

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 6, April 2022

The Floristic Studies on Narande Sacred Grove Narande, Dist. Kolhapur, Maharashtra

Patil Aparna A¹ and Minchekar Rahul²

U.G., P.G. Department of Botany, Shri. Shahaji Chhtrapati Mahavidyalay, Kolhapur¹ Department of Botany, Shri. Vijaysinh Yadav Mahavidyalay, Peth Vadgao¹

Abstract:Sacred groves are virgin forest pockets dedicated to local deities and preserve remarkable treasure troves not seen in the neighborhood. This is due to many myths and ductile to the tribal villagers, which forbid their exploitation for personal benefits. Sacred groves dedicated to the gods. The practice of dedicating groves to deities is common in India. While try to provide a haven for birds & animals; they also preserve many species of plants which would otherwise have become extinct. These deities are generally of timely primitive nature; mother goddesses in the form of unshaped stone lumps smeared red paint, lying open to the sky, Kalkai in Konkan, a Jogmaya in the Aravallis or a Kenchanmama in southern Kanara the present investigation is important to the student of plant taxonomy, pharmacognosy, ethno botany, environmental botany etc. In study area narander sacred grove innarande. During observation I was found that herb is 55%, shrub is 26% under shrub 6%. climbers 11%. Trees In this paper there are 95 plant species out of these 71 plants species belongs to Class-Dicotyledone and 16 plants species belongs to Class-Monocotyledone and 5 from pteridophytes. There are 35 families 60 genera and 64 species are from Angiosperms and 4 families 5 genera and 5 species from pteridophyts.

Keywords: Sacred Grove, Deities, Tribes Ethno Botany, etc.

I. INTRODUCTION

Sacred groves are virgin forest pockets dedicated to local deities and preserve remarkable treasure troves not seen in the neighborhood. This is due to many myths and dictates to the tribal villager's, which forbid their exploitation for personal benefits. Sacred groves dedicated to the gods. The practice of dedicating groves to deities is common in India. While try to provide a haven for birds & animals; they also preserve many species of plants which would otherwise have become extinct.

India is country of sacred banyan trees, sacred cows and sacred monkeys. We are nature worshippers per excellence & extend protection to more forms of living nature than any other culture in nature sanctuaries where all ferns of living creatures are afforded protection through the grove of any are deity.

These deities are generally of timely primitive nature; mother goddesses in the form of unshaped stone lumps smeared red paint,lying open to the sky, Kalkai in Konkan,a Jogmaya in the Aravallis or a Kenchanmama in southern Kanara.

For the believers sacred groves are amongst the fiercest of deities, breaking even dead twig in a sacred grove may results in serious illness or in violent death. Such distinct taboos have led to the preservation in these sacred groves of forest in its virgin condition, relics of the forest that must have once covered much of India. Such sacred groves occur in many parts of India.

In India they have been reported to us from Khasi hills in Assam (A.G.Raddi pens comm.) in the Northeast, Aravali rangesof Rajasthan (I Prakash pers. Comm.) In the northwest all along western Ghats in the southern part in such Madhya Pradesh in central India (G.G.Takale pers.comm.). The only published reference to the phenomenon known to us of Kosambi (1962) which deals with the sacred groves of Maharashtra a state on the west coast of India. The account given by Kosambi is very brief, being based on a single site the approach mainly anthropological benignly largely concerned with religious.

Being a student of plant taxonomy, the curiosity about sacred groves was in my mind. To understand floristic composition present in sacred groves as a case study, it was decided to study on topic entitled, "The Floristic Studies on NarandeSacred Grove of Narande, Dist. Kolhapur, Maharashtra".



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 6, April 2022

II. AIM AND OBJECTIVES

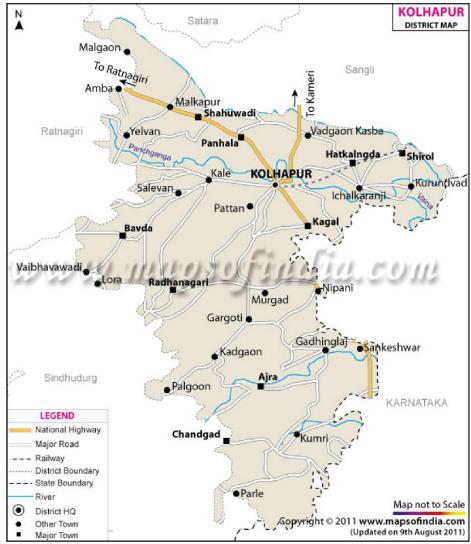
- 1. To study the floristic diversity of Narande SacredGrove.
- 2. To prepare the e-herbarium of plant species present in the narande sacred grove.

