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Survey of Different Plants in Kas Pathar Region

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Abstract— Many of the flowering plant which are present in India one of the megadiversity countries in the world with four biodiversity hotspots and three megacentres of endemism. The flora of India shows high diversity in terms of families, genera and species of angiosperms.

Forest plays an important role in the life and economy of the country. Forest has a direct, intimate and profound relationship with the economy of Indian people. This is one of the natural wealth, which is shared by rich and poor. The forest provider's major as well as minor products of commercial importance to local inhabitants. Almost two thirds of over 100 phytogeographically significant species occur on the plateau top; these represent 26 plant families and 43 genera. About 80% of the species are restricted to the upper plateau and its escarpments.

Keywords— Flowering plant, biodiversity hotspots, phytogeographically, natural wealth.

I. INTRODUCTION

The richness of flowering plants makes India one of the megadiversity countries in the world with four biodiversity hotspots and three megacentres of endemism. The flora of India shows high diversity in terms of families, genera and species of angiosperms. ¹

Forest plays an important role in the life and economy of the country. Forest has a direct, intimate and profound relationship with the economy of Indian people. This is one of the natural wealth, which is shared by rich and poor. The forest provider's major as well as minor products of commercial importance to local inhabitants.² Almost two thirds of over 100 phytogeographically significant species occur on the plateau top; these represent 26 plant families and 43 genera. About 80% of the species are restricted to the upper plateau and its escarpments.³

The Western Ghats of India are known to be a major biological hotspot that supports plant diversity and endemism. On the Kas Plateau, a lateritic plateau of the Northern Western Ghats, we examined mesoscale distributions of endemic, rare, or locally significant plant species in forest habitats or on the plateau.³

Kas Plateau is situated atop the Sahyadris near Satara, Maharashtra. The Kas Plateau is one of the important sadas located in Satara district, at an elevation of around 1,213 m. The average height of plateau is 1200 to 1400 meters above the sea level. The Kas pathar is 28 kms away from Satara city

having historical background.¹ Towards the end of the rains in September, the plateau comes to life with various types of flowers that carpet the floor of the plateau. The rainfall received is between 2,000 and 2,500 mm annually.⁵ The total area of 1,792 hectares under the Kas plateau, 1,142 hectares is recorded as Government Forest. "According to a crumbling forest department board at the site, more than 150 types of flower shrubs, grasses, orchids bloom here for a 3-4 week period. Many of these flowers are animal (insect) eaters!!⁴

As per available records with State forest department of Maharashtra and botanical survey report, more than 850 types of plants, 156 families, 680 genera, 1452 species and 400 medicinal plants are recorded in the study region of Maharashtra. In addition to this species 38 species (6%) out of 624 endangered species recorded in 'Red data book' are also growing on Kas plateau.⁵

The plateau is full of wild flowers during the months of August and September. These flowers bloom on their own and stay for about 2–3 weeks (depending on the monsoon and other weather factors). Recently it has been declared as Biodiversity World heritage site by the United Nations Educational Scientific and Cultural Organization (UNESCO).

Kas is home to the "Impatience lawii', balsamina, dalzelii, oppositifolia, Pulcherrima, acaulis etc and also Indigofera dalzellii and linifolia, and Limnophila aquatica Flowers.⁴

This study includes survey of different plants in Kas pathar region.

Sr. No.	Plant name	Local Name	Family
1	Senecio grahmii(Old name) Senecio Bombayensis Blatt. (New name)	Sonki	Astreaceae
2	Adenoon indicum	Motha Sonki	Asteraceae
3	Ceropegia jainii Ansari & B. G. Kulk	Jaini Kharchudi	Apocynaceae
4	Aponogeton satarensis sundararagh	(Vautara) y-tura	Aponogetonaceae
5	Arisaema murrayi	Pandhra sap-kanda	Araceae
6	Ceropegia vincaefolia	Kandal kharchudi	Asclepiadaceae
7	Ceropegia media	Medi Kharchudi	Asclepiadaceae
8	Dipcadi montanum	Deepkadi	Asparagaceae
9	Impatiens Lawii Hook f. & thom	Jambhla terda	Balsaminaceae
10	Impatiens dalzellii	Pivla terda	Balsaminaceae
11	Impatiens acaulis	Pan terda	Balsaminaceae
12	Impatiens oppositifolia	Lal terda	Balsaminaceae
13	Paracaryopsis coelestina	nisurdi	Boraginaceae
14	Begonia crenata	Berki, Motiyen, Kapru	Begoniaceae
15	Murdannia lanuginosa	Abolima	Commelinaceae



