	-	0.00	1.00	
28	Siya mata ji Ki Bani	Bundi	114	4	1.27	3.54	3.27	18	2	0.69	2.00	2.00
29	Gangrawal Ji Maharaj Ki Vani	Bundi	115	3	1.02	2.78	3.18	38	3	0.71	2.03	1.69
30	Parbetheshwar Mahadeo ki Bani	Bundi	68	10	2.12	8.33	10.78	32	9	1.71	5.51	5.95
31	Devnarayan ji Ka Oran	Chittorgarh	76	7	0.51	1.67	1.25	11	1	0.00	1.00	1.00
32	Rishi Mangri Oran	Chittorgarh	92	3	0.33	1.39	1.19	16	5	1.24	3.47	2.67
33	Nahar Singhji Mata ka Oran	Chittorgarh	173	3	0.18	1.20	1.07	21	3	0.85	2.33	2.17

SNo	Name of Oran	District	Tree of >30 cm girth					Trees of 10-30 cm girth				
			pop	Species	H'	ENS	1/D	pop	Species	H'	ENS	1/D
34	Junjan Dodaji Ka Oran	Churu	101	4	0.54	1.72	1.33	2	1	0.00	1.00	1.00
35	Gogaji Ka Oran	Churu	79	4	1.09	2.97	2.36	3	1	0.00	1.00	1.00
36	Gosai Ji Ka Oran	Churu	53	5	0.54	1.71	0.56	57	1	0.00	1.00	1.00
37	Kaludas Baba Ki Dungri	Dausa	263	2	0.14	1.15	1.06	11	4	1.12	3.07	2.57
38	Devnarayna Ji Ka Oran	Dausa	107	5	0.61	1.83	1.37	22	3	0.91	2.48	2.12
39	Sawanria ji Seth Dham	Dausa	207	3	0.58	1.78	1.55	4	1	0.00	1.00	1.00
40	Bali Baba Ki Dargah	Dholpur	47	5	0.62	1.85	1.41	44	4	0.96	2.62	3.55
41	MuchKund	Dholpur	30	6	1.23	3.43	2.57	71	7	1.30	3.67	2.71
42	Mahadeo Ji Ka Oran	Dholpur	24	4	1.21	3.34	3.45	4	3	1.04	2.83	5.33
43	Govindguru Chhari Magri	Dungarpur	80	3	0.18	1.20	1.08	1	1	0.00	1.00	1.00
44	Bhuneshwar Mahadev Ka Oran	Dungarpur	189	9	1.14	3.13	2.15	92	6	0.57	1.77	1.31
45	Neelkanth Mahadev	Dunagrpur	61	6	0.71	2.02	1.46	5	2	0.50	1.65	1.47
46	Bhadra Kali Mata Ji Ka Oran	Hanumangarh	99	7	1.49	4.42	3.18	5	1	0.00	1.00	1.00
47	Chisti Peer ki Dargah	Hanumangarh	48	5	0.40	1.50	1.19	6	1	0.00	1.00	1.00
48	Guru Gorakhnath Ji Ka Oran	Hanumangarh	30	7	1.45	4.27	3.00	6	5	1.56	4.76	4.50
49	Kalimata ji ki Bani	Jaipur	29	6	1.17	3.23	2.56	4	3	1.04	2.83	2.67
50	Kapil Muni Ashram	Jaipur	51	11	1.72	5.57	3.83	3	2	0.64	1.89	1.80
51	Shiv Dungri	Jaipur	59	4	0.70	2.02	1.62	12	5	1.31	3.72	3.00
52	Ramdevji ka Oran	Jaisalmer	37	4	1.12	3.08	2.81	13	3	1.06	2.88	2.77
53	Bhadariya ji Ka Oran (old)	Jaisalmer	27	2	0.16	1.17	1.08	17	1	0.00	1.00	1.00
54	Malani Oran	Jaisalmer	36	1	0.00	1.00	1.00	12	2	0.29	1.33	1.18
55	Bellane Oran	Jaisalmer	14	2	0.60	1.82	1.69	2	2	0.69	2.00	2.00
56	Dharneswar Mahadeo ka Oran	Jalore	149	6	0.49	1.63	1.27	23	2	0.46	1.58	1.41
57	Dudeshwar Mahadeo Ka Oran	Jalore	140	4	0.91	2.48	1.89	5	2	0.50	1.65	1.47
58	Jhootana Mama ji Ka Oran	Jalore	116	3	0.81	2.25	1.89	11	2	0.30	1.35	1.20
59	Kalla ji Ka Oran	Jhalawar	34	6	1.30	3.68	2.82	34	3	0.87	2.38	2.21
60	Bapulala Smirti Van	Jhalawar	89	3	0.74	2.10	2.03	100	2	0.68	1.98	1.96
61	Devnarayan Ji Ka Asthan	Jhalawar	63	7	1.15	3.16	2.46	14	1	0.00	1.00	1.00
62	Shiv Mandir Kelkheura	Jhalawar	51	4	0.83	2.30	1.78	13	2	0.67	1.95	1.90
63	Bhairav Ji Ka Bag	Jhalawar	106	10	1.62	5.03	3.61	29	6	1.52	4.59	3.64
64	Bihari ji Ka Mandir	Jhunjunnu	60	3	0.77	2.16	1.95	1	1	0.00	1.00	1.00
65	Prithviraj Ki Bani	Jhunjunnu	38	3	0.63	1.88	1.59	-	-	0.00	1.00	
66	Panchmir Pir Ki Bani	Jhunjunnu	57	5	0.89	2.43	1.76	8	2	0.69	2.00	2.00
67	Kolu Pabuji Ka Oran	Jodhpur	37	2	0.04	1.04	1.08	-	-	0.00	1.00	
68	Karni Mata Ji Oran	Jodhpur	37	4	0.90	2.47	2.23	32	4	0.99	2.70	2.38
69	Ramdeo Ji ka Oran	Jodhpur	25	2	0.55	1.74	1.57	7	3	1.08	2.94	2.88

SNo	Name of Oran	District	Tree of >30 cm girth					Trees of 10-30 cm girth				
			pop	Species	H'	ENS	1/D	pop	Species	H'	ENS	1/D
70	Pabuji Ka Oran	Jodhpur	15	1	0.00	1.00	1.00	19	1	0.00	1.00	1.00
71	Joleyali Oran	Jodhpur	33	2	0.23	1.26	1.13	-	-	0.00	1.00	
72	Jardabala Ji Ka Oran	Karauli	27	11	2.17	8.75	7.36	-	-	0.00	1.00	
73	Barbasni Mata Ji Ka Oran	Karauli	65	4	0.58	1.79	1.42	-	-	0.00	1.00	
74	Devnarayan Ji Ki Banni	Karauli	34	1	0.00	1.00	1.00	-	-	0.00	1.00	
75	Dardevi Mata ji Ka Oran	Kota	113	15	2.18	8.84	5.90	18	4	1.04	2.82	2.45
76	Devnarayan Bhagwan Ka Oran	Kota	74	10	1.50	4.50	2.81	1	1	0.00	1.00	1.00
77	Devnarayan Ji Ka Oran	Kota	100	3	0.64	1.89	1.51	14	2	0.26	1.29	1.15
78	Devnarayan Ji Ka Oran	Kota	80	8	1.59	4.91	4.00	13	3	0.90	2.46	2.25
79	Dhokad Wali Mata ji	Kota	72	4	0.57	1.77	1.41	5	2	0.50	1.65	1.47
80	Devnarayan Ji Ka Oran	Kota	193	8	1.09	2.97	2.01	86	7	1.42	4.13	3.35
81	Hanuman Ji ka Oran	Kota	98	2	0.06	1.06	1.02	20	3	0.94	2.57	2.38
82	Devnarayan Ji ka Oran	Kota	120	7	1.47	4.35	3.34	41	4	1.16	3.20	3.01
83	Kalaji-Gora Ji Oran	Kota	71	10	1.16	3.19	2.00	5	2	0.50	1.65	1.47
84	Bheruji Ka Oran	Nagour	23	5	1.27	3.57	3.06	-	-	0.00	1.00	
85	Bhairon Ji Ka Oran	Nagour	105	5	1.09	2.98	2.50	22	4	1.00	2.71	2.40
86	Gosai Ji Ka Oran	Nagour	54	3	1.00	2.70	2.45	21	1	0.00	1.00	1.00
87	Sathika Jogmaya Ji Ka Oran	Nagour	31	3	0.61	1.85	1.49	1	1	0.00	1.00	1.00
88	Laba ji Maharaj Ka Oran	Pali	24	2	0.17	1.19	1.09	25	2	0.44	1.55	1.37
89	Mama ji Ka Oran	Pali	134	4	0.74	2.09	1.58	118	4	0.75	2.11	1.92
90	Devnarayanji Ka Oran	Pali	23	3	0.95	2.59	2.33	152	2	0.22	1.25	1.13
91	Ashapura Mata ji ka Oran	Pali	71	5	0.99	2.69	1.96	47	2	0.10	1.11	1.04
92	Mata ji Ka Oran (Mada)	Pali	16	6	1.47	4.36	3.28	124	6	0.99	2.69	2.12
93	Dhundhlimata Ki Banni	Pratapgarh	207	16	1.56	4.76	2.70	298	8	1.26	3.53	2.70
94	Bijasau mata ji Bani	Pratapgarh	44	6	1.30	3.68	2.86	22	3	0.37	1.44	1.20
95	Chandimata ji Ka Oran	Pratapgarh	34	6	1.41	4.11	3.27	28	2	0.15	1.17	1.07
96	Devnarayan ji Ki bani	Pratapgarh	51	2	0.43	1.54	1.36	15	2	0.58	1.79	1.64
97	Devnarayan ji Ki Bani	Rajsamand	100	3	0.15	1.17	1.06	2	2	0.69	2.00	2.00
98	Bheru Nath ji Bani	Rajsamand	110	9	1.44	4.24	3.13	3	1	0.00	1.00	1.00
99	Chamunda Mata ji Ki Bani	Rajsamand	93	2	0.56	1.75	1.59	1	1	0.00	1.00	1.00
100	Haumanji ki Dungri	Sawaimadhampur	39	3	0.77	2.17	2.01	6	1	0.00	1.00	1.00
101	Jasram Baba Ji Ki Bani	Sawaimadhampur	31	8	1.81	6.12	5.14	6	5	1.56	4.76	4.50
102	Peer Baba Ki Dargah	Sawaimadhampur	82	6	0.74	2.09	1.57	14	2	0.68	1.98	1.96
103	Bheruji Ki Bani	Sikar	42	4	1.23	3.43	3.25	11	2	0.66	1.93	1.86
104	Kheri Walai Balaji ka Oran	Sikar	79	5	1.49	4.44	3.98	6	3	1.01	2.75	2.57
105	Satimata Ji Ka Mandir	Sikar	46	2	0.69	1.99	1.98	38	1	0.00	1.00	1.00

