



# STUDY OF CLIMBER AND CREEPER PLANT SPECIES GROWING IN TALOD TALUKA OF SABARKANTHA DISTRICT, GUJARAT

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## ABSTRACT:

Talod is located at 23°35'N 72°96'E/23°35'N 72°95'E. It has an elevation of 111 meters. Mainly a complete phytodiversity analysis is done in the survey, but in this paper study deals with the climber species only. The present taxonomic account is based on field survey in Talod taluka. The present paper deal with total 48 angiospermic climber species belonging to 36 genera and 16 families. Among them some important species like *Cayratia trifolia* L., *Cissampelos pareira* L., *Merremia aegyptia* (L.) Urb., *Merremia tridentate* (L.) Hall. F., *Canavalia gladiata* (Jacq.) DC., *Ipomoea obscura* (L.) Ker Gawl., *Trichosanthes cucumerina* L., *Cuscuta reflexa* Roxb., *Pentatropis microphylla* W. & A., *Passiflora foitida* L., *Lablab purpureus* (L.) Sw., *Momordica balsamina* L., *Asparagus racemosus* Baker., *Gymnema sylvestre* (Retz.) Schult., *Abrus precatorius* L., *Cardiospermum halicacabum* L., *Zizyphus oenoplia* (L.) Mill., *Dioscorea bulbifera* L. are successfully grown in this Taluka. Various field trips were done in 2018-2019. The botanical descriptions are arranged according to the classification system of Bentham and Hooker.

**KEY WORDS:** Talod taluka, Angiosperms, Climbers, Species, Phytodiversity.

## INTRODUCTION:

There are about 2198 flowering plants belonging to 902 genera and 155 families so far recorded from Gujarat. Gujarat state is endowed with a great diversity of natural ecosystem. The Gujarat state has largest number of big geographically zones amongst the state of India. In Gujarat Talod taluka is located in Sabarkantha district. Talod is located at 23°35'N 72°96'E/23°35'N 72°95'E. In Talod taluka this work is mostly done near the Talod Gam & nearest villages. Talod have rich biodiversity. The total area of Talod is around 435.66 Km<sup>2</sup>. Our work is carried out in Talod taluka. It's have 4-5 ponds, certain Grass land areas, as well as college garden Talod, Talod garden. So in this work we included these area and make field trips for the taxonomical work. In this paper different climber species is present here which recorded during field work.

## MATERIALS AND METHOD:

### Field trips:

The mention investigation was carried out in the year 2019-2020. This work are based on collection from 2019 to 2020 through planned exploration were well organized during the six to seven month.

Regular field trips carried out during this work, during frequently visited different area of Badarpura village.

### Identification:

During collection trips plants were collected in different stages and photographs were taken. Different characters such as habit, habitat, life form, growth form etc, were noted in the field dairy. Plants were identified by using the Flora of Gujarat state (G. L. Shah, 1978), The Flora of Presidency of the Bombay (Cooke, 1958) and other standard books.

For convenience, according to Bentham & Hooker all the selected plants species are arranged and presented with colour photographs, scientific names, local names, families, and morphology is given in the present work.

## RESULTS AND DISCUSSION:

In this survey all the finded climbers are listed and present investigation is arranged according to valid method. All the collected plant specimens were arranged according to the Bentham and Hooker's system of angiospermic classification described in Gujarat flora by G. L. Shah(1978) and Cooke (1958). During the present research work different area of Talod and adjoining place were frequently visited and specimen are collected and identified with the help of literature and flora. A total of 48 selected climber species belonging 36 genera of 16 families were recorded from the study area. Table: 1 show the Sr. no., Botanical name, Family, and common Name. The major families are found to be Convolvulaceae, Papilionaceae, and Cucurbitaceae. Some of the common climbers of this area are *Cissampelos pareirs* L., *Cocculus villosus* DC., *Tinospora cordifolia* (Willd.) Miers., *Ipomoea aquatic* Forsk., *Ipomoea obscura* (L.) Ker Gawl., *Merremia aegyptia* (L.) Urb., *Abrus precatorius* L., *Clitoria ternatea* L., *Pergularia daemia* (Forsk.) Chiov., *Coccinia grandis* (L.) Voigt., *Luffa*

*acutangula* (L.) Roxb. *Var. amara*. (L.) Roxb., *Trichosanthes cucumerina* L., *Cardiospermum halicacabum* L. etc.

whereas some species like *Ceropegia bulbosa* Roxb., *Ipomoea eriocarpa* R. Br., *Ipomoea indica* Stapf., *Merremia quinquefolia* L., *Operculina turpethum*(L.)Silva Manso., *Rivea hypocrateriformis* Choisy., *Gymnema sylvestre* (Retz.) Schult., *Pentatropis microphylla* W. & A., *Passiflora foetida* L., *Asparagus racemosus* Baker., *Cryptolepis buchanani* (L.) R. & S. are found rare in the study area.

