FLORA OF MAHABALESHWAR

P. V. BOLE AND M. R. ALMEIDA
[continued from Vol. 77 (3): 464]

BALSAMINACEAE

*Impatiens* Linn.

1. *Impatiens acaulis* Arn. in Hook. Comp. Bot. Mag. 1: 325; 1835; Dalz. & Gibbs 42; FBI 1: 443; Nairne, 43; Birdwood, 404; Woodrow, 11: 266; Cooke, 1: 170 (180): Santapau, 289 & 400; Puri & Mahajan, 120.


This is a beautiful scapigrous species attached to precipitous rocks below the waterfalls. FLOWERS: July-October; FRUITS: August-December.

LOCAL NAME: Lahan Tirda.


Gibs. 43; Birdwood, 9; Nairne, 44; Birdwood, 404; Woodrow, 11: 266; Cooke, 649 & 1: 173 (183); Blatter 36: 312; Santapau, 289 & 440; Puri & Mahajan, 120.

This is a common monsoon herb with yellow flowers. It grows in forest undergrowth in loose soil and disappears soon after monsoon.

FLOWERS & FRUITS: August-October.

LOCAL NAME: Pivla Tirda.

3. *Impatiens pulcherrima* Dalz. in Hook. J. Bot. 2: 37, 1850; Hook. Bot. Mag. t. 4615, 1837; Dalz. & Gibbs. 44; FBI 1: 458; Nairne, 44; Cooke, 650 & 1: 175 (185); Woodrow, 11: 266.

This is a tall and showy balsam; fairly common and gregarious along the Fitzgerald Ghat.

FLOWERS & FRUITS: August-January.

LOCAL NAME: Motha Tirda.

4. *Impatiens balsamina* Linn. Sp. Pl. 938; 1753; Graham, 34 (p.p.); Dalz. & Gibbs. 44 (p.p.): Nairne, 44; Santapau, 400; Puri & Mahajan, 120.


This is a rare species collected from roadsides on way to Panchgani.

FLOWERS & FRUITS: July-September.

LOCAL NAME: Tirda.


This is a common and gregarious species of balsam, all over Mahabaleshwar. It appears sometimes in July and lasts until November. Its rosy mauve flowers which are produced in profusion make it a conspicuous species in the latter part of the monsoon.
FLOWERS & FRUITS: July-October.
LOCAL NAME: Tirda.

6. *Impatiens kleinii* Wight & Arn. Prodr. 140, 1834; Dalz. & Gibbs. 43; Nairne, 44; Wight, Icon. t. 884; Cooke, 1: 171 (181); Birdwood, 120; Blatter 36: 311; Santapau, 290.
A rare plant along Fitzgerald Ghat.
FLOWERS & FRUITS: August-September.
LOCAL NAME: Tirda.

7. *Impatiens oppositifolia* Linn. Sp. Pl. 937, 1753; Graham, 34; Wight, Icon. t. 883; Dalz. & Gibbs. 43; Nairne, 44; FBI. 1: 448, Birdwood, 9 & 404; Woodrow, 11: 266; Cooke, 1: 172 (182); Blatter, 36: 312.
This is common and gregarious species, in forest clearings and under trees, as well as in open rocky situations. The dark pink-purple flowers are very conspicuous during rainy season.
FLOWERS & FRUITS: August-September.
LOCAL NAME: Tirda.

8. *Impatiens pusilla* Heyne ex Hook. f. & Thomson, in J. Linn. Soc. 4: 122, 1860; Blatter, 36: 312.
*I. inconspicua* auct. (non Benth. ex Wight & Arn. Prodr. 139, 1834); Graham, 34; Birdwood, 9; Cooke, 649, & 1: 171 (182); Santapau, 289.
*I. inconspicua var. pusilla* Hook. f. in F.B.I. 1: 448, 18.
A common herb among the grasses in wet places, very variable species.
FLOWERING & FRUITING: August-October.
LOCAL NAME: Tirda.

9. *Impatiens tomentosa* Heyne ex Dalz. & Gibbs., Bombay Flora, 43, 1861; Wight, Icon., t. 749; Nairne. 45.
This species is included on the authority of Nairne.

10. *Impatiens lawii* Hook. f. & Thomson in J. Linn. Soc. 4: 122, 1860; FBI 1: 448; Nairne, 45; Cooke, 1: 172 (183); Blatter 36: 312.
There is one specimen of this species from Mahabaleshwar in B.S.I. (Poona) Herbarium, collected by R. K. Bhide.
FLOWERS & FRUITS: August-November.

TROPACEOLACEAE
*Tropaeolum* Linn.

A cultivated plant occasionally found in private gardens.

CONNARACEAE
*Connarus* Linn.

1. *Connarus monocarpus* Linn. Sp. Pl. 678, 1753; Graham, 35; Dalz. & Gibbs. 53; FBI 2: 50, Birdwood, 11, 1897.
This species is included here on authority of Birdwood only.

*Rourea* Aublet (nom. cons.)

*Aegiceras minus* Gaertner, Fruct. 1:216, t. 46, 1788.
This species is reported here on authority of Birdwood.
RUTACEAE

1. Trees .......................................... Evodia
1. Shrubs ........................................... 2
2. Unarmed shrubs .................................. 3
3. Leaves with 5 or less leaflets ................. Glycosmis
3. Leaves with more than 5 leaflets .............. Murraya
2. Armed shrubs ................................... 4
4. Leaves trifoliate .................................. Toddalia
4. Leaves unifoliate ................................ 5
5. Erect shrubs .................................... Atalantia
5. Scandently climbing shrubs ..................... Paramignya

Atalantia Corr.

1. Atalantia racemosa Wight & Arnott, Prodr. 91, 1834; FBI 1: 512; Cooke, 1: 187 (199); Talbot, 1: 201, 125; Blatter, 36: 310; Santapau, 40.
A. monophylla Graham, Cat. Bombay, Pl. 23, 1939; (non Corr. nec. DC. 1824); Dalz. & Gibbs. 28; Lisboa, 210; Nairne, 48; Cooke, 1: 187 (199); Blatter, 36: 310; Puri & Mahajan, 121.
This is a common species at Mahabaleshwar.
Lodwick Point, Tiger path, Fitzgerald Ghat, Koyna Valley.
FLOWERS: October-December;
FRUITS: March-August.
LOCAL NAMES: Makad Limbu, Ran Limbu.

Evodia Forst.

Fagara lunu-ankenda Gaertn. Fruct. 1: 334, t. 68, f. 9, 1788. Zanthoxylum triphyllum Graham, Cat. 36, 1839; Dalz. & Gibbs. 45.
E. roxburghiana Benth. Pl. Hongkong, 59, 1861; FBI 1: 487; Lisboa, 210; Cooke, 1: 177 (188); Talbot, 1: 185, t. 113; Blatter, 36: 315; Puri & Mahajan, 122.
Usually a tree up to 10 metre tall, but on way to Wada there are a few trees which reach 15 metres height. Though it is not found in abundance anywhere, it is a well distributed species.
Table lands, Rotunda Ghat, Lodwick point, Lingmala, Chinaman’s falls, Fitzgerald Ghat.
FLOWERS: April-June;
FRUITS: August-December.
LOCAL NAME: Tikatna.

Glycosmis Corr.

1. Glycosmis arborea (Roxb.) DC. Prodr. 1: 538, 1824.
Limonia pentaphylla Retz., Obs. Bot. 5: 24, 1788; [non Glycosmis pentaphylla (Roxb.) DC.] L. arborea Roxb. Pl. Cor. t. 85, 1798. G. pentaphylla auct. [non (Roxb.) DC. 1824]; Graham, Cat. Bombay pl. 23; Dalz. & Gibbs. 29; Nairne, 47; FBI 1: 499; Cooke, 1: 181 (192); Talbot, 1: 191, t. 117; Blatter, 36: 317; Puri & Mahajan, 121.
A rare species at Mahabaleshwar, which is only known from Dr. T. Cooke’s Collection.
FLOWERS & FRUITS: October-June.
LOCAL NAME: Kirmira.

Murraya Linn. (nom. cons.)

