

FLORISTIC WORK OF PROF. A. R. BRAGANZA IN KARNATAKA AND MAHARASHTRA STATES, INDIA

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Abstract

The collections of Herbarium of Forest Botanist, Bombay State, Dharwar, (HFBBSD) work was carried out during 1950's and 1960's of Prof. A. R. Braganza. He served as Professor of Plant Science in Agricultural as well as Karnatak College in Dharwad, Karnataka. In this period he has been traveled Western Ghats of North Karnataka extensively and part of Southern Maharashtra. Out of his collections, he has donated more than 500 herbarium specimens to Karnatak College, Dharwad. During digitization and rearrangement of Herbaria, many of them were spoiled in his collections and only 162 herbaria were found. They are good in condition and perfect identification, poisoning, pasting and labeling. Even though they are more than 60 years old, they look like a fresh herbarium of one or two years old. The list comprises about 54 families, 127 genera and 162 species are from different locations. These herbariums were scanned and arranged according to the family, genera and species.

Key words: A. R. Braganza, Herbarium, Karnataka, Maharashtra.

Introduction

The science of taxonomy provides basic information regarding identification, close relatives, classification, etc. of collected plants (Sivarajan, 1991). The botanical survey involves collection of plants, detailed taxonomical studies, preparation of herbarium specimens for records and further studies (Jasrai *et al.*, 2000). A herbarium is the store house of collection of pressed and dried specimens are arranged in the sequence of an accepted classification for further scientific study (Naik, 1992). Herbarium specimen is accompanied by field note or field records such as those of the places of collections, habitat, colour of the flowers etc. and it is valued as good as original living plant (Venu, 2002).

Datar and Ghate (2009) described the need for online herbarium in India. Digitalization of herbaria is being initiated in India by Agarkar Herbarium (AHMA), Sasyabharthi, Sampada etc. (Rawat, 2009). Digitilization of herbaria certainly has many limitations and delimitations that have already been reviewed by several workers (Sanjappa *et al.*, 2005; Jain, 2008). The present paper is dealing with the herbarium specimens of Prof. A. R. Braganza, Forest Botanist, which were digitized and arranged according to the family, genera and species.

Material and Methods

During 1950 and 1960, plant exploration was carried out by Prof. A. R. Braganza in the Western Ghat of North Karnataka and in few places in Maharashtra. The places are Anshi Ghat, Bank of stream of Gondalli Kan, Bundel Ghat, Dandeli, Dasnalli, Kadra, Devimane Ghat, Dharwar, Gangawati bank (Hosakambi), Gersappe, Gersappe (deciduous), Gersappe (Galmava evergreen), Gunji (Londa), Hosakambi (kondalli kan), Hosakambi kan, Jog, Kadra, Kadra (Anshi ghat), Karwar, Karwar (Mangrove), Khandala, Khandala (Valley), Kondalli village (Hosakambi), Kulgi, Kunt Kuni Kan, Londa, Londa (Banks of Pandri nadi), Mahabaleshwar, Malemane, Matheran, Mavingundi, Mundurli, Murdi kan (kadra), Ragi hosalli, Salgeri (Kalinadi bank), Sirsi, Sirsi (Ekkambi), Sulgeri (Kali nadi bank), Tukkad bail, Virjejan (Kadra), Yellapur, Yellapur (Sahasrallinga kan), Yellapur (Sahasrahalli), Yellapur (Telgeri) and Yellapur (Tukkad bail kan) from where plant specimens were collected by him.

Identification of these specimens was cross checked and nomenclature is updated with relevant floras of adjacent areas (Hooker, 1872-97; Cooke, 1903-08; Talbot, 1909 and 1911; Saldanha, 1984 and 1996; Sharma *et al.* 1984. All these herbarium were scanned (Jasrai *et al.*, 2000) and arranged according to the names of family and species, with the alphabetical sequence of generic names, followed by place of collection, date of collections, collector number, HFBBSD/HKCD no.

The place of collection and HKCD no. marked with an (?) indicate that they have not been recognized from herbarium label due to damage either by insects or by the pests.