## Description:-

### 1.Menispermaceae

**Botanical Name:** *Cissampelos pareira* L.

**Family:** Menispermaceae

**Local Name:** Venivel

**Morphology:** Slender twiners, somewhat woody at base, glabrous but for pubescent younger parts. Leaves 3.4-7 X3.4-8.5 cm, alternate, silky-pubescent beneath, minutely mucronate at apex, petiolate. Flower minute, greenish-yellow, males in 4-10 cm long, axillary panicles, females in 4-15 cm long, pendulous racemes. drupes 0.4-0.6 cm broad, nearly orbicular or ovoid, glabrous or hairy.



**Botanical Name:** *Cocculus villosus* DC.

**Family:** Menispermaceae

**Local Name:** Vevdi

**Morphology:** Scandent, perennial, dioecious herbs, softly villous in younger parts. Leaves 1.5-7x 0.7-4.5cm, alternate, at length glabrous or nearly so. Flowers greenish yellow, yellow. In axillary, cymose cluster. Drupes 0.2-0.4cm across, transversely rugose, deep purple when ripe.



**Botanical Name:** *Tinospora cordifolia* (Willd.) Miers.

**Family:** Menispermaceae

**Local Name:** gado

**Morphology:** Extensive, deciduous twiners; bark grayish-white, lenticellate, grooved. Leaves membranous, broadly ovate to ovate-triangular, glabrous, 5-7 veined, petiolate. Racemes 2-7cm long, axillary or more commonly from leafless branches. Drupes 0.4-0.6 cm across, globose, deep-red, marked with a sub basal style scar.





## 2. Rhamnaceae

**Botanical Name:** *Zizyphus oenoplia* (L.) Mill.

**Family:** Rhamnaceae

**Local Name:** Tankana

**Morphology:** scandent or climbing, armed, shrub, rusty-tomentose in younger parts. Leaves 2-8 x 1.2-4.3 cm, alternate, ovate to ovate-lanceolate, rufous-silky-pubescent beneath. Flowers greenish-yellow, globose, or obovoid, orange-coloured.



## 3. Vitaceae

**Botanical Name:** *Cayratia trifolia* L.

**Family:** Vitaceae

**Local Name:** Khat-khatumbo

**Morphology:** Slender, herbaceous climbers, somewhat woody at base. Leaves glaucous-green, ovate-elliptic or obovate, thinly pubescent. Flower greenish-white, in 4-6 cm broad, branched cymes. Berries globose, glabrous, deep-purple.



## 4. Sapindaceae

**Botanical Name:** *Cardiospermum halicacabum* L.

**Family:** Sapindaceae

**Local Name:** balloon vain

**Morphology:** Slender, glabrous or sparsely hairy herb, with stiff, axillary, 3-fid tendrils. Leaves alternate, petiolate; leaflets 0.6-7.5 x 0.3-1.6 cm, ovate, ovate-lanceolate or elliptic, glabrous or sparsely hairy. Flower white, minute, in terminal cymes on tendrils. Capsule 1.2-2.3 cm broad, trigonously pyriform, bladdery, 3-valved, winged. Seeds globose, smooth, black.



## 5. Papilionaceae

**Botanical Name:** *Abrus precatorius* L.

**Family:** Papilionaceae

**Local Name:** Chanoti

**Morphology:** Perennial, deciduous twiners, woody at base. Leaves 0.5-1.7 x 0.3-0.8 cm, oblong or elliptic-oblong, glabrous above, appressed-hairy beneath. Flowers pinkish-purple or lilac, in 3-7.5 cm long, compact racemes. Pods 2-4 x 0.8-1.5 cm, pubescent, linear-oblong, mucronate. Seeds subglobose, oblong or ovoid, shining, about 2/3 scarlet and 1/3 black, smooth, glabrous.

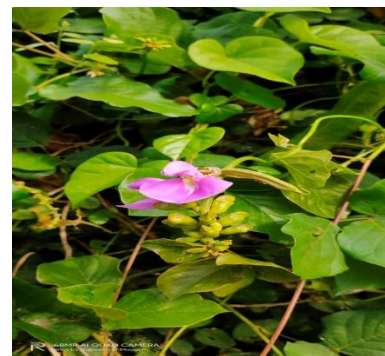


**Botanical Name:** *Canavalia gladiata* (Jacq.) DC.

**Family:** Papilionaceae

**Local Name:** Alad

**Morphology:** A stout, glabrous, lignose twiner. Leaflets 3-13.5 x 1.7-11.5 cm, subcoriaceous, glabrous or nearly so. Racemes, compact at ends of stout, axillary peduncle. Pods glabrous, straight or slightly falcate. Seed ellipsoidal, compressed, smooth, glabrous.