1. Leaflets 3-7; flowers few, ± 3 cm long .......... M. paniculata
1. Leaflets 11-25; flowers numerous, ± 1 cm long .... M. keonigii

1. Murraya keonigii (Linn.) Spreng, Syst. 2: 315, 1826; FBI 1: 503; Lisboa, 210; Nairne, 47; Cooke, 1: 182 (193); Talbot, 1: 193; Blatter, 36: 318; Puri & Mahajan, 121.
Bergera keonigii Linn. Mant. 1: 565, 1767; Graham, 24: Dalz. & Gibbs. 29.
A small tree very common along Fitzgerald Ghat. Occasionally found on the plateau.
FLOWERS: March-April;
FRUITS: March-June.
LOCAL NAME: Kari patta, Kari nim.
LOCAL USES: Leaves used for flavouring curries and chutnies.
2. **Murraya paniculata** (Linn.) Jack. in Misc. 1: no. 5, 31, 1820; Graham, 24; Dalz. & Gibbs. 29: Blatter, 36: 317.

*Chalca paniculata* Linn. Mant. 1: 68, 1767. *Murraya exotica* Linn. Mant. 2: 563, 1771; Graham, 24; Wight, Icon. t. 96; Nairne, 47; Cooke, 1: 182 (193); Puri & Mahajan, 120. *M. exotica* var. *paniculata* (Jack.) Birdwood, in J. Bombay nat. Hist. Soc. 10; 404, 1897. There is only one specimen of this species, collected from South of Mahabaleshwar.

**Paramignya** Wight

1. **Paramignya monophylla** Wight, Ill. 1: 109, t. 42, 1840.

A shrubby straggling climber seen only once on the slopes of Lodwick point, from Dhobi falls.

**Toddalia** Juss.

1. **Toddalia asiatica** (Linn.) Lamk. Ill. 2: 116, 1797, Blatter, 36: 316; Santapau, 38.

*Pauinina asiatica* Linn. Sp. Pl. 365, 1753. *T. aculeata* Pers. Syn. 1: 249, 1805; Graham, 37; Dalz. & Gibbs. 46; FBI 1: 479; Birdwood, 404; Cooke 1: 179 (190); Talbot 1: 189, t. 115.

*Limonia oligandra* Dalz. in Kew J. Bot. 2: 258, 1850; Dalz. & Gibson, 28.

A rare shrub found only between Dhobi falls and Lodwick point. Leaves prominently gland-dotted.

**Loeseneriella** A. C. Smith


**Hippocrateaceae**


Less common than *Reissantia indica*, found near Fitzgerald Ghat.

**ICACINACEAE**

**Nothapodytes** Blume


*Stemonurus foetidus* Wight, Icon. t. 955, 1845.
An extensive climber over 10 metre long near Lodwick point. Only two plants were seen in this area.

FLOWERS & FRUITS: March-May.
Lodwick point, Fitzgerald Ghat.

**Hippocratea indica** Willd. Sp. Pl. 1: 93, 1797; Graham, 27; Dalz. & Gibbs. 32: FBI 1: 624; Nairne, 58; Cooke, 1: 235 (250); Talbot, 1: 285, t. 169.

Found at Fitzgerald ghat in abundance but it is scarcely seen on the plateau.

FLOWERS: April; FRUITS: June-August.
LOCAL NAME: Kazurati.

**Meliaceae**

1. Leaves simple.................................. **Turraea**
2. Leaves pinnately compound................. 2
   2. Seed not winged............................ **Melia**
   2. Seed winged ................................ **Toona**

**Melia Linn.**

1. **Melia azedarach** Linn. Sp. Pl. 384, 1753; Graham, 30; FBI 1: 544; Nairne 53; Cooke 1: 205 (218).

This is a beautiful tree due to its light blue flowers which are produced in large panicles. It is cultivated near Bhilar estate.

FLOWERS & FRUITS: April-May.
LOCAL NAME: Bakain nim.

**Toona Roem.**


**Cedrela toona** Roxb. ex Rotll. & Willd. in Ges. Naturl. Fr. Neue Schr. 2: 198, 1803; Graham, 246; Dalz. & Gibbs. 38; Nairne, 54; Birdwood, 405; Cooke 1: 217 (230); Talbot, 1: 249, tt. 148-9.

Planted at Bhilar in a private estate.

FLOWERS: January-April;
FRUITS: March-May.
LOCAL NAME: Tooni, Thorla nim.

**Turraea Linn.**

1. **Turraea villosa** Benn. in Benn. Br. Pl. Jav. Rar. 182, 1840; FBI 1: 542; Cooke, 1: 204 (216); Talbot 1: 224, t. 124; Santapau, 42.
   **T. virens** Graham Cat. Bombay Pl. 1839 (non Linn., 1771); Dalz. & Gibbs. 36; Nairne, 53.

A shrub reported by several collectors but it is not seen on the plateau except at lower altitudes in Koyna valley.

FLOWERS: May-June.
FRUITS: June-December.
LOCAL NAME: Kapur Bhendi, Panduri.

**Opiliaceae**

**Cansjera Juss.**

1. **Cansjera rheedi** Gmel. Syst. 2: 280, 1791; FBI 1: 582; Cooke, 1: 223 (237); Talbot, 1: 262, t. 155; Santapau, 47.

Climbing scendent shrub found on lower ghat slopes and in valleys.

FLOWERS: October-December.
FRUITS: November-March.
LOCAL NAME: Taroli.

**Celastraceae**

1. Armed shrubs or small trees.............. **Maytenus**
1. Unarmed shrubby climbers.............. **Celastrus**

**Celastrus Linn.**

1. **Celastrus paniculata** Willd. Sp. Pl. 1: 1125, 1798; Graham, 38; Dalz. & Gibbs. 47; FBI 1: 617; Nairne, 57; Birdwood, 405; Cooke, 1: 231 (245); Talbot, 1: 276, t. 163; Santapau, 48.

A straggling climber frequently found on the Kelghar Ghat, on Satara Road.
FLOWERS: December-March.
FRUITS: March-September.
LOCAL NAME: Kangni.

Maytenus Molina


Gymnosporia rothiana (Wight. & Arn.) Laws, in FBI 1: 619, 1875; Nairne, 57; Birdwood, 405; Cooke, 1: 232 (246); Talbot, 1: 278, t. 164.
Celastrus rothiana Wight & Arn. Prodr. 159, 1834. (non Schultes, 1820); Dalz. & Gibs. 47 & 318.
Maytenus rothiana (Walp.) Ramam. in fl. Hassan Dist. 320, 1976.

Common small tree in the forest areas. Attractive when in beautiful red coloured fruits. Generally emarginate, acute or obtuse leaves are seen on one and the same twig.

Ramamoorthy (I.c.) makes a new combination based on Walper's name stating an example under article 72 of I.C.B.N. But he has misinterpreted article 72 and the example used under that article. The article and example cited under the article are applicable only to the names which have been intentionally published as nomen novum only. Walper did not publish a new name but he clearly made a new combination in the new genus. Combinations based on illegitimate names have to be rejected.

Chinaman's falls, Yenna Lake, Babington pt., Lingmala, Lodwick pt.

Rhamnaceae

1. Unarmed shrubs .......................... 2
2. Erect shrubs .......................... Rhamnus
2. Climbing shrubs .......................... Ventilago

1. Armed shrubs .......................... 3
3. Leaves hairy, 3-nerved ............ Zizyphus
3. Leaves glabrous, smooth; with single main nerve ................ Scutia

Rhamnus Linn.

1. Rhamnus wightii Wight & Arn. Prodr. 164, 1834; Dalz. & Gibs. 50: FBI 1: 639; Nairne, 61; Cooke, 1: 244 (259); Talbot, 1: 300.
A rare glabrous shrub 2-3 m tall, seen only at Kate's point on very precipitous rocks.

FLOWERS & FRUITS: January-April.