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16	Murdannia simplex	Nilima	Commelinaceae
17	Cyanotis tuberosa	Abhali	Commelinaceae
18	Iphigenia stellata	gulabi bhuichakra	Colchicaceae
19	Trichosanthes tricuspidata	Kaundal	Cucurbitaceae
20	Ipomoea barlerioides	Pink Morning Glory	Convolvulaceae
21	Drosera Indica	Gavati Davbindu	Droseraceae
22	Drosera burmannii	Davbindu	Droseraceae
23	Dioscorea bulbifera	Dukkar Kand	Dioscoreaceae
24	Flemingia strobilifera	Kanphuti, Nundar	Fabaceae
25	Smithia hirsute / hirsuta	Kavala	Fabaceae
26	Swertia densifolia	Kawadi	Gentianaceae
27	Exacum tetragonum	Udi chirayat	Gentianaceae
28	Pogostemon deccanensis	Jambhli Manjiri	Lamiaceae
29	Chlorophytum glaucoides	kapar musali	Liliaceae
30	Nymphoides indica	Kumudini	Menyanthaceae
31	Memecylon umbellatum	Anjan	Melastomataceae
32	Habenaria grandifloriformis	Ashadh habe-amri	Orchidaceae
33	Habenaria heyneana	Kangwa Habe-amri	Orchidaceae
34	Habenaria longicorniculata	Sheput habe-amri	Orchidaceae
35	Hitchenia caulina	Tikhur	Zingiberaceae
36	Ceropegia oculata (Hook.)	Mor Kharchudi	Apocynaceae: Asclepidoideae



Senecio grahmii

Kingdom:-Plantae. Phylum: - Spermatophyta. Class: - Magnoliopsida. Order: - Asterales. **Botanical name:** Senecio

grahamii. Synonyms: Senecio bombayensis,

Senecio reticulatus. Marathi: Sonki Family: Asteraceae. (Sunflower family)

It is an erect branched annual herb, growing to 30-100 cm high. Alternately arranged, rhomboid, coarsely toothed leaves are 3-10 cm long. Golden yellow flower-heads are 1-2 cm across. Ray-flowers ("petals") are 10-15 in number, linear oblong. Disk flowers are also yellow, but in a darker shade.





Kingdom: - Plantae. Phylum: - Spermatophyta. Class: - Magnoliopsida. Order: - Asterales. **Botanical name:** Adenoon

Common name: Blue Sonki. Marathi: Motha Sonki. Family: Asteraceae. (Sunflower

family)

Blue Sonki an erect branched plant, half a meter tall. Alternately arranged, stalkless, broad-elliptic leaves, 5-8 cm long, are acute at both ends. Leaf margin is coarsely serrated, rough, and glandular. Leaves are light green above, pale beneath. Blue-purple flower-heads occur in corymbose panicles 10-20 cm. Bracts oblong, hairy, nerves 3 pairs, grandular; style arms hairy.

Ceropegia jainii Ansari & B. G. Kulk



Botanical name: Ceropegia jainii. Synonyms: Ceropegia prainii. Common name: Ceropegia jaini. Marathi: Jaini Kharchudi. Family: Asclepiadaceae. (Milkweed family)

Jaini Ceropegia is a very rare and threatened herb, endemic to the Sahyadri Hills. It is a small erect herb, 10-20 cm high, with tuberous root. Tubers are hairless; 2-3 cm, slender stem is green with oppositely arranged leaves. Leaves are linear-lanceshaped, 2-5 cm long, hairy on both sides, margins with stiff hairs. Flowers occur singly in leaf axils. Slender flower-stalks are 6-10 mm long. Sepals are lance-shaped, 3-5 mm. Flowers are 2 cm long, tubular, with the tube enlarged at the base and white. Five narrow linear petals are 1 cm long, reddish-purple, and hairy at the base. Sometimes the flower is completely purplish-red.8



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Aponogeton satarensis sundararagh



Kingdom: - Plantae.
Phylum: - Tracheophyta.
Class: - Liliopsida.
Order: - Najadales.

