



WEL COME

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Weed Identification

Acalypha indica L.

Common Name : Indian copperleaf
Family : Euphorbiaceae

- Habit:** Erect annual herb; up to 60 cm tall.
- Stem:** Branches numerous, long, ascending, angular, finely pubescent.
- Leaves:** 2.5 - 7.0 cm long and 2-2.5 cm broad, ovate-rhombic, with long petiole, arranged spirally; blades acute, margins crenate-serrate.
- Flowers:** Flowers unisexual, stalkless, borne on numerous lax, erect, elongate axillary spikes longer than the leaves. Male flowers are minute, crowded distally. Female flowers are scattered along the inflorescence axis, each subtended by a conspicuous semi-cupular leaf-like, toothed, green bract, nearly 7 mm long.
- Fruits:** Capsules, three valved, covered with persistent bracts.
- Seeds:** Ovoid, smooth and pale brown.



Local name: Deepmal

Acanthospermum hispidum DC.

Common Name : Bristly starbur