SNo	Name of Oran	District	Tree of >30 cm girth					Trees of 10-30 cm girth				
			pop	Species	H'	ENS	1/D	pop	Species	H'	ENS	1/D
106	Sidheswar Mahadeo Mandir	Sirohi	160	5	1.04	2.82	2.20	37	3	1.06	2.87	2.99
107	Vorada Hanuman ji Ka Oran	Sirohi	148	3	0.76	2.15	1.84	3	1	0.00	1.00	1.00
108	Magriwali Mata ji Ka Oran	Sirohi	100	7	1.06	2.88	1.87	19	3	0.81	2.25	1.99
109	Gosai Ji Ka Jod	SriGanganagar	99	5	0.54	1.71	1.31	34	2	0.13	1.14	1.06
110	Baba Gadanpur Ki Dargah	SriGanganagar	48	4	1.16	3.18	2.61	13	2	0.67	1.95	1.90
111	Miyam Mama Peer Baba	Sri Ganganagar	117	4	0.88	2.41	1.97	12	3	0.57	1.76	1.41
112	Baba Rahupeer Dargah	Sri Ganganagar	55	5	1.17	3.22	2.51	9	2	0.53	1.70	1.53
113	Mata Ji Ka Darra	Tonk	104	2	0.64	1.89	1.81	131	2	0.04	1.05	1.02
114	Devnarayan Ka Asthan	Tonk	203	7	0.49	1.64	1.24	20	5	1.01	2.74	1.94
115	Devmaharaj Ka Asthan	Tonk	158	6	0.30	1.35	1.12	1	1	0.00	1.00	1.00
116	Pava Bab ji Oran	Udaipur	104	16	1.82	6.20	3.49	20	10	2.08	8.02	6.67
117	Hanuman Ji Ka Oran	Udaipur	37	2	0.21	1.23	1.11	-	-	0.0	1.00	
118	Shringi Rishi Ji Ka Oran	Udaipur	65	8	1.65	5.22	3.95	7	1	0.00	1.00	1.00
119	Bhanvar Mata ji Ki Bani	Udaipur	125	8	0.78	2.17	1.59	53	4	0.90	2.47	2.08
120	Kali Pahari Oran	Udaipur	77	4	0.80	2.22	1.72	28	2	0.26	1.29	1.15
121	Kundeshwar Mahadevji Oran	Udaipur	69	13	1.76	5.83	3.52	9	6	1.68	5.35	4.76
122	Tarkeshwar Mahadev Oran	Udaipur	76	16	2.35	10.47	6.75	23	5	0.90	2.45	1.76
123	Ubeshwar ji Oran	Udaipur	64	12	1.91	6.72	4.65	19	7	1.57	4.82	3.72

H': Shannon-Wiener diversity index; ENS: effective species number and 1/D: Simpson's reciprocal index.

Annexure III

Diversity variables of shrubs and tree saplings (girth <10 to 3 cm) observed in sacred groves of different districts of Rajasthan.

SNo	Name of Oran	District	Shrubs					Trees sapling (<10 cm girth)				
			pop	Species	H'	ENS	1/D	pop	Species	H'	ENS	1/D
1	Devnarayan Ji Ka Oran	Ajmer	2	2	0.69	2.00	2.00	3	1	0.00	1.00	1.00
2	Bheruji Ka Oran	Ajmer	19	5	1.55	4.70	2.96	4	1	0.00	1.00	1.00
3	Bhuna Bai ji ka Oran	Ajmer	14	5	1.39	4.00	2.93	3	1	0.00	1.00	1.00
4	Manaldan ji Todli Ka Oran	Alwar	27	5	0.83	2.28	1.62	1	1	0.00	1.00	1.00
5	Hanuman Ji Ka Oran	Alwar	38	5	1.26	3.54	3.19	-	-	0.00	1.00	-
6	Jharna Ji Ka Oran	Alwar	39	5	1.17	3.24	2.48	-	-	0.00	1.00	-
7	Rupu Ka Vas Oran	Alwar	1	1	0.00	1.00	1.00	-	-	0.00	1.00	-
8	Shiv Ji Maharaj Ka Oran	Alwar	31	10	1.95	7.00	4.98	1	1	0.00	1.00	1.00
9	Dagia Bheruji Ka Oran	Banswara	11	3	0.93	2.55	2.37	-	-	0.00	1.00	-
10	Prathurinath ji Ka Oran	Banswara	-	-	0.00	1.00	-	14	2	0.60	1.82	1.69
11	Sai Baba Ka Mandir	Banswara	7	4	1.28	3.59	3.27	21	4	1.21	3.36	2.96
12	Devnarayan Ji Ka Oran	Baran	7	5	1.48	4.37	3.77	5	1	0.00	1.00	1.00
13	Musain Mata Ji Ka Oran	Baran	10	4	1.09	2.97	2.38	50	5	1.00	2.72	2.04
14	Kala ji Ka Bagh (Nag)	Baran	18	1	0.00	1.00	1.00	5	2	0.67	1.96	1.92
15	Baukal Mata ji Ka Oran	Barmer	9	2	0.64	1.89	1.80	78	2	0.69	1.99	1.99
16	Viratra Mata Ka Oran	Barmer	64	8	1.76	5.79	4.73	-	-	0.00	1.00	-
17	Mata ji Ka Oran	Barmer	24	4	1.27	3.55	3.31	5	1	0.00	1.00	1.00
18	Khuwas Mata Ji Ka Oran	Barmer	33	3	1.09	2.97	2.94	3	2	0.64	1.89	1.80
19	Mama ji Ka Selenadi	Barmer	4	1	0.00	1.00	1.00	-	-	0.00	1.00	-
20	Ghanshsyam Baba Ka Ashram	Bharatpur	-	-	0.00	1.00	-	-	-	0.00	1.00	-
21	Adi Badri Dham	Bharatpur	5	1	0.00	1.00	1.00	-	-	0.00	1.00	-
22	Sawai Bhoj/Devnarayan Mandir	Bhilwara	11	5	1.47	4.34	3.90	8	1	0.00	1.00	1.00
23	Dennaryan Ji Ki Bani	Bhilwara	-	-	0.00	1.00	-	-	-	0.00	1.00	-
24	Devnaryan	Bhilwara	1	1	0.00	1.00	1.00	3	1	0.00	1.00	1.00
25	Goga Ji Ka Oran	Bikaner	1	1	0.00	1.00	1.00	-	-	0.00	1.00	-
26	Karni Mata Ji ka Oran	Bikaner	17	1	0.00	1.00	1.00	34	1	0.00	1.00	1.00
27	Karni Mata Ji Ka Oran	Bikaner	83	5	1.12	3.06	2.50	-	-	0.00	1.00	-
28	Siya mata ji Ki Bani	Bundi	-	-	0.00	1.00	-	-	-	0.00	1.00	-
29	Gangrawal Ji Maharaj Ki Vani	Bundi	8	3	0.96	2.60	2.33	14	1	0.00	1.00	1.00
30	Parbetheshwar Mahadeo ki Bani	Bundi	13	4	1.03	2.81	2.20	-	-	0.00	1.00	-
31	Devnarayan ji Ka Oran	Chittorgarh	2	2	0.69	2.00	2.00	-	-	0.00	1.00	-
32	Rishi Mangri Oran	Chittorgarh	11	3	0.86	2.36	2.05	13	2	0.54	1.72	1.55