Scutia Commers

1. Scutia myrtina (Burm. f.) Kurz., J. Asiatic Soc. Bengal, 44: 168, 1875; Santapau, 52.
Rhamnus myrtinus Burm. f., Fl. Ind. 60, 1768.
Scutia indica Brongn. in Ann. Soc. Nat. Ser. 1, 10: 363, 1827; Graham, 39; Dalz. & Gibs. 50: FBI 1: 640; Lisboa 211; Nairne, 60; Birdwood, 406; Cooke, 1: 244 (260); Talbot, 1: 302, t. 179.
Rhamnus circumscissus Linn. f. Suppl. 152, 1781.

Very common straggling armed shrub with shining leaves and curved spines, on forest fringes. It is popularly called 'wait a bit' plant on account of its spines which catch clothes of hurrying visitors who walk close to this species.

Madhu Kosh, Rippon Hotel, Chinaman's falls, Lodwick point, Yenna lake.
FLOWERS & FRUITS: March-December.
LOCAL NAME: Chimat.

Ventilago Gaertn.

1. Ventilago bombaiensis Dalz. in Hook. Kew J. Bot. 3: 36, 1851; Dalz. & Gibs. 48: FBI 1: 631; Nairne 59; Birdwood, 406; Cooke, 1: 239 (254); Talbot, 1: 293; Santapau, 49.
Straggling unarmed climber scandent over forest trees. Flowers green. Rare on the plateau, Fitzgerald Ghat.
FLORA OF MAHABALESHWAR

Staphylea indica Burm. f. Fl. Ind. 75, t. 24, f. 2, 1768.
Aquilicia sambucina Linn. Mant. 2: 211, 1771.
Leea staphylea Roxb. Fl. Ind. 1: 658, 1832; Graham, 33; Dalz. & Gibs. 41.
L. sambucina Willd. Sp. PI. 1: 1177; FBI 1: 666 (p.p.); Nairne, 64; Cooke, 1: 260 (277); Talbot, 1: 327, t. 194.
A frequent shrub on Fitzgerald Ghat.
Flowers: March-June; Fruits: May-December.
Local name: Dinda.

Sapindaceae

1. Climbers or scandent shrubs Allophyllus
2. Trees
2. Fruit when ripe ± 1 cm. long Dimocarpus
2. Fruit when ripe ± 3-4 cm. long Litchi

Allophyllus Linn.
1. Allophyllus serratus (Roxb.) Radlk. in Pfreich. 98: 562, 1921; Santapau, 56.
Ornitrophe serrata Roxb. PI. Corom. 1: 44, t. 61, 1795.
Schmidelia cobbe Graham, Cat. Bombay pi. 29, 1839.
Cardiospermum schmiedelia Dalz. & Gibs. Bombay Fl. 34, 1861.
A. cobbe His., in Fl. Br. Ind. 1: 7, 674, 1875 (p.p.); Lisboa, 211; Nairne, 65; Birdwood, 406; Cooke, 1: 265 (282); Talbot, 1: 334, t. 197.
A villous, trifoliate, scandent shrub, often climbing on medium size trees. Common all over Mahabaleshwar. Flowers white, profusely produced in pendulous spikes during late summer and last till early monsoon.
Petit Road, Lodwick point, Chinaman’s point, Fitzgerald Ghat.
Flowers: December-March.
Fruits: March-April.
Local name: Toren.

Ampelidaceae

Cissus Linn.

1. Leaves simple .......................... 2
2. Erect shrubs, tendrils nil...... C. woodrowii
2. Scandent shrubs, tendrils leaf opposed........ 3
3. Leaves glabrous variegated... C. discolor
3. Leaves tomentose.............. C. repanda
1. Leaves 5-foliate ................... C. elongata

C. vitiginea Dalz. & Gibs. Bomb. Fl. 40, 1861 (non Roxb.)
A shrub 1.5-2 metres tall. Very common on exposed hill slopes along Kelghar ghat on Satara Road.
Flowers & Fruits: June.
Local name: Girmul.

2. Cissus discolor Blume, Bijdr. 181, 1825; Dalz. & Gibs. 40; Santapau, 52.
Vitis discolor Dalz. in Hook. Kew J. Bot. 2: 39, 1850; FBI 1: 647; Nairne, 63; Birdwood, 906; Cooke, 1: 250 (266); Talbot, 1: 309.
A scandent climber with leaves which are green on the dorsal surface and metallic red on the ventral surface. Frequent along the Fitzgerald Ghat.
Flowers: August-October.
Local name: Telicha Vel.

3. Cissus repanda Vahl Symb. 3: 18, 1794; Graham, 32; Dalz. & Gibs. 39; Santapau, 53.
Vitis repanda Wight & Arn. Prod. 125, 1824; FBI 1: 271; Nairne, 62; Cooke, 1: 215 (267); Talbot, 1: 312, t. 184-5.
Young foliage of this species is brightly coloured. This species is collected from Fitzgerald Ghat only.
Flowers & Fruits: April-June.
Local name: Gendal.

Vitis elongata Wall. ex Wight & Arn. Prodr. 128, 1824; FBI 1: 658; Cooke, 1: 265 (273); Talbot, 1: 320, t. 190.
A glabrous climber very common all over Mahabaleshwar among shrubs and bushes. This is the commonest species of this area. Size and margins of the leaves are very variable.
Flowers: May-June; Fruits: August-October.
Pratapsingh Park, Tiger’s Path, Kate’s point, Wilson point, Fitzgerald Ghat.

Vitis Linn.

A woody climber with bifid tendrils. Cultivated for its edible fruits in Dr. Hakim’s estate at Bhilar.
Flowers: December; Fruits: March.

Leeaceae

Leea Linn.

**FLORA OF MAHABALESHWAR**

*Staphylea indica* Burm. f. Fl. Ind. 75, t. 24, f. 2, 1768.

*Aquilicia sambucina* Linn. Mant. 2: 211, 1771.

*Leea staphylea* Roxb. Fl. Ind. 1: 658, 1832; Graham, 33; Dalz. & Gibs. 41.

*L. sambucina* Willd. Sp. Pl. 1: 1177; FBI 1: 666 (p.p.); Nairne, 64; Cooke, 1: 260 (277); Talbot, 1: 327, t. 194.

A frequent shrub on Fitzgerald Ghat. 
FLOWERS: March-June; FRUITS: May-December.

**LOCAL NAME:** Dinda.

**SAPINDACEAE**

1. Climbers or scandent shrubs............. *Allophylus*

2. Fruit when ripe ± 1 cm. long............2

2. Fruit when ripe ± 3-4 cm. long...........*Litchi*

*Allophylus* Linn.

1. *Allophylus serratus* (Roxb.) Radlk. in Pfreich. 98: 562, 1921; Santapau, 56.


A villous, trifoliate, scandent shrub, often climbing on medium size trees. Common all over Mahabaleshwar. Flowers white, profusely produced in pendulous spikes during late summer and last till early monsoon.

Petit Road, Lodwick point, Kelgar Ghat, Tiger's path.

**DIMOCARPUS Loureiro**


2. *Nephelium longana* (Lamk.) Camb. in Mem. Mus. Par. 18: 30, 1829; Graham, 29; Dalz. & Gibs. 35; FBI 1: 688; Birdwood, 406; Nairne, 66; Cooke, 1: 267 (285); Talbot, 1: 338, t. 200.

A handsome tree, 10-15 m tall with pinnate leaves. Common on Fitzgerald Ghat. 
FLOWERS & FRUITS: April-May.

**LOCAL NAME:** Wumb.

**Litchi Sonner.**


A small tree with paripinnate leaves and 4-12 leaflets in each leaf. Fruits red or pink when ripe. Cultivated for its edible delicious fruits, at Bhilar and on sides of Yenna river.

FLOWERS & FRUITS: May.

**Turpinia Vent.**

1. *Turpinia pomifera* DC. Prodr. 2: 3, 1825; Birdwood, 11, 1897.

This species is reported here on authority of Birdwood.

**Mangifera indica Linn.**

1. *Mangifera indica* Linn. Sp. Pl. 200, 1753; Lisboa, 211; Birdwood, 406; Nairne, 67; Cooke, 1: 273 (291); Talbot, 1: 348; Santapau 58.

