



FOUR NEW REPORTS FROM SACRED GROVES OF MAHARASHTRA

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The present paper deals with new report of 4 sacred groves from the Raigad district of Maharashtra State. While conducting an ethnobotanical survey in the district, authors have explored 4 sacred groves which on critical study revealed that these are not reported previously and therefore these sacred groves are being reported first time from the district and thus forms a new report of sacred groves for the state of Maharashtra. A taxonomic study of all the plant species found in all the 4 sacred groves has been carried out. It has been observed that a huge diversity of plant species is being conserved in sacred groves.

Key Words: Raigad, Sacred grove, New report, Conservation, Ethnobotany

Raigad district in the state of Maharashtra lies between 17°51'-19°80'N latitude and 72°51'-73°40'E longitude. It covers an area of 7162 sq. km. The district is bounded on the west by Arabian sea, Thane district lies to the north, Pune district to the east, Ratnagiri district to the south while Satara district shares a boundary in south-east. Raigad district forms an important part of the traditional Konkan region. There are several hill ranges stretching out from the main Sahyadri range which runs almost parallel to the west coast. On the north-east boundary of the district, the Sahyadri range is crossed by several passes or ghats. Interesting forest vegetation is reflected due to varied physiological, geological, edaphic and climatic conditions.

Raigad district consist of dark coloured volcanic lava flows and laterites. On plateau, basalt lava forms dominant 'Basaltic composition'. Next to that is a little softer, purple to grayish, usually showing rounded or elongated or tubular cavities and geode with infillings of secondary mineral occupying the portion of slopes and valleys.

Soil in the district is Murum, grayish to dirty green in colour which on decomposition gives reddish-brown to black soil. Rice soil and coastal alluvial soils are also present.

Varied physiographical, geological, climatic and edaphic conditions are reflected in diverse

vegetation types. A total of 2864 sq. km. area in the district is under forests.

MATERIALS AND METHODS

Village Pali has been fixed as a head quarter for field survey as it is easily approachable and is the central place of the district. Necessary permissions have been taken from the Forest Department for the collection of plant specimens. Detailed program of field visits has been designed by discussing with forest officials and local people. Various forest localities, sacred grooves have been visited regularly for the collection of plant specimens. For the collection of data on sacred grooves, standard format given by Vartak (1980) is used. Flowering and fruiting twigs of plant specimens have been collected as voucher specimens. Global Positioning System (Garmin etrex Vista hcx) has been used to record coordinates of each plant. During field visits, digital images of plants have been taken to show habit, habitat, flower, fruit and other pre-diagnostic characters. Digital images of topography of sacred groves have also been recorded. Plants collected during present study have been properly processed and herbarium sheets have been prepared as per the standard methods given by Jain and Rao (1978) and Bridson and Forman (1998). Critical studies of collected plants have been done at Blatter Herbarium. Collected plants are identified with

Table 1: New report of sacred groves from Raigad district of Maharashtra State.

Sr. No.	Name of Sacred grove	Taluka	Name of Deity	Area (acre)
1	Kondi	Sudhagad	Kondjai Devi	25
2	Nenavali	Sudhagad	Gramdeo	4
3	Gokulwada	Sudhagad	Gokuladevi	6
4	Pali	Sudhagad	Nrisinha	2

Table 2: A list of plant species recorded from 4 sacred groves.

Sr. No.	Botanical Name	Name of sacred grove	Exsiccata
1	<i>Abrus precatorius</i> L.	Kondi, Nenavali, Pali	KGM – 253, 471, 506, 659, 791
2	<i>Acacia catechu</i> (L.f.) Willd.	Nenavali, Kondi	KGM – 115, 127, 192
3	<i>Acacia pennata</i> (L.) Willd.	Nenavali	KGM – 566
4	<i>Acampe praemorsa</i> (Roxb.) Blatt.& McCann	Pali, Nenavali, Kondi, Gokulwada	KGM – 427, 540
5	<i>Achyranthes aspera</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 69, 264, 366
6	<i>Acmella paniculata</i> (Wall. x DC.) R. K. Jansen	Pali, Nenavali, Kondi, Gokulwada	KGM – 86, 148
7	<i>Aeginetia indica</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 164, 267, 303
8	<i>Agave americana</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – CV113
9	<i>Ageratum conyzoides</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 89, 212, 705
10	<i>Albizia lebbeck</i> (L.) Benth.	Pali	KGM – 594, 671, 767
11	<i>Alstonia scholaris</i> (L.) R. Br.	Pali, Gokulwada	KGM – 557, 684
12	<i>Alternanthera sessilis</i> (L.) R. Br. ex DC.	Pali, Nenavali, Kondi, Gokulwada	KGM – 231, 298
13	<i>Amorphophallus commutatus</i> Engler	Pali, Gokulwada, Kondi	KGM – 108
14	<i>Amorphophallus campanulatus</i> (Roxb.) Blume ex Decne.	Pali	KGM – 135
15	<i>Ampelocissus latifolia</i> (Roxb.) Planch	Pali, Nenavali, Kondi, Gokulwada	KGM – 191, 255, 708
16	<i>Argemone mexicana</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 1, 48, 77, 207
17	<i>Asparagus racemosus</i> Willd.	Kondi, Gokulwada	KGM – 110, 289
18	<i>Azanza lampas</i> (Cav.) Alef.	Pali	KGM – 616
19	<i>Baliospermum solanifolium</i> (Burm.) Suresh	Pali, Nenavali, Kondi, Gokulwada	KGM – 71, 137, 172
20	<i>Bambusa bambos</i> (L.) Voss.	Pali, Nenavali, Kondi, Gokulwada	KGM – 37, 57