**Botanical Name:** *Clitoria ternatea* L.

**Family:** Papilionaceae

**Local Name:** Aparajita

**Morphology:** Slender, rambling twiners. Leaves 3-5 cm long, alternate; leaflets 7-9, 1-4.8 x 0.7-3.5 cm, elliptic-oblong, ovate-oblong or obovate, glabrescent. Flowers blue or white. Pods linear-oblong, flat, appressed-hairy, slightly falcate. Seed oblong, compressed, yellowish-brown, mottled black, smooth, glabrous.



**Botanical Name:** *Lablab purpureus* (L.) Sw.

**Family:** Papilionaceae

**Local Name:** valod/val

**Morphology:** Extensive twiner. Leaves 2-13 x 1.6-11.5 cm, broadly ovate-rhomboid or elliptic-ovate, at length glabrescent. Flowers white or pale-creamy-yellow, in 10-30 cm long, terminal and axillary racemes. Pods 4-12.5 x 0.4-1 cm strongly falcate, linear-oblong, compressed, glabrous or nearly so. Seeds 0.6-1 x 0.4-0.6 cm, oblong, glabrous, pale yellow when mature.



**Botanical Name:** *Mucuna pruriens* Baker.

**Family:** Papilionaceae

**Local Name:** Kaucha/Kuvesh

**Morphology:** Extensive, lignose, hairy twiner. Leaves 3-foliolate, petiolate; leaflets 4-16 x 2-14 cm, appressedly silky-hairy, ovate-triangular, ovate-lanceolate or ovate-rhomboid. Flowers 2.5-3.5 cm long, in 5-30 cm long racemes. Pods 4.5-8 x 0.6-1.2 cm, 4-6 seeded, sandy brown, densely bristly. Seeds 1.1x0.3 cm, elliptic, compressed, dark brown, spotted black, smooth, glabrous.





**Botanical Name:** *Rhynchosia minima* (L.) DC.

**Family:** Papilionaceae

**Local Name:** Dariavel/Potali

**Morphology:** Trailing or twining, glabrous or hairy herb. Leaflets 1.5-4.5 x 0.4-2.2 cm, broadly ovate-rhomboid or nearly orbiculate, glabrous or nearly so. Flowers reddish-yellow, in 5-12 cm long, axillary, lax racemose. Pods 1-1.5 x 0.4-0.6 cm, obliquely oblong, pubescent, compressed, 2(-1) seeded. Seeds glabrous, dark brown, somewhat compressed.



## 6. Passifloraceae

**Botanical Name:** *Passiflora foetida* L.

**Family:** Passifloraceae

**Local Name:** Jangali krushnkamal

**Morphology:** A slender, herbaceous, tendril climber. Leaves 2-12 x 1.8-10.5 cm, ovate-triangular, ciliate on margins, 3-lobed. Flowers axillary, solitary. Berries 1.5-2.5 cm across, globose, glabrous, orange-red when ripe. Seeds oblong, 4-gonous, deeply pitted on faces, glabrous, pale-to dark-brown.



## 7. Cucurbitaceae

**Botanical Name:** *Coccinia grandis* (L.) Voigt.

**Family:** Cucurbitaceae

**Local Name:** Giloda

**Morphology:** Herbaceous, slender, glabrous climbers. Leaves 2.8-13 x 2.7-11 cm, broadly ovate or ovate-triangular, entire or 3-5 angled or shallowly to deeply lobed, glabrous. Flowers 2-5.5 x 2.5-3 cm, axillary, solitary. Seeds 0.4-0.5 cm long, compressed, oblong, white, glabrous, smooth.



**Botanical Name:** *Cucumis callosus* (Rottl.) Cogn.

**Family:** Cucurbitaceae

**Local Name:** Kothimdu

**Morphology:** Prostrate, scabrid herbs. Leaves 11.5-12 x 1.8-12.5 cm, broadly ovate, ovate-triangular or nearly subglobose, entire, or shallowly 3-5 lobed, scabrid. Flowers axillary, solitary, pedicellate. Berries 2.7-5 x 2.3-4 cm, ellipsoid-oblong, or nearly orbicular, softly echinate, at length smooth, bright-yellow with green-stripes. Seeds ellipsoid-oblong, pale-brown, smooth, glabrous.