SNo	Name of Oran	District	Shrubs					Trees sapling (<10 cm girth)				
			pop	Species	H'	ENS	1/D	pop	Species	H'	ENS	1/D
33	Nahar Singhji Mata ka Oran	Chittorgarh	6	2	0.45	1.57	1.38	10	5	1.42	4.13	-
34	Junjan Dodaji Ka Oran	Churu	31	4	1.20	3.32	2.94	-	-	0.00	1.00	
35	Gogaji Ka Oran	Churu	7	1	0.00	1.00	1.00	-	-	0.00	1.00	
36	Gosai Ji Ka Oran	Churu	36	3	0.71	2.03	1.79	-	-	0.00	1.00	
37	Kaludas Baba Ki Dungri	Dausa	-	-	0.00	1.00		8	1	0.00	1.00	1.00
38	Devnarayna Ji Ka Oran	Dausa	60	6	1.37	3.94	3.14	-	-	0.00	1.00	
39	Sawanria ji Seth Dham	Dausa	8	1	0.00	1.00	1.00	2	1	0.00	1.00	1.00
40	Bali Baba Ki Dargah	Dholpur	105	3	1.08	2.95	2.90	-	-	0.00	1.00	
41	MuchKund	Dholpur	31	4	1.16	3.18	2.79	-	-	0.00	1.00	
42	Mahadeo Ji Ka Oran	Dholpur	29	3	1.09	2.99	2.97	-	-	0.00	1.00	
43	Govindguru Chhari Magri	Dungarpur	1	1	0.00	1.00	1.00	1	1	0.00	1.00	1.00
44	Bhuneshwar Mahadev Ka Oran	Dungarpur	17	7	1.71	5.54	4.59	3	1	0.00	1.00	1.00
45	Neelkanth Mahadev	Dunagrpr	10	3	1.03	2.80	2.63	48	1	0.00	1.00	1.00
46	Bhadra Kali Mata Ji Ka Oran	Hanumangarh	-	-	0.00	1.00		5	2	0.50	1.65	1.47
47	Chisti Peer ki Dargah	Hanumangarh	34	3	0.55	1.73	1.43	7	1	0.00	1.00	1.00
48	Guru Gorakhnath Ji Ka Oran	Hanumangarh	1	1	0.00	1.00	1.00	-	-	0.00	1.00	
49	Kalimata ji ki Bani	Jaipur	3	1	0.00	1.00	1.00	6	1	0.00	1.00	1.00
50	Kapil Muni Ashram	Jaipur	10	3	1.03	2.80	2.63	-	-	0.00	1.00	
51	Shiv Dungri	Jaipur	1	1	0.00	1.00	1.00	5	1	0.00	1.00	1.00
52	Ramdevji ka Oran	Jaisalmer	40	2	0.53	1.70	1.54	4	1	0.00	1.00	1.00
53	Bhadariya ji Ka Oran (old)	Jaisalmer	-	-	0.00	1.00		-	-	0	1.00	
54	Malani Oran	Jaisalmer	197	5	0.87	2.40	1.97	-	-	0	1.00	
55	Bellane Oran	Jaisalmer	31	2	0.67	1.95	1.90	1	1	0.00	1.00	1.00
56	Dharneswar Mahadeo ka Oran	Jalore	26	3	0.47	1.60	1.45	-	-	0.00	1.00	
57	Dudeshwar Mahadeo Ka Oran	Jalore	14	3	0.13	1.14	1.10	9	1	0.00	1.00	1.00
58	Jhootana Mama ji Ka Oran	Jalore	3	1	0.15	1.16	1.12	10	1	0.00	1.00	1.00
59	Kalla ji Ka Oran	Jhalawar	-	-	0.00	1.00		-	-	0.00	1.00	
60	Bapulala Smirti Van	Jhalawar	-	-	0.00	1.00		-	-	0.00	1.00	
61	Devnarayan Ji Ka Asthan	Jhalawar	5	1	0.00	1.00	1.00	5	1	0.00	1.00	1.00
62	Shiv Mandir Kelkheura	Jhalawar	-	-	0.00	1.00		-	-	0.00	1.00	
63	Bhairav Ji Ka Bag	Jhalawar	19	2	0.34	1.40	1.23	19	2	0.34	1.40	1.23
64	Bihari ji Ka Mandir	Jhunjunnu	-	-	0.00	1.00		-	-	0.00	1.00	
65	Prithviraj Ki Bani	Jhunjunnu	12	1	0.00	1.00	1.00	-	-	0.00	1.00	
66	Panchmir Pir Ki Bani	Jhunjunnu	25	2	0.59	1.81	1.68	-	-	0.00	1.00	
67	Kolu Pabuji Ka Oran	Jodhpur	-	-	0.00	1.00		-	-	0.00	1.00	
68	Karni Mata Ji Oran	Jodhpur	7	5	1.55	4.71	4.45	5	1	0.00	1.00	1.00

SNo	Name of Oran	District	Shrubs					Trees sapling (<10 cm girth)				
			pop	Species	H'	ENS	1/D	pop	Species	H'	ENS	1/D
69	Ramdeo Ji ka Oran	Jodhpur	6	1	0.00	1.00	1.00	4	1	0.00	1.00	1.00
70	Pabuji Ka Oran	Jodhpur	-	-	0.00	1.00		19	1	0.00	1.00	1.00
71	Joleyali Oran	Jodhpur	-	-	0.00	1.00		5	1	0.00	1.00	1.00
72	Jardabala Ji Ka Oran	Karauli	34	4	1.05	2.85	2.48	-	-	0.00	1.00	
73	Barbasni Mata Ji Ka Oran	Karauli	-	-	0.00	1.00		15	1	0.00	1.00	1.00
74	Devnarayan Ji Ki Banni	Karauli	12	2	0.29	1.33	1.18	-	-	0.00	1.00	
75	Dardevi Mata ji Ka Oran	Kota	12	3	0.82	2.28	1.95	24	2	0.45	1.57	1.38
76	Devnarayan Bhagwan Ka Oran	Kota	7	1	0.00	1.00	1.00	14	2	0.60	1.82	1.69
77	Devnarayan Ji Ka Oran	Kota	-	-	0.00	1.00		23	2	0.52	1.69	1.52
78	Devnarayan Ji Ka Oran	Kota	25	3	1.05	2.86	2.73	-	-	0.00	1.00	
79	Dhokad Wali Mata ji	Kota	9	1	0.00	1.00	1.00	-	-	0.00	1.00	
80	Devnarayan Ji Ka Oran	Kota	44	4	1.28	3.60	3.29	35	1	0.00	1.00	1.00
81	Hanuman Ji ka Oran	Kota	20	3	0.73	2.08	1.68	23	2	0.52	1.69	1.52
82	Devnarayan Ji ka Oran	Kota	10	1	0.00	1.00	1.00	47	2	0.52	1.68	1.50
83	Kalaji-Gora Ji Oran	Kota	9	3	0.85	2.34	1.98	-	-	0.00	1.00	
84	Bheruji Ka Oran	Nagour	54	7	1.75	5.77	5.12	-	-	0.00	1.00	
85	Bhairon Ji Ka Oran	Nagour	37	3	0.64	1.90	1.61	14	1	0.00	1.00	1.00
86	Gosai Ji Ka Oran	Nagour	2	1	0.00	1.00	1.00	-	-	0.00	1.00	
87	Sathika Jogmaya Ji Ka Oran	Nagour	86	5	1.37	3.94	3.48	-	-	0.00	1.00	
88	Laba ji Maharaj Ka Oran	Pali	-	-	0.00	1.00		20	2	0.65	1.91	1.83
89	Mama ji Ka Oran	Pali	7	2	0.13	1.14	1.96	5	1	0.00	1.00	1.00
90	Devnarayanji Ka Oran	Pali	1	1	0.00	1.00	1.00	2	1	0.00	1.00	1.00
91	Ashapura Mata ji ka Oran	Pali	31	2	0.51	1.67	1.49	35	2	0.41	1.51	1.32
92	Mata ji Ka Oran (Mada)	Pali	15	4	0.36	1.43	1.45	4	2	0.56	1.75	1.60
93	Dhundhlimata Ki Banni	Pratapgarh	7	2	0.60	1.82	1.69	5	1	0.00	1.00	1.00
94	Bijasau mata ji Bani	Pratapgarh	3	1	0.00	1.00	1.00	-	-	0.00	1.00	
95	Chandimata ji Ka Oran	Pratapgarh	11	1	0.00	1.00	1.00	-	-	0.00	1.00	
96	Devnarayan ji Ki bani	Pratapgarh	8	2	0.38	1.46	1.28	-	-	0.00	1.00	
97	Devnarayan ji Ki Bani	Rajsamand	4	2	0.56	1.75	1.60	4	2	0.69	2.00	2.00
98	Bheru Nath ji Bani	Rajsamand	4	2	0.56	1.75	1.60	7	1	0.00	1.00	1.00
99	Chamunda Mata ji Ki Bani	Rajsamand	14	1	0.00	1.00	1.00	3	1	0.00	1.00	1.00
100	Haumanji ki Dungri	Sawaimadhapur	4	1	0.00	1.00	1.00	3	1	0.00	1.00	1.00
101	Jasram Baba Ji Ki Bani	Sawaimadhapur	11	3	0.76	2.14	1.75	-	-	0.00	1.00	
102	Peer Baba Ki Dargah	Sawaimadhapur	5	1	0.00	1.00	1.00	-	-	0.00	1.00	
103	Bheruji Ki Bani	Sikar	18	3	0.79	2.20	1.91	-	-	0.00	1.00	
104	Kheri Walai Balaji ka Oran	Sikar	33	2	0.67	1.96	1.91	-	-	0.00	1.00	

