

THE FLORA OF SAKARPATHAR AND AMBAVANE REGION OF POONA DISTRICT—I

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ABSTRACT

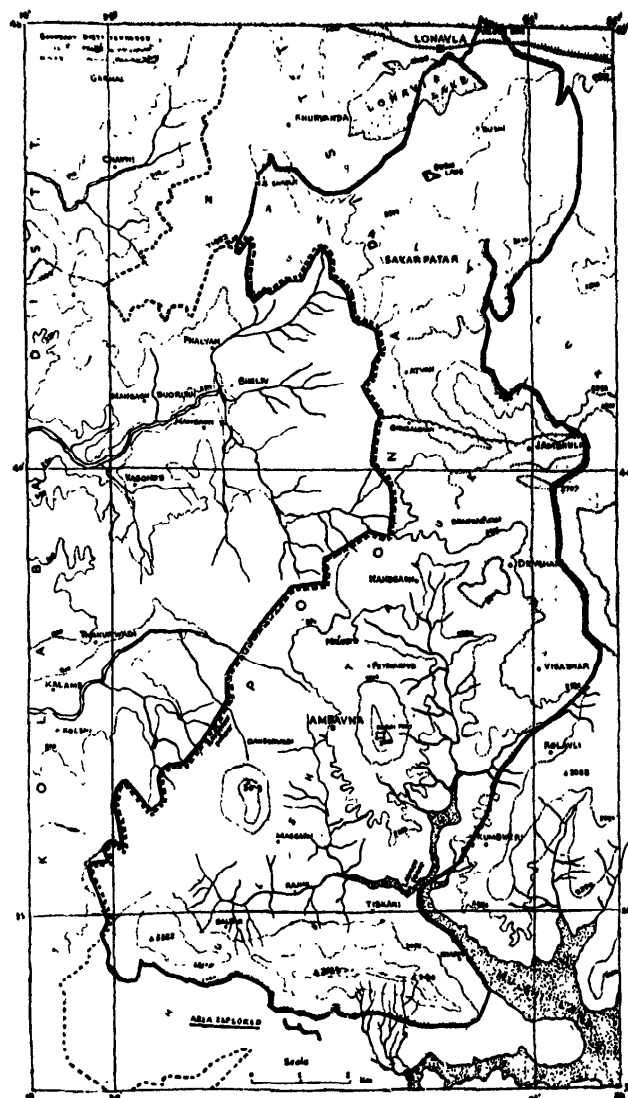
This paper presents a floristic account of the Sakarpathar and Ambavane region of Poona District, based on exploration work carried out in this area during the years 1962-65 (3 years) as a research scholar working at the Western Circle of the Botanical Survey of India, Poona. In all about 850 taxa of plants were collected. The specimens have been deposited in the Western Circle Herbarium of the Botanical Survey of India, Poona (BSI).

INTRODUCTION

The area lies west of Poona situated at the western edge of the Deccan Plateau in the Mawal and Mulshi Taluks of Poona District. On the western side adjoining the region is the Kolaba District. Sakarpathar is a plateau portion (elevation 900 m) and is 5 km from Lonavla, connected by means of a metal road. Ambavane is a small village (950 m) with a population of about 500, and is situated 18 km from Sakarpathar (23 km from Lonavla). From Sakarpathar a cart track runs almost through the mountainous plateau region till Ambavane, this can be used only during the winter and summer months; during and after rains, the track gets washed away and, hence, one has to approach Ambavane by foot only. This has necessitated the storage of blotters and other drying materials well in advance for use during the rainy months. Ambavane is also reached from Mulshi by means of a launch when the water level is not above normal, which is usually used from October till the end of May. Thus, it may take about 5 hours from Lonavla and 3 hours from Mulshi to reach Ambavane. The whole region is a mountainous plateau with hills reaching up to 1150 m. On the western edge facing Kolaba District this plateau portion is cut deeply into fine ravines and grooves. Scattered here and there occur small villages with a population ranging from 50 to 200, at such places wherever cultivation is possible.

CLIMATE

Owing to its position, the area is exposed to the full blast of the monsoon, from about the beginning of June till the end of October. Frequently, the rains are coupled with high winds. From



Map of Sakarpathar and Ambavane Region

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about the middle of October till the end of May, there may occur a sporadic shower rarely. Generally, December-February can be taken as colder months, while March-May are the hotter months of the year.

GEOLOGY AND SOIL

The region consists of rocks which are of a very dark basalt type. In forest there is always plenty of humus on the ground, where the vegetation is dense. But in places, where the forest is cut down, this humus is washed away by rains. The silt brought down by the rains from higher ground is retained by some natural barriers resulting in the formation of cultivated fields. The depth of soil in such fields is low, hardly a meter deep, but this is sufficient for growing rice, the major crop of this region.

EXPLORATION WORK

The region had been visited occasionally by earlier workers like Gammie, Ryan, Chibber, Garade, Woodrow and others during the years 1890-1910, whose collections are preserved in the Cooke's and Talbot's Herbaria at Poona. But no published data are available on the flora of this area. During the present study, the region has been explored at periodic intervals, covering all the seasons. Since the vegetation in and around Ambavane is comparatively dense and well preserved without much biotic interference, this formed the nucleus for the exploration work. There is a rest house of the forest department in this village. Occasionally tents have been also used, but this is only during the winter or summer months. For covering Sakarpathar region and surrounding areas, Lonavla formed the base camp, from where the region is approached by foot or by cycles.

ENUMERATION

The plants are listed according to Bentham & Hooker's system of classification. Taxa marked with an asterisk indicate that the plants are not reported for Bombay by T. Cooke. The collection numbers cited without any collector's name by the side indicate the collections made by the author himself.

POLYPETALAE

RANUNCULACEAE

Clematis hedysarifolia DC.

Common. Flowers: Oct.-Dec. Fruits: Nov.-Mar. Sakarpathar, 68337, Talbot 4782; Maluste,

93247; Korafort, 93299 & 101078; Ambavane, Gammie 15990; Bushi, Ryan s.n. on 18.11.1905.

DILLENIACEAE

Dillenia pentagyna Roxb.

Fairly common. Flowers: Mar.-May. Fruits: Apr.-June. Pandongar, 93142; Nisthiga, 96195; Bushi, 97803; Sakarpathar, Rolla 85239.

MAGNOLIACEAE

Michelia champaca Linn.

Planted in villages and temples for its flowers. Ambavane, 97696.

ANNONACEAE

Meiogyne pannosa (Dalz.) Sincl.

This plant has been observed only in Bushi Forest, 101149 & Gammie s.n. on 9.11.1907. Flowers: Nov.-Dec.

Miliusa tomentosa (Roxb.) Sincl.

This plant has been observed only in Kate Pani Forest, 100979. Fruits: Apr.-May.

Sageraea laurifolia (Grah.) Blatt.