**Botanical Name:** *Ctenolepis garcini* (L.) CL.

**Family:** Cucurbitaceae

**Local Name:** -----

**Morphology:** Herbaceous, much branched, slender, glabrous or hairy climber. Leaves 3-4.8 x 2.3-6 cm, petiolate, deeply 3-5 lobed, broadly ovate or orbicular, scabridly hairy. Flowers creamy-white or very pale yellow. Berries 0.6-0.8 cm long, smooth, glabrous. Seeds narrowly ovoid-oblong or cymbiform, flat, pale-brown.



**Botanical Name:** *Luffa acutangula* (L.) Roxb. Var. *amara*. (L.)  
Roxb.

**Family:** Cucurbitaceae

**Local Name:** Jangali turiya

**Morphology:** Slender, glabrous annuals. Leaves 1.5-12.7 x 1.2-12 cm, broadly ovate, entire or 3-7 lobed, membranous, glabrous. Flowers pale-yellow, 2.5-3 cm across. Berries 4-10 x 2-3 cm, ovoid, flat, minutely tuberculate or corrugated.



**Botanical Name:** *Momordica balsamina* L.

**Family:** Cucurbitaceae

**Local Name:** Jangali karela

**Morphology:** Very slender, climbing, glabrous or sparsely hairy herbs. Leaves 3-7 cm across, nearly orbicular, 3-5 lobed, membranous. Flowers bright yellow. Berries 3-6 cm long, broadly ovoid or subglobose, beaked. Seeds grey, ovate, flat, minutely tuberculate.



**Botanical Name:** *Momordica dioica* Roxb.

**Family:** Cucurbitaceae

**Local Name:** Kankoda

**Morphology:** Perennial, trailing or climbing, glabrous herbs. Leaves 3-11 x 3-9.8 cm, broadly ovate, entire or shallowly 3-5 lobed, membranous. Flowers bright yellow, axillary, solitary, pedunculate. Berries 2.5-5 x 1.5-2.6 cm, ovate or obovate, softly echinate. Seeds ovate, flat, smooth, pale-yellow or red.





**Botanical Name:** *Mukia maderaspatana* (L.) M.

**Family:** Cucurbitaceae

**Local Name:** Chanak-chibhadi

**Morphology:** Prostrate or climbing, scabridly hairy, monoecious annuals. Leaves 1.5-9 x 1-8.8 cm, entire or shallowly 3-5 angled or lobed, yellow, male and female in same axil, male pedicellate, female sessile. Berries 0.6-1 cm broad, spherical, glabrous, smooth. Seeds grey or light black, ovoid-oblong, compressed, somewhat wrinkled, scrobiculate.



**Botanical Name:** *Trichosanthes cucumerina* L.

**Family:** Cucurbitaceae

**Local Name:** Jangali parval

**Morphology:** Monoecious, herbaceous, slender, tendrillar climbers. Leaves 8.5-12.5 x 4-14.7 cm, broadly ovate, shallowly to deeply 3-7 lobed. Flowers white, male in 2-4.5 cm long racemes, female solitary, male and female flowers in same or different axils. Berries 3-7 x 2.7-5 cm, glabrous.



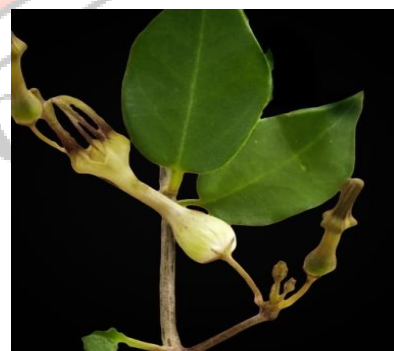
## 8. Asclepiadaceae

**Botanical Name:** *Ceropegia bulbosa* Roxb.

**Family:** Asclepiadaceae

**Local Name:** -----

**Morphology:** Twining, slender, perennial herbs, with an underground tuberous stem. Leaves 2.5-4.5 x 1.5-2.6 cm, orbicular, elliptic-oblong, ovate-oblong or obovate, glabrous. Flowers 6-10, in lateral, umbellate cymes. Corolla 1.5-2 cm long, tube greenish-gray outside; purplish inside, lobes 5, dark purple. Follicles 8.5-9 cm long, glabrous.



**Botanical Name:** *Gymnema sylvestre* (Retz.) Schult.

**Family:** Asclepiadaceae

**Local Name:** Madhunasini

**Morphology:** A much branched twining shrub, with longitudinally fissured, blackish-brown bark. Leaves 2.3-4.5 x 1-2.6 cm, ovate, ovate-elliptic or ovate-oblong, hairy. Flowers minute, greenish-yellow or tinged pink, in lateral, umbellate cymes.