Botanical name: Aponogeton

satarensis.

Common name: Satara Aponogeton.

Aponogeton.

Marathi: y-tura.

Family: *Aponogetonaceae*. (Cape-pondweed family)

Satara Aponogeton is an aquatic herb 16-22 cm long. Leaves are green, lanceshaped, 3.5-8.5 cm long, 0.5-1.4 cm broad. Flowers are borne in pink-purple slender spikes.⁹

Arisaema murrayi



Kingdom:-Plantae.
Phylum:-Magnoliophyta.
Class: - Liliopsida.
Order:-Alismatales.
Genus:-Arisaema.

Botanical name: Arisaema

murrayi.

Common name: Murray's Cobra

Lily.

Marathi: Pandhra

sap-kanda.

Family: Araceae. (Arum family)

Murray's Cobra Lily is a species of Cobra Lily found in the Western Ghats. It is a tuberous herb, 30-50 cm high. A single leaf, with 5-7 leaflets, comes out after the flowers. The inflorescence is typical of the cobra lily plants. The spathe (or the "hood") is 5-15 cm, forming wide tube at the base; the upper part of the spathe is white with purple base. The lower part is green. A deep purple threadlike appendage comes out from the spadix. It is curved and protrudes out of the "hood". Minute flowers reside on the spadix, covered by the spathe. ¹⁰

Ceropegia vincaefolia



Kingdom: - Plantae. Class: - Magnoliopsida. Order: - Gentianales. Genus: - Ceropegia. Botanical name: Ceropegia

otanicai name: Cerop

vincifolia.

Common name: Vinca-Leaved

Ceropegia.

Marathi: Kandil Kharchudi. Synonym: Ceropegia hirsuta var.

vincifolia.

Family: Asclepiadaceae. (Milkweed family)

Vinca-Leaved Ceropegia is a herbacious climber with flattened tuber. Stems are twining, hairless. Leaves are ovate with a heart-shaped base and long-pointed tip, with upper surface hairy. Flowers are borne in many-flowered clusters carried on hairy stalks. Flower-stalks are hairless. Flowers are 3-8 cm long, yellowish, with a swollen ovoid portion occupying the lower 1/3rd or 1/4th part of the flower-tube. Sepals are linear. Flower tube has purple stripes in the upper half, widening in a funnel-shaped manner towards the mouth. The tube open into 5 petals, 1.5-3.5 long, linear from a triangular-ovate base, pointed at the tip, fused into a narrow ovoid cage. Petals are folded back along the mid-rib, inside velvety, with hairy margin, lower half pale green, upper half dark green.¹¹

Ceropegia media



Botanical name: Ceropegia

media.

Common name: Medium

Ceropegia.

Marathi: Medi Kharchudi. Family: Asclepiadaceae. (Milkweed family) Medium Ceropegia is a slender twinning climber 1-2 m long. Stems are slender, purple, and root tuberous. Oppositely arranged leaves are narrowly linear, lanceshaped, 5-15 cm long. Leaves are hairy with a rounded base. Flowers arise in leaf axils in clusters of 2-4. The stalk carrying the cluster is 2-4 cm long. Flower-stalks are 1-2 cm long, hairy. Flowers are 2-3 cm long, with a 2 cm long tube, slightly inflated at the base. The tube enlarges at the top, to a purple mouth. The petals at the top are purple, 1 cm long. ¹²



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Dipcadi montanum



Botanical name: Dipcadi

montanum.

Common name: Katuvengain.

(Tamil)

Marathi: Dipcadi, Deepkadi. Family: Asparagaceae (Asparagus

family)

Dipcadi is an erect bulbous herb, 20-30 cm tall. Bulbs are spherical, 2.5 cm across. Leaves are narrow, linear, 25-30 cm long, with a sharp tip. Flowers are greenish white. Petals (rather perianths) are in two whorls of 3 each. Outer "petals" are longer, curved outwards. Inner "petals" are shorter. Stamens are 6 in number, attached to the "petals". 13

Impatiens Lawii Hook f. & thoms



Kingdom: - Plantae. Phylum:-Magnoliophyta. Class: - Magnoliopsida. Order:-Geraniales. Genus: - Impatiens.

Botanical name: Impatiens

lawii.

Common name: Law's Balsam.

Marathi: jambhla terada.