Result

A total 162 species belonging to 127 genera under 54 families were enumerated (Table 1). Out of total species, *Vernonia indica* Clarke (Asteraceae) is endemic to India (Hajra *et al.*, 1995) and *Erinocarpus nimmonii* J. Graham (Tiliaceae) is endemic to Western Ghat (Nayar & Sastry, 1990).

Discussion

The families with the largest numbers of species were in Euphorbiaceae and Rubiaceae (13 species to each), Acanthaceae (11 species), Tiliaceae (7), Lamiaceae and Melastomaceae (6 species to each), Lauraceae, Oleaceae, Rutaceae and Verbenaceae (5 species to each). These top ten families contribute the total of 76 species with the sharing of 46 %.

There are six families which represent 4 species in each and these are Apocynaceae, Myrtaceae, Moraceae, Mimosaceae, Loranthaceae and Rhamnaceae. Nine families as Flacourtiaceae, Boraginaceae, Dipterocarpaceae, Ebenaceae, Fabaceae, Sapindaceae, Sterculiaceae, Lythraceae and Vitaceae represent 3 species each. Seven families represent 2 species to each, these are Anacardiaceae, Celastraceae, Clusiaceae, Combretaceae, Dioscoreaceae, Sapotaceae and Solanaceae. There are again the representation of having 22 families represent only one species to each and these are Ancistrocladaceae, Asteraceae, Bignoniaceae, Convolvulaceae, Elaeagnaceae, Lecythidaceae, Leeaceae, Loganiaceae, Magnoliaceae, Malvaceae, Meliaceae, Menispermaceae, Myristicaceae, Myrsinaceae, Ochnaceae, Onagraceae, Piperaceae, Polygonaceae, Scrophulariaceae, Sonneratiaceae, Symplocaceae and Thymeliaceae.

Conclusion

Computerization and digitization of herbaria certainly have many advantages there are but also some disadvantages and demerits. The advantages are the preservation for long time in much smaller space; facilitate their storage at more than one place. Protection of specimens from avoidable handling. Digitization will preserve the external appearance as intact for a long period and, the data in the digitized form are almost indestructible.

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Table 1 Enumeration of plant species collected by Prof. A. R. Braganza.

Names of the species plants and their families	Place of Collection	Date of Collection	*Coll. no.	*HFBBS/ *HKCD no.
ACANTHACEAE				
<i>Acanthus ilicifolius</i> L.	Karwar	25.11.1951	110	520 / 1156
<i>Asystasia gangetica</i> (L.) Anders.	Kunt Kuni Kan	25.11.1950	782	530 / 1175
<i>Barleria courtallica</i> Nees	Yellapur	13.03.1950	536	529 / 1212
<i>Barleria strigosa</i> var. <i>polystachys</i> Clarke	Dasnalli, Kadra	08.12.1950	875	528 / 1210
<i>Carvia callosa</i> (Nees) Bremek.	Kadra	04.12.1950	837	522 / 1183
	Yellapur	07.11.1950	738	523 / 1182
<i>Haplanthodes nilgherryensis</i> (Wight) Majumdar	Mundurli	18.01.1950	587	521 / 1177
	Mundurli	18.01.1950	582	527 / 1165
<i>Haplanthodes verticillatus</i> (Roxb.) Majumdar		00.00.1949	246	526 / 1166
<i>Justicia andersonii</i> Raman	Sirsi	11.12.1949	565	531 / 1215
	Sirsi	22.03.1950	592	532 / 1216
<i>Rostellularia japonica</i> (Thunb.) Ellins	Yellapur	15.11.1950	703	533 / 1214
<i>Thelepaepale ixiocephala</i> (Benth.) Bremek.	Londa	15.01.1951	923	524 / 1169
	Matheran	29.05.1950	231	525 / 1184
<i>Thunbergia laevis</i> Nees	Virjekan (Kadra)	05.12.1950	859	518 / 1160
ANACARDIACEAE				
<i>Anacardium occidentale</i> L.	Yellapur	15.03.1950	401	436/617
<i>Holigarna ferruginea</i> Marchand	Sirsi		541	437/623
ANCISTROCLADACEAE				
<i>Ancistrocladus heyneanus</i> Wall. ex Graham	Devimane ghat	21.08.1950	338	400/?
APOCYNACEAE				
<i>Anodendron manubriatum</i> Merr.		05.06.1950	282	506/1088
<i>Beaumontia jerdoneana</i> Wight	Yellapur (Telgeri)	21.11.1950	754	505/1063
<i>Carissa carandas</i> L.	Londa	15.01.1951	907	502/1073
<i>Tabernaemontana alternifolia</i> (Roxb.) Nicols.	Yellapur	09.03.1950	436	504/1072
ASTERACEAE				
<i>Vernonia indica</i> Clarke	Londa	11.11.1949	515	489/1470
BIGNONIACEAE				
<i>Stereospermum chelonoides</i> DC.	Sirsi	22.03.1950	593	517/1268
BORAGINACEAE				
<i>Cynoglossum zeylanicum</i> Vahl (Hornem.) Thunb. ex Lehm.	Khandala	05.06.1950	280	571/1137
<i>Ehretia laevis</i> Roxb.	Anshi ghat	04.12.1950	838	509/?
<i>Heliotropium ovalifolium</i> Forsk.	Khandala	05.06.1950	315	570/1147
CELASTRACEAE				
<i>Celastrus paniculatus</i> Willd.	Mavingundi	17.04.1950	083	421/638
<i>Maytenus rothiana</i> (Walp.) Lobreau	Khandala	06.06.1950	270	422/652
CLUSIACEAE				
<i>Garcinia gummi-gatta</i> (L.) Robson	Anshi ghat	04.01.1950	847	395/254