**Botanical Name:** *Pentatropis microphylla* W. & A.

**Family:** Asclepiadaceae

**Local Name:** Nani-dodi

**Morphology:** Twining herbs. Leaves 1.2-2.2 x 0.8-1.2 cm, ovate to ovate-oblong, glabrous. Cymes lateral, umbellate, few flowered. Follicles 2.5-4 x 0.6-0.8 cm, ovate-lanceolate or ovate oblong, thickly margined, glabrous; coma 1.5-2 cm long.



**Botanical Name:** *Pergularia daemia* (Forsk.) Chiov.

**Family:** Asclepiadaceae

**Local Name:** Chamar-dudheli

**Morphology:** Perennial, herbaceous twiner, with milky juice. Leaves 1.8-8.5 x 1.4-9.3 cm, broadly ovate, densely hairy beneath. Flowers creamy-yellow with dark purple spot within at base, in lateral, drooping, umbellate cymes. Follicles 6.5-9 x 1.5-1.8 cm, hairy, lanceolate, softy echinate. Seeds 0.6-0.7 x 0.4-0.5 cm, broadly ovate, velvety-hairy; coma 3-5 cm long.



**Botanical Name:** *Telosma pallid* (Roxb.) Craib.

**Family:** Asclepiadaceae

**Local Name:** Varsha-dodi

**Morphology:** Extensive, twining undershrubs. Leaves 3.8-10 x 2.3-7 cm, broadly ovate or ovate-elliptic, membranous, glabrescent. Cymes lateral, umbellate. Follicles 8-10 x 1.5-2 cm, lanceolate, beaked. Seeds 0.7-0.9 x 0.4-0.5 cm, ovate-oblong, pale brown, with 2-2.5 cm long coma.



## 9. Periplocaceae

**Botanical Name:** *Cryptolepis buchani* (L.) R. & S.

**Family:** Periplocaceae

**Local Name:** -----

**Morphology:** Woody twiner with plenty of latex; bark smooth, dark-brown, peeling off in scales. Leaves 5-18.5 x 2.2-10.5 cm, elliptic to elliptic oblong, glabrous. Cymes terminal and axillary. Follicles 7-10 cm long, narrowly deltoid-conical, glabrous. Seeds 0.5-0.7 cm long, ovate-oblong, compressed; coma 2.5-3.5 cm long, silky hairy.



## 10. Convolvulaceae

**Botanical Name:** *Ipomoea aquatic* Forsk.

**Family:** Convolvulaceae

**Local Name:** Nada-vel

**Morphology:** Perennial, glabrous herbs, rooting at nodes. Leaves 2.2-8.5 x 0.9-4 cm, broadly ovate-triangular, seldom almost linear. Flowers solitary or 3-4 in cymes. Capsule 0.6-0.8 cm long, ovoid, apiculate, glabrous. Seed microscopically hairy.



**Botanical Name:** *Ipomoea cairica* (L.) Sw.

**Family:** Convolvulaceae

**Local Name:** -----

**Morphology:** Evergreen herbs, with watery juice. Leaves 4.5-6 cm broad, deeply 5-7 lobed, broadly ovate or nearly orbicular, glabrous. Flowers in axillary, sub-umbellate cymes. Capsule 1-1.2 cm long, ovoid or subglobose, glabrous.



**Botanical Name:** *Ipomoea eriocarpa* R. Br.

**Family:** Convolvulaceae

**Local Name:** Bodi-fudardi

**Morphology:** Slender, trailing or twining, appressed hairy herbs. Leaves 1.5-9.5 x 0.4-6.5 cm, ovate-oblong or ovate-lanceolate, appressed-hairy. Flowers in axillary cymes. Capsule 0.3-0.4 cm long, ovoid or oblong, glabrous. Seed light-greyish-black or blackish-brown, glabrous, microscopically reticulate.



**Botanical Name:** *Ipomoea hederifolia* L.

**Family:** Convolvulaceae

**Local Name:** -----

**Morphology:** Slender herbs, leaves 2.8-6 x 2-5.5 cm, ovate, glabrous, entire or tri-lobed. Flowers in terminal, lax, umbellate cymes. Capsule 0.6-0.8 cm long, ovoid, glabrous. Seed ellipsoidal, light-black, glabrous, microscopically reticulate.