Family: Balsaminaceae.

(Balsam family)

Law's Balsam is an annual herb, 10-30 cm tall. Short, succulent stem is swollen at the nodes, and sports many slender branches. Oppositely arranged, stalk less leaves are shortly oblong, sharp tipped, 2-3 cm long. The leaf margins have spiny teeth. Upper leaves are smaller, heart-shaped and stem-clasping. Violet purple flowers occur singly in leaf axils, and are 6-8 mm across. Filament-like flower-stalks are 2-3 cm long. The standard petal is circular. Unlike most balsams, the spur is absent. Capsules are narrow, 1 cm long. ¹⁴

Impatiens dalzellii



Botanical name: Impatiens

dalzellii.

Common name: Dalzell's Yellow

Balsam.

Marathi: Pivla terda.

Family: Balsaminaceae. (Balsam

family)

It is an annual herb, growing to 1-1.5 ft tall. Stem are erect, succulent, swollen at the nodes. Alternately arranged lance-shaped leaves, 5-12 cm long, are pointed and have serrated margin with spines in the teeth. Base of the leaves is heart-shaped. While the lower leaves have a short stalk, the upper ones are stalkless. Yellow flowers occur singly in the upper leaf axils. They are 1-1.5 cm across. Sepals are linear and the standard petal is hooded, winged on the back. Lip is boat-shaped, streaked with red veins. The spur is short. Capsules are 1-1.5 cm long. Dalzell's Yellow Balsam is endemic to Western Ghats. 15

Impatiens acaulis



Kingdom: - Plantae.
Phylum: - Spermatophyta.
Subphylum: - Angiospermae.
Class: - Magnoliopsida.
Order: - Geraniales.
Botanical name: Impatiens

acaulis.

Common name: Rock Balsam. Marathi: Pan terda (Marathi),

Lahan-Tirda.

Family: Balsaminaceae. (Balsam

family)

Pan Terda is a perennial herb commonly found gregariously growing on rock. Leaves vary in size and shape - oblong, base rounded, irregularly toothed. Beautiful pink flowers occur in racemes 3-10 cm long. There are four "petals" visible to the eye, but technically there are only 3 petals. The front one is short and insignificant. The two petals at the back are long and deeply 2-lobed. The flowers color varies from a delicate light pink to deep pink. The petals are white near the base. The usual balsam "spur" is slender, long and curved. ¹⁶



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Impatiens oppositifolia



Kingdom: - Plantae. Phylum:-Spermatophyta. Subphylum:-Angiospermae. Class:-Magnoliopsida. Order:-Geraniales. **Botanical name**: Impatiens

oppositifolia. Synonyms: Impatiens

rosmarinifolia. Common name: Rosemary Leaved

Balsam Marathi: Lal terda.

Family: Balsaminaceae. (Balsam

family)

Rosemary Leaved Balsam is an annual herb, 30-50 cm high. One of its species name rosmarinifolia means having leaves like rosemary. Rosemary is a plant with narrow leaves. The leaves of Rosemary Leaved Balsam are opposite, 3-8 cm, narrow lance like, with spiny teeth. Upper leaves are stalkless, while the lower ones have stalks. Orange-purple flowers, 1-1.5 cm occur in leaf axils either solitary or in groups of 2-3. The standard petals are round. The lip is conical like a hook.1

Paracaryopsis coelestina



Botanical name: Adelocaryum coelestinum

Common name: Common Hill

Borage. Marathi: nisurdi. Synonyms:

Cynoglossum coelestinum, Paracaryopsis coelestina, Paracaryum coelestinum.

Family: Boraginaceae (forget-me-

not family).

Common hill borage is a flower which looks like a beautiful white version of the famous blue Forget-Me-Not. The white or pale blue flowers, 6-10 mm across, have a shape similar to forget-me nots, but have a blue shaded center. It is an erect perennial herb, 1-2 m tall, with red stems and branches. Basal leaves are very large, up to 25 cm long, ovate-heart-shaped, carried on foot long red stalks. Stem leaves are smaller, 5 cm long, carried on short stalks. Flowers are borne in forked racemes on branch ends.

Begonia crenata



Kingdom: - Plantae. Phylum: - Spermatophyta. Class: - Magnoliopsida. Order: - Begoniales.

Botanical name: Begonia crenata.