III. MATERIALS AND METHODS

Study Area:

The Narande sacred grove. It is located near to Nagacge Ban.

During the field visits the plants in the flowering or fruiting conditions were collected for correct botanical identification and for herbarium preparation. At the same time Photography with Digital Camera was done. At the same time the specimen number were given to the observed plants and the field notes were prepared. All the collected plant specimens were identified with the help of local literature like Cooke(1958); Sharma & etal. (1996); Singh & etal. (2000-2001). The collected plant specimens were preserved according to the method given by Jain.



Rao (1977). The list of the plants was prepared with botanical name, family, followed by habits and names of books

Sr.No.	Botanical name	Family	Class
1.	Cassia tora.Linn.	Caselpinaceae	Dicot
2.	Leea macrophylla,Roxb.	Vitaceae	Dicot



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 6, April 2022

3.	Vitis latifolia,Linn.	Vitaceae	Dicot
4.	Begonia crinata, Linn.	Begoniaceae	Dicot
5.	Mimosa pudica,Linn.	Mimosace	Dicot
6.	Smithia sensitiva, Ait.hort	Fabaceae	Dicot
7.	Urena lobata, Linn.	Malvaceae	Dicot
8.	Triumfetta pilosa, Roxb.	Malvaceae	Dicot
9.	Triumfetta rhomboidea, Jacquin, Enum.	Malvaceae	Dicot
10.	Passifiora foetida, Linn.	Passifloraceae	Dicot
11.	Crotolaria hebecarpa,DC	Fabaceae	Dicot
12.	Cyclea peltata, Hool f. Sf Thorns. Fl.	Minispremeaceae	Dicot
13.	Cissampelos Pereira, Linn.	Minispermaceae	Dicot
14.	Thespesia macrophylla, Blume. Bijdr	Malvaceae	Dicot
15.	Helicteres Isora, Linn .	Sterculiaceae	Dicot
16.	Zizyphus rugosa, Juss.	Rhamneceae	Dicot
17.	Zizyphus Jujuba, Juss.	Rhamnaceae	Dicot
18.	Impatiens Balsamina, Linn.	Balsaminaceaee	Dicot
19.	Impatiens minor, Benth.	Balsaminaceae	Dicot
20.	Cajanus lineata(Atylosia lineata), wight&Arn.	Fabaceae	Dicot
21.	Ludwigia octovalvis.(Jussisea sufifruticosa,) Linn.	Onagraceae	Dicot
22.	Ixora coccinea,Linn.	Rubiaceae	Dicot
23.	Arissema tortuosum, Schott.	Araceae	Monocot
24.	Arum Colocasia, Linn.	Araceae	Monocot
25.	Cyperus rotundus, Linn.	Cypreceae	Dicot
26.	Rhynchospora Wallichiana, Enum.	Cypreceae	Dicot
27.	Eragrostis minor, Host.	Poaceae	Monocot
28.	Eragrostis unioloides, steud.	Poaceae	Monocot
29.	Plumbago zeylanica,Linn.	Plumbaginaceae	Dicot
30.	Euphorbia hirta,Linn.	Euphorbiaceae	Dicot
31.	Curculigo orchioides. Gaerth.	Hyoxidaceae	Monocot
32.	Merremia vitifolia, Hall.	Convovulaceae	Dicot
33.	Celosia argentea.Linn.	Amranthaceae	Dicot
34.	Rungia repens. Ness.	Acantheceae	Dicot
35.	Curcuma pseudomontana, Grath.	Zingiberaceae	Monocot
36.	Rhyncostylis retusa, Bl.	Orchideceae	Monocot
37.	Dioscoria bulbifera,L.	Dioscoraceae	Dicot
38.	Jasminum malabaricum,Wt.	Oleaceae	Dicot
39.	Alternanthera paronchioides,Br.	Amranthaceae	Dicot
40.	Lantena camara, Linn.	Verbenaceae	Dicot
41.	carissa carands.L.	Apocynaceae	Dicot
42.	Holarrherena antidysenterica, Wal, Cat.	Apocynaceae	Dicot
43.	Rauwolfia serpentina, Benth.	Apocynaceae	Dicot
44.	Breynia petens, Linn.	Euphorbiaceae	Dicot
45.	Ageratum conyzoides,L.	Asteraceae	Monocot
46.	Stachytarpheta indica, Vahl.	Verbenaceae	Dicot