21	<i>Barleria prionitis</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 544
22	<i>Bauhinia racemosa</i> Lam.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – CV98
23	<i>Begonia crenata</i> Dryand	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 419, 662
24	<i>Bergia capensis</i> L.	<i>Pali, Kondi</i>	KGM – AQ36
25	<i>Biophytum sensitivum</i> (L.) DC.	<i>Gokulwada, Kondi</i>	KGM – 54, 63, 190
26	<i>Blumea lacera</i> (Burm.f.) DC.	<i>Pali</i>	KGM – 518, 786
27	<i>Butea monosperma</i> (Lam.) Taub.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 350, 499, 570
28	<i>Calotropis gigantea</i> (L.) R. Br.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 29, 84, 308
29	<i>Canavalia gladiata</i> (Jacq.) DC.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 634
30	<i>Canscora diffusa</i> (Vahl) R. Br. ex Roem. & Schult.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 451, 516
31	<i>Careya arborea</i> Roxb.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 156, 383
32	<i>Carissa carandas</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 546, 781
33	<i>Cassia fistula</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 217
34	<i>Catunaregum spinosa</i> (Thunb.) Tiruveng	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 582, 829
35	<i>Celosia argentea</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 107, 204
36	<i>Cheilocostus speciosus</i> (J. Konig) C. Specht	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 792
37	<i>Chromolaena odorata</i> (L.) R. M. Kind & H. Rob.	<i>Pali, Kondi, Gokulwada</i>	KGM – 23
38	<i>Cissampelos pareira</i> L.	<i>Pali, Kondi</i>	KGM – 131
39	<i>Clematis hedysarifolia</i> DC.	<i>Pali</i>	KGM – 19
40	<i>Cleome viscosa</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 2
41	<i>Coix lacryma-jobi</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 440
42	<i>Combretum albidum</i> G. Don.	<i>Kondi</i>	KGM – 431
43	<i>Commelina benghalensis</i> L.	<i>Kondi, Pali</i>	KGM – 464
44	<i>Cordia dichotoma</i> Forst. F.	<i>Pali</i>	KGM – 693
45	<i>Crotalaria juncea</i> L.	<i>Pali</i>	KGM – CV24
46	<i>Cryptolepis buchananii</i> Roem. & Schult.	<i>Pali</i>	KGM – 496
47	<i>Cucumis leiospermus</i> (Wight & Arn.) Ghebret. & Thulin	<i>Pali</i>	KGM – 623
48	<i>Curculigo orchoides</i> Gaertn.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 475