**Botanical Name:** *Ipomoea nil* (L.) Roth.

**Family:** Convolvulaceae

**Local Name:** Kaladana

**Morphology:** Slender, glabrous or hairy twiners. Leaves 2.5-9.5 x 2.3-9.2 cm, broadly ovate, shallowly to deeply 3-5 lobed. Flowers axillary, solitary or a few in cymes. Capsule 0.8-1.4 cm across, globose, glabrous. Seed black, oblong, smooth, glabrous.



**Botanical Name:** *Ipomoea obscura* (L.) Ker Gawl.

**Family:** Convolvulaceae

**Local Name:** Vad-fudardi

**Morphology:** Annual, glabrous or patently long-hairy herbs. Leaves 1.5-4 x 1.8-4.4 cm, broadly ovate or nearly orbicular, glabrous or sparsely hairy. Flowers 1.5-2.3 cm across, axillary, solitary pedunculate. Capsule 0.8-1.2 cm long, ovoid, apiculate, glabrous. Seed deep-brown, oblong, velvety.



**Botanical Name:** *Ipomoea pes-tigridis* L.

**Family:** Convolvulaceae

**Local Name:** Wagpadi

**Morphology:** Twining, herbaceous, hairy, annual vine, all parts being more or less covered with rather long, spreading, pale, or brownish hairs. The leaves are somewhat rounded in outline, 6-10cm in diameter, palmately 5 lobed, heart shaped at base and hairy on both surface. The lobes of the blade are elliptic, with narrowed base and rounded sinuses. Flowers occur in axillary head, usually only one opening at time. Fruit is rounded and 6-7 mm in diameter.



**Botanical Name:** *Ipomoea quamoclit* L.

**Family:** Convolvulaceae

**Local Name:** Tara-vel

**Morphology:** Slender, herbaceous twiners. Leaves 3-4.5 cm long, deeply pinnatisect, segments narrowly linear or filiform. Flowers axillary, solitary or few in cymes. Capsule 0.6-1 cm long, ovoid or nearly globose, glabrous, brown. Seeds cuneate, black, minutely hairy.





**Botanical Name:** *Ipomoea indica* Stapf.

**Family:** Convolvulaceae

**Local Name:** -----

**Morphology:** Slender, trailing or twining, hairy herbs. Leaves 2-5.5x 0.4-3.2 cm, ovate-oblong, appressed-hairy. Flowers pale-purple, in axillary, compact cymes. Capsule 0.5-0.6 cm long, ovoid, apiculate, dark-brown, glabrous.



**Botanical Name:** *Ipomoea triloba* L.

**Family:** Convolvulaceae

**Local Name:** Nani fudardi

**Morphology:** Slender twiners. Leaves 2.5-10 x 1.6-9.5 cm, ovate-triangular, entire or shallowly to deeply lobed, glabrous. Flowers 0.8-2 cm long, pale- to bright-purple, in axillary, umbellate, cymes. Capsule globose, glabrous.



**Botanical Name:** *Merremia aegyptia* (L.) Urb.

**Family:** Convolvulaceae

**Local Name:** Panch pan ni fudardi

**Morphology:** Twining, lignose, densely yellowish-brown hairy annuals. Leaflets 5, 2-6.5X 1-2.7 cm, sessile, elliptic-lanceolate or obovate-oblong, appressed-hairy. Flowers white or creamy-white, few, in cymes. Capsule ovoid, apiculate, glabrous. Seeds orbicular, pale-reddish-brown, glabrous, smooth.



**Botanical Name:** *Merremia quinquefolia* L.

**Family:** Convolvulaceae

**Local Name:** -----

**Morphology:** Twining, glabrous, slender annuals. Leaflets 1.5-7X 1.1-1.8 cm, elliptic-lanceolate, Flowers creamy-white, axillary, solitary. Capsule 0.7-1 cm across, ovoid, glabrous. Seeds oblong, hairy, light-black.



**Botanical Name:** *Merremia tridentate* (L.) Hall. F.

**Family:** Convolvulaceae

**Local Name:** -----

**Morphology:** Prostrate, slender herbs. Leaves 1.2-3 x 0.2-0.8 cm, linear, linear-oblong or obovate-oblong, glabrous. Flowers yellow, axillary, solitary or few cymose. Capsule 0.4-0.6 cm across, globose or ovoid, glabrous, Seeds 4, pale blackish brown, glabrous, smooth.



**Botanical Name:** *Operculina turpethum* (L.) Silva-Manso.

**Family:-** Convolvulaceae

**Local Name:-** Nasotar

**Morphology:** Twining or in absence of support trailing herbs, with winged and often twisted stems and branches. Leaves 2.5-7x 1.5-2 cm, ovate-lanceolate, appressed hairy or glabrescent. Flowers creamy-yellow, axillary, solitary or a few in cymes. Capsule 0.8-1 cm across, globose, glabrous. Seeds globose, light black, glabrous, smooth.