Common name: Common

Begonia.

Marathi: Berki, Motiyen, Kapru. Family: Begoniaceae. (Begonia

family)

Common Begonia is an annual succulent herb, growing up to 25 cm. It is quite common among forested hilly regions of Western Ghats, and is seen growing on sheltered moss covered rocks, in groups. Slender branches are smooth, succulent and red in color. Alternately arranged ovate, acute leaves with crenate margins, are 3-8 cm long. Leaf base is unequally heart-shaped. Flowers occur on slender stalks. Male flowers are 1 cm across, pink in color, and have 2 petals and 2 sepals. Female flowers have 5 unequal perianth segments. Capsules are 608 mm, 3 winged.1

Murdannia lanuginosa



Botanical name: Murdannia lanuginosa. Common name: Marsh Dew flower, Marsh dayflower. Marathi : Abolima. Family: Commelinaceae. (Dayflower family)

Marsh dewflower is an annual, emergent plant that invades water edges and marshes, often growing emersed. It forms dense mats of vegetation which outcompete native vegetation. Plant stems are succulent, root at the nodes, and grow prostrate along the ground. Leaves are alternate, lance-shaped, and up to 3 inches long. The flowers occur at the ends of the stems or arise from the position between the stems and leaves (leaf axils) Flowers can occur singly or in clusters of 2 to 4. All flowers occur on short flower stalks and consist of 3 purple, blue, pink, yellow, or nearly white petals that are approximately 1/3 inch long.²



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Murdannia simplex



Botanical name: Murdannia simplex (Vahl) Brenan. Synonyms: -Aneilema sinicum Ker-Gawl. Commelina simplex Vahl. Family: Commelinaceae. It is perennial herb, 30-60 cm. Leaves 3-4, mostly basal; lamina up to 20×1 cm, linear, glabrous, but ciliate towards the base; basal part sheathing. Inflorescence bearing scars of early flowers. Flowers opening in late afternoon. Petals 3, equal, obovate, 10 mm. Stamens: 2 upper, fertile and curved downwards, the third sterile; filaments with long purple, beaded hairs. Staminodes 3 with glabrous filaments, the empty anthers yellow and 3-lobed. Capsule oblong-spherical, 6 mm. Seeds oblong-spherical, 1.5 mm, the transverse ribs tuberculate, reticulate. 21

Cyanotis tuberosa



Kingdom: Plantae.
Phylum: Magnoliophyta.
Class: Liliopsida.
Order: Commelinales.
Genus: Cyanotis.
Botanical name:
Cyanotis tuberosa.
Common name:
Greater Cat Ears.
Marathi: Abhali.

Greater Cat Ears.

Marathi: Abhali.

Family: Commelinaceae.
(Dayflower family)

Greater Cat Ears is a succulent herb, 15-90 cm high, growing in forests and hills of the Western Ghats. Stalkless, sheathed leaves 15-25 X 1-2 cm, coming out from the roots. Upper stem leaves are shorter. Bluish purple flowers occur in cymes at the end of branches, enclosed in a pair of ovate, partially folded bracts. There are six stamens with filaments densely bearded with long blue hairs. Yellow anthers are prominent.²²

Iphigenia stellata



Botanical name: Iphigenia

Common name: Star Grass Lily. Marathi: gulabi bhuichakra. Family: Colchicaceae. (Colchicum

family)

Star Grass Lily is a perennial herb which occurs widely in the Western Ghats of Maharashtra. Leaves are narrow, linear, and the flowers are pink, star-shaped, with narrow-elliptic petals.²³

Trichosanthes tricuspidata



Botanical name:

Trichosanthes tricuspidata.
Common name: Indrayan.
Marathi: Kaundal.
Hindi: Mahakal, Indrayan.
Sanskrit: Kakanasa, Shvetpushpi,
Dhyamksanasa

Synonyms:

Trichosanthes palmata, Trichosanthes bracteata, Modecca bracteata. Family: Cucurbitaceae. (Pumpkin family) Indrayan is a large climber, 5-20 m long. It has strong, woody and grooved stem, with trailing branches. Tendrils are divided into 2-3 parts. Leaves are 6-12 cm across, are broadly heart-shaped, but palmately 3-5 lobed. The leaf margin is toothed. Flowers occur either singly or in 5-10 flowered racemes, in leaf axils. Sepal cup is tubular, 3-4 cm long. Flowers 4-5 cm, white, with 5 wedge-shaped petals with frilly margins. Fruit is spherical, 4-5 cm across, red when ripe, streaked with 10 orange streaks.²⁴