SNo	Name of Oran	District	Shrubs					Trees sapling (<10 cm girth)				
			pop	Species	H'	ENS	1/D	pop	Species	H'	ENS	1/D
105	Satimata Ji Ka Mandir	Sikar	2	1	0.00	1.00	1.00	-	-	0.00	1.00	
106	Sidheswar Mahadeo Mandir	Sirohi	26	2	0.53	1.70	1.61	19	2	0.66	1.93	1.87
107	Vorada Hanuman ji Ka Oran	Sirohi	6	1	0.00	1.00	1.00	7	1	0.00	1.00	1.00
108	Magriwali Mata ji Ka Oran	Sirohi	5	1	0.00	1.00	1.00	11	2	0.69	1.99	1.98
109	Gosai Ji Ka Jod	SriGanganagar	33	2	0.67	1.96	1.91	-	-	0.00	1.00	
110	Baba Gadanpur Ki Dargah	SriGanganagar	-	-	0.00	1.00		16	2.00	0.38	1.46	1.28
111	Miyam Mama Peer Baba	Sri Ganganagar	4	2	0.69	2.00	2.00	-	-	0.00	1.00	
112	Baba Rahupeer Dargah	Sri Ganganagar	21	1	0.00	1.00	1.00	14	2.00	0.60	1.82	1.69
113	Mata Ji Ka Darra	Tonk	1	1	0.00	1.00	1.00	5	1	0.00	1.00	1.00
114	Devnarayan Ka Asthan	Tonk	3	1	0.00	1.00	1.00	12	2	0.64	1.89	1.80
115	Devmaharaj Ka Asthan	Tonk	0	0	0.00	1.00		5	1	0.00	1.00	1.00
116	Pava Bab ji Oran	Udaipur	96	3	0.98	2.66	2.49	14	4	1.30	3.67	3.38
117	Hanuman Ji Ka Oran	Udaipur	-	-	0.00	1.00		-	-	0.00	1.00	
118	Shringi Rishi Ji Ka Oran	Udaipur	18	5	1.43	4.17	3.52	-	-	0.00	1.00	
119	Bhanvar Mata ji Ki Bani	Udaipur	27	5	1.06	2.88	2.36	27	1	0.00	1.00	1.00
120	Kali Pahari Oran	Udaipur	-	-	0.00	1.00		-	-	0.00	1.00	
121	Kundeshwar Mahadevji Oran	Udaipur	3	2	0.64	1.89	1.80	-	-	0.00	1.00	
122	Tarkeshwar Mahadev Oran	Udaipur	58	5	1.03	2.81	2.40	62	6	1.55	4.70	4.01
123	Ubeshwar ji Oran	Udaipur	111	8	1.23	3.41	2.36	4	2	0.56	1.75	1.60

H': Shannon-Wiener diversity index; ENS: effective species number and 1/D: Simpson's reciprocal index.

Annexure IV

Dominance of trees of >30 cm girth, 10-30 c girth, shrubs and tree saplings in different sacred groves of Rajasthan.

SNo	Name of Oran	Trees of >30 cm girth		Trees of 10-30 cm girth		Shrubs		Saplings	
		Species	IVI	Species	IVI	Species	IVI	Species	IVI
1	Devnarayan Ji Ka Oran	<i>P. juliflora</i>	194	<i>P. juliflora</i>	300	<i>L. camara</i>	170	<i>P. juliflora</i>	300
2	Bheruji Ka Oran	<i>M. emarginata</i>	231	<i>P. juliflora</i>	168	<i>A. jacqmontii</i>	117	<i>P. juliflora</i>	300
3	Bhuna Bai ji ka Oran	<i>P. juliflora</i>	246	<i>P. juliflora</i>	300	<i>C. procera</i>	125	<i>P. juliflora</i>	300
4	Manaldan ji Todli Ka Oran	<i>A. nilotica</i>	145	<i>M. emarginata</i>	116	<i>Z. nummularia</i>	205	<i>H. integrifolia</i>	300
5	Hanuman Ji Ka Oran	<i>S. oleoides</i>	142	<i>H. integrifolia</i>	165	<i>C. phlomidis</i>	107	-	-
6	Jharna Ji Ka Oran	<i>P. juliflora</i>	92	<i>M. emarginata</i>	68	<i>Z. nummularia</i>	150	-	-
7	Rupu Ka Vas Oran	<i>A. pendula</i>	248	<i>A. pendula</i>	300	<i>A. lanata</i>	300	-	-
8	Shiv Ji Maharaj Ka Oran	<i>A. leucophloea</i>	110	<i>P. juliflora</i>	76	<i>A. vasica</i>	73	<i>M. emarginata</i>	300
9	Dagia Bheruji Ka Oran	<i>T. grandis</i>	150	<i>T. grandis</i>	178	<i>L. camara</i>	161	-	-
10	Prathurinath ji Ka Oran	<i>T. grandis</i>	160	-	-	-	-	<i>T. grandis</i>	209
11	Sai Baba Ka Mandir	<i>T. grandis</i>	131	<i>H. integrifolia</i>	171	<i>L. camara</i>	114	<i>H. antidysenterica</i>	108
12	Devnarayan Ji Ka Oran	<i>B. monosperma</i>	133	-	-	<i>Z. nummularia</i>	129	<i>B. monosperma</i>	300
13	Musain Mata Ji Ka Oran	<i>A. pendula</i>	164	<i>A. pendula</i>	114	<i>F. indica</i>	175	<i>H. antidysenterica</i>	132
14	Kala ji Ka Bagh (Nag)	<i>B. monosperma</i>	95	<i>P. juliflora</i>	204	<i>C. sepiera</i>	300	<i>B. monosperma</i>	186
15	Baukal Mata ji Ka Oran	<i>T. undulata</i>	181	<i>T. undulata</i>	245	<i>A. persica</i>	249	<i>T. undulata</i>	160
16	Viratra Mata Ka Oran	<i>M. emarginata</i>	224	-	-	<i>Z. nummularia</i>	92	-	-
17	Mata ji Ka Oran	<i>C. decidua</i>	300	<i>C. decidua</i>	300	<i>Z. nummularia</i>	127	<i>C. decidua</i>	300
18	Khuwas Mata Ji Ka Oran	<i>S. oleoides</i>	174	-	-	<i>D. cineraria</i>	138	<i>S. oleoides</i>	178
19	Mama ji Ka Selenadi	<i>P. cineraria</i>	101	No tree	0.00	<i>Z. nummularia</i>	300	-	-
20	Ghanshsyam Baba Ka Ashram	<i>S. oleoides</i>	224	<i>A. pendula</i>	61	-	-	-	-
21	Adi Badri Dham	<i>M. parviflora</i>	74	<i>C. dichotoma</i>	300	<i>Z. nummularia</i>	300	-	-
22	Sawai Bhoj/Devnarayan Mandir	<i>P. juliflora</i>	88	<i>C. decidua</i>	139	<i>E. nerifolia</i>	113	<i>P. juliflora</i>	300
23	Dennaryan Ji Ki Bani	<i>A. pendula</i>	225	-	-	-	-	-	-
24	Devnaryan	<i>A. leucophloea</i>	98	-	-	<i>S. virosa</i>	300	<i>P. juliflora</i>	300
25	Goga Ji Ka Oran	<i>Z. rotundifolia</i>	140	<i>P. juliflora</i>	300	-	-	-	-
26	Karni Mata Ji ka Oran	<i>Z. rotundifolia</i>	154.7 9	<i>A. tortlis</i>	210	<i>L. barbarum</i>	300	<i>A. tortlis</i>	300
27	Karni Mata Ji Ka Oran	<i>Z. rotundifolia</i>	300	-	-	<i>L. pyrotechnica</i>	141	-	-
28	Siya mata ji Ki Bani	<i>A. pendula</i>	230	<i>P. juliflora</i>	181	-	-	-	-
29	Gangrawal Ji Maharaj Ki Vani	<i>A. pendula</i>	220	<i>A. pendula</i>	201	<i>A. vasica</i>	171	<i>P. juliflora</i>	300
30	Parbatheshwar Mahadeo ki Bani	<i>M. parviflora</i>	151	<i>B. aegyptiaca</i>	68	<i>D. cineraria</i>	113	-	-
31	Devnarayan ji Ka Oran	<i>A. pendula</i>	210	<i>A. pendula</i>	300	<i>M. oblongifolia</i>	150	-	-
32	Rishi Mangri Oran	<i>A. pendula</i>	229	<i>A. pendula</i>	144	<i>D. cineraria</i>	148	<i>A. pendula</i>	222