Frequent on ravine slopes. Flowers: Nov.-Dec. Fruits: Dec.-Apr. Nisthiga, 96006; Maluste, 101096; Sakarpathar, 101168.

MENISPERMACEAE

Cissampelos pareira Linn.

A rare plant in the area. Flowers: Oct.-Nov. Maluste, 101099.

Cyclea burmanni (DC.) Hk. f. & Th.

Fairly common in open area and along wayside. Flowers and fruits: All the year. Ambavane, 93430, 95710 & 96169; Nandgaon, 93267; Tiskari, 97788; Bushi, Ryan 157; Sakarpathar, Chibber 118.

Diploclisia glaucescens (Bl.) Diels

Common and abundant all over. Flowers: Dec.-Apr. Fruits: Apr.-Sept. Wagjoi, 68391; Korafort, 93313; Ghusalgaon, 97825; Devgarh, 99365.

Stephania japonica (Thunb.) Miers.

Frequent in open area. Flowers: June-Sept. Fruits: July-Dec. Sakarpathar, 68387; Ghusalgaon, 99282; Bushi, 98696.

Tinospora cordifolia (Willd.) Miers.

Frequent along water stream. Flowers: Jan.-Mar. Fruits: Apr.-June. Kotri, 96067; Kate Pani, 97853.

PAPAVERACEAE

Argemone mexicana Linn.

Common in waste place and fallowed field. Flowers and fruits: All the year. Sakarpathar, Rolla 77734; Petshapur, 93345; Ambavane, 95734; Korafort, 95841.

BRASSICACEAE

Brassica sp.

Often cultivated (95775).

Cardamine trichocarpa Hochst. ex Rich.

Common in forest undergrowth and on old walls. Flowers and fruits: July-Oct. Korai fort, 99237; Atvan, 99269; Bushi, 98658.

Rorippa indica (Linn.) Hiern

Common in moist place, edges of tanks and pools and in harvested fields. Flowers: Nov.-Apr. Korai fort, 93323, 93329, 99326; Pet 95777; Sakarpathar, *Gammie* 15921.

CLEOMACEAE

Cleome chelidonii Linn. f.

A rare plant. Flowers and fruits: June-July. Bushi, 97989.

C. gynandra Linn.

A rare plant. Flowers and fruits: Sept.-Oct. Bushi, 100952.

CAPPARACEAE

Capparis moonii Wight

Rare in dense forest. Flowers: Feb.-Apr. Fruits: Apr.-June. Sakarpathar, 96132, 97816.

C. spinosa Linn.

A rare plant on exposed slopes along streams. Flowers: Nov.-Apr. Saltar, 97630; Sakarpathar, 101163.

C. zeylanica Linn.

Rare. Flowers: Mar.-Apr. Ambavane, 97682.

Crateva nurvala Buch.-Ham.

Planted in villages for its flowers and fruits. Flowers: Mar.-Apr. Pet, 96070.

FLACOURTIACEAE

Flacourtia indica (Burm. f.) Merr.

Common. Flowers: June-Apr. Fruits: Mar.-June. Pet, 95898; Ghusalgaon, 96129; Wagjoi, 96183; Masgaon, 97639; Nandgaon, 97902; Bushi, 97982; Sakarpathar, *Gammie* 15188.

F. montana Grah.

Common in Kate Pani, 96034. Flowers and fruits: Mar.-Apr.

PITTOSPORACEAE

Pittosporum floribundum Wt. & Arn.

Common. Flowers: July-Aug. Fruits: Aug.-Apr. Pandongar, 93165; Kotri, 93354; Ambavane, 93409, 93360, *Gammie* 15968; Wagjoi, 99112; Sakarpathar, 99279.

CARYOPHYLLACEAE

Polycarpon prostratum (Forsk.) Asch. & Sch.

Fairly common in moist areas, harvested fields,

river beds, edges of pools. Flowers and fruits: All the year. Ambavane, 95735; Sakarpathar, 97756, *Garade* 15173.

PORTULACACEAE

Portulaca oleracea Linn.

Rare in moist area. Flowers and fruits: Dec.-June. Pet, 95778; Nandgaon, 95902; Korai fort, 97877.

ELATINACEAE

Bergia ammannioides Roxb. ex Roth

Common in fallowed fields, at edges of tanks. INS Shivaji, 96112, 96140, *Rolla* 83499; Bushi, 97793. Flowers and fruits: Nov.-May.

GUTTIFERAE

Garcinia indica (Du Pet.-Thou.) Choiss.

Occasional in semi-evergreen forest. Flowers: Dec.-Mar. Fruits: Feb.-June. Maluste, 93225; Kate Pani, 96042; Tiskari, 96109; Sakarpathar, 97768.

G. talboti Raiz. ex Sant.

Common in dense forest and ravine slopes. Flowers: Nov.-May. Fruits: Mar.-May. Nandgaon, 95868; Kate Pani, 95943, 96030; Sakarpathar, 97768.

Mammea suriga (Buch.-Ham. ex Roxb.) Kost.

Occasional on ravine slopes in dense forest. Flowers: Feb.-Apr. Kate Pani, 96039.

ANCISTROCLADACEAE

Ancistrocladus heyneanus Wall.

Common in dense forest on ravine slopes. Flowers: Mar.-May. Fruits: Apr.-May. Kate Pani, 96028; Nandgaon, 97662; Bushi, 97800.

MALVACEAE

Abelmoschus manihot (Linn.) Medic.

Frequent on hill slope among grass. Flowers and fruits: Oct.-Jan. Pandongar, 93178; Korai fort, 96165; Bushi, 98783; Kate Pani, 99493

Abutilon polyandrum Sch.

Frequent. Flowers: Nov.-Feb. Fruits: Dec.-Mar. (-June). Korai fort, 93302; Tiskari, 95795; Sakarpathar, 101164; *Gammie* 16339.

Azanza lampas (Cav.) Alef.

Frequent. Flowers and fruits: Sept.-Feb. Pandongar, 93140; Ambavane, 93418; Tiskari, 96116; Bushi, 100907.

Hibiscus hirtus Linn.

Occasional in open area. Flowers and fruits: Nov.-May. Korai fort, 93341; Pet, 95755, 95821; Kate Pani, 95919; Sakarpathar, 97788, *Rolla* 77757.

H. rosasinensis Linn.

Cultivated as a garden plant.

Hibiscus schizopetalus Hook. f.

Cultivated as a garden plant.

Kydia calycina Roxb.

Common in deciduous forest. Flowers: Oct.-Dec. Fruits: Dec.-Apr. Pet, 93348; Pandongar, 93144; Nandgaon, 101123.

Sida rhombifolia Linn. var. **retusa** Mast.

Common in open place. Flowers and fruits: Sept.-Feb. Ambavane, 95751; Valwan, 100939; Kate Pani, 101014.