49	<i>Curcuma pseudomontana</i> Graham	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 466
50	<i>Cuscuta reflexa</i> Roxb.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 596
51	<i>Cyathoclina purpurea</i> (Buch.-Ham. ex Don) Kuntze	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 180
52	<i>Cyclea peltata</i> (Lam.) Hook.f. & Thomson	<i>Kondi, Gokulwada</i>	KGM – 163
53	<i>Cynarospermum aspernum</i> (Nees) Vollesen	<i>Kondi, Pali</i>	KGM – 636
54	<i>Cyperus rotundus</i> L.	<i>Pali</i>	KGM – 81
55	<i>Dalbergia volubilis</i> Roxb.	<i>Kondi</i>	KGM – 252
56	<i>Datura inoxia</i> Mill.	<i>Kondi</i>	KGM – 500
57	<i>Dioscorea bulbifera</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 102, 225
58	<i>Diplocyclos palmatus</i> (L.) C. Jeffrey	<i>Gokulwada</i>	KGM – 3
59	<i>Ecbolium ligustrinum</i> (Vahl) Vollesen	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 485
60	<i>Eclipta prostrata</i> (L.) L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 28
61	<i>Elephantopus scaber</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 626
62	<i>Eleusine indica</i> (L.) Gaertn.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 448
63	<i>Embelia basaal</i> (Roem. & Schult). A. DC.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 783
64	<i>Ensete superbum</i> (Roxb.) Cheesm	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 442
65	<i>Eranthemum roseum</i> (Vahl) R. Br	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 261
66	<i>Erythrina variegata</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 189
67	<i>Ficus benghalensis</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 439
68	<i>Ficus hispida</i> L. f.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 258
69	<i>Ficus racemosa</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 473
70	<i>Ficus religiosa</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 761
71	<i>Gardenia resinifera</i> Roth	<i>Kondi</i>	KGM – 534
72	<i>Getonia floribunda</i> Roxb.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 170
73	<i>Glinus oppositifolia</i> (L.) Aug.-DC.	<i>Kondi, Gokulwada</i>	KGM – 521
74	<i>Gloriosa superba</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 65
75	<i>Gmelina arborea</i> Roxb.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 85

76	<i>Habenaria grandifloriformis</i> Blatt. & McCann	Gokulwada, Kondi	KGM – 323
77	<i>Heliotropium indicum</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 26
78	<i>Hemidesmus indicus</i> (L.) R. Br. ex Schult.	Pali, Nenavali, Kondi, Gokulwada	KGM – 495
79	<i>Holarrhena pubescens</i> Wall.	Pali, Nenavali, Kondi, Gokulwada	KGM – 279
80	<i>Hydrolea zeylanica</i> (L.) Vahl	Pali, Nenavali, Kondi, Gokulwada	KGM – 498
81	<i>Hygrophila auriculata</i> (Schumach.) Heine	Pali, Nenavali, Kondi, Gokulwada	KGM – 486
82	<i>Hygrophila serpyllum</i> T. Anders.	Pali, Nenavali, Kondi, Gokulwada	KGM – 734
83	<i>Hyptis suaveolens</i> (L.) Poir.	Pali, Nenavali, Kondi, Gokulwada	KGM – 487
84	<i>Impatiens balsamina</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 153
85	<i>Ipomoea carnea</i> Jacq.	Pali, Nenavali, Kondi, Gokulwada	KGM – 532
86	<i>Ipomoea hederifolia</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 59
87	<i>Ixora brachiata</i> Roxb.	Pali, Nenavali, Kondi, Gokulwada	KGM – 62
88	<i>Jasminum malabaricum</i> Wight	Pali, Nenavali, Kondi, Gokulwada	KGM – 577
89	<i>Lagerstroemia lanceolata</i> Wall.	Kondi, Gokulwada	KGM – 315
90	<i>Lagerstroemia speciosa</i> (L.) Pers.	Pali, Nenavali, Kondi, Gokulwada	KGM – 58
91	<i>Lantana camara</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 76
92	<i>Ludwigia octovalvis</i> (Jacq.) P. H. Raven	Pali, Nenavali, Kondi, Gokulwada	KGM – 21
93	<i>Macaranga peltata</i> (Roxb.) Muell. – Arg.	Pali, Nenavali, Kondi, Gokulwada	KGM – 755
94	<i>Madhuca longifolia</i> (L.) J. F. Macbr. var. <i>latifolia</i> (Roxb.) A. Chev.	Pali, Nenavali, Kondi, Gokulwada	KGM – 290
95	<i>Martynia annua</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 294
96	<i>Melastoma malabathricum</i> L.	Kondi, Pali	KGM – 638
97	<i>Meyna spinosa</i> Roxb. ex Link.	Pali	KGM – 553
98	<i>Mimosa pudica</i> L.	Pali	KGM – 640
99	<i>Mimusops elengi</i> L.	Pali, Nenavali, Kondi, Gokulwada	KGM – 558
100	<i>Mitragyna parvifolia</i> (Roxb.) Korth	Pali, Nenavali, Kondi, Gokulwada	KGM – 181
101	<i>Momordica dioica</i> Roxb. ex. Willd.	Pali, Nenavali, Kondi, Gokulwada	KGM – 399