SNo	Name of Oran	Trees of >30 cm girth		Trees of 10-30 cm girth		Shrubs		Saplings	
		Species	IVI	Species	IVI	Species	IVI	Species	IVI
33	Nahar Singhji Mata ka Oran	<i>A. pendula</i>	277	<i>A. pendula</i>	162	<i>L. camara</i>	220	<i>H. integrifolia</i>	119
34	Junjan Dodaji Ka Oran	<i>M. emarginata</i>	223	<i>M. emarginata</i>	300	<i>C. procera</i>	108	-	-
35	Gogaji Ka Oran	<i>M. emarginata</i>	162	<i>A. tortlis</i>	300	<i>L. pyrotechnica</i>	300	-	-
36	Gosai Ji Ka Oran	<i>S. oleoides</i>	331	<i>A. tortlis</i>	300	<i>Z. nummularia</i>	219	-	-
37	Kaludas Baba Ki Dungri	<i>A. pendula</i>	265	<i>A. pendula</i>	146	-	-	<i>H. integrifolia</i>	300
38	Devnarayna Ji Ka Oran	<i>A. nilotica</i>	205	<i>A. nilotica</i>	188	<i>A. vasica</i>	117	-	-
39	Sawanria ji Seth Dham	<i>H. integrifolia</i>	231	<i>H. integrifolia</i>	300	<i>A. vasica</i>	300	<i>H. integrifolia</i>	300
40	Bali Baba Ki Dargah	<i>P. juliflora</i>	154	<i>H. integrifolia</i>	150	<i>Z. nummularia</i>	145	-	-
41	MuchKund	<i>A. pendula</i>	152	<i>A. pendula</i>	165	<i>C. procera</i>	131	-	-
42	Mahadeo Ji Ka Oran	<i>F. bengalensis</i>	132	<i>A. indica</i>	75	<i>Z. nummularia</i>	112	-	-
43	Govindguru Chhari Magri	<i>P. juliflora</i>	264	<i>P. juliflora</i>	300	<i>E. laevis</i>	300	<i>P. juliflora</i>	300
44	Bhuneshwar Mahadev Ka Oran	<i>A. pendula</i>	148	<i>A. pendula</i>	214	<i>D. cineraria</i>	98	<i>A. pendula</i>	300
45	Neelkanth Mahadev	<i>P. juliflora</i>	182	<i>P. juliflora</i>	241	<i>J. curcus</i>	151	<i>P. juliflora</i>	300
46	Bhadra Kali Mata Ji Ka Oran	<i>P. juliflora</i>	105.2 2	<i>P. juliflora</i>	300. 00	<i>No shrub</i>	0.00	<i>P. juliflora</i>	237
47	Chisti Peer ki Dargah	<i>C. decidua</i>	232	<i>C. decidua</i>	300	<i>Z. nummularia</i>	244	<i>D. sissoo</i>	300
48	Guru Gorakhnath Ji Ka Oran	<i>S. oleoides</i>	167	<i>A. indica</i>	80	<i>Z. nummularia</i>	300	-	-
49	Kalimata ji ki Bani	<i>A. tortlis</i>	129	<i>P. juliflora</i>	137	<i>C. sepiera</i>	300	<i>P. juliflora</i>	300
50	Kapil Muni Ashram	<i>A. indica</i>	93	<i>A. indica</i>	192	<i>C. procera</i>	138	-	-
51	Shiv Dungri	<i>P. juliflora</i>	178	<i>P. juliflora</i>	138	<i>Z. nummularia</i>	300	<i>P. juliflora</i>	300
52	Ramdevji ka Oran	<i>S. oleoides</i>	134	<i>S. oleoides</i>	142	<i>C. burhia</i>	170	<i>A. tortlis</i>	300
53	Bhadariya ji Ka Oran (old)	<i>Z. rotundifolia</i>	265	<i>Z. rotundifolia</i>	300	-	-	-	-
54	Malani Oran	<i>C. decidua</i>	300.0 0	<i>P. juliflora</i>	243	<i>C. procera</i>	210	-	-
55	Bellane Oran	<i>C. decidua</i>	201.9 1	<i>A. senegal</i>	179	<i>Z. nummularia</i>	196	<i>A. tortlis</i>	300
56	Dharneswar Mahadeo ka Oran	<i>T. undulata</i>	233	<i>T. undulata</i>	240	<i>A. jacqmontii</i>	151	-	-
57	Dudeshwar Mahadeo Ka Oran	<i>S. oleoides</i>	193	<i>P. juliflora</i>	208	<i>A. jacqmontii</i>	203	<i>P. juliflora</i>	300
58	Jhootana Mama ji Ka Oran	<i>S. oleoides</i>	198	<i>P. juliflora</i>	264	<i>C. auriculata</i>	300	<i>P. juliflora</i>	300
59	Kalla ji Ka Oran	<i>A. leucophloea</i>	155	<i>P. juliflora</i>	154	-	-	<i>A. nilotica</i>	300
60	Bapulala Smirti Van	<i>A. pendula</i>	193	<i>D. melanoxylon</i>	174	-	-	<i>D. melanoxylon</i>	300
61	Devnarayan Ji Ka Asthan	<i>A. leucophloea</i>	148	<i>P. juliflora</i>	300	<i>C. procera</i>	300	<i>A. nilotica</i>	103
62	Shiv Mandir Kelkheura	<i>D. melanoxylon</i>	161	<i>D. melanoxylon</i>	175	-	-	-	-
63	Bhairav Ji Ka Bag	<i>B. monosperma</i>	100	<i>M. parviflora</i>	94	<i>C. sepiera</i>	262	<i>M. parviflora</i>	104
64	Bihari ji Ka Mandir	<i>S. oleoides</i>	160	<i>S. oleoides</i>	300	-	-	-	-
65	Prithviraj Ki Bani	<i>P. cineraria</i>	218	-	-	<i>C. procera</i>	300	-	-