Occasionally found on the plateau, where it does not bear fruits. Trees in the valleys are taller but bear inferior quality fruits.
FLOWERS: February-March; FRUITS: May-June.
LOCAL NAME: Amba.
Distribution: Chinaman’s falls, Lodwick point, Fitzgerald Ghat.

MORINGACEAE
Moringa Lamk.

   M. pterigosperma Gaertner, Fruct. 2: 314, 1791; Nairne, 70; FBI 2: 45; Cooke, 1: 282 (301).
   A cultivated medium-size tree. Pods and leaves used for vegetables and curries.
   FLOWERS: January-April.
   LOCAL NAME: Shevga.

FABACEAE

1. Pods joined ........................................... 2
2. Stamens 5 + 5 in two rows.......................... Smithia
2. Stamens 10, united or 9 + 1 ..................... 3
3. Leaves pinnate ..................................... Zornia
3. Leaves simple or imparipinnate .................... 4
4. Pods turgid ......................................... Alysicarpus
4. Pods flat ............................................ Desmodium
1. Pods not jointed .................................... 5
5. Anthers spicate ...................................... Indigofera
5. Anthers obtuse ...................................... 6
6. Leaflets toothed .................................... Cicer
6. Leaflets entire ...................................... 7
7. Style bearded below the stigma ................... 8
8. Main rachis or entire leaflets modified into tendrils .......... Pismum
8. Main rachis not modified into tendril ............... 9
9. Leaves trifoliolate ................................... 10
10. Stigma oblique ................................. 11
11. Keel spiral ......................................... Phaseolus
   11. Keel not spiral ................................. Vigna
10. Stigma not oblique ................................ 12
9. Leaves imparipinnate consisting more than 3 leaflets .......... Tephrosia
7. Style not bearded below the stigma .................. 12
12. Leaves simple or imparipinnate ..................... 13
13. Anthers not uniform ................................ 14
14. Flowers yellow ..................................... Crotalaria
14. Flowers blue or purple ........................... Mucuna
13. Anthers uniform ................................... 15
15. Leaflets always alternate ......................... Dalbergia
15. Leaflets opposite ................................. 16
16. Pods one seeded ................................... 17
17. Climmers ............................................ Paracalyx
17. Trees ................................................ Pongamia
18. Pods many seeded .................................. 18
16. Pods one seeded ................................... 19
20. Leaves simple ........................................ Nogra
20. Leaves trifoliolate ................................. 21
21. Flowers yellow ..................................... Dumasia
21. Flowers red or purple ............................. 22
22. Climmers ............................................ Canavalia
   23. Trees ............................................... Erythrina
   12. Leaves multifoliolate ......................... 23

Smithia Ait.

1. Calyx rigid with parallel veins ..................... 2
2. Flowers purple .................................. S. purpurea
2. Flowers yellow ..................................... 3
3. Stems with dense spreading bristles ...................... S. setulosa
3. Stems glabrescent .................................. 4
4. Leaves 6-20 mm long, flowers congested at the nodes .............. S. conferta
4. Leaves 25-35 mm long, flowers in lax racemes ........................ S. sensitiva
1. Calyx membranaceous; veins anastomosing ........... 5

This is the only purple flowered Smithia found at Mahabaleshwar or rather in Western India. Frequently seen on rocky slopes along the Yenna lake.

FLOWERS & FRUITS: September-December.
LOCAL NAME: Berki.

2. Smithia setulosa Dalz. in Kew J. Bot. 3: 208, 1851; FBI 2: 149; Dalz. & Gibbs. 63; Birdwood, 407; Nairne 82; Cooke, 1: 337 (359); Santapau, 68.

An erect herb, common in open places. This species is easily identified by large flowers and prominent bristly hairs on the stem.

FLOWERS: September-October;
FRUITS: October-February.

3. Smithia conferta Sm. in Rees, Cycl. 33, no. 2, 1819; Cooke, 1: 336 (358); Santapau, 67.

S. geminiflora Roth, Nov. Pl. sp. 352, 1821.  
S. geminiflora var. conferta Baker, in FBI 2: 149, 1876.

Common in marshy ground. Flowers yellow to saffron coloured.

Wilson point; Lingmala; Near Rippon Hotel.
FLOWERS: September-December;
FRUITS: October-February.


5. Smithia pycnantha Benth. ex Baker, in Fl. Brit. Ind. 2: 150, 1876; Nairne, 82; Cooke 1: 338 (360); Santapau, 68.

Rare species at Mahabaleshwar, though the commonest Smithia down in Konkan. Only one specimen is collected from Chinaman's falls area.

FLOWERS & FRUITS: August-October.

6. Smithia bigemina Dalz., in Kew J. Bot. 3: 208, 1851; Dalz. & Gibbs. 64; FBI 2: 149; Nairne 83; Cooke, 1: 338 (360); Santapau, 68.

Gregarious species forming large carpets of yellow flowers, on open rocky grounds and in rice-fields. The standard petal is streaked with two prominent red lines.

Dhobi falls, Kate’s point, Lodwick point.
FLOWERS: June-October;
FRUITS: September-January.

7. Smithia blanda var. racemosa Baker, in Fl. Brit. Ind. 2: 151, 1876; Birdwood, 407; Cooke, 1: 338 (361); Santapau, 69.

S. racemosa Heyne ex Dalz. & Gibbs. Bombay Fl. 63, 1861.
S. hirsuta Dalz. in Hook. J. Bot. 3: 135, 1851; Dalz. & Gibbs. 63.

Quite frequent in rocky soils and on earthen embankments along the road sides. Collected from Kate’s point.

FLOWERS: September; FRUITS: October.
LOCAL NAME: Mothi Berki.


An erect annual herb 9-20 cm. tall. Stems dichotomously branched. Leaves paripinnately
compound. Inflorescence of terminal and axillary simple racemes. Bracteoles greenish, in unequal pairs. Fruits 3-4 mm. in diameter.
A rare herb among the grasses on open plateaus.
Wilson Point.
FLOWERS & FRUITS: September-October.

**Zornia** Gmel.

1. **Zornia gibbosa** Span. in Linnaea 15: 192, 1841; Santapau, 57.
   
   *Z. diphylla* auct. plur. (non Pers, 1807); Baker, in FBI 2: 147, 1876; Nairne, 81; Cooke, 1: 334; Santapau, 66.
   
   *Z. angustifolia* Graham, Cat. Bombay pl. 48, 1839 (non Smith).
   
   A rare species in waste grasslands and fallow land.
   
   FLOWERS: August-October.
   
   FRUITS: October.
   
   *Specimen Collected*: Laxman (Api. Res. Centre) — s.n.

**Alysicarpus** Neck

1. Leaves orbicular .................. **A. beddomei**
2. Calyx 3-4 mm long, pods 4-6 jointed......
   
   2. Calyx 7-12 mm long; pods 2-4 jointed.....
3. Inflorescence 4-7 cm long.....**A. racemosus**
3. Inflorescence 13-27 cm long..............
   
   .............................. **A. belgaumensis**

   

**Desmodium rotundifolium** Baker, in FBI 2: 172, 1876; Cooke, 1: 357 (381); Santapau, 73.

Very common on grassy hill slopes all over Fitzgerald Ghat, Lingmala, Bhilar.

FLOWERS & FRUITS: October-November.


**Desmodium parviflorum** (Dalz.) Baker, in FBI 2: 172. 1876; Cooke, 1: 358 (381); Santapau, 74, (non Mart. Galeott. 1843).


The species approaches **Desmodium** and Dr. T. Cooke is of the opinion that this is a link species between **Alysicarpus** and **Desmodium**.

We have not seen specimen of this species from Mahabaleshwar. Lee, in Bombay Gazetteer, vol. 19 reports it from Mahabaleshwar.


**A. belgaumensis** var. **racemosus** Baker, in FBI 2: 160, 1876; Cooke, 1: 330 (373).

Found mixed with **A. belgaumensis** but much less frequent on grassy slopes. Flower colours vary from white to blue.

Yenna lake, Lodwick point, Lingmala, Bhilar.

FLOWERS & FRUITS: October.