**Botanical Name:** *Rivea hypocrateriformis* Choisy.

**Family:** Convolvulaceae

**Local Name:** Fang-vel

**Morphology:** Extensive, appressed-whitish-tomentose, woody climbers. Leaves 2-11 x 2.5-13 cm, ovate-orbicular, appressedly-silky-hairy beneath. Flowers 1-3(-5), in axillary cymes. Capsule ovoid, apiculate, chestnut-brown, glabrous. Seeds oblong or slightly trigonous, dark-brown, smooth, glabrous.



## 11. Cuscutaceae

**Botanical Name:** *Cuscuta reflexa* Roxb.

**Family:** Cuscutaceae

**Local Name:** Amarvel

**Morphology:** Twiners with creamy-yellow or greenish-yellow, glabrous, somewhat thick and fleshy stems. Flowers white or creamy-white, solitary or 2-4 in cymes or short racemes. Capsule globose, glabrous. Seeds black, glabrous.





## 12. Bignoniaceae

**Botanical Name:** *Tecoma capensis* Lindl.

**Family:** Bignoniaceae

**Local Name:** Vasant-vel

**Morphology:** An extensive shrub, climbing by adventitious roots; bark cinnamon-brown, smooth, glabrous. Leaves 6-9 cm long; leaflets 7-9, 1.8-3.5X0.7-2 cm, sessile or subsessile, broadly ovate or lanceolate, glabrous. Flowers 5-6 x 2-3.5 cm, pale-scarlet, in racemes.



## 13. Baselliaceae

**Botanical Name:** *Basella rubra* L.

**Family:** Baselliaceae

**Local Name:** Poi

**Morphology:** A perennial, twining, much-branched herb, with bright - pinkish-red to deep-purple stem and branches. Leaves 1.7-15 x 3.2-13 cm, broadly ovate, sub fleshy, glabrous. flowers bright -pink or white, in short spikes. Utricle globose, glabrous, dark -purple or nearly black or white.



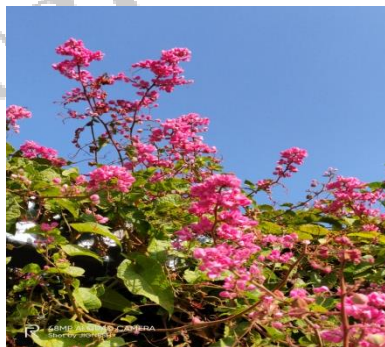
## 14. Polygonaceae

**Botanical Name:** *Antigonon leptopus* Hk. & Arn.

**Family:** Polygonaceae

**Local Name:** Ice-cream vel

**Morphology:** Perennial climbers, woody at base. Leaves 2-10.4X1.5-6 cm, broadly ovate to ovate-triangular, puberulous or glabrous.. Flowers bright-rosy-pink or white, in 5-20 cm long, axillary and terminal, tendrillar racemes.



## 15. Dioscoreaceae

**Botanical Name:** *Dioscoria bulbifera* L.

**Family:** Dioscoreaceae

**Local Name:** -----

**Morphology:** An extensive, bulbils bearing twiner. Leaves 5-28X4.3-20.5 cm, glabrous, broadly ovate, membranous. Flowers greenish-white, in 15-22 cm long, axillary spikes. Capsules 1.8-2.3 x 0.7-1.2 cm,





quadrately oblong. Seeds ovoid, membranous, winged only towards base.

## 16. Liliaceae

**Botanical Name:** *Asparagus racemosus* Baker.

**Family:** Liliaceae

**Local Name:** Shatavari

**Morphology:** Deciduous, sarmentose shrubs, with pale-to dark-brown to ashy-brown bark. Cladodes 1.2-2 cm long, glabrous. Flowers white, in 3-8 cm long racemes. Berries 0.4-0.6 cm across, nearly globose, scarlet or pale-purple.