SNo	Name of Oran	Trees of >30 cm girth		Trees of 10-30 cm girth		Shrubs		Saplings	
		Species	IVI	Species	IVI	Species	IVI	Species	IVI
66	Panchmir Pir Ki Bani	<i>A. tortlis</i>	125	<i>A. tortlis</i>	174	<i>Z. nummularia</i>	237	-	-
67	Kolu Pabuji Ka Oran	<i>C. decidua</i>	240	-	-	-	-	-	-
68	Karni Mata Ji Oran	<i>C. decidua</i>	139	<i>P. juliflora</i>	154	<i>Z. nummularia</i>	82	<i>P. juliflora</i>	300
69	Ramdeo Ji ka Oran	<i>P. cineraria</i>	235	<i>P. juliflora</i>	121	<i>C. procera</i>	300	<i>P. juliflora</i>	300
70	Pabuji Ka Oran	<i>P. juliflora</i>	300	<i>P. juliflora</i>	300	-	-	<i>P. juliflora</i>	300
71	Jolewali Oran	<i>P. cineraria</i>	267	-	-	-	-	<i>P. juliflora</i>	300
72	Jardabala Ji Ka Oran	<i>E. officinalis</i>	71	-	-	<i>C. procera</i>	150	-	-
73	Barbasni Mata Ji Ka Oran	<i>A. pendula</i>	215	-	-	-	-	<i>A. pendula</i>	300
74	Devnarayan Ji Ki Banni	<i>A. pendula</i>	300	-	-	<i>D. cineraria</i>	265	-	-
75	Dardevi Mata ji Ka Oran	<i>T.arjuna</i>	101	<i>P. juliflora</i>	153	<i>Z. nummularia</i>	196	<i>P. juliflora</i>	234
76	Devnarayan Bhagwan Ka Oran	<i>A. catechu</i>	120	<i>P. juliflora</i>	300	<i>D. cineraria</i>	300	<i>P. juliflora</i>	222
77	Devnarayan Ji Ka Oran	<i>E. camaldulensis</i>	208	<i>P. juliflora</i>	264	-	-	<i>P. juliflora</i>	225
78	Devnarayan Ji Ka Oran	<i>A. nilotica</i>	92	<i>P. juliflora</i>	166	<i>D. cineraria</i>	177	-	-
79	Dhokad Wali Mata ji	<i>A. pendula</i>	211	<i>A. pendula</i>	228	<i>C. sepiera</i>	300	-	-
80	Devnarayan Ji Ka Oran	<i>A. catechu</i>	163	<i>C. decidua</i>	111	<i>D. cineraria</i>	127	<i>B. monosperma</i>	300
81	Hanuman Ji ka Oran	<i>B. monosperma</i>	271	<i>B. monosperma</i>	152	<i>Z. nummularia</i>	202	<i>B. monosperma</i>	230
82	Devnarayan Ji ka Oran	<i>P. juliflora</i>	102	<i>B. aegyptiaca</i>	102	<i>C. sepiera</i>	300	<i>B. aegyptiaca</i>	232
83	Kalaji-Gora Ji Oran	<i>A. pendula</i>	158	<i>A. pendula</i>	190	<i>Z. nummularia</i>	165	-	-
84	Bheruji Ka Oran	<i>P. cineraria</i>	111	-	-	<i>A. jacqmontii</i>	135	-	-
85	Bhairon Ji Ka Oran	<i>P. juliflora</i>	133	<i>P. juliflora</i>	157	<i>L. barbarum</i>	202	<i>P. juliflora</i>	300
86	Gosai Ji Ka Oran	<i>C. decidua</i>	114	<i>C. decidua</i>	300	<i>Z. nummularia</i>	300	-	-
87	Sathika Jogmaya Ji Ka Oran	<i>C. decidua</i>	194	<i>C. decidua</i>	300	<i>Z. nummularia</i>	168	-	-
88	Laba ji Maharaj Ka Oran	<i>A. sericea</i>	279	<i>A. tortlis</i>	235	-	-	<i>A. tortlis</i>	180
89	Mama ji Ka Oran	<i>P. juliflora</i>	126	<i>P. juliflora</i>	170	<i>C. auriculata</i>	263	<i>C. decidua</i>	300
90	Devnarayanji Ka Oran	<i>S. oleoides</i>	196	<i>P. juliflora</i>	249	<i>C. auriculata</i>	300	<i>P. juliflora</i>	300
91	Ashapura Mata ji ka Oran	<i>S. oleoides</i>	199	<i>P. juliflora</i>	280	<i>C. sepiera</i>	228	<i>P. juliflora</i>	286
92	Mata ji Ka Oran (Mada)	<i>A. leucophloea</i>	149	<i>P. juliflora</i>	160	<i>C. auriculata</i>	210	<i>P. juliflora</i>	169
93	Dhundhlimata Ki Banni	<i>T. grandis</i>	132	<i>W. tinctoria</i>	126	<i>F. indica</i>	208	<i>W.tinctoria</i>	300
94	Bijasau mata ji Bani	<i>T. grandis</i>	133	<i>H. integrifolia</i>	254	<i>L. camara</i>	300	-	-
95	Chandimata ji Ka Oran	<i>T.arjuna</i>	105	<i>B. monosperma</i>	274	<i>L. camara</i>	300	-	-
96	Devnarayan ji Ki bani	<i>T. grandis</i>	227	<i>T. grandis</i>	209	<i>L. camara</i>	250	-	-
97	Devnarayan ji Ki Bani	<i>A. pendula</i>	253	<i>A. pendula</i>	171	<i>D. cineraria</i>	194	<i>A. pendula</i>	153
98	Bheru Nath ji Bani	<i>A. pendula</i>	130	<i>P. juliflora</i>	300	<i>G. tenax</i>	197	<i>P. juliflora</i>	300
99	Chamunda Mata ji Ki Bani	<i>A. pendula</i>	216	<i>A. pendula</i>	300	<i>R. mysurensis</i>	300	<i>A. pendula</i>	300
100	Haumanji ki Dungri	<i>P. juliflora</i>	141	<i>A. pendula</i>	300	<i>C. procera</i>	300	<i>A. nilotica</i>	300
101	Jasram Baba Ji Ki Bani	<i>M. parviflora</i>	87	<i>P. juliflora</i>	91	<i>C. phlomidis</i>	221	-	-

SNo	Name of Oran	Trees of >30 cm girth		Trees of 10-30 cm girth		Shrubs		Saplings	
		Species	IVI	Species	IVI	Species	IVI	Species	IVI
102	Peer Baba Ki Dargah	<i>A. pendula</i>	212	<i>P. juliflora</i>	131	<i>C. sepiera</i>	300	-	-
103	Bheruji Ki Bani	<i>P. cineraria</i>	125	<i>A. tortilis</i>	193	<i>C. procera</i>	191	-	-
104	Kheri Walai Balaji ka Oran	<i>C. decidua</i>	104	<i>C. decidua</i>	145	<i>Z. nummularia</i>	171	-	-
105	Satimata Ji Ka Mandir	<i>P. cineraria</i>	184	<i>C. decidua</i>	300	<i>C. procera</i>	300	-	-
106	Sidheswar Mahadeo Mandir	<i>A. senegal</i>	134	<i>A. senegal</i>	112	<i>Z. nummularia</i>	183	<i>P. juliflora</i>	168
107	Vorada Hanuman ji Ka Oran	<i>S. oleoides</i>	197	<i>P. juliflora</i>	300	<i>C. auriculata</i>	300	<i>P. juliflora</i>	300
108	Magriwali Mata ji Ka Oran	<i>A. pendula</i>	172	<i>A. pendula</i>	200	<i>G. tenax</i>	300	<i>A. pendula</i>	158
109	Gosai Ji Ka Jod	<i>C. decidua</i>	197	<i>C. decidua</i>	280	<i>Z. nummularia</i>	188	-	-
110	Baba Gadanpur Ki Dargah	<i>C. decidua</i>	99	<i>P. juliflora</i>	192	No shrub	0.00	<i>P. juliflora</i>	257
111	Miyan Mama Peer Baba	<i>A. nilotica</i>	172	<i>C. decidua</i>	234	<i>C. procera</i>	169	-	-
112	Baba Rahupeer Dargah	<i>S. oleoides</i>	180	<i>P. juliflora</i>	204	<i>Z. nummularia</i>	300	<i>P. juliflora</i>	221
113	Mata Ji Ka Darra	<i>P. juliflora</i>	152	<i>P. juliflora</i>	281	<i>C. sepiera</i>	300	<i>P. juliflora</i>	300
114	Devnarayan Ka Asthan	<i>A. pendula</i>	207	<i>A. pendula</i>	199	<i>C. sepiera</i>	300	<i>A. pendula</i>	217
115	Devmaharaj Ka Asthan	<i>A. pendula</i>	223	<i>P. juliflora</i>	300	-	-	<i>P. juliflora</i>	300
116	Pava Bab ji Oran	<i>W. tinctoria</i>	112	<i>W. tinctoria</i>	64	<i>G. villosa</i>	132	<i>T. bellerica</i>	87
117	Hanuman Ji Ka Oran	<i>F. bengalensis</i>	277	-	-	-	-	-	-
118	Shringi Rishi Ji Ka Oran	<i>A. senegal</i>	114	<i>A. senegal</i>	300	<i>G. tenax</i>	119	-	-
119	Bhanvar Mata ji Ki Bani	<i>A. pendula</i>	188	<i>A. pendula</i>	181	<i>E. caducifolia</i>	163	<i>A. pendula</i>	300
120	Kali Pahari Oran	<i>P. juliflora</i>	180	<i>P. juliflora</i>	272	-	-	-	-
121	Kundeshwar Mahadevji Oran	<i>F. bengalensis</i>	141	<i>S. album</i>	79	<i>C. sepiera</i>	183	-	-
122	Tarkeshwar Mahadev Oran	<i>P. roxburghii</i>	53	<i>P. roxburghii</i>	157	<i>A. squamosa</i>	168	<i>H. integrifolia</i>	100
123	Ubeshwar ji Oran	<i>E. camaldulensis</i>	83	<i>B. monosperma</i>	112	<i>L. camara</i>	136	<i>D. cordifolia</i>	209

Annexure V

Soil physico-chemical properties, soil nutrients and soil organic carbon density in different sacred groves of Rajasthan.