Contd...

Names of the species plants and their families	Place of Collection	Date of Collection	*Coll. no.	*HFBSD/ *HKCD no.
<i>Mesua ferrea</i> L.	Yellapur ?	13.03.1950	435	396/259
COMBRETACEAE				
<i>Terminalia arjuna</i> Clarke	Salgeri (Kalinadi bank)	29.04.1950	127	450/989
<i>Terminalia chebula</i> Retz.	Sirsi	20.03.1950	575	448/991
	Mahabaleshwar	23.05.1950	194	449/992
CONVOLVULACEAE				
<i>Argyreia hookeri</i> Clarke	Mandurli	14.01.1950	526	572/2076
DIOSCOREACEAE				
<i>Dioscorea oppositifolia</i> L.	Khandala	07.06.1950	309	601/2123
<i>Dioscorea pentaphylla</i> L.	Yellapur	20.11.1950	774	600/2122
DIPTEROCARPACEAE				
<i>Dipterocarpus indicus</i> Bedd.	Jog	17.04.1950	327	397/280
<i>Hopea ponga</i> (Dennst.) Mobberley	Malemane	10.04.1950	009	398/283
<i>Vateria indica</i> L.	Yellapur	13.03.1950	434	399/279
EBENACEAE				
<i>Diospyros ferrea</i> (Willd.) Bakh.	Jog	16.04.1950	057	494/1040
<i>Diospyros</i> sp.?	Sirsi	10.12.1949	598	496/?
<i>Diospyros sylvatica</i> Roxb.	Khandala (Valley)	07.06.1950	308	495/1037
ELAEAGNACEAE				
<i>Elaeagnus latifolia</i> L.	Yellapur	25.11.1949	558	560/?
	Bundel ghat	17.12.1949	508	559/?
EUPHORBIACEAE				
<i>Agrostistachys indica</i> Dalz.	Bank of stream of Gondalli kan	28.11.1950	822	584/1801
<i>Antidesma menasu</i> Muell.-Arg.	Mavingundi	14.04.1950	027	580/1796
<i>Antidesma menasu</i> var. <i>linerifolia</i> Hook.f.	Gersappe ?	11.03.1950	023	581/1795
<i>Aporosa lindleyana</i> (Wight) Baill.	Londa	15.01.1951	913	583/1817
	Londa	15.01.1951	914	582/1833
<i>Baliospermum montanum</i> (Willd.) Muell.-Arg.	Kadra	09.12.1950	876	585/1803
	Mandurli	17.01.1950	584	586/1802
<i>Bridelia hamiltonia</i> Wall. ex Hook.f.	Kondalli kan (Hosakambi)	28.11.1950	825	576/1830
<i>Bridelia retusa</i> (L.) Spreng.	Matheran	27.05.1950	237	575/1826
<i>Cleidion spiciflorum</i> (N. Burman) Merr.	Yellapur (Tukkadbail Kan)	12.03.1950	538	588/?
<i>Macaranga peltata</i> (Roxb.) Muell.-Arg.	Yellapur (Sahasrahalli Kan)	10.03.1950	405	589/11829
	Matheran	02.06.1950	254	590/1825
<i>Mallotus philippinensis</i> (Lam.) Muell.-Arg.	Sirsi	12.12.1950	556	587/1798
<i>Phyllanthus emblica</i> L.	Sirsi	18.03.1950	580	579/1763
<i>Securinea leucopyrus</i> (Willd.) Muell.-Arg.	Khandala	07.06.1950	313	578/1789
<i>Tragia involucrata</i> L.	Hosakambi kan	29.11.1950	812	592/1805
FABACEAE				
<i>Crotalaria retusa</i> L.	Mahabaleshwar	21.05.1950	203	438/601
<i>Desmodium gangeticum</i> DC.	Hosakambi kan	29.11.1950	811	440/572
<i>Indigofera</i> sp.	Yellapur	15.11.1950	729	439/570