S. rhombifolia Linn. var. **rhomboidea** Mast.

Common in open area. Flowers and fruits: Sept.-Jan. Pandongar, 93150; Korai fort, 93281; Kate Pani, 101012.

S. veronicaefolia Lamk.

Common in Kate Pani Forest elsewhere rare. Flowers and fruits: Sept.-Jan. Pandongar, 93122; Kate Pani, 101020; Maluste, 101105.

Thespesia populnea (Linn.) Sol. ex Corr.

Planted along roadside. Bushi, 101136.

Urena lobata Linn.

Common along wayside. Flowers and fruits: Oct.-May. Ambavane, 93383; Saltar, 93459; Tiskari, 95798; Atvan, 97823.

BOMBACACEAE

Bombax ceiba Linn.

Common. Flowers: Jan.-Apr. Fruits: Mar.-Apr. Tiskari, 68400; Maluste, 95952; Pet, 96075; Ambavane, 87449.

B. insigne Wall.

Common. Flowers: Nov.-Mar. Fruits: Feb.-Apr. Kotri, 93378; Kate Pani, 100987.

STERCULIACEAE

Eriolaena quinquelocularis Wight

Occasional. Flowers: June-July. Fruits: July-Aug. Tiskari, 95814; Bushi, 97958.

Firmiana colorata (Roxb.) R. Br.

Uncommon. Flowers: Mar.-May. Kotri, 96074; Saltar, 100972.

Helicteres isora Linn.

Frequent. Flowers: Sept.-Feb. Fruits: Nov.-Apr. Pandongar, 93146; Ambavane, 93210, Rolla 87409; Kate Pani, 95926; Bushi, 100905.

Melochia corchorifolia Linn.

Rare. Flowers and fruits: Sept.-Nov. Kate Pani, 101013.

Sterculia guttata Roxb.

Fairly common. Flowers: Nov.-May. Fruits: All the year. Pandongar, 93172; Tiskari, 95709;

Ambavane, 95719; Kate Pani, 95930; Nandgaon, 97665.

S. urens Roxb.

A rare plant. Flowers: Nov.-Jan. Ambavane, 93487.

TILIACEAE

Corchorus aestuans Linn.

Rare. Flowers: Aug.-Oct. Fruits: Oct.-Nov. Nisthiga, 99113; Maluste ka Nali, 101119.

C. capsularis Linn.

Rare seen in Maluste ka Nali, 101108. Flowers and fruits: Sept.-Nov.

Erinocarpus nimmonnii Grah.

Common in Kate Pani Forest. Flowers: Aug.-Nov. Fruits: Sept.-May. Nisthiga, 96194, 99119; Kate Pani, 95920.

Grewia abutilifolia Vent ex Juss.

Rare. Flowers: Mar.-Aug. Fruits: June-Nov. Nisthiga, 96001; Kate Pani, 101005.

G. disperma Rottl. ex Spr.

Occasional. Flowers: Sept.-Nov. Fruits: Nov.-Mar. Pandongar, 93167; Ambavane, 93393, Gammie s.n. on 7-12-1902; Ghusalgaon, 95875; Bushi, 98799; Wagjoi, 99108.

G. tiliaefolia Vahl var. **argentea** Burr.

Common. Flowers: Mar.-June. Fruits: June-July. Nisthiga, 96188; Nandgaon, 97669; Bushi, 97705; Ambavane, Rolla 87413, 87450; Sakarpathar, Gammie 15167.

***Triumfetta annua** Linn.

Rare, seen in Kate Pani Forest, 101001. Fruits: Oct.-Nov.

T. pilosa Roth

Rare. Flowers: Oct.-Nov. Fruits: Nov.-Jan. Korai fort, 93280, 101067.

T. rhomboidea Jacq.

Common in undergrowth of forest. Flowers: Sept.-Apr. Fruits: Oct.-Apr. Ambavane, 93139; INS Shivaji, 96151; Korai fort, 97692; Kate Pani, 101015.

ELAEOCARPACEAE

Elaeocarpus oblongus Gaertn.

Rare seen only in Ambavane ka Gohoral Forest, 97904. Flowers: May-June.

LINACEAE

Linum mysurense Heyne ex Benth.

Fairly common in open area and on plateau. Flowers: Sept.-Jan. Fruits: Oct.-Jan. Korai fort, 93325, 99052; Bushi, Supdt. Lonavla Farm No. 15; Sakarpathar, Gammie 15900.

Reinwardtia trigyna (Roxb.) Planch.

Common near Korai fort, 93297, 97884, *Gammie* 15985. Flowers and fruits: More or less throughout the year.

MALPHIGIACEAE

Aspidopteris cordata (Heyne) A. Juss.

Rare. Flowers and fruits: Oct.-Nov. Kate Pani, 101006.

Hiptage benghalensis (Linn.) Kurz

Frequent. Flowers: Oct.-Feb. Fruits: Feb.-Apr. Nandgaon, 95895; Kate Pani, 95935; Kotri, 96063; Saltar, 101052.

OXALIDACEAE

Oxalis corniculata Linn.

Common in moist area. Flowers and fruits: All the year. Bushi, 96156, 97964.

BALSAMINACEAE

Impatiens acaulis Arn.

Common on steep rocks beneath water falls. Flowers: July-Sept. Fruits: Sept. Saltar, 99076; Rajni, 99134; Tiskari, 99318.

I. balsamina Linn.

Fairly common. Flowers and fruits: Aug.-Oct. Sakarpathar, 98749; Saltar, 99064.

I. kleinii Wt. & Arn.

Common and abundant also on tree trunks. Flowers and fruits: July-Oct. Bushi, 98671; Ambavane, 99206; Korai fort, 99252; Ghusalgaon, 99270; Nandgaon, 99370.

I. oppositifolia Linn.

Common all over. Flowers and fruits: Aug.-Oct. (-Jan.). Saltar, 93475; Bushi, 98675; Sakarpathar, 98708, 98748; Korai fort, 99033; Saltar, 99063A.

I. pulcherrima Dalz.

Occasional. Flowers and fruits: Aug.-Nov. Korai fort, 99019; Tiskari, 99441.

RUTACEAE

Atalantia racemosa Wt. & Arn.

Occasional. Flowers: Oct.-Apr. Fruits: Mar.-Sept. Nisthiga, 96007, 99109; Ambavane, 97647; Tiskari, 99319, 101062.

Citrus medica Linn.

Cultivated. Flowers: Jan.-Mar. Fruits: Mar.-Apr. Ambavane, 95733, 97697.

Evodia lunu-ankenda (Gaertn.) Merr.

Common in dense forest. Flowers: Sept.-Jan. Fruits: Jan.-Aug. Tiskari, 96108; Bushi, 98713; Ghusalgaon, 99177.

Fagara badruna Roxb.

Frequent. Flowers: July-Aug. Fruits: Aug.-Jan. Nisthiga, 68390; Masgaon, 93453; Saltar, 99066; Atvan, 99271.