SNo	Name of Oran	District	Soil pH	EC	BD	Gravel	SOC	Soil nutrients (mg kg ⁻¹ soil)			Carbon density (t ha ⁻¹)
				(dSm ⁻¹)	g cm ⁻³	(%)	(%)	NO ₃ -N	NH ₄ -N	PO ₄ -P	
1	Devnarayan Ji Ka Oran	Ajmer	7.52	0.25	1.44	36.98	0.195	1.12	3.12	6.30	5.31
2	Bheruji Ka Oran	Ajmer	7.28	0.19	1.58	36.56	0.060	1.16	3.10	5.00	1.80
3	Bhuna Bai ji ka Oran	Ajmer	7.23	0.09	1.55	39.06	0.105	1.25	5.12	9.00	2.98
4	Manaldan ji Todli Ka Oran	Alwar	7.66	0.29	1.40	6.69	0.435	2.33	3.41	6.49	17.05
5	Hanuman Ji Ka Oran	Alwar	8.15	0.18	1.42	33.13	0.375	1.58	3.86	9.32	10.68
6	Jharna Ji Ka Oran	Alwar	7.69	0.22	1.35	23.13	0.705	2.23	12.11	8.25	21.95
7	Rupu Ka Vas Oran	Alwar	7.66	0.18	1.32	31.00	1.140	2.56	4.68	9.64	31.15
8	Shiv Ji Maharaj Ka Oran	Alwar	7.94	0.31	1.43	55.41	0.300	2.14	1.90	11.91	5.74
9	Dagia Bheruji Ka Oran	Banswara	6.33	0.12	1.36	63.44	0.623	2.56	2.56	10.23	9.29
10	Prathurinath ji Ka Oran	Banswara	6.12	0.19	1.40	72.14	1.080	1.24	4.50	12.56	12.64
11	Sai Baba Ka Mandir	Banswara	7.20	0.18	1.41	59.51	0.420	1.25	3.40	12.50	7.19
12	Devnarayan Ji Ka Oran	Baran	7.59	0.59	1.47	20.04	0.285	2.13	9.60	9.20	10.05
13	Musain Mata Ji Ka Oran	Baran	7.62	1.94	1.48	38.90	0.390	1.19	7.12	13.00	10.58
14	Kala ji Ka Bagh (Nag)	Baran	7.87	0.17	1.52	36.58	0.555	1.09	9.16	9.00	16.05
15	Baukal Mata ji Ka Oran	Barmer	7.80	0.21	1.58	27.30	0.150	1.25	1.50	5.80	5.17
16	Viratra Mata Ka Oran	Barmer	7.26	0.15	1.60	0.00	0.060	0.09	1.15	5.40	2.88
17	Mata ji Ka Oran	Barmer	7.78	0.18	1.59	5.99	0.135	1.50	1.60	6.56	6.05
18	Khuwas Mata Ji Ka Oran	Barmer	7.90	0.15	1.58	0.00	0.090	1.23	1.23	10.55	4.27
19	Mama ji Ka Selenadi	Barmer	7.88	0.16	1.58	4.44	0.089	1.22	1.26	9.22	4.03
20	Ghanshsyam Baba Ka Ashram	Bharatpur	7.04	0.11	1.48	8.25	0.338	6.14	4.67	12.46	13.75
21	Adi Badri Dham	Bharatpur	7.67	0.12	1.49	17.25	0.315	7.13	3.03	8.00	11.65
22	Sawai Bhoj/Devnarayan Mandir	Bhilwara	7.33	0.20	1.42	28.46	1.080	1.78	6.30	13.34	32.91
23	Dennaryan Ji Ki Bani	Bhilwara	7.42	0.22	1.41	39.66	1.155	2.18	10.67	12.86	29.48
24	Devnaryan	Bhilwara	7.74	0.31	1.41	59.69	1.290	1.91	2.66	9.56	22.00
25	Goga Ji Ka Oran	Bikaner	8.74	0.30	1.50	29.08	0.345	2.36	4.30	7.32	11.01
26	Karni Mata Ji ka Oran	Bikaner	8.52	0.29	1.51	4.51	0.330	1.15	2.51	8.30	14.27
27	Karni Mata Ji Ka Oran	Bikaner	8.64	0.19	1.49	6.63	0.330	0.19	4.50	9.60	13.77
28	Siya mata ji Ki Bani	Bundi	7.40	0.35	1.44	64.15	0.555	2.78	9.07	19.12	8.60
29	Gangrawal Ji Maharaj Ki Vani	Bundi	7.47	0.32	1.32	57.78	0.750	2.68	7.09	14.30	12.54
30	Parbetheshwar Mahadeo ki Bani	Bundi	8.22	0.22	1.29	53.75	0.750	3.52	4.68	12.46	13.42
31	Devnarayan ji Ka Oran	Chittorgarh	6.21	0.22	1.25	52.85	2.955	6.71	0.55	6.24	52.25

SNo	Name of Oran	District	Soil pH	EC	BD	Gravel	SOC	Soil nutrients (mg kg ⁻¹ soil)			Carbon density (t ha ⁻¹)
				(dSm ⁻¹)	g cm ⁻³	(%)	(%)	NO ₃ -N	NH ₄ -N	PO ₄ -P	
32	Rishi Mangri Oran	Chittorgarh	7.29	0.18	1.31	63.09	1.290	6.35	6.42	10.46	18.71
33	Nahar Singhji Mata ka Oran	Chittorgarh	7.43	0.12	1.44	85.22	0.525	6.49	5.16	8.36	3.35
34	Junjan Dodaji Ka Oran	Churu	6.71	0.08	1.58	2.06	0.180	2.92	6.43	14.24	8.36
35	Gogaji Ka Oran	Churu	7.06	0.02	1.55	0.00	0.135	3.08	6.17	14.24	6.28
36	Gosai Ji Ka Oran	Churu	6.41	0.04	1.54	0.00	0.195	1.86	3.28	11.10	9.01
37	Kaludas Baba Ki Dungri	Dausa	7.55	0.28	1.46	63.31	0.465	3.14	2.45	6.91	7.47
38	Devnarayna Ji Ka Oran	Dausa	7.25	0.26	1.43	47.77	0.326	3.22	3.26	5.23	7.30
39	Sawanria ji Seth Dham	Dausa	7.68	0.23	1.44	40.75	0.360	4.23	2.82	11.80	9.21
40	Bali Baba Ki Dargah	Dholpur	7.48	0.19	1.39	32.44	0.720	6.15	4.64	12.46	20.28
41	MuchKund	Dholpur	5.20	0.26	1.47	17.71	0.480	4.15	1.75	5.00	17.42
42	Mahadeo Ji Ka Oran	Dholpur	8.21	0.32	1.51	22.17	0.180	3.15	2.00	6.24	6.35
43	Govindguru Chhari Magri	Dungarpur	6.67	0.15	1.42	46.45	0.780	2.30	3.20	9.56	17.79
44	Bhuneshwar Mahadev Ka Oran	Dungarpur	7.30	0.27	1.38	57.87	1.862	1.09	2.90	7.12	32.47
45	Neelkanth Mahadev	Dunagrpur	7.50	0.18	1.47	56.77	0.630	1.80	4.50	12.86	12.01
46	Bhadra Kali Mata Ji Ka Oran	Hanumangarh	7.67	0.24	1.42	20.70	1.290	2.56	2.58	5.12	43.58
47	Chisti Peer ki Dargah	Hanumangarh	8.14	0.29	1.55	0.00	0.390	4.80	4.50	10.24	18.14
48	Guru Gorakhnath Ji Ka Oran	Hanumangarh	7.67	0.32	1.52	57.85	0.450	2.70	2.38	6.52	8.65
49	Kalimata ji ki Bani	Jaipur	7.50	0.18	1.55	5.00	0.225	1.72	6.85	10.35	9.94
50	Kapil Muni Ashram	Jaipur	8.14	0.22	1.49	17.75	1.125	5.30	2.86	9.08	41.36
51	Shiv Dungri	Jaipur	7.60	0.19	1.57	7.53	0.150	2.42	4.51	10.35	6.53
52	Ramdevji ka Oran	Jaisalmer	8.04	0.35	1.65	2.3	0.235	1.23	2.33	4.56	11.36
53	Bhadariya ji Ka Oran (old)	Jaisalmer	8.12	0.4	1.61	6.7	0.325	1.25	2.56	6.55	14.65
54	Malani Oran	Jaisalmer	8.04	0.29	1.67	1.77	0.215	2.05	1.56	4.55	10.58
55	Bellane Oran	Jaisalmer	7.89	0.34	1.59	1.24	0.341	1.89	2.13	7.23	16.06
56	Dharneswar Mahadeo ka Oran	Jalore	7.92	0.18	1.56	29.29	0.165	4.38	6.30	14.24	5.46
57	Dudeshwar Mahadeo Ka Oran	Jalore	7.85	0.28	1.61	0.71	0.090	3.75	5.12	12.46	4.32
58	Jhootana Mama ji Ka Oran	Jalore	7.85	0.18	1.55	2.46	0.135	3.05	3.18	10.24	6.12
59	Kalla ji Ka Oran	Jhalawar	7.97	0.12	1.36	36.79	0.990	3.22	4.40	10.46	25.53
60	Bapulala Smirti Van	Jhalawar	7.75	0.23	1.52	41.37	0.585	6.54	6.50	8.30	15.64
61	Devnarayan Ji Ka Asthan	Jhalawar	7.04	0.14	1.59	10.49	0.450	7.23	3.00	5.12	19.21
62	Shiv Mandir Kelkheura	Jhalawar	8.43	0.11	1.63	58.52	0.285	3.65	3.20	6.50	5.78
63	Bhairav Ji Ka Bag	Jhalawar	7.14	0.09	1.60	8.91	0.375	2.59	5.00	8.30	16.40
64	Bihari ji Ka Mandir	Jhunjunnu	6.90	0.22	1.65	0.00	0.165	1.55	6.94	11.20	8.17
65	Prithviraj Ki Bani	Jhunjunnu	7.46	0.12	1.62	0.00	0.390	2.02	1.16	5.20	18.95
66	Panchmir Pir Ki Bani	Jhunjunnu	6.18	0.14	1.63	0.00	0.180	4.04	4.60	10.40	8.80
67	Kolu Pabuji Ka Oran	Jodhpur	6.23	0.23	1.62	4.44	0.220	2.22	5.26	5.66	10.22