Contd...

Names of the species plants and their families	Place of Collection	Date of Collection	*Coll. no.	*HFBBSD/ *HKCD no.
FLACOURTIACEAE				
<i>Flacourtia indica</i> (Burm.f) Merr.	Mahabaleshwar	18.05.1950	159	393/211
<i>Flacourtia montana</i> Grah.	Yellapur Sahasrahalli	17.11.1950	715	392/212
<i>Hydnocarpus pentandra</i> (Buch.-Ham.) Oken	Tukkad bail	12.03.1950	616	394/205
LAMIACEAE				
<i>Colebrookea oppositifolia</i> Sm.	Mahabaleshwar	19.05.1950	173	548/?
	Kulgi	09.01.1950	480	549/1250
<i>Leucas ciliata</i> Benth.	Yellapur	21.11.1949	546	546/1254
<i>Leucas indica</i> (L.) R. Br. ex Vatke	Khandala	07.06.1950	296	544/1259
<i>Leucas mollissima</i> Wall. ex Benth.	Mundurli	17.01.1950	586	545/1253
<i>Leucas stelligera</i> Wall. ex Benth.	Londa	17.11.1951	929	547/1261
<i>Pogostemon paniculatus</i> (Willd.) Benth.	Kadra	08.12.1950	865	543/1257
LAURACEAE				
<i>Actinodaphne angustifolia</i> (Bl.) Nees	Mahabaleshwar	23.05.1950	196	555/1637
<i>Cinnamomum verum</i> Presl.	Bundel ghat	17.12.1949	497	553/1677
<i>Litsea floribunda</i> ?	Mavingunde	17.04.1950	074	556/1671
<i>Neolitsea foliosa</i> (Nees) Gamble var. <i>caesia</i> (Meissner) Gamble	Hosakambi (Kondalli Kan)	28.11.1950	814	557/1673
<i>Persea macrantha</i> (Nees) Kosterm.	Sirsi (Ekkambi)	11.12.1949	553	554/1636
LECYTHIDACEAE				
<i>Barringtonia acutangula</i> Gaertn.	Gangawati bank (Hosakambi)	29.11.1950	821	459/960
LEEACEAE				
<i>Leea indica</i> (N. Burman) Merr.	Kulgi	09.01.1950	470	431/736
LOGANIACEAE				
<i>Strychnos nux-vomica</i> L.	Sirsi ?	20.03.1950	581	508/1295
LORANTHACEAE				
<i>Dendrophthoe falcata</i> (L.f.) Etting	Londa	17.01.1951	905	561/1685
<i>Dendrophthoe gibbosa</i> (Talbot) Razi	Londa	22.05.1950	209	563/1698
<i>Macrosolen capitellatus</i> (Wight and Arn.) Danser	Mahabaleshwar	13.01.1950	473	564/1684
<i>Viscum nepalense</i> Spreng.	Kulgi	16.01.1951	906	562/1699
<i>Ammania rotundifolia</i> Buch.-Ham.	Yellapur	17.11.1956	723	468/1002
<i>Lagerstroemia microcarpa</i> Wight	Kadra	10.12.1950	880	470/?
<i>Lagerstroemia parviflora</i> Roxb.	Anshi ghat	04.12.1950	840	469/1009
MAGNOLIACEAE				
<i>Michelia champaca</i> L.	Sirsi	20.03.195	072	389/?
MALVACEAE				
<i>Kydia calycina</i> Roxb.	Kulgi	09.01.1950	607	401/292
MELASTOMATACEAE				
<i>Melastoma malabathricum</i> L.	Yellapur (Adtibail Kan)	15.02.1950	531	461/?
<i>Memecylon malabaricum</i> (L.) Cogn.	Mavingundi	14.04.1950	035	463/?
<i>Memecylon talbotianum</i> Brandis	Murdi kan (Kadra)	08.12.1950	866	466/?
<i>Memecylon terminale</i> Dalz.	Devimane ghat	17.12.1949	462	467/?
<i>Memecylon umbellatum</i> N. Burman	Mahabaleshwar	17.05.1950	161	465/?