4. **Alysicarpus belgaumensis** Wight, Icon. t. 92, 1838; Dalz. & Gibs. 65; FBI 2: 160; Cooke 1: 349 (372); Santapau, 70.

Abundant in open places during monsoon and post-monsoon periods, all over Mahabaleshwar. Flowers blue, or sometimes white.

FLOWERS & FRUITS: September-November.

LOCAL NAME: Dhampta.

**Desmodium** Desv.

1. Leaves unifoliate, petiole winged .................. **D. triquetrum**
2. Erect herbs .......................... **D. laxiflorum**
2. Trail ing herbs .......................... **D. triflorum**

1. **Desmodium laxiflorum** DC. in Ann. Sci. nat. (Paris) ser. 1, 4: 100, 1825; Prodr. 2: 335, 1825; FBI 2: 164; Cooke, 1: 353 (376); Santapau, 71.
D. recurvatum Graham, ex Wight, Icon. t. 374, 1840.

Hedysarum recurvatum Roxb. Fl. Ind. 3: 358, 1832.

H. diffusum Roxb. l.c. (non Willd., 1802). Frequent on hill slopes along Fitzgerald ghats.

FLOWERS & FRUITS: August-December.

2. Desmodium triflorum (Linn.) DC. Prodr. 2: 334, 1825; Graham, 49; Dalz. & Gibs. 67; FBI 2: 173; Cooke, 1: 355; Santapau, 72.

Hedysarum triflorum Linn. Sp. Pl. 749, 1753.

Weed in cultivated fields and in waste-lands.

FLOWERS & FRUITS: August-December, sometimes in hot seasons.

LOCAL NAME: Ran Methi.

3. Desmodium triquetrum (Linn.) DC. Prodr. 2: 326, 1825; FBI 2: 163; Graham, 49; Dalz. & Gibs. 66; Nairne 84; Cooke, 1: 355 (378); Santapau, 72.

Hedysarum triquetrum Linn. Sp. Pl. 746, 1753.

At the foot of the Fitzgerald Ghat among grass.

FLOWERS & FRUITS: August-December.

Indigofera Linn.

1. Leaves simple ....................... I. dalzellii
2. Leaves compound ............... I. cassioides


I. triquetra Dalz. in Hook. Kew J. Bot. 2: 36, 1850; (non May 1836); Dalz. & Gibs. 58; FBI 2: 93.

A prostrate herb among the grasses at Bhilar.

FLOWERS: July-September.

FRUITS: October-November.


I. pulchella auct. (non Roxb., 1832); Dalzell & Gibson, Bombay Fl. 60, 1861; Lisboa, 212; Birdwood, 407; Nairne, 79; Cooke, 1: 320 (341).

I. gibsonii Graham, Cat. Bombay Pl. 46, 1839.

Common shrub along the edges of forests and on exposed slopes of hills. The stem is often covered with galls with soft velvety covering of a purple colour.

Lingmala, Bhilar, Fitzgerald Ghat, Kelgar Ghat.

FLOWERS: October-January.

FRUITS: December-April.

LOCAL NAME: Narda.

Cicer Linn.


Cultivated and mostly used for local sale of raw green fruits. Cultivation begins with starting of hot season.

LOCAL NAME: Chana, Harbhora.

Pisum Linn.


Extensively cultivated at Mahabaleshwar for its fruits which form an article of major trade to the markets of Bombay and Pune.

FLOWERS: September-December.

FRUITS: October-December.

LOCAL NAME: Matar, Vatani.

Phaseolus Linn.

1. Phaseolus khandalensis Santapau, in Kew Bull. 276, 1948; Santapau, 68.
**Flora of Mahabaleshwar**

1. *Crotalaria mysorensis* Roth, Nov. PI. Sp. 338, 1821; FBI 2: 202; Nairne, 89; Cooke, 1: 375 (400); (non Wall. 1832, nec Bentham 1844).
   A rare species. The pods are eaten by local people.
   **FLOWERS:** September-October.
   **FRUITS:** October-November.

   *P. sublobatus* Roxb. Fl. Ind. 3: 288, 1832; Cooke, 1: 373 (402).
   *P. trinervius* Heyne ex Graham, Cat. Bombay Pl. 51, 1839; Dalz. & Gibbs. 71; FBI 2: 203; Birdwood, 407; Nairne, 89.
   Cultivated; the source of the pulse, Mung, of commerce.
   **FLOWERS:** September-October.
   **FRUITS:** October-December.

   Lima bean of commerce. Cultivated at Chinaman’s falls.
   **FLOWERS & FRUITS:** October-March.

**Vigna Savi**

   *V. capensis* Walp., in Linnaea, 13: 533, 1839; Cooks, 1: 379 (404); Santapau, 80.
   Common in undergrowth, especially noticeable during the middle of the monsoon season.
   Kate’s point, Chinaman’s falls, Wilson point, Dhobi’s falls, Lingmala.
   **FLOWERS:** August-October.
   **FRUITS:** October-November.
   **LOCAL NAME:** Halunda.

**Sphenostylis E. May**

   *Dolichos bracteatus* Baker, in FBI 2: 210, 1876; Cooke, 381 (406).
   Common and prominent during monsoon along the Fitzgerald Ghat, climbing on bushes of the forest edges.
   **FLOWERS:** August-September;
   **FRUITS:** September-October.

**Tephrosia Pers.**

   *T. tinctoria* var. *intermedia* Baker, in FBI 2: 112, 1876; Cooke, 1: 324.
   Frequent at Bhilar in grasslands and in the woods between Mahabaleshwar and Panchgani.
   **FLOWERS & FRUITS:** October-December.
   **LOCAL NAME:** Guli.

**Crotalaria Linn.**

1. Pods glabrous ........................................... 2
2. Stipules present ........................................ 3
3. Stem terete, not striate or fluted ..................... *C. mysorensis*
4. Stem fluted and subglabrous .......................... *C. retusa*
2. Stipules absent ......................................... 4
3. Pods distinctly exerted ..................................5
5. Prostrate or erect herbs ............................... 6
6. Corolla exerted ...................................... *C. filipes*
7. Corolla not exerted ................................... *C. vestita*
5. Shrubs or undershrubs ................................. *C. albida*
4. Pods included or scarcely exerted .................. *C. nana*
1. Pods silky or hairy ................................... 7
7. Erect or trailing herbs ............................. *C. triquetra*
7. Shrubs or undershrubs ............................. *C. juncea*
1. *Crotalaria mysorensis* Roth, Nov. Pl. Sp. 338, 1821; FBI 2; 70; Cooke, 1: 294 (314); Santapau, 61.

Frequent in exposed situations on the Fitzgerald Ghat and on way to Panchgani. Flowers yellow. The whole plant is covered with brownish shining tomentum.

**FLOWERS & FRUITS:** October-November.

2. *Crotalaria retusa* Linn. Sp. Pl. 715, 1753; FBI 2; 575; Birdwood, 407; Nairne 75; Cooke, 1: 299 (318); Santapau, 62.

*C. leschenaultii* Graham Cat. 44, 1839 (non DC. 1824); Dalz. & Gibbs 54; Lisboa, 211; Birdwood, 407.

The commonest and most showy species belonging to the genus at Mahabaleshwar. Flowers bright yellow.

Lodwick point, Madhu Kosh, Lingmala, Bhilar, Chinaman's falls.

**FLOWERS:** September-December.

**FRUITS:** December at times up to April.

3. *Crotalaria filipes* Benth. in Hook. London J. Bot. 2: 475, 1843; Dalz. & Gibbs 56; FBI 2; 66; Cooke, 1: 292 (312); Santapau, 60.

A spreading herb producing tiny multicoloured flowers. Usually found mixed among the grasses in open grasslands.

**FLOWERS:** September-December.

**FRUITS:** December-February.

4. *Crotalaria vestita* Baker, in Fl. Br. Ind. 2: 67, 1876; Birdwood, 407; Cooke 1: 293 (313); Santapau, 61.

Occasional among the grasses. Collected from Elephinstone point.