Glycosmis mauritiana (Lamk.) Tanaka

Common in forest undergrowth. Flowers: Aug.-Apr. Fruits: Feb.-May. Korai fort, 93285; Nandgaon, 95752; Nisthiga, 96005, 99121; Bushi, 101145. **Murraya koenigii** (Linn.) Spr.

Common in dense forest. Flowers and fruits: Apr.-May. Nandgaon, 97667; Atvan, 97832.

M. paniculata (Linn.) Jack.

Occasional. Flowers: June-Feb. Fruits: Dec.-Apr. Kotri 93367; Kate Pani, 95976, 96015; Bushi, 97977.

Paramignya monophylla Wight

Rare. Flowers: Sept.-Nov. Fruits: Nov.-Aug. Kate Pani, 95932, 99341; Tiskari, 96106.

Toddalia asiatica (Linn.) Lamk.

Common in dense forest. Flowers and fruits: June-Sept. Atvan, 98738, 99272; Bushi, 98693.

BURSERACEAE

Canarium strictum Roxb.

Only seen in Kate Pani Forest, 96026. Flowers (male): Mar.-Apr.

Garuga pinnata Roxb.

Fairly common. Flowers: Feb.-Mar. Fruits: Mar.-May. Kate Pani, 96046.

MELIACEAE

Amcora lawii (Wight) Bedd.

Common. Flowers: All the year. Fruits: Mar.-June. Kate Pani, 96164, 97844; Bushi, 97794; Sakarpathar, 97729, 101171; Gohoral, 97906; Maluste, 101095.

Aphanamixis polystachya (Wall.) Parker

Not seen by me in the area. Flowers and fruits: 20th May 1903. Sakarpathar, *Gammie* 16332.

Chukrasia tabularis Juss. var. **velutina** King

Occasional. Flowers: Mar.-Apr. Fruits: May-July. Nisthiga, 96197.

Dysoxylon binectariferum (Roxb.) Hook. f. ex Bedd.

Occasional in dense forest. Flowers: June-Sept. Fruits: Sept.-June. Kate Pani, 95941, 97848, 99339; Bushi, 98684.

Melia ccomposita Willd.

Seen only in Maluste ka Nali, 101098. Fruits: Oct.-Nov.

Toona ciliata Roem.

Common in dense forest. Flowers: Jan.-Apr. Fruits: Apr.-June. Tiskari, 95811, 97891.

Turraea villosa Benn.

Frequent. Flowers: July-Aug. Fruits: July-Jan. Pandongar, 93145; Kotri, 93359; Ambavane, 93412, 99313; Bushi, 97978.

Walsura trijuga (Roxb.) Kurz

Not seen by me. Fruits: May-July. Bushi, *Bhide* s.n. on 26th May 1909.

OLACACEAE

Olax wightiana Wall. ex Wt. & Arn.

Rare. Flowers: Feb.-Mar. Sakarpathar, 96134.

Strombosia ceylanica Gardn.

Rare. Flowers and fruits: Apr.-June. Kate Pani, 97846.

OPILIACEAE

Cansjera rheedii Gmel.

Occasional. Flowers: Feb.-Apr. Fruits: Feb.-May. Nandgaon, 95895; Ambavane, 96175, *Garade* s.n. on 27th February 1909; Bushi, 97790.

ICACINACEAE

Nothapodytes foetida (Wt.) Sleumer

Frequent. Flowers: July-Sept. Fruits: Oct.-Feb. Pandongar, 93169; Nandgaon, 93265, 95892; Sakarpathar, 98691; Korai fort, 99223; Ghusalgaon, 99287; Lonavla, *Garade* s.n. on 12th November 1904.

HIPPOCRATEACEAE

Celastrus paniculata Willd.

Common in open area. Flowers: Mar.-May. Fruits: May-Aug. Ambavane, 97648, 99312; Visakhkar, 97863; Pandongar, *Rolla* 97431; Sakarpathar, *Gammie* 15205.

Gymnosporia rothiana (Wt. & Arn.) Laws.

Fairly common. Flowers: June-Dec. Fruits: All the year. Sakarpathar, 68338, *Rolla* 69799, *Gammie* 15938, *Talbot* 4815; Pandongar, 93166; Kotri, 93352; Kate Pani, 95929; Masgaon, 95990; Bushi, 97950.

The following specimens show climbing habit and the fruits are white: 95929, 95990.

Reissantia grahami (Wt.) Ding Hou

Rare. Flowers: Mar.-Apr. Saltar, 97606; Jambulna, 97830.

R. indica (Willd.) Hall.

Common in open area. Flowers: Nov.-Mar. Fruits: Mar.-Dec. Sakarpathar, 68372, *Gammie* 16329; Ambavane, 93410, 95996; Tiskari, 95708, 99315; Kate Pani, 95936; Nisthiga, 96186.

RHAMNACEAE

Rhamnus triqueter (Wall.) Brand.

Found only near the fort, might be an introduction. Korai fort, 93316, 97875, *Woodrow* s.n. on 22nd March 1897.

Ventilago madraspatana Gaertn.

Fairly common. Flowers: Nov.-Feb. Fruits: Feb.-May. Ambavane, 93385; Nandgaon, 95896; Nisthiga, 96011.

***Zizyphus glaberrima** Sant.

Common. Flowers: Mar.-May. Fruits: May-Dec. Ambavane, 93493, 100964; Saltar, 97619; Sakarpathar, 97801; INS Shivaji, 97990.

Z. mauritiana Lamk.

Probably planted. Flowers: Dec.-Feb. Fruits: Jan.-Feb. Ambavane, 95712, 95960.

Z. oenoplia Mill.

Uncommon. Flowers: Oct.-Nov. Fruits: Jan.-Feb. Kate Pani, 95967; Maluste ka Nali, 101109.

Z. rugosa Lamk.

Fairly common. Flowers: Dec.-Apr. Fruits: Feb.-June. Ambavane, 95715, *Rolla* 87402; Nandgaon, 95771; Kotri, 96083; Sakarpathar, 97731, *Rolla* 69789.

VITACEAE

Ampelocissus latifolia (Roxb.) Planch.

Only seen in vegetative condition. On way to Mangaon, 101134.

Cissus discolor Bl.

Not seen in flowers and fruits. Common near Bushi, 101198.

C. elongata Roxb.

Fairly common. Flowers: Jan.-July. Fruits: May-Jan. Pandongar, 93133; Kotri, 93376; Ambavane, 93392; Korai fort, 97881; Bushi, 97949; Ghusalgaon, 99285; Sakarpathar, *Gammie* 15209.

C. repanda Vahl

Common. Flowers: Jan.-Apr. Fruits: Apr.-May. Kate Pani, 95974; Saltar, 97611; Bushi, 97802; Ghusalgaon, 97835.

Tetrastigma canarense (Dalz.) Gamble

Common on ravine slope. Flowers: Nov.-Dec. Wagjoi, 101133; Ghusalgaon, 101192.

LEEACEAE

Leea edgeworthii Sant.

Rare in forest undergrowth. Flowers: June-Aug. Bushi, 97954, 97985; Ambavane, 99210.

Leea indica (Burm. f.) Merr.

Fairly common. Flowers: Feb.-Sept. Fruits: All the year. Korafort, 93308; Masgaon, 95987; Wagjoi, 96182; Sakarpathar, 97740; Rolla 77722, 85252, Gammie 15198, Chibber 100.

L. robusta Roxb.

Rare. Fruits: Aug.-Sept. Sakarpathar, 99001; Ambavane, 99023.

L. setuligera Cl.

Rare among *Carvia* bushes. Flowers: July-Aug. Kate Pani, 93344.

SAPINDACEAE

Allophylus serratus (Roxb.) Radlk.

Common in dense forest. Flowers: Apr.-Aug. Fruits: July-Aug. Sakarpathar, 97715, Gammie 15184, 16326; Atvan, 97824, 99300; Tiskari, 97892.

Lepisanthes tetraphylla (Vahl) Radlk.

Fairly common. Flowers: Mar.-May. Fruits: Apr.-May. Nisthiga, 96010; Kate Pani, 96040; Saltar, 97623; Ambavane, 97694; Sakarpathar, 97738, 97784; Atvan, 97817.

Sapindus laurifolius Vahl

Uncommon. Fruits: Apr.-May. Kate Pani, Reddi s.n.

Schleichera oleosa (Lour.) Oken

Occasional on ravine slope. Flowers: Mar.-May. Nisthiga, 96200; Kate Pani, 100981.

ANACARDIACEAE

Anacardium occidentale Linn.

Often planted. Flowers: Dec.-May. Fruits: Mar.-June. Ambavane, 93199.

Holigarna grahmi (Wt.) Hook. f.

Common in dense forest. Flowers: Dec.-Feb. Fruits: Jan.-June. Saltar, 93472; Tiskari, 95794; Atvan, 95873; Nisthiga, 96185; Bushi, 97814; Sakarpathar, Garade s.n. on 11th January 1905.

Lanea coromandelica (Houtt.) Merr.

Common. Flowers: Feb.-Apr. Fruits: Mar.-July. Ambavane, 96168, 97893, Rolla 87417.

Mangifera indica Linn.

Very common and abundant. Flowers: Jan.-Mar. Fruits: Mar.-May. Kate Pani, 96036.

CONNARACEAE

Rourea santaloides Wt. & Arn.

Common in dense forest. Not seen in flowers or fruits. Atvan, 68395; Nandgaon, 101226; Ambavane, Garade s.n. on 20th December 1909.

FABACEAE

Aeschynomene indica Linn.

Rare. Flowers and fruits: Sept.-Oct. Valwan, 99190.

Alysicarpus belgaumensis Wight

Common on hillslope. Flowers and fruits: Oct.-Dec. Tiskari, 99428; Pandongar, 99467; Korafort, 101074; Sakarpathar, 101175; Ambavane, Gammie 15919.

A. vaginalis (Linn.) DC.

Frequent among grass. Flowers and Fruits: Sept.-Feb. Ambavane, 96105.

Atylosia lineata Wt. & Arn.

Common. Flowers: Dec.-Mar. Fruits: Mar.-May. Ambavane, 93212; Ghusalgaon, 95877; Saltar, 97637; Nandgaon, 100990; Sakarpathar, Rolla 85228.

A. scarabaeoides (Linn.) Benth.

Rare. Flowers and fruits: Oct.-Nov. Kate Pani, 101009.

A. sericea Benth. ex Baker

Fairly common. Flowers: Oct.-Dec. Fruits: Nov.-Jan. Kotri 93377; Ambavane, 99413.

Butea monosperma (Lamk.) Taub.

Common. Flowers: Jan.-Apr. Fruits: Mar.-Apr. Ambavane, 95791, Rolla 87453; Saltar, 97612.

Cicer arietinum Linn.

Cultivated. Ambavane, 96000.

Crotalaria albida Heyne ex Roth

Common among grass. Flowers: Oct.-Jan. Fruits: Nov.-Jan. Ambavane, 93439, 99459; Pandongar, 99469; Maluste, 101107.

C. filipes Benth.

Fairly common among low grass. Flowers and fruits: Sept.-Apr. Sakarpathar, 68340, Rolla 77708, 85223; Pandongar, 93121; Korafort, 95835, 97651; Ambavane, 96053; Kotri, 96084; Saltar, 97605.

C. mysorensis Roth

Frequent on hillslope. Flowers: Sept.-Nov. Fruits: Oct.-Nov. Tiskari, 99441; Kate Pani, 99498; Maluste, 101094.

C. nana Burm. f.

Frequent on hillslope. Flowers: Sept.-Nov. Fruits: Oct.-Nov. Ambavane, 99407; Tiskari, 99429; Bushi, 100909; Korafort, 101067.

C. retusa Linn.

Common all over. Flowers: Oct.-Mar. Fruits: Nov.-Apr. Pandongar, 93130; Maluste, 93241; Saltar, 96090; Sakarpathar, Rolla 68348, 69797, 85220, Gammie 15192; Masgaon, Rolla 87434.

Crotalaria triquetra Dalz.

Occasional among grass. Flowers: Sept.-Jan. Fruits: Oct.-Jan. Ambavane, 93197; Kotri, 93366; Saltar, 93483; Kate Pani, 101019.

C. vestita Baker

Frequent among low grass. Flowers and fruits: Sept.-Apr. Sakarpathar, *Gammie* 15899; Saltar, 93460; Ambavane, 95984; Korai fort, 99036.

Cylista scariosa Roxb.

Fairly common. Flowers: Dec.-Apr. Fruits: Feb.-Apr. Ambavane, 93201, 95914, *Rolla* 87427; Nandgaon, 95772; Kate Pani, 96044.

Dalbergia lanceolaria Linn. f.

Rare. Fruits: Sept.-Apr. Nandgaon, 97688; Maluste ka Nali, 101102.

D. latifolia Roxb.

Uncommon. Flowers: Oct.-Mar. Nisthiga, 96196; Maluste, 101100.

D. sympathetica Nimmo ex Grah.

Fairly common. Flowers: Nov.-Jan. Fruits: Dec.-Apr. Maluste, 93223; Kotri, 93355; Ambavane, 95728, 95899, *Gammie* 15966; Masgaon, 97640.

D. volubilis Roxb.

Common. Flowers: Jan.-Apr. Nandgaon, 95761; Devgarh, 95879; Ambavane, 96104, *Rolla* 87442.

Derris scandens Lour.

Rare. Flowers: May-July. Fruits: July-May. Ambavane, 93276, 97903.

Desmodium alysicarpoides Knaap van Meeuwen

Occasional in forest clearing. Flowers and fruits: Oct.-Dec. Tiskari, 99446; Saltar, 101031; Korai fort, 101076; Ambavane, *Gammie* 15919; Sakarpathar, *Chibber* 132.

D. gangeticum (Linn.) DC.

Occasional along wayside. Flowers and fruits: Nov.-Jan. Ambavane, 93486.

D. heterocarpon (Linn.) DC.

Rare. Flowers and fruits: Oct.-Nov. Maluste ka Nali, 101118.

D. laxiflorum DC.

Common. Flowers: Sept.-Oct. Fruits: Oct.-Jan. Ambavane, 93292; Bushi, 98800; Tiskari, 101033.

D. rotundifolium Baker

Rare in forest clearing. Flowers and fruits: Oct.-Nov. Tiskari, 99430.

D. triangulare (Retz.) Merr.

Frequent in forest clearing. Flowers: Oct.-Nov. Fruits: Nov.-Feb. Kotri, 93356; Kate Pani, 95934; Saltar, 101029.

D. triflorum (Linn.) DC.

Common among low grass. Flowers and fruits: Mar.-Oct. Ambavane, 96171, 97908; Sakarpathar, 97741; Masgaon, 99100.

D. triquetrum (Linn.) DC.

Common along wayside. Flowers: Oct.-Dec. Fruits: Oct.-Feb. Pandongar, 93127; Ambavane, 93296, 95983; Tiskari, 101044; Bushi, 101158.

Dolichos lablab Linn.

Cultivated. Ambavane, 93343; Saltar, 97649.

Erythrina stricta Roxb.

Common. Flowers: Feb.-Apr. Fruits: Mar.-Apr. Ambavane, 96055, *Rolla* 87448; Saltar, 97620.

Geissaspis cristata Wt. & Arn.

Fairly common in moist area. Flowers and fruits: Sept.-Nov. Pandongar, 93137; Sakarpathar, 97763; Kate Pani, 95854.

Indigofera astragalina DC.

Rare. Fruits: Oct.-Nov. Kate Pani, 101011.

I. pulchella Roxb.

Occasional in cleared forest area. Flowers: Oct.-Apr. Fruits: Nov.-May. Pandongar, 93147; Kotri, 93375; Masgaon, 93449; Kate Pani, 95982; Saltar, 96092; Nandgaon, 101124; Ambavane, *Rolla* 87412.

I. prostrata Willd.

Rare. Flowers: Sept.-Oct. Sakarpathar, 98755; Ghusalgaon, *Reddi* s.n.

Moghania gracilis Mukh.

Rare among grass. Flowers: Sept.-Oct. Sakarpathar, 100923.

M. strobilifera (Linn.) St. Hil. ex Jacks.

Common. Flowers: Dec.-Mar. Fruits: Mar.-May. Ambavane, 93204, 95915; Nandgaon, 95764; Sakarpathar, *Rolla* 77705, 85258.

Mucuna monosperma DC.

Common in dense forest. Fruits: Throughout the year. Ambavane, 95860, 97652.

M. prurita Hook.

Occasional among *Carvia* bushes. Flowers: Oct.-Nov. Fruits: Nov.-Jan. Korai fort, 93336; Ambavane, 99415.

Phaseolus dalzellii Cooke

Occasional among *Carvia* bushes. Flowers and fruits: Oct.-Nov. Ambavane, 99416, 99477.

P. radiatus Linn.

Common among bushes. Flowers and fruits: Sept.-Nov. (-Jan.). Saltar, 93458; Kotri, 96082; Bushi, 98756; Tiskari, 99426, 101041; Sakarpathar, *Gammie* 15992.

Pongamia pinnata (Linn.) Pierre

Occasional. Flowers: Apr.-June. Fruits: All the year. Kotri, 93364; Tiskari, 93497; Rajni, 100969.

Sesbania bispinosa (Jacq.) Faw. et Rendle

Seen only in Maluste ka Nali (101104). Fruits: Oct.-Nov.

Smithia bigemina Dalz.

Fairly common among low grass. Flowers and fruits: Sept.-Oct. (-Mar.). Kotri, 93371; Nandgaon, 95907; Rajni, 99151; Sakarpathar, *Gammie* 15950.

S. blanda var. **racemosa** Baker

Common. Flowers: Sept.-Oct. Korai fort, 99046; Rajni, 99149.

S. conferta Sm.

Rare. Flowers and fruits: Sept.-Oct. Valwan, 99186.

S. purpurea Hook.

Common near Rajni (99148, 101060). Flowers and fruits: Sept.-Nov.

S. pycnantha Benth. ex Baker

Common. Flowers and fruits: Aug.-Sept. Masgaon, 99073, 99074; Rajni, 99150.

S. sensitiva Ait.

Occasional. Flowers and fruits: Sept.-Oct. (-Feb.). Ambavane, 99395, 95724; Nandgaon 95767; Sakarpathar, 101187.

S. setulosa Dalz.

Common on top of Pandongar Hill (99472), rare elsewhere. Flowers and fruits: Oct.-Nov.

Trigonella afoenum-graceum Linn.

Cultivated during the winter months (95785).

T. oculata Del.

Not seen by me. Bushi, *Rolla* 77743.

Tephrosia coccinea Wall.

Rare. Fruits: Dec.-Jan. Korai fort, 93294.

T. tinctoria Pers.

Rare among grass. Flowers and fruits: Oct.-Dec. Ambavane, 99412; Sakarpathar, *Chibber* 109, *Gammie* 15928.

Teramnus labialis (Linn. f.) Spr.

Frequent in forest clearing. Flowers: Oct.-Dec. Fruits: Oct.-Dec. (-Apr.). Tiskari, 95973; Saltar, 97610; Ambavane, 99475, *Gammie* 15965; Kate Pani, 99495; Sakarpathar, *Rolla* 68353.

Vigna capensis Walp.

Common. Flowers and fruits: Sept.-Nov. Sakarpathar, 98742; Ambavane, 99133, 99476; Kate Pani, 101003; Tiskari, 101034.

Zornia gibbosa Span.

Occasional among low grass. Flowers and fruits: Sept.-Apr. Masgaon, 93448; Ambavane ka

Dangorwada, 96052; Masgaon Hill Top, 97644; Valwan, 100943.

CAESALPINIACEAE

Bauhinia foveolata Dalz.

Rare. Fruits: Mar.-May. Kate Pani, 95932, 100978.

B. recemosa Lamk.

Fairly common. Flowers: Mar.-May. Fruits: May-Feb. Ambavane, 93386; Tiskari, 95803; Masgaon, 95985; Nisthiga, 96003; Ghusalgaon, 97834; Saltar, 97883; Sakarpathar, *Gammie* 15210.

Cassia absus Linn.

Rare. Fruits: Oct.-Nov. Kate Pani, 101010.

C. fistula Linn.

Frequent. Fruits: All the year. Ambavane, 95792; Maluste ka Nali, 101097.

C. mimosoides Linn.

Rare. Flowers and fruits: Oct.-Nov. Kate Pani, 101008.

C. tora Linn.

Occasional. Flowers: Aug.-Oct. Fruits: Sept.-Nov. Sakarpathar, 98741; Wagjoi, 99117; Kate Pani, 101004.

Mezoneuron cucullatum (Roxb.) Wt. & Arn.

Common. Flowers and fruits: Dec.-Jan. Korai fort, 93335; Ambavane, 95716.

Piliostigma malabaricum (Roxb.) Benth.

Occasional. Fruits: Dec.-Apr. Ambavane, 93491, *Rolla* 87454.

Wagatea spicata Dalz.

Rare. Flowers and fruits: Jan.-Mar. Kate Pani, 95969.

MIMOSACEAE

Acacia chundra (Roxb.) Willd.

Fairly common near Rajni. Fruits: Oct.-Nov. Rajni 100959; Maluste ka Nali, 101103.

A. nilotica (Linn.) Del. ssp. **indica** (Benth.) Brenan

Seen only seedling stage at INS Shivaji.

A. sinuata (Lour.) Merr.

Fairly common. Flowers: Aug.-Feb. Fruits: Dec.-Mar. Kotri, 93351; Tiskari, 95703; Korai fort, 95824; Sakarpathar, 96133, 98692; Ambavane, 97680.

A. torta (Roxb.) Craib

Fairly common. Flowers: Aug.-Nov. Fruits: Nov.-Feb. Pandongar, 93122; Tiskari, 95796; Bushi, 98661; Saltar, 99067; Sakarpathar, *Rolla* 85232.

Albizzia chinensis (Osbeck) Merr.

Fairly common. Flowers: Apr.-June. Fruits: May-Apr. Maluste, 93246; Ambavane, 93429; Sakarpathar, 97722, *Gammie* 15166; Kate Pani, 97841.

Albizia lebbbeck (Linn.) Benth.

Rare. Fruits : Jan.-Feb. Saltar, 96117.

A. odoratissima (Linn.) Benth.

Rare. Fruits: Feb.-Apr. Saltar, 96121, 97824.

A. procera (Roxb.) Benth.

Rare. Flowers: May-June. Fruits: Dec.-Feb. Tiskari, 93492; Saltar, 96097, 96119, 97886.

Entada pursaetha DC.

Common in dense forest. Flowers: Mar.-May. Fruits: May-Mar. Tiskari, 95704; Nandgaon, 95880, 97658; Kate Pani, 96043; Atvan, 97833; Sakarpathar, *Gammie* 15197.

Pithecellobium dulce (Roxb.) Benth.

Rare near human habitation. Flowers: Feb.-Mar. Sakarpathar, 96136.

CRASSULACEAE

Kalanchoe pinnata (Lamk.) Pers.

Rare along stream. Flowers: Dec.-Feb. Kotri, 93349; Pet, 96166.

DROSERACEAE

Drosera indica Linn.

Fairly common among low grass. Flowers and fruits: Aug.-Oct. Bushi, 98766; Ambavane, 99008; Masgaon, 99099.

RHIZOPHORACEAE

Carallia brachiata (Lour.) Merr.

Occasional in evergreen forest. Flowers: Nov.-Mar. Fruits: Mar.-Apr. Maluste, 93248; Nandgaon, 95766, 95869; Saltar, 97613.

COMBRETACEAE

Anogeissus latifolia (Roxb.) Bedd.

Rare. Maluste ka Nali, 100958.

Calycopteris floribunda (Roxb.) Lamk.

Frequent. Flowers: Jan.-Apr. Fruits: Mar.-May. Kate Pani, 95937; Wagjoi, 96002; Masgaon, *Rolla* 87433.

Combretum latifolium Bl.

Common. Flowers: Feb.-Mar. Fruits: Mar.-Apr. Ambavane, 95962; Nandgaon, 97661.

C. ovalifolium Roxb.

Occasional. Flowers and fruits: Mar.-Apr. Saltar, 97601.

Terminalia bellirica (Gaertn.) Roxb.

Occasional. Flowers: Mar.-May. Fruits: May-Jan. Sakarpathar, 68349; Ambavane, 93424; Saltar, 97633; INS Shivaji, 97669.

T. chebula Retz.

Common. Flowers: Mar.-May. Fruits: Apr.-Mar. Nandgaon, 68369; Maluste, 93244; Kate Pani, 95927; Ambavane, 96008, 97882, *Rolla* 87451; Saltar, 97603; Bushi, 97712; Sakarpathar, *Rolla* 85252.

T. crenulata Roth

Fairly common. Flowers: Apr.-Sept. Fruits: All the year. Maluste, 93249, 97897; Ambavane, 93413; Masgaon, 95986; Bushi, 97804; Wagjoi, 99118; Sakarpathar, *Gammie* 15159.

MYRTACEAE

Psidium guajava Linn.

Planted. Flowers: Nov.-May. Fruits: All the year. Ambavane, 93431; Sakarpathar, 97735.

Syzygium canarensis Talbot

Rare in dense forest. Kate Pani, 101225.

S. cumini (Linn.) Skeels

Fairly common. Flowers: Dec.-May. Fruits: Apr.-June. Nandgaon, 95897; Ambavane, 93388, *Rolla* 87446; Kotri 96065; Saltar, 96124; Atvan, 97818; Sakarpathar, *Rolla* 69797.

S. jambos (Linn.) Alston

Rare. Flowers: Dec.-Apr. Fruits: Feb.-May. Ambavane, 93101, 95908, 97675.

S. phillyraeoides (Trim.) Sant.

Occasional in dense forest. Flowers and fruits: Oct.-Apr. Kate Pani, 95951, 96031; Sakarpathar, 101169.

LECYTHIDACEAE

Careya arborea Roxb.

Fairly common. Flowers: Mar.-May. Fruits: Apr.-June. Ambavane, 96014; Bushi, 97704; Ambavane R. H. 100963.

MELASTOMACEAE

Memecylon talbotianum Brandis

Uncommon in dense forest undergrowth. Flowers: Mar.-May. Fruits: Apr.-May. Nandgaon, 97664; Sakarpathar, *Gammie* 16337.

M. umbellatum Burm. f.

Fairly common in evergreen forest. Flowers: Dec.-Apr. Fruits: Mar.-Aug. Maluste, 93220; Nandgaon, 95870; Ambavane, 95911, *Rolla* 87401; Saltar, 97615; Sakarpathar, 97726; Kate Pani, 99343.

Osbeckia truncata Don

Occasional near stream. Flowers and fruits: Oct.-Jan. Pandongar, 93189; Ambavane, 93390, 101092.

Sonerila scapigera Hook.

On underside of overhanging rock. Flowers and fruits: July-Oct. Bushi, 98647, 98789; Korai fort, 99041, 99244.

LYTHRACEAE

Ammannia baccifera Linn.

Common in harvested field. Flowers and fruits: Oct.-June. Ambavane, 93272 Korai fort, 93337, 97685, 97689; INS Shivaji, 96137, 97762.

A. multiflora Roxb.

Rare. Flowers and fruits: July-Oct. Valwan, 98731, 99378.

***A. senegalensis** Lamk.

Occasional in harvested field. Flowers and fruits: Dec.-Apr. Ambavane, 93111, 97689.

Lagerstroemia lanceolata Wall. ex Wt. & Arn.

Common. Flowers: Apr.-June. Fruits: May-Apr. Pandongar, 93163; Ambavane, 93425, 93485, 99330; Sakarpathar, 97730; Saltar, 97884 Bushi, 97952.

L. parviflora Roxb.

Rare. Kate Pani, 100957.

L. speciosa (Linn.) Pers.

Planted, not seen wild.

Rotala densiflora (Roth) Koehne

Common on plateau. Flowers and fruits: Aug.-Nov. Ambavane, 93444; Valwan, 98644; Saltar, 99080; Atvan, 100928.

R. floribunda (Wt.) Koehne

Observed only in vegetative condition along stream near Gowkund, where it is common, not seen elsewhere.

R. indica (Willd.) Koehne

Uncommon in harvested field. Flowers and fruits: Dec.-Jan. Pandongar, 93194; Ambavane, 93444A.

R. oculiflora Koehne

Common on plateau. Flowers and fruits: Aug.-Oct. Valwan, 98645; Atvan, 100931.

R. serpyllifolia (Roth) Bremek.

Common along stream. Flowers and fruits: Oct.-Jan. Kotri, 99365; Saltar, 101028.

Woodfordia fruticosa (Linn.) Kurz

Common along wayside and forest clearing. Flowers: Jan.-June. Fruits: Mar.-June. Ambavane, 95729; Ghusalgaon, 95876; Nisthiga, 96192; Sakarpathar, 97724, *Gammie* 15156.

ONAGRACEAE

Ludwigia octovalvis (Jacq.) Raven ssp. **sessiliflora** (Mich.) Raven

Occasional in moist-spot. Flowers and fruits: Oct.-May. Ambavane, 93398, 95730.

L. perennis Linn.

Frequent in moist area. Flowers and fruits: Aug.-May. INS Shivaji 97745; Valwan, 99183, 99383.

SAMYDACEAE

Casearia graveolens Dalz.

Fairly common. Flowers: Mar.-July. Fruits: Mar.-Aug. Ambavane, 96170; Sakarpathar, 97732, 97973; Ghusalgaon, 99281; Kate Pani, 99340.

CUCURBITACEAE

***Cucumis setosus** Cogn.

Fairly common. Flowers: Aug.-Nov. Fruits: Oct.-Nov. Korai fort, 99021, 101071; Masgaon, 99075; Tiskari, 99427; Sakarpathar, *Chibber* 134.

C. sativus Linn.

Rare. Flowers and fruits: Sept.-Nov. Korai fort, 101065.

Dicaeolosperrum ritchiei Cl.

Common and abundant. Flowers and fruits: July-Nov. Bushi, 98686, 98798; Sakarpathar, 98707; Korai fort, 99042, 99253, 101072; Kate Pani, 99334; Pandongar, 99465; Ambavane, *Woodrow* s.n.

Luffa acutangula (Linn.) Roxb. var. **amara** (Roxb.) Cl.

Frequent. Flowers: Sept.-Dec. Fruits: Oct.-Dec. Ambavane, 99451; Korai fort, 101083; Sakarpathar, 101178.

Melothria perpusilla (Bl.) Cogn.

Rare. Flowers: June-Aug. Bushi, 97984; Kate Pani, 99338.

Momordica dioica Roxb. ex Willd.

Rare. Flowers: July-Aug. Korai fort, 97988, 99258.

Solena heterophylla Lour.

Common. Flowers and fruits: Apr.-July. Maluste, 93211; Nandgaon, 93258, 97670; Korai fort, 95822; Kotri, 96062; Sakarpathar, 97772; Saltar, 97889; Bushi, 97957; Pet, 99229.

Trichosanthes bracteata (Lamk.) Voigt

Occasional. Flowers: July-Aug. Fruits: July-Oct. Bushi, 98788; Ambavane, 99209; Kotri, 99349.

BEGONIACEAE

Begonia concanensis DC.

Frequent on hanging rocks. Flowers: July-Oct. Fruits: Sept.-Oct. Bushi, 98652, 98786; Korai fort, 99256.

B. crenata Dryand.

Fairly common. Flowers and fruits: July-Oct. Bushi, 98651; Saltar, 99082; Sakarpathar, 99204; Korai fort, 99247; Atvan, 99267.

CACTACEAE

Opuntia elatior Mill.

Rare. Flowers: Mar.-May. Saltar, 97627.

MOLLUGINACEAE

Glinus lotoides Linn.

Common in harvested field. Flowers and fruits: Nov.-July. Korai fort, 93330, 95833 Ambavane, 95746; Bushi, 97939; INS Shivaji, 85201.

Mollugo pentaphylla Linn.

Common on plateau. Flowers and fruits: July-Oct. Korai fort, 99241, 99255; Valwan, 98639.

APIACEAE

Centella asiatica (Linn.) Urban

Uncommon in moist area. Flowers and fruits: July-Mar. Valwan, 99382.

Coryandrum sativum Linn.

Cultivated. Pet, 97583.

Heracleum concanense Dalz.

Common on plateau. Flowers: Aug.-Oct. Fruits: Sept.-Oct. Bushi, 98667; Rajni, 99062; Sakarpathar, 100935.

Peucedanum grande Cl.

Frequent on hanging rock. Flowers: July-Oct. Fruits: Aug.-Oct. Bushi, 98663, 98787; Korai fort, 99219; Ambavane, 99303.

Pimpinella adscendens Dalz.

Common in grassy area. Flowers and fruits:

Nov.-May. Ambavane, 93105, 96013, *Gammie* 15996; Nandgaon, 95903; INS Shivaji, 97744.

P. heyneana Wall. ex Kurz

Common among grass. Flowers and fruits: Oct.-Jan. Maluste, 93232, 101120; Ambavane, 93445; Tiskari, 99419; Bushi, 101153.

P. monoica Dalz.

Rare. Flowers and fruits: Oct.-Jan. Korai fort, 93306, 101064.

Trachispermum stictocarpum Wolff var. **hebecarpum** (Cl.) Wolff

Common. Flowers and fruits: Oct.-Dec. Kate Pani, 99497; Maluste, 101111; Sakarpathar, *Gammie* 15959B.

T. strictocarpum Wolff var. **stictocarpum** Wolff

Common. Flowers and fruits: Nov.-Feb. Sakarpathar, 68345, 101183; Pandongar, 93124; Maluste, 93257, 95954.

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