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Names of the species plants and their families	Place of Collection	Date of Collection	*Coll. no.	*HFBBSD/ *HKCD no.
	Londa	17.01.1951	904	464/?
<i>Memecylon wightii</i> Thw.	Mavingundi	17.04.1950	069	462/?
MELIACEAE				
<i>Trichilia connaroides</i> (Wight & Arn.) Bentevelzen	Yellapur	17.11.1950	717	420/664
	Yellapur (Tukkadbail)	12.03.1950	444	419/668
MENISPERMACEAE				
<i>Diploclisia glaucescens</i> (Bl.) Diels	Matheran	04.05.1950	242	390/130
MIMOSACEAE				
<i>Acacia catechu</i> (Roxb.) Willd.	Kondalli village (Hosakambi)	28.11.1950	826	444/688
<i>Archidendron monadelphum</i> (Roxb.) Nielsen	Yellapur (Adti bail kan)	15.03.1950	408	443/689
<i>Entada rheedi</i> Spreng.	Yellapur (Tukkadbail Kan)	12.03.1950	489	678/?
<i>Xylia xylocarpa</i> (Roxb.) Willd.	Yellapur ?	13.03.1950	440	441/687
MORACEAE				
<i>Artocarpus hirsuta</i> Lam.	Yellapur	15.03.1950	533	599/1717
<i>Ficus arnottiana</i> Miq.	Matheran	30.05.1950	244	594/1711
<i>Ficus exasperata</i> Vahl	Khandala	05.06.1950	279	597/1702
<i>Ficus virens</i> Ait.	Yellapur	17.11.1950	716	596/1720
MYRISTICACEAE				
<i>Knema attenuata</i> (Hook.f & Thoms.) Warburg	Yellapur	07.12.1949	608	552/1624
MYRSINACEAE				
<i>Aegiceras corniculatum</i> (L.) Blanco	Karwar (Mangrove)	25.04.1950	119	490/?
MYRTACEAE				
<i>Syzygium caryophyllatum</i> (L.) Alst.	Mavingundi	17.04.1950	080	453/958
<i>Syzygium cumini</i> (L.) Skeels	Yellapur (Adti bail)	15.03.1951	614	456/?
<i>Syzygium gardneri</i> Thwaites	Devimane ghat	15.12.1950	494	454/959
<i>Syzygium heyneanum</i> (Duthie) Wall. ex Gamble	Sulgeri (Kalinadi bank)	29.04.1950	130	457/961
OCHNACEAE				
<i>Ochna obtusa</i> DC.	Kadra (Anshi ghat)	01.05.1950	140	418/?
ONAGRACEAE				
<i>Ludwigia octovalvis</i> (Jacq.) Raven	Londa (Banks of Pandrinadi)	10.11.1949	512	472/?
OLEACEAE				
<i>Chionanthus mala-elegi</i> (Dennst.) Green	Sirsi (Kalgar kan)	18.03.1950	567	500/1288
<i>Jasminum malabaricum</i> Wight	Sirsi (Kalgar kan)	18.03.1950	568	497/1273
	Mahabaleshwar	18.05.1950	164	498/1285
<i>Jasminum rootlerianum</i> Wall.	Yellapur	12.03.1950	532	499/1290
<i>Linociera malabarica</i> Wall.	Sirsi (Kalgar kan)	18.03.1950	587	500/1288
<i>Olea dioica</i> Roxb.	Gunji (Londa)	17.01.1951	910	501/1289
PIPERACEAE				
<i>Piper nigrum</i> L.	Yellapur	24.11.1949	516	551/1616
POLYGONACEAE				