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Ipomoea barlerioides



Kingdom: - Plantae.
Phylum: - Spermatophyta.
Subphylum: - Angiospermae.
Class: - Magnoliopsida.
Order:-Polemoniales.
Botanical name:
Ipomoea barlerioides
Common name:
Pink Morning Glory.
Family: Convolvulaceae.
(Morning glory family)

Pink Morning Glory is a slender trailing herb. Alternately arranged leaves are oblong lanceshaped, with a point tip and base somewhat heart-shaped, hairy, 2-5 cm long, and 0.5 cm wide. Leaves are carried on 2-3 cm long stalks. Flowers are pink, funnel-shaped, 2 inches long, arising singly in leaf axils, on 5-6 cm long stalk. Sepals are 5, nearly equal, lanceshaped, 1.5-2.2 cm long, hairy. Fruit is an ovoid capsule, with the persistent sepals, up to 0.5 cm in diameter. ²⁵

Drosera Indica



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Core eudicots. Order: Caryophyllales. Botanical name: Drosera indica.

Genus: Drosera.
Species: Drosera indica.
Family: Droseraceae.

Drosera, commonly known as the sundews, is one of the largest genera of carnivorous plants, with at least 194 species. These members of the family Droseraceae lure, capture, and digest insects using stalked mucilaginous glands covering their leaf surfaces. The insects are used to supplement the poor mineral nutrition of the soil in which the plants grow. Various species, which vary greatly in size and form, are native to every continent except Antarctica. Both the botanical name (from)the Greek $\delta\rho\delta\sigma\sigma\varsigma$: drosos = "dew, dewdrops") and the English common name (sundew, derived from Latin ros solis, meaning "dew of the sun") refer to the glistening drops of mucilage at the tip of each tentacle that resemble drops of morning dew. 26

Drosera burmannii



Kingdom: Plantae.
(Unranked): Angiosperms
(Unranked): Eudicots.
(Unranked): Core eudicots.
Order: Caryophyllales.
Botanical name:

D. burmannii var. dietrichiana

Genus: Drosera.

Species: Drosera burmannii **Family**: Droseraceae.

Drosera burmannii, the tropical sundew, is a small, compact species in the carnivorous plant genus Drosera. It normally spans only 2 cm (0.8 in) in diameter. It is one of the fastest trapping sundews as well, and its leaves can curl around an insect in only a few seconds, compared to the minutes or hours it takes other sundews to surround their prey. In nature, D. burmannii is an annual, but in cultivation, when grown indoors during the cold months, it can live for many years. Since D. burmannii is an annual, it produces large amounts of seed. Drosera burmannii has been considered a power fulrubefacient in Hindu medicine. Drosera burmannii is an herb that produces very short stems and leaves in a rosette. Each wedge-shaped leaf is typically 8–10 mm long and 5–6 mm wide. White flowers are produced in groups of 3 to 10 on 6–15 cm (2–6 in) tall racemose inflorescences, of which there can be one to three per plant.²⁷

Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Monocots Order: Dioscoreales Botanical name: Helmia bulbifera (L.) Kunth, Polynome

bulbifera **Genus**: Drosera.

Species: Dioscorea bulbifera Family: Droseraceae.

Dioscorea bulbifera

Dioscorea bulbifera, the air potato, is a species of true yam in the yam family, Dioscoreaceae. It is known as varahi in Sanskrit, kaachil in Malayalam anddukkar kand in Marathi. In the Maldives it's known as Mathivah, Assidha Kattala or Bileh Kattala. It is native to Africa, southern Asia, India, Maldives, China, Japan, Philippines, Indonesia, etc.) And northernAustralia. It is widely cultivated and has escaped to become naturalized in many regions (Latin America, the West Indies, the southeastern United States, and various oceanic islands).²⁸



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Flemingia strobilifera



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): <u>Eudicots</u>. (Unranked): Rosids Order: Fabales

Botanical name: Flemingia bracteata (Roxb.) Wight, Flemingia

fruticulosa Benth.