**FLOWERS & FRUITS:** October-January.

5. *Crotalaria albida* Heyne ex Roth., Nov. Pl. Sp. 333, 1821; FBI 2; 71; Cooke 1: 295 (315); Santapau, 62.

*C. epunctata* Dalz. in Kew J. Bot. 3: 210, 1851, Dalz. & Gibbs 56.

Frequently seen among the undergrowth of forest along Fitzgerald Ghat.

**FLOWERS & FRUITS:** October-December.

6. *Crotalaria nana* Burm. f. Fl. Ind. 156, t. 48, f. 2, 1768; Dalz. & Gibbs 56; Birdwood, 407; Cooks, 1: 296 (315); Santapau, 62.

*C. umbellata* Wight ex Graham Cat. Bombay pl. 45, 1839; Dalz. & Gibbs 56.

Found on the grassy slopes of higher elevations. In vegetative conditions it resembles *C. mysorensis*.

Lingmala, Canaught peak, Bhilar.

**FLOWERS & FRUITS:** September-October.

7. *Crotalaria triquetra* Dalz. in Hook. Kew. J. Bot. 2: 34, 1850; Dalz. & Gibbs 56; Birdwood, 407; Cooke, 1: 295 (314); Santapau, 61.

Stems and branches triquetrous. Frequently seen among the grasses between Mahabaleshwar and Panchgani.

**FLOWERS & FRUITS:** December at times up to April.

**LOCAL NAME:** Ghati.

8. *Crotalaria juncea* Linn. Sp. Pl. 714, 1753; Dalz. & Gibbs 54; FBI 2; 79; Nairne 76; Cooke 1: 301 (320); Santapau, 63.

Frequently seen growing among the grasses. The shining golden silky hairs aid the identification of this species. Cultivated for fibre and for green manure.

**FLOWERS:** October-December;

**FRUITS:** January-February.

**LOCAL NAME:** Sunn.

*Mucuna* Adans.

1. Pods obliquely plaited, one seeded............

.............................................. *M. monosperma*

1. Pods not plaited, 4-6 seeded.............. *M. prurita*

1. *Mucuna monosperma* DC. Prodr. 2: 406, 1825; Dalz. & Gibbs 70; FBI 2: 185; Nairne 87; Cooke, 1: 364 (388).

In dense jungle of Fitzgerald Ghat, climbing over small trees. The fruits are covered pro-
fusely with golden to reddish stinging hairs. The fruit surface is reticulately plaited or with ridges.

**FLOWERS:** November-December.

**FRUITS:** December.

**LOCAL NAMES:** Mothi Kuvli, Iona garvi.


Found only at the foot of Fitzgerald Ghat.

**FLOWERS & FRUITS:** August-December.

**LOCAL NAME:** Kavach, Kuili.

*Dalbergia* Linn.

1. Erect trees...................... *D. latifolia*

1. Scandent or climbing shrubs...................... *D. sympathetica*

1. *Dalbergia latifolia* Roxb. Pl. Cor. 2: 7, t. 113, 1798; Graham, 55; Dalz. & Gibs. 77; FBI 2: 231; Birdwood, 407; Nairne, 92; Cooke, 1: 396 (422); Santapau, 85.

A rare tree at Lingmala.

**FLOWERS:** October-April.

**FRUITS:** March-May.

2. *Dalbergia sympathetica* Nimmo ex Grah., Cat. Bombay Pl. 55, 1839; Dalz. & Gibs. 78; FBI 2: 234; Birdwood, 407; Nairne 92; Cooke, 1: 398 (424); Santapau, 85.

Frequent near the foot of Fitzgerald Ghat.

**FLOWERS:** November-January.

**FRUITS:** December-March.

**LOCAL NAME:** Pudgul.

*Paracalyx* Ali


*Cylista scarsosa* Roxb., Corom. Pl. 5 (1): 64, t. 92, 1795; Graham, 54; Dalz. & Gibs. 74; FBI 2: 219; Birdwood, 407; Nairne, 91; Cooke, 1: 386 (412); Santapau, 84.

Frequent on the hill-slopes and along the Fitzgerald Ghat.

**FLOWERS:** November-February.

**FRUITS:** January-April.

*Pongania* Vent.


*Cyrisus pinnatus* Linn. Sp. Pl. 741, 1753.

*P. glabra* Vent. Jard. Mal. 1: 28, t. 28, 1803; Graham, 53; Dalz. & Gibs. 77; FBI 2: 240; Lisboa, 212; Birdwood, 407; Cooke, 1: Nairne 92; 402 (429).

Introduced tree at Mahabaleshwar, but it is not well established in this area.

**FLOWERS:** June-September and January-April.

**FRUITS:** September-November and March-May.

**LOCAL NAME:** Karanj.

*Flemingia* Ait. (nom. cons.)

1. Shrubs or undershrubs............. *F. strobilfera*

1. Trailing herbs .................. *F. neilgheriensis*

1. *Flemingia strobilfera* (Linn.) R. Br. ex Ait., Hort. Kew. 2: 4: 350, 1812; Graham, 51; Dalz. & Gibs. 75; FBI 2: 227 (excl. vars.);

Birdwood, 407; Cooke, 1: 390 (416).


*Maughania strobilfera* (Linn.) St. Hill ex Li, in Arn. J. Bot. 31: 227, 1944; Mukherjee, J. Bot. Soc. Bengal, 6: 10, 1952; Santapau, 84.

Usually common in shady undergrowth of the forests.

**FLOWERS & FRUITS:** December-April.


FLORA OF MAHABALESHWAR

Rather rare in rocky ground near the park and on slopes near the lake.

*Atylosia Wight & Arn.*

1. Leaves obovate .................. *A. lineata*
1. Leaves linear-oblong-elliptic ........... *A. sericea*

1. *Atylosia lineata* Wight & Arn. Prodr. 258, 1834; FBI 2: 213; Lisboa, 212; Birdwood, 407; Nairne 90; Cooke, 1: 382 (408); Santapau, 83.

A. *lawii* Wight, Icon. t. 93, 2838; Graham, 53; Dalz. & Gibs. 74: Lisboa, 212.
Fairly common on open slopes along Lingmala and on way to Panchgani.

**Distribution:** Bhilar, Lingmala.
**FLOWERS & FRUITS:** January-May.

2. *Atylosia sericea* Benth. ex Baker, in Fl. Brit. Ind. 2: 213, 1876; Birdwood, 407; Cooke, 1: 383 (408); Santapau, 83.

A gregarious shrub growing on open grasslands between Mahabaleshwar and Panchgani and also at Lingmala.

**FLOWERS & FRUITS:** October-April.
**Spec. seen:** L. J. Sedgwick—4744.

*Nogra Merr.*

1. *Nogra simplicifolia* (Dalz.) comb. nov.
_Galactia simplicifolia_ Dalz., In Kew J. Bot. 3: 209, 1851; Dalz. & Gibs. 69.
A rare species found among the forest undergrowth.

**FLOWERS & FRUITS:** September-October.

*Dumasia DC.*


*D. congesta* Graham ex Wight & Arn., Prodr. 206, 1840.
Rather rare species occasionally found on exposed rocky grounds or in grasslands.

*Canavalia DC.*


**Lablab microcarpus** DC. Prodr. 2: 402, 1825.


*C. enciformis* Baker var. _turgida_ Baker, FBI 2: 196, 1876; Birdwood, 407.
This species has been reported by Woodrow from Western scrub of Mahabaleshwar, under _C. stocksii_ Dalz. (J. Bombay nat. Hist. Soc. 11: 424, 1897). D. Chatterjee does not recognise this species and prefers to keep it merged under common *Canavalia* found in Western India, which is mentioned above.

**FLOWERS & FRUITS:** October.

*Erythrina Linn.*

1. *Erythrina stricta* Roxb. Fl. Ind. 3: 251, 1832; Graham, 54; Dalz. & Gibs. 70; FBI 2: 189; Cooke, 367 (391); Santapau, 75.

**Micropteryx stricta** Walp. in Linnaea 13: 740, 1839.
There are a few trees along Fitzgerald Ghat.
**FLOWERS:** February-May.
**FRUITS:** June-July.
**LOCAL NAME:** Pangara.