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Names of the species plants and their families	Place of Collection	Date of Collection	*Coll. no.	*HFBBSD/ *HKCD no.
<i>Polygonum chinense</i> Meissn.	Mandurli	14.01.1950	524	550/1578
RHAMNACEAE				
<i>Scutia myrtina</i> (N. Burman) Kurz	Mahabaleshwar	18.05.1950	181	426/534
<i>Ventilago bombaiensis</i> Dalz.	Mavingundi	17.04.1950	085	423/537
<i>Ziziphus mauritiana</i> Lam.	Khandla	07.06.1950	303	424/536
<i>Ziziphus oenoplia</i> (L.) Miller	Londa	11.11.1949	452	425/555
RUBIACEAE				
<i>Canthium dicoccum</i> (Gaertn.) Teijsm.	Yellapur	17.11.1950	?	477/785
<i>Canthium parviflora</i> Lam.	Gersappe (deciduous)	12.04.1950	020	478/783
<i>Catunaregam spinosa</i> (Thunb.) Tirveng.	Gersappe (deciduous)	12.04.1950	017	476/806
<i>Ixora brachiata</i> Roxb.	Yellapur (Telgeri kan)	09.03.1950	431	483/775
	Matheran	01.06.1950	223	484/7554
	(Madri terrace)			
<i>Ixora nigricans</i> Br.	Yellapur ?	10.03.1950	430	480/779
	Yellapur	21.11.1950	761	482/782
<i>Ixora pavetta</i> Anders.	Ramanpali	30.11.1949	421	485/755
<i>Ixora polyantha</i> Wight	Gersappe	08.04.1950	008	479/752
<i>Mitragyna parviflora</i> Korth.	Dasnalli kadra	01.05.1950	133	474/756
<i>Mussaenda glabrata</i> (Hook.f.) Hutch.	Bundel ghat	15.12.1950	495	475/759
<i>Pavetta crassicaulis</i> Bremek.	Mahabaleshwar	19.05.1950	177	486/757
<i>Psychotria thwaitessi</i> Hook.f.	Mavingundi	14.04.1950	047	481/786
<i>Spermadictyon suaveolens</i> Roxb.	Londa	12.11.1949	600	488/815
<i>Wendlandia thyrsoides</i> (Roem. & Schultes) Steudel	Londa	17.01.1951	908	473/780
RUTACEAE				
<i>Atlantia racemosa</i> Wight and Arn.	Bundel ghat	17.12.1950	501	416/381
	Gersappe	11.04.1950	021	417/407
	(Galmava evergreen)			
<i>Euodia lunu-ankenda</i> (Gaertn.) Merr.	Mahabaleshwar	18.05.1950	168	413/389
<i>Glycosmis pentaphylla</i> Corr.	Yellapur	15.11.1950	701	412/382
	(Sahasrahalli)			
<i>Luvunga sarmentosa</i> (Blume) Kurz	Jog	16.04.1950	054	415/391
<i>Paramignya monophylla</i> Wight	Yellapur	28.11.1949	518	414/390
SAPINDACEAE				
<i>Allophylus cobbe</i> (L.) Raeusch.	Mahabaleshwar	18.05.1950	179	432/492
<i>Harpullia arborea</i> (Blanco) Radlk.	Sirsi (Ekkambi)	?	589	435/501
<i>Sapindus laurifolius</i> Vahl	Londa	10.11.1949	595	434/500
SAPOTACEAE				
<i>Madhuca malaharica</i> ?	Kunt kani kan	25.11.1950	785	492/549
<i>Xantolis tomentosa</i> (Roxb.) Raf.	Anshi ghat	04.12.1950	843	491/848
SCROPHULARIACEAE				
<i>Bacopa moneri</i> ?	Khandala	06.06.1950	294	516/899
SOLANACEAE				
<i>Solanum giganteum</i> Jacq.	Kulgi	09.01.1950	476	574/873
	Kulgi	09.01.1950	476	543/?
<i>Solanum dulcamara</i> L.	Dharwar	18.11.1949	428	515/874