Genus: Flemingia

Species: F. strobilifera

Family: Fabaceae

Flemingia strobilifera is a flowering plant in thelegume family, Fabaceae. It belongs to the sub familyFaboideae. Flemingia strobilifera is native to Eastern Asia. It is common in China, Taiwan, Bhutan, India, Nepal, Pakistan, Sri Lanka, Laos, Myanmar; Thailand, Vietnam, Indonesia, Malaysia, Papua New Guinea andPhilippines. [1]

It is known as makhiyoti (মাথিমতী) in the north-eastern Indian state of Assam. It is an essential part of theBihu (গৰু বিহু) festival, during which the cattle are washed and gently beaten with twigs of this plant.²⁹

Smithia hirsute / hirsuta



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Monocots Order: Dioscoreales Botanical name: Helmia bulbifera (L.) Kunth, Polynome

bulbifera **Genus**: Drosera.

Species: Dioscorea bulbifera **Family**: Droseraceae.

Smithia is a genus of flowering plants in the legumefamily, Fabaceae. It belongs to the sub family Faboideae, and was recently assigned to the informalmonophyletic Dalbergia clade of the Dalbergieae³⁰

Swertia densifolia



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Asterids Order: Gentianales Botanical name: C. Marquand

Genus: Swertia
Species: Swertia perennis L.
Family: Gentianaceae

Swertia is a genus in the gentian family containing plants sometimes referred to as the felworts. Some species bear very showy purple and blue flowers. Plants of genus Frasera are sometimes considered part of this genus, sometimes as a separate genus, and sometimes as synonymous³¹

Exacum tetragonum



Kingdom: Plantae.
(Unranked): Angiosperms
(Unranked): Eudicots.
(Unranked): Asterids
Order: Gentianales
Botanical name: • Exacum
axillare

• Exacum bicolor Genus: Exacum

Species: Dioscorea bulbifera **Family**: Gentianaceae

Bicolor Persian Violet is an annual herb, 0.5-1 m high. Stem are quadrangular. Oppositely arranged, stalkless leaves are narrow, elliptic-lancelike or ovate-lancelike, with a sharp tip and rounded base. Flowers are large and showy, occuring in cymes at the end of branches. The four long, ovate sepals are joined together. Flower tube is long, with petals up to 2 cm long, broadly ovate, acute, white below, blue at tips. Stamens 4, filaments equal, short, dilated at base. Flowering: September-December.³²



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Pogostemon deccanensis



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Asterids Order: Lamiales Botanical name: Wensea

J.C.Wendl.
Dysophylla Blume
Genus: Pogostemon
Species: Pogostemon
amaranthoides
Family: Lamiaceae

Pogostemon is a large genus from the family Lamiaceae, first described as a genus in 1815. It is native to warmer parts of Asia, Africa, and Australia. The best known member of this genus is Patchouli, Pogostemon cablin, widely cultivated in Asia for its scented foliage, used for perfume, incense, insect repellent, herbal tea, etc.³³

Chlorophytum glaucoides



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Monocots Order: Chlorophytum Botanical name: Glaucous Chlorophytum

Genus: Chlorophytum Species: Glaucous Chlorophytum Family: Liliaceae Glaucous Chlorophytum is a perennial herb, growing up to 50-80 cm tall. Leaves, arising from the base, are 4-6, 20-30 cm long, 2-4 cm broad, elliptic-lanceshaped, long-pointed, leathery. Leaf margins are not curled. Fragrant white flowers are borne in racemes 20-30 cm long, covered with sheathing scales. Bracts are persistent. Stamens are 6, and the style is slender. Capsule is black, round, 8 mm across. Glaucous Chlorophytum is found in Western Ghats.³⁴

Nymphoides indica



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Asterids Order: Asterales Botanical name: Nymphoides

ndica

Genus: Nymphoides Species: N. indica Family: Menyanthaceae Nymphoides indica is an aquatic plant in the Menyanthaceae, native to tropical areas around the world. It is sometimes cultivated, and has become a minor weed in Florida, where it resembles the nativeNymphoides aquatica. Common names includebanana plant, robust marshwort, and water snowflake. ymphoides indica spreads by rhizomes, forming clusters of leaves, with clustered white flowers about 1cm across. The flowers are sometimes described as having five petals, but can have more. 35