*Derris Loure.*

1. *Derris scandens* (Roxb) Benth. in J. Linn. Soc. 4: suppl. 103, 1860; FBI 2: 240; Nairne, 93; Cooke, 1: 404 (430); Santapau, 87.

**Dalbergia scandens** Roxb. Cor. Pl. 2: t. 102, 1798; Graham, 55.
**Brachypterum scandens** Benth. in Ann. Wien. Mus. 2: 101, 1840; Dalz. & Gibs. 76.
Commonly found near the banks of water springs or near marshy places, in bloom at the beginning of the monsoon.

FLOWERS: June-August.
FRUITS: July-December.
LOCAL NAME: Mothi Sirili.

**CAESALPINIACEAE**

1. Leaves simply pinnate ........................................... 2
2. Leaves stipulate .................................................. 3

2. Corolla with 5 perfect petals .................. Cassia
2. Petals 0 ................................ .................. Saraca
2. Leaves bipinnate or unifoliolate and bilobed ...........

3. Prickly straggler ........................................ Wugatea
3. Trees .................................................. Bauhinia

**Cassia Linn.**

1. Cassia fistula Linn. Sp. Pl. 377, 1753; Graham, 62; Dalz. & Gibbs. 80; Birdwood, 408; Woodrow, 11: 427; Nairne, 96; Cooke, 1: 417 (444); Santapau, 90.

C. rhombifolia Roxb. Fl. Ind. 2: 334, 1832; Wight, Icon. t. 269.

Not a common tree. Often seen in the valleys near human habitation and along the sides of streams. In hot season the tree becomes leafless and bears bright yellow flowers in drooping racemes which make it very conspicuous and attractive.

FLOWERS: March-June.
FRUITS: All round the year.
LOCAL NAME: Bahava.

**Saraca Linn.**

**Saraca asoka** (Roxb.) De Wilde, Blumea 15: 393, 1968.

Jonesia asoca Roxb. in As. Res. 4: 355, 1795; Graham, Cat. Bombay Pl. 62, 1839. Dalz. & Gibbs. 82; Wight, Icon. t. 206, 1839.

Saraca indica (non Linn. Mant. 1: 98; 1767) auct., Bedd., Fl. Sylv. t. 57, 1870; FBI 2: 271; Nairne, 98; Cooke, 1: 429 (456); Santapau, 92.

Cultivated at Dr. Hakim’s Bhilar estate. This is a very beautiful tree.

FLOWERS: March-June.
FRUITS: June-September.

**Wugatea Dalz.**

1. Wugatea spicata Dalz. in Kew Journ. Bot. 3: 89, 1851; Dalz. & Gibbs. 80; FBI 2: 261; Birdwood, 408; Woodrow, 11: 427; Nairne, 96; Cooke, 1: 416 (443); Santapau, 90.

C. digyna Graham cat. 60, 1839 (non Rottl. 1803).

 Armed woody climber, common on the Fitzgerald Ghat, between 6th and 7th milestones. Very attractive when in bloom with yellowish red flowers grouped in conelike spikes.

FLOWERS: December-January.
LOCAL NAME: Wagati.

**Bauhinia Linn.**

1. Leaves less than 3 cm. ............... B. galpinii
1. Leaves more than 3 cm. ............... B. racemosa

1. **Bauhinia galpinii** N. E. Brown, in Garden Chron. 9: 748; 1891.

A shrub with small leaves. Cultivated at Bhilar.

FLOWERS & FRUITS: March-June.

2. **Bauhinia racemosa** Lamk. Encycl. 1: 390, 1783; Graham, 64; Dalz. & Gibbs. 82; FBI 2: 276; Birdwood, 408; Woodrow, 11: 428; Nairne, 99; Cooke, 1: 431 (459); Santapau, 92.

Not common. Few trees are found near Bhilar, between Mahabaleshwar and Panchgani.

FLOWERS: March-June.
FRUITS: November.
LOCAL NAME: Apta.
LOCAL USE: Leaves used locally as bidi wrappers.
MIMOSACEAE

1. Stamens definite 5-10................. Mimosa
2. Stamens indefinite

1. Mimosa Linn.

2. Albizia lucida (Roxb.) Benth. in Hook. Lond. J. Bot. 3: 86, 1844; FBI 2: 299; Cooke, 1: 455 (484); Santapau, 98.

RARELY CULTIVATED IN GARDENS, BUT DOES NOT FRUIT WELL.

Mimosa hamata Willd. Sp. Pl. 4: 1033, 1805; Nairne, 102; Cooke, 1: 442 (471); Santapau, 83.

This species has been included here on the basis of single collection of H. M. Chhiber, on 17th March, 1908. It has not been located by anybody else.

Acacia Willd.

1. Erect trees or shrubs................. A. latronum
2. Climbing shrubs


Mimosa sinuata Lour., El. Cochinch. 653, 1790.

M. concinna Willd., Sp. Pl. 4: 1039, 1805. A. concinnum (Willd.) DC, Prodr. 2: 464, 1825; Graham, 59; Dalz. & Gibson, 87; FBI 2: 296; Birdwood, 408; Nairne, 104; Cooke, T. 1: 450; Santapau, 96.

Acland in his manuscripts has noted this species from Chinaman’s falls. This straggling climber is commonly met with on the lower ghats.

FLOWERS: March-July.
FRUITS: Most of the year.
LOCAL NAME: Chikakhai.

2. Acacia latronum Willd. Sp. Pl. 4: 1077, 1805; Graham, 58: Dalz. & Gibs. 87; FBI 2: 296; Woodrow, 11: 492; Nairne, 103; Cooke, 1: 449 (478).

Included here on the basis of specimen collected by H. M. Chhibber (deposited at B.S.I.).

3. Acacia pennata Willd. Sp. Pl. 4: 1090, 1805; Nairne, 104; Cooke, 1: 451 (480); Talbot, 1: 494.

RATHER RARE SPECIES, OCCURS ALONG THE FITZGERALD GHAT.

FLOWERS & FRUITS: June-August.

4. Acacia torta (Roxb.) Craib. in Kew Bull. 410, 1915; Santapau, 97.


This is the commonest Acacia at Mahabaleshwar and has been identified as A. intisla, in some of the previous works. Lingmala, Bhilar, Chinaman’s falls, Fitzgerald Ghat.

FLOWERS: April-November.
FRUITS: April-January.
LOCAL NAME: Chilari.
This species is confined to the ravines below old temple.

**Flowers**: May.

**Local name**: Indian Black berry. (Birdwood).

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**2. Rubus nivens** Thunb. Dissert. 9. f. 3, 1781 (non Wall, ex G. Don, 1831).

*R. lasiocarpus* Sm., in Rees. Cyclop. 30: no. 6, 1819; Graham, 64; Wight, Icon. t. 232; Lisboa, 213; Nairne, 106; Cooke, 649 & 1: 460 (489); Birdwood, 13; Puri & Mahajan, 122.

This species is now extensively cultivated in gardens especially near Yenna Lake. Fruits used for preparation of Jam.

**Flowers**: November.

**Common name**: Mahabaleshwar Raspberry.

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**Fragaria Linn.**

**1. Fragaria vesca** Linn. sp. PL 494, 1753.

*Birdwood, 13; Cooke, 462 (492); Puri & Mahajan, 123.*

*F. elatior* Graham, Cat. Bombay PL 64, 1839. (non W. & A. 1834), Nairne, 106.

Very extensively cultivated especially along the banks of Yenna River. Fruits are used for Jam.

**Flowers**: March-June.

**Common name**: Strawberry.

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**Rosa Linn.**


An introduced species of wild rose. Quite common below Yenna lake and on sides of Yenna river.

**Flowers**: Throughout the year.

**Local name**: Junglee gulab.

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**Pyrus Linn.**

**1. Flowers fascicled or subumbellate**

*P. malus* 1. Flowers in few flowered corymbs

*P. communis*

**1. Pyrus communis** Linn. Sp. PL 479, 1753; Cooke, 1: 462 (492); Puri & Mahajan, 123.

This species occurs in cultivation below forest officer's bunglow, near Lingmala, but the fruit size and quality is not good and is of little value.