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Names of the species plants and their families	Place of Collection	Date of Collection	*Coll. no.	*HFBBSD/ *HKCD no.
SONNERATIACEAE				
<i>Sonneratia caseolaris</i> (L.) Engl.	Saverpai ?	26.04.1950	122	471/1013
STERCULIACEAE				
<i>Helicteres isora</i> L.	Kondalli kan (Hoskambi)	28.11.1950	817	403/333
<i>Pterospermum reticulatum</i> Wight & Arn.	Devimane ghat	21.04.1950	093	404/336
<i>Sterculia guttata</i> Roxb.	Ragi hosalli	15.12.1949	504	402/332
SYMPLOCACEAE				
<i>Symplocos racemosa</i> Roxb.	Mavingunde	17.04.1950	064	496/1922
THYMELEACEAE				
<i>Gnidia glauca</i> (Fresen.) Gilg	Mahabaleshwar	18.05.1950	183	558/1648
TILIACEAE				
<i>Corchorus aestuans</i> L.	Kadra	09.12.1950	863	411/310
<i>Corchorus capsularis</i> L.	Dandeli	08.12.1950	864	410/308
<i>Erinocarpus nimmonii</i> J. Graham	Mandurli	17.01.1950	585	408/307
<i>Grewia glabra</i> Blume	Anshi ghat	04.12.1950	841	406/316
<i>Grewia microcos</i> L.	Anshi ghat	04.12.1950	842	407/311
<i>Grewia tiliifolia</i> Vahl	Sirsi	22.03.1950	588	405/309
<i>Triumfetta rhomboidea</i> N. Jacq.	Yellapur	17.11.1950	719	409/305
VERBENACEAE				
<i>Callicarpa tomentosa</i> (L.) Murr.	Jog	16.04.1950	058	535/937
	Londa	12.11.1949	601	534/938
<i>Clerodendrum viscosum</i> Vent.	Londa	11.11.1949	457	537/940
<i>Premna coriacea</i> Clarke	Sirsi	12.03.1950	517	536/941
<i>Vitex altissima</i> L.f	Gersappe kan	08.04.1950	002	538/?
<i>Vitex leucoxydon</i> L.f.	Sulgeri	29.04.1950	132	540/942
	(Kali nadi bank) Khandala	05.06.1950	305	539/939
VITACEAE				
<i>Cissus elongata</i> Roxb.	Kondalli kan (Hosakambi)	28.11.1950	823	429/737
	Mahabaleshwar	22.05.1950	200	430/733
<i>Cissus javanica</i> DC.	Yellapur	17.11.1950	726	427/?
<i>Cissus repanda</i> Vahl	Virjekan (Kadra)	05.12.1950	858	428/?

* Coll. no. - Collector number; HFBBSD- Herbarium of Forest Botanist, Bombay State, Dharwar; HKCD- Herbarium of Botany Department, Karnatak College, Dharwar