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 6, April 2022

47.	Achyranthes aspera, L.	Amranthaceae	Dicot
48.	Tridax procumbens, L.	Asteraceae	Monocot
49.	Synedrella nodiflora(Linn)J. Gaert.	Asteraceae	Monocot
50.	Physalis minima, L.	Solaneceae	Dicot
51.	Ipomoea eriocarpa, Vahl .	Convovulaceae	Dicot
52.	Costus speciosus,Sm.	Zingiberaceae	Monocot
53.	Canscora diffusa,Br.	Gntianaceae	Dicot
54.	Trichodesma indicum,L.	Boraginaceae	Dicot
55.	Calotropis gigantea,Br.	Ascelpidaceae	Dicot
56.	Gloriosa superba, Linn.	Liliaceae	Monocot
57.	Commelina obliqua,B-Ham .	Commelinaceae	Monocot
58.	Bambusa bambos, Klein.	Poaceae	Monocot
59.	Phyllanthus niruri, Linn.	Euphorbiaceae	Dicot
60.	Clerodendrum serratum.L.	Verbenaceae	Dicot
61.	Impatiens incopspicua, Benth.	Balsaminaceae	Dicot
62.	Ageratum houstoniamus, Mill.	Asteraceae	Monocot
63.	Blumea lacera,DC.	Asteraceae	Monocot
64.	Barleria cuspidate,L .	Acanthaceae	Dicot
65.	Mackenziea integerfolia	Acanthaceae	Dicot
03.	(Strobilanthus perfoliatus), Anders.	Acanthaceae	Dicot
66.	Tragia involucrata,L.	Euphorbiaceae	Dicot
67.	Sellagenella delicatula (Desv.)	Sellageniaceae	-
68.	Asplinium onopteris,L.	Aspliniaceae	-
69.	Pteris vittata.L.	Pteridaceae	-
70.	Lygodium flexuosum.L.	Lygodiaceae	-
71.	Adiantum raddiannum Presl.	Pteridaceae	-
72	Cynodon dactylon	poaceae	monocot
73	Hibiscus Trionum, Lmn.Sp	malveceae	dicot
74	Hibiscus tetraphyllus	malvaceae	Dicot
75	Grewia villosa, Willd		Dicot
76	Mangifera indica	Anacardiaceae	Dicot
77	Crotolaria verrucose	Fabaceae	Dicot
78	Accacia coccinia	Mimoceae	Dicot
79	Terminalia belrica	Verbinacea	Dicot
80	Calycopteris floribunda		Dicot
81	Eriogostis tenuifolia		Dicot
82	Vigna trilobata	Fabaceae	Dicot
83	Desmodium trifolium	Fabeceae	Dicot
84	Ipomoea mouritiana	Conolvulacea	Dicot
85	Curcuma nilgirancsis	Zinzibaraceae	Monocot
86	Memecylon umbelatum	Melastomaceae	Dicot
87	Sessanum oriantale	Pedliacea	Dicot
88	Ipomoea hederifolia	Conovavulaceae	Dicot
89	Eranthemum roseum	Accanthaceae	Dicot





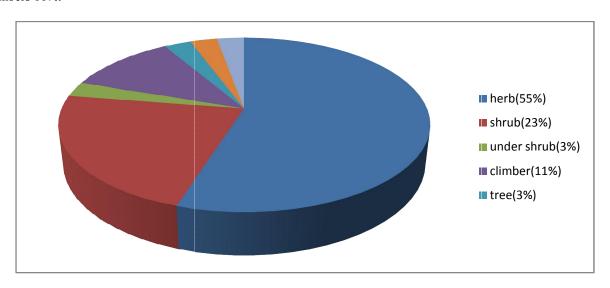
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 6, April 2022

90	Vitex nigudo	Verbinaceae	Dicot
91	Tricodesma indicum	Astraceae	Dicot
92	Barleria lawwi	Acanthaceae	Dicot
93	Barleria prinitis	Acanthaceae	Dicot
94	Barleria terminalis	Acanthaceae	Dicot
95	Bareria gibsonioides	Acanthacea	Dicot

IV.RESULT

In study area Nrande sacred grove.i. During observation I was found that herb is 55%, shrub is 26% under shrub 6% climbers 11%.