102	<i>Moullava spicata</i> (Dalzell) Nicolson	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 177
103	<i>Mucuna pruriens</i> (L.) DC.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 664
104	<i>Mukia maderaspatana</i> (L.) Roem.	<i>Kondi, Gokulwada</i>	KGM – 477
105	<i>Neolamarckia cadamba</i> (Roxb.) Bosser	<i>Pali</i>	KGM – 587
106	<i>Nervilia infundibulifolia</i> Blatt. & McCann	<i>Pali, Kondi, Gokulwada</i>	KGM – 432
107	<i>Oldenlandia corymbosa</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 91
108	<i>Opuntia elatior</i> Mill.	<i>Pali</i>	KGM – 669
109	<i>Oroxylum indicum</i> (L.) Vent	<i>Nenavali, Kondi</i>	KGM – 389
110	<i>Orthosiphon thymiflorus</i> (Roth) Sleesen	<i>Nenavali</i>	KGM – 227
111	<i>Persicaria glabra</i> (Willd.) M. Gomez	<i>Nenavali</i>	KGM – 239
112	<i>Phyllanthus emblica</i> L.	<i>Kondi, Pali</i>	KGM – 729
113	<i>Physalis minima</i> L.	<i>Pali</i>	KGM – 468
114	<i>Pimpinella adscendens</i> Dalz.	<i>Kondi</i>	KGM – 701
115	<i>Pogostemon benghalensis</i> (Burm. f.) Kuntze	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 132
116	<i>Pogostemon deccanensis</i> (Panigrahi) Press	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 73
117	<i>Pogostemon purpurascens</i> Dalz.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 161
118	<i>Pongamia pinnata</i> (L.) Pierre	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 238
119	<i>Rauvolfia serpentina</i> (L.) Benth. ex. Kurz.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 517
120	<i>Rhamphicarpa longiflora</i> (Arn.) Benth.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 774
121	<i>Rhynchosystylis retusa</i> (L.) Blume	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 290
122	<i>Rothecea serrata</i> (L.) Steane & Mabb.	<i>Pali, Kondi, Gokulwada</i>	KGM – 230
123	<i>Saccharum spontaneum</i> L.	<i>Gokulwada</i>	KGM – 75
124	<i>Schleichera oleosa</i> (Lour.) Merr.	<i>Pali</i>	KGM – 186
125	<i>Semecarpus anacardium</i> L. f.	<i>Pali, Kondi</i>	KGM – 647
126	<i>Senecio bombayensis</i> Balakr.	<i>Pali, Kondi</i>	KGM – 590
127	<i>Senna tora</i> (L.) Roxb.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 87
128	<i>Sesamum orientale</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 70
129	<i>Sesbania sesban</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 219

130	<i>Sida cordifolia</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 117
131	<i>Solanum anguivi</i> Lam.	<i>Kondi</i>	KGM – 483
132	<i>Solanum virginianum</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 489
133	<i>Sphaeranthus indicus</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 686
134	<i>Sterculia urens</i> Roxb.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 682
135	<i>Syzygium cumini</i> (L.) Skeels	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 101
136	<i>Tamarindus indica</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 633
137	<i>Tectona grandis</i> L. f.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 387
138	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 632
139	<i>Terminalia bellerica</i> (Gaertn.) Roxb.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 610
140	<i>Terminalia chebula</i> Retz.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 96
141	<i>Terminalia crenulata</i> Roth	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 125
142	<i>Thunbergia fragrans</i> Roxb.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 175
143	<i>Trichodesma indicum</i> (L.) Lehm	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 595
144	<i>Tricholepis glaberrima</i> DC.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 559
145	<i>Trichosanthes cucumerina</i> L.	<i>Pali, Kondi</i>	KGM – 607
146	<i>Urena lobata</i> L.	<i>Kondi</i>	KGM – 216
147	<i>Vigna vexillata</i> (L.) A. Rich.	<i>Kondi, Gokulwada</i>	KGM – 251
148	<i>Vitex negundo</i> L.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 574
149	<i>Woodfordia fruticosa</i> (L.) Kurz.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 149
150	<i>Wrightia tinctoria</i> R. Br.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 749
151	<i>Xanthium strumarium</i> L.	<i>Kondi</i>	KGM – 716
152	<i>Zizyphus mauritiana</i> Lam.	<i>Pali, Nenavali, Kondi, Gokulwada</i>	KGM – 221

the help of standard floras and manuals. Correct identity of plant specimens has been confirmed by matching them with authenticated specimens at BLAT (Mumbai) and BSI (Pune). Nomenclature of all plants has been updated as per International Code of Nomenclature for algae, fungi and plants (McNeill *et al.* 2011). Prepared herbarium specimens are incorporated in Blatter Herbarium.

OBSERVATIONS AND RESULTS

In the present investigation 4 new sacred groves have been reported for the first time from the Maharashtra State. A list of sacred grove is given in table no. 1. A list of plant species recorded from all the 4 sacred groves is given in table no. 2.

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