Memecylon umbellatum



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Rosids Order: Myrtales

Botanical name: Memecylon umbellatum

Genus: Memecylon Species: M. umbellatum Family: Melastomataceae. Memecylon umbellatum, commonly known asIronwood, or Alli (Hindi), is a small tree found in India, the Andaman islands and the coastal region of the Deccan. It is also found in Sri Lanka, where it is called Blue Mist, Kora-Kaha (Sinhala language) and Kurrikaya (Tamil language). The leaves contain a yellow dye, a glucoside, which is used for dyeing the robes of Buddhist monks and for colouring reed mats (Dumbara mats). Medicinally, the leaves are said to have anti-diarrhoeal properties³⁶



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Habenaria grandifloriformis



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Monocots Order: Asparagales

Botanical name: Dune orchid Genus: Habenaria

Species: Habenaria amalfitana **Family**: Orchidaceae

Habenaria species have small to large underground root tubers and erect stems 20 to 80 cm (8 to 31 in) in length. Leaves are lanceolate or ovate, and are borne either along the stem (cauline) or only at the base (basal). When basal, leaves lie flat on the ground. Flowers are mostly green, white, yellow and green, or white and green, but a few exceptions have brilliant red flowers. The column is frequently complicated, with long organs sticking out of it (stigma processes, lateral rostellum arms, anther canals). The plant is aperennial deciduous, with the entire above-ground part of the plant dying back each year.³⁷

Habenaria heyneana



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Monocots Order: Asparagales Botanical name: Habenaria

heyneana Genus: Habenaria Species: H. heyneana Family: Orchidaceae Toothbrush Orchid is a terrestrial herb, growing to 10-40 cm tall. The plant has 1-2 ovoid tubers. Alternately arranged narrowly oblong leaves are 2-6 cm long. The inflorescence consists of 2-8 flowers arranged all on one side of an upright stalk. This is what gives it the common name toothbrush orchid. The flowers are greenish white to begin with, and turn yellowish as they age. White petals are 4-7 mm long. The white lip is 5-10 mm, 3-lobed. Spur is linear and 6 mm long. Flowering: August-September.³⁸

Habenaria longicorniculata



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Tracheophyta Order: Asparagales Botanical name: Habenaria longicorniculata Genus: Habenaria

Genus: Habenaria Species: Habenaria longicorniculata Family: Orchidaceae Long-Tailed Habenaria is a 1-3 ft high terrestrial herb. Oblong-elliptic leaves are 3-10, clustered on the base, and lie flat on the ground. Flowers occur on a long erect stalk which is 30-80 cm tall. White fragrant flowers are 1-4 in number. Greenish white petals are 10-14 mm long. Flowers have a spur which is 10-15 cm long! Overall, the flowers have the shape of an inverted funnel. The Nilgiris have 17 species of orchids belonging to the Habenaria genus and it is usual to see hundreds of these, flowering side by side on a single grassy and rocky slope. ³⁹

Hitchenia caulina



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Commelinids Order: Zingiberales

Botanical name: Hitchenia glauca

Genus: Hitchenia Species: Hitchenia caulina Family: Zingiberaceae Hitchenia is a genus of plants in the ginger family. It contains only one recognized species, Hitchenia glauca, endemic to Myanmar (Burma) Indian Arrowroot is a annual herb growing upto 50-100 cm high. The plant has perennial rhizomes with many hanging tubers. Oblong lancelike leaves are upto half a meter long. Flowers occur in a spike 10-15 cm long, and are yellow or white. More prominent are the greenish white or pinkish white bracts. Indian Arrowroot is grown for its tubors. The powder from the root is used to make porridges and eaten during upvas in Kerala.



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Ceropegia oculata (Hook.)



Kingdom: Plantae. (Unranked): Angiosperms (Unranked): Eudicots. (Unranked): Tracheophyta Order: Gentianales Botanical name: Ceropegia

Genus: Ceropegia

Species: Ceropegia oculata Family: Apocynaceae Peacock Ceropegia is a twining herb growing in areas with high rainfall in the western ghats. The leaves are long stalked and lance-shaped to ovate. Flowers are showy. The lower part is quite swollen and takes about a third of the flowers total length. The flower-tube is thin, but broadened upward, coloured pinkish beige with some darker spots. The close-knit petals are very dark ruby-coloured, almost black and show a white stripe in the upper third. The tips are joined and emerald green.⁴¹

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