SNo	Name of Oran	District	Soil pH	EC	BD	Gravel	SOC	Soil nutrients (mg kg ⁻¹ soil)			Carbon density (t ha ⁻¹)
				(dSm ⁻¹)	g cm ⁻³	(%)	(%)	NO ₃ -N	NH ₄ -N	PO ₄ -P	
68	Karni Mata Ji Oran	Jodhpur	8.18	0.38	1.63	0.96	0.210	2.96	6.43	6.44	10.17
69	Ramdeo Ji ka Oran	Jodhpur	8.24	0.24	1.59	18.89	0.300	4.46	5.32	4.90	11.61
70	Pabuji Ka Oran	Jodhpur	7.82	0.28	1.71	1.28	0.030	2.30	7.14	6.24	1.52
71	Joleyali Oran	Jodhpur	7.67	0.34	1.66	66.56	0.300	2.18	6.16	4.50	5.00
72	Jardabala Ji Ka Oran	Karauli	6.38	0.26	1.32	12.54	0.855	3.45	0.82	6.40	29.61
73	Barbasni Mata Ji Ka Oran	Karauli	6.97	0.31	1.52	25.52	0.390	3.35	7.75	13.00	13.25
74	Devnarayan Ji Ki Banni	Karauli	7.85	0.18	1.45	22.13	0.435	7.09	3.90	9.00	14.74
75	Dardevi Mata ji Ka Oran	Kota	7.71	0.57	1.44	11.43	0.495	2.35	4.46	6.52	18.94
76	Devnarayan Bhagwan Ka Oran	Kota	7.73	0.45	1.33	45.33	0.945	2.36	3.78	4.98	20.61
77	Devnarayan Ji Ka Oran	Kota	8.33	0.35	1.68	37.02	0.720	1.53	7.12	2.32	22.85
78	Devnarayan Ji Ka Oran	Kota	7.76	0.45	1.40	42.88	1.035	1.26	9.00	17.00	24.83
79	Dhokad Wali Mata ji	Kota	7.99	0.31	1.62	29.40	0.210	1.14	5.20	9.00	7.21
80	Devnarayan Ji Ka Oran	Kota	7.90	0.33	1.40	37.02	0.660	2.33	7.20	13.00	17.46
81	Hanuman Ji ka Oran	Kota	7.66	0.24	1.32	35.46	0.945	1.18	9.60	17.00	24.15
82	Devnarayan Ji ka Oran	Kota	8.05	0.29	1.44	61.27	0.780	1.17	5.20	9.00	13.05
83	Kalaji-Gora Ji Oran	Kota	7.34	0.36	1.48	16.73	0.645	1.09	7.00	13.00	23.85
84	Bheruji Ka Oran	Nagour	8.37	0.27	1.55	35.63	0.525	4.80	2.28	7.32	15.72
85	Bhairon Ji Ka Oran	Nagour	7.25	0.22	1.68	2.51	0.075	3.50	4.46	8.30	3.69
86	Gosai Ji Ka Oran	Nagour	8.23	0.29	1.48	1.81	0.315	1.50	2.36	10.52	13.73
87	Sathika Jogmaya Ji Ka Oran	Nagour	8.52	0.31	1.49	7.26	0.255	2.80	4.10	6.33	10.57
88	Laba ji Maharaj Ka Oran	Pali	7.08	0.17	1.58	1.99	0.345	3.12	3.23	5.66	16.03
89	Mama ji Ka Oran	Pali	7.11	0.15	1.55	11.35	0.360	2.56	2.56	6.23	14.84
90	Devnarayanji Ka Oran	Pali	7.15	0.12	1.56	14.77	0.360	1.56	2.15	4.58	14.36
91	Ashapura Mata ji ka Oran	Pali	7.11	0.11	1.55	24.44	0.300	2.12	2.56	6.58	10.54
92	Mata ji Ka Oran (Mada)	Pali	7.25	0.23	1.52	27.77	0.330	2.22	2.22	7.12	10.87
93	Dhundhlimate Ki Banni	Pratapgarh	6.42	0.22	1.40	26.12	0.630	5.78	2.41	6.16	19.55
94	Bijasau mata ji Bani	Pratapgarh	7.60	0.17	1.35	28.24	1.515	3.90	8.56	9.12	44.03
95	Chandimate ji Ka Oran	Pratapgarh	6.05	0.08	1.42	28.12	0.570	3.94	2.01	9.23	17.46
96	Devnarayan ji Ki bani	Pratapgarh	6.55	0.19	1.44	38.00	0.512	2.66	3.66	6.33	13.71
97	Devnarayan ji Ki Bani	Rajsamand	6.58	0.12	1.46	29.23	0.675	2.12	6.52	8.30	20.92
98	Bheru Nath ji Bani	Rajsamand	7.12	0.15	1.49	35.27	0.525	1.59	8.30	12.46	15.19
99	Chamunda Mata ji Ki Bani	Rajsamand	7.25	0.18	1.52	33.33	0.600	1.26	4.52	10.46	18.24
100	Haumanji ki Dungri	Sawaimadhopur	7.48	0.27	1.50	68.02	0.630	0.18	6.50	16.44	9.07
101	Jasram Baba Ji Ki Bani	Sawaimadhopur	7.58	0.26	1.49	66.22	0.660	0.13	6.52	14.36	9.96
102	Peer Baba Ki Dargah	Sawaimadhopur	7.66	0.23	1.55	65.45	0.562	0.23	5.23	14.12	9.03

SNo	Name of Oran	District	Soil pH	EC	BD	Gravel	SOC	Soil nutrients (mg kg ⁻¹ soil)			Carbon density (t ha ⁻¹)
				(dSm ⁻¹)	g cm ⁻³	(%)	(%)	NO ₃ -N	NH ₄ -N	PO ₄ -P	
103	Bheruji Ki Bani	Sikar	6.20	0.12	1.62	0.00	0.210	2.16	5.30	7.32	10.21
104	Kheri Walai Balaji ka Oran	Sikar	7.06	0.09	1.60	0.00	0.390	2.38	6.09	11.32	18.72
105	Satimata Ji Ka Mandir	Sikar	6.70	0.34	1.59	0.00	0.225	3.68	6.11	14.30	10.73
106	Sidheswar Mahadeo Mandir	Sirohi	8.29	0.15	1.50	25.23	0.285	4.03	10.52	22.00	9.59
107	Vorada Hanuman ji Ka Oran	Sirohi	7.82	0.16	1.55	8.90	0.225	3.87	6.52	12.46	9.53
108	Magriwali Mata ji Ka Oran	Sirohi	7.90	0.19	1.41	72.86	0.180	3.06	9.32	20.00	2.07
109	Gosai Ji Ka Jod	SriGanganagar	6.99	0.19	1.62	20.10	0.300	3.15	4.32	8.24	11.65
110	Baba Gadanpur Ki Dargah	SriGanganagar	7.78	0.26	1.60	25.37	0.465	3.50	4.92	10.19	16.66
111	Miyan Mama Peer Baba	Sri Ganganagar	7.53	0.18	1.44	15.62	0.855	1.80	2.38	6.10	31.17
112	Baba Rahupeer Dargah	Sri Ganganagar	7.70	0.18	1.58	27.89	0.450	3.50	4.52	8.30	15.38
113	Mata Ji Ka Darra	Tonk	7.45	0.24	1.68	55.71	0.075	3.15	5.03	6.49	1.67
114	Devnarayan Ka Asthan	Tonk	7.24	0.22	1.65	38.90	0.180	3.12	6.23	7.82	5.44
115	Devmaharaj Ka Asthan	Tonk	7.33	0.26	1.55	34.77	0.235	2.56	9.26	8.22	7.13
116	Pava Bab ji Oran	Udaipur	6.78	0.11	1.44	45.97	0.465	1.73	3.30	13.34	10.85
117	Hanuman Ji Ka Oran	Udaipur	6.27	0.14	1.51	39.74	0.480	3.57	3.58	12.06	13.10
118	Shringi Rishi Ji Ka Oran	Udaipur	8.16	0.18	1.28	56.99	1.845	4.56	4.23	11.13	30.47
119	Bhanvar Mata ji Ki Bani	Udaipur	6.60	0.32	1.25	68.15	1.305	4.58	12.59	17.38	15.58
120	Kali Pahari Oran	Udaipur	8.14	0.22	1.40	59.70	0.135	7.95	5.92	4.71	2.29
121	Kundeshwar Mahadevji Oran	Udaipur	7.08	0.18	1.25	67.14	1.620	8.20	4.34	14.85	19.96
122	Tarkeshwar Mahadev Oran	Udaipur	7.96	0.16	1.47	69.32	0.645	4.46	3.05	14.06	8.73
123	Ubeshwar ji Oran	Udaipur	7.98	0.17	1.25	42.88	1.905	5.44	13.55	10.52	40.80