**Tabel :-1 Plant list with their family and local name**

No.	Scientific Name	Family	Local Name
1.	<i>Cissampelos pareirs</i> L.	Menispermaceae	Venivel
2.	<i>Cocculus villosus</i> DC.	Menispermaceae	Vevdi
3.	<i>Tinospora cordifolia</i> (Willd.) Miers.	Menispermaceae	Gado
4.	<i>Zizyphus oenoplia</i> (L.) Mill.	Rhamnaceae	Tankana , Tokana
5.	<i>Cayratia trifolia</i> (L.)Domin.	Vitaceae	Khat khatumbo
6.	<i>Cardiospermum halicacabum</i> L.	Sapindaceae	Balloon vain
7.	<i>Abrus precatorius</i> L.	Papilionaceae	Chanothi
8.	<i>Canavalia gladiata</i> (Jacq.) DC.	Papilionaceae	Alad,Tarvardi
9.	<i>Clitoria ternatea</i> L.	Papilionaceae	Aparajita
10.	<i>Lablab purpureus</i> (L.) Sw.	Papilionaceae	Valod
11.	<i>Mucuna pruriens</i> Baker.	Papilionaceae	Kaucha/kuvesh
12.	<i>Rhynchosia minima</i> (L.) DC.	Papilionaceae	Potali/ Dariavel
13.	<i>Passiflora foetida</i> L.	Passifloraceae	Jangali krushnkamal
14.	<i>Coccinia grandis</i> (L.) Voigt.	Cucurbitaceae	Giloda
15.	<i>Cucumis callosus</i> (Rottl.) Cogn.	Cucurbitaceae	Kothimdu
16.	<i>Ctenolepis garcini</i> (L.) CL.	Cucurbitaceae	-----
17.	<i>Luffa acutangula</i> (L.) Roxb. Var. <i>amara</i> .(L.) Roxb.	Cucurbitaceae	Jangali turiyu
18.	<i>Momordica balsamina</i> L.	Cucurbitaceae	Jangali karela
19.	<i>Momordica dioica</i> Roxb.	Cucurbitaceae	Kankoda
20.	<i>Mukia maderaspatana</i> (L.) M.	Cucurbitaceae	Chanak-chibhadi
21.	<i>Trichosanthes cucumerina</i> L.	Cucurbitaceae	Jangali parval
22.	<i>Ceropegia bulbosa</i> Roxb.	Asclepiadaceae	-----
23.	<i>Gymnema sylvestre</i> (Retz.) Schult.	Asclepiadaceae	Madhunasini
24.	<i>Pentatropis microphylla</i> W. & A.	Asclepiadaceae	Nani dodi
25.	<i>Pergularia daemia</i> (Forsk.) Chiov.	Asclepiadaceae	Chamar dudheli
26.	<i>Telosma pallid</i> (Roxb.) Craib.	Asclepiadaceae	Varsha dodi
27.	<i>Cryptolepis buchanani</i> (L.) R. & S.	Periplocaceae	-----
28.	<i>Ipomoea aquatic</i> Forsk.	Convolvulaceae	Nada-vel

29.	<i>Ipomoea cairica</i> (L.) Sw.	Convolvulaceae	----
30.	<i>Ipomoea eriocarpa</i> R. Br.	Convolvulaceae	Bodi-fudardi
31.	<i>Ipomoea hederifolia</i> L.	Convolvulaceae	-----
32.	<i>Ipomoea nil</i> (L.) Roth.	Convolvulaceae	Kaladana
33.	<i>Ipomoea obscura</i> (L.) Ker Gawl.	Convolvulaceae	Vad-fudardi
34.	<i>Ipomoea pes-tigridis</i> L.	Convolvulaceae	Wagpadi
35.	<i>Ipomoea quamoclit</i> L.	Convolvulaceae	Tara vel
36.	<i>Ipomoea sindica</i> Stapf.	Convolvulaceae	-----
37.	<i>Ipomoea triloba</i> L.	Convolvulaceae	Nani-fudardi
38.	<i>Merremia aegyptia</i> (L.) Urb.	Convolvulaceae	Panch pan ni fudardi
39.	<i>Merremia quinquefolia</i> L.	Convolvulaceae	-----
40.	<i>Merremia tridentate</i> (L.) Hall. F.	Convolvulaceae	-----
41.	<i>Operculina turpethum</i> (L.) Silva Manso.	Convolvulaceae	Nasotar
42.	<i>Rivea hypocrateriformis</i> Choisy.	Convolvulaceae	Fang vel
43.	<i>Cuscuta reflexa</i> Roxb.	Cuscutaceae	Amarvel
44.	<i>Tecoma capensis</i> Lindl.	Bignoniaceae	Vasant-vel
45.	<i>Basella rubra</i> L.	Baselliaceae	Poi
46.	<i>Antigonon leptopus</i> Hk. & Arn.	Polygonaceae	Ice-cream vel
47.	<i>Dioscoria bulbifera</i> L.	Dioscoreaceae	-----
48.	<i>Asparagus racemosus</i> Baker.	Liliaceae	Shatavari



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