V. CONCLUSION

In project work there are 95 plant species out of these 71 plants species belongs to Class- Dicotyledonous and 16 plants species belongs to Class-Monocotyledone and 5 from pteridophytes.

There are 35 families 60 genera and 64 species are from Angiosperms and 4 families 5 genera and 5 species from pteridophyts.

REFERENCES

- [1] Almeida, M.R. (1998). Flora of Maharashtra, Blatter Herbarium, St. Xavier's College, Mumbai.
- [2] Chandrabose M, N.C. Nair & C. Chandrasekharan. (1988). Flora of Coimbatore. Bishen Singh Mahendra Pal Singh, Dehra Dun.
- [3] Chatterjee, D. (1962). Floristic pattern in Indian vegetation. Proc. Summer School Botany, Darjeeling, pp 32-42. New Delhi.
- [4] Chatterjee, D.(1940). Studies on the endemic flora of India and Burma. J. Asiat. Soc. Bengal5:pp 19-67.
- [5] Cooke, T.(1908). Flora of Presidency of Bombay, Govt. of India.
- [6] Fyson, P.F. (1932). The Flora of South Indian Hill stations. Madras Govt. Press, 2 vols.
- [7] Gamble, J.S. (&C.E.C. Fischer)(1915-36). Flora of the Presidency of Madras, Adlard & Son Ltd. London.
- [8] Kammathy, R.V. (1983). Rare and endemic species of Indian Commelinaceae, in Eds. Jain, S.K. &R. R. Rao. An Assessment of Threatened plants of India, Botanical Survey of India, Howrah: pp213-221.
- [9] Keshava Murthy, K.R. & S.N. Yoganarasimhan. (1990). The Flora of Coorg (Kodagu), Karnataka, India. Vimsat Publishers, Bangalore.
- [10] Krishnamoorthy, K. (1960). Myristica swamps in the evergreen forests of Travancore: in Tropical moist evergreen forest symposium. FRI, Dehra Dun.



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 6, April 2022

- [11] Manickam S (1995). Rare and endangeredferns of the Western Ghats of South India. Fern Gazette 15 pp1-10.
- [12] Manickam VS and Irudayaraj V (1992). Pteridophytes flora of the Western Ghats- South India, BI., Publications, New Delhi.
- [13] Manilal, K.S. (1988). Flora of Silent Valley tropical rain forest of India. Department of Science & Technology, Calicut.
- [14] Manilal, K.S. (1995). Biodiversity of Silent Valley and efforts for the conservation of Tropical Rain Forests of India. In (Ed) A. K. Pandey Taxonomy and Biodiversity'. CBSPublishers & Distributors, New Delhi.
- [15] Mathew, K. M. (1981-84). The Flora of Tamil Nadu Carnatic, 3 vols. Rapinat Herbarium, Tiruchirapalli.
- [16] Mehrotra, A.&S.K. Jain(1982). Endemism in Indian grasses tribe Andropogoneae. Bull. Bot. Surv. India 22: pp51-58.
- [17] Menon,S.& K. S. Bawa (1997). Application of geographic information systems, remote sensing and a landscapeecology approach to biodiversity conservation in Western Ghats. Curr. Sci. 73(2): pp134-145.
- [18] Mohanan, M. & M. Sivadasan. (2002). Flora of Agasthyamala, BSI, Calcutta
- [19] Mohanan, M&A.N.Henry (1994). Flora of Thiruvananthapuram, District BSI, Calcutta.
- [20] Myers, N., R. A. Mittermeier, C. G. Mittermeier, G.A.B. Fonesca, & J. Kents. (2000). Biodiversity hotspots forconservation priorities. Nature 403:pp 853-858.
- [21] Myers, N.1988(and 1990) Threatened Biotas: hot spots in tropical forests, The Environmentalist 8:pp1-20; 10: pp243-256.
- [22] Nagendran, C.R. &G.D. Arekal. (1981). Studies on Indian Podostemaceae. Bull. Bot. Surv. India 23:pp 228-238.
- [23] Nair, N.C. & Henry, A.N. (1983). Flora of Tamil Nadu, India, series 1: Analysis. Botanical Survey of India, Coimbatore.