**Flowers**: March-April.

**Common name**: Pear.

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**2. Pyrus malus** Linn. Sp. PL 479, 1753.

A rarely cultivated tree. Does not bear fruits.

**Flowers**: March-April.

**Common name**: Apple.

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**Crassulaceae**

**Kalanchoe Adans.**

**1. Corolla reddish purple; calyx glabrous, with triangular lobes**

*K. pinnata*

**1. Corolla white; calyx glandular hairy, with lanceolate lobes**

*K. olivacea*


*Cotyledon pinnatum* Lamk. Encycl. 2: 141, 1786.


Quite frequently seen along the edges of forest and on sides of streams.

**Flowers**: January.

**Local names**: Ahiravana-Mahiravana, Zakhamhayat, Panphuti, Ghai-pat, phanphul.

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**2. Kalanchoe olivacea** Dalz. in Dalz. & Gibs. Bombay Pl. 89, 1861.

A rare species on way to Panchgani. Flowers white with a pink tinge on rocky ledges.

**Flowers**: October-December.

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**Pyegeum ceylanicum** Bedd. Fl. Sylv. t. 59, 1870.

**P. wighteanum** Blume, in Flora, 41: 256, 1858.

**Pyegeum gardneri** Hook. f. in FBI. 2: 321, 1878; Nairne, 106; Cooke, 647; Birdwood, 13; Cooke 1: 458 (488); Talbot, 1: 505, tt. 286-7; Puri & Mahajan, 122; Santapau, 399 & 306.

**Pyegeum acuminatum** Graham, Cat. Bombay Pl. 1839 (non Colabr. 1819); Wight, Icon. t. 993.

**Pyegeum zeylanicum** Dalz. & Gibs. Bombay Pl. 89, 1861; (excl. syn.; non Gaertn. 1788); Lee, 19.

A common middle size tree ± 15 m tall. According to the local people the bark of this tree causes itching and produces blisters on human body if used as fire wood.

**Flowers**: November.

**Fruits**: January-February.

**Local names**: Daka, Kaula, Kogal.

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This species is cultivated at Mahabaleshwar. The fruit is used for preparation of Jam and Stew.

**Flowers**: October-November.

**Local name**: Alu.

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**Rhus Linn.**

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**To be continued.**
NEW DESCRIPTIONS

A NEW SPECIES OF HOMALIUM J. ACQ. (FLACOURTIACEAE) FROM BURMA

M. P. Nayar and G. S. Giri

(With a text-figure)

A new species of Homalium from Burma is described and illustrated and a key is presented for the Sect. Pierrae of the genus Homalium.

Homalium burmanicum sp. nov.

Affinis H. grandiflorae, sed foliis lanceolatis, apice foliorum gradatim acuminatis, floribus longe pedicellatis, pedicellis 10-13 (15) mm longis, filamentis staminorum glabris differ!

Arbor. Ramuli teretes, glabri. Folia alterna, 8-13 cm longa, 3-4 cm lata, lanceolata, ad basin subcuneata vel subrotundata apice gradatim acuminata, margine integera, 20-22 nervia, venulis transversis conspicuis, reticulatis, supra et subtusque glabra, nitida, coriacea; petiolus 10-12 mm longus, glaber. Inflorescentia, axillares vel terminales, laxely racemosa 14-15 cm longa, dense brunneo-tomentosa. Flores 6-meri, majusculi, albi (teste collectore); bracteae parvae, deciduae; pedicellus 10-13-(15) mm longus, supra ad medium articulatus, brunneo-tomentosus. Calycis tubus obconicus, 6-lobatus, lobis 8-10 mm longis, 4-4.5 mm latis, ovatolanceolatus, apice acutis, graciliter venatis, dense tomentosis. Petala 6, 8-9 mm longa, 3-3.5 mm lata, ovatolanceolata, apice acuta, puberula. Stamina 60-72, 10-12 singlo petalo opposita, filamentis glabris 6-7 mm longis, antheris 0.5 mm longis. Discus glanduliferus, glandulis 6, bilobis tomentosis, intra sepalum ornatis. Ovarium 5 mm longum, dense tomentosum, 6-8 carinatum, styli 6-8, liberi; stigmate inconspicuo.

Typus: Burma, Tenasserim, Forest Dept. No. 784 (Holotypus CAL).

Trees. Branches terete, glabrous. Leaves alternate, 8-13x3-4 cm, lanceolate, base subrotundate or sub-cuneate, apex gradually acuminate, margin entire, 20-22 nerved, transverse veins conspicuous, reticulate, glabrous, shining; petiole 10-12 mm long, glabrous; Inflorescence, axillary or terminal, laxely racemose, 14-15 cm long, densely brownish tomentose. Flowers 6-merous, white (ex collector); pedicel 10-13-(15) mm long, brownish tomentose, jointed above the middle; bracts small, deciduous. Calyx tube obconical, 6-lobed, sepals 8-10 mm x 4-4.5 mm, ovate-lanceolate, apex acute, finely veined, densely tomentose. Petal 6, 8-9 mm x 3-3.5 mm, ovate-lanceolate, apex acute, puberulous. Stamens 60-72, 10-12 opposite to each petal, filaments glabrous, 6-7 mm long, anther 0.5 mm long. Disc glands 6, bilobed tomentose, opposite to the sepals. Ovary 5 mm long, densely tomentose, 6-8 ridged; styles 6-8, free; stigma inconspicuous.

Distribution: burma: Tenasserim, Forest Dept. No. 784 (Type, CAL); Tavoy, Seimgyi 955 (CAL).

FLORA OF MAHABALESHWAR

This species is confined to the ravines below old temple.

FLOWERS: May.

LOCAL NAME: Indian Black berry. (Birdwood).

2. Rubus nivens Thunb. Dissert. 9. f. 3, 1781 (non Wall. ex G. Don, 1831).

R. lasiocarpus Sm., in Rees. Cyclop. 30: no. 6, 1819; Graham, 64; Wight, Icon. t. 232; Lisboa, 213; Nairne, 106; Cooke, 649 & 1: 460 (489); Birdwood, 13; Puri & Mahajan, 122.

This species is now extensively cultivated in gardens especially near Yenna Lake. Fruits used for preparation of Jam.

FLOWERS: November.

COMMON NAME: Mahabaleshwar Raspberry.

Fragaria Linn.

1. Fragaria vesca Linn. sp. Pl. 494, 1753.

Birdwood, 13; Cooke, 462 (492); Puri & Mahajan, 123.

F. elatior Graham, Cat. Bombay Pl. 64, 1839. (non W. & A. 1834), Nairne, 106. Very extensively cultivated especially along the banks of Yenna River. Fruits are used for Jam.

FLOWERS: March-June.

COMMON NAME: Strawberry.

Rosa Linn.


An introduced species of wild rose. Quite common below Yenna lake and on sides of Yenna river.

FLOWERS: Throughout the year.

LOCAL NAME: Junglee gubab.

Pyrus Linn.

1. Flowers fascicled or subumbellate. ......................... P. malus

1. Flowers in few flowered corymbs. ......................... P. communis

1. Pyrus communis Linn. Sp. Pl. 479, 1753; Cooke, 1: 462 (492); Puri & Mahajan, 123.

This species occurs in cultivation below forest officer’s bungalow, near Lingmala, but the fruit size and quality is not good and is of little value.

FLOWERS: March-April.

COMMON NAME: Pear.


A rarely cultivated tree. Does not bear fruits.

FLOWERS: March-April.

COMMON NAME: Apple.

Crassulaceae

Kalanchoe Adans.


Cotyledon pinnatum Lamk. Encycl. 2: 141, 1786.


Quite frequently seen along the edges of forest and on sides of streams.

FLOWERS: January.

LOCAL NAMES: Aahiravana-Mahiravana, Zackhamayat, Panphuti, Ghai-pat, phanphul.


A rare species on way to Panchgani. Flowers white with a pink tinge on rocky ledges.

FLOWERS: October-December.

(To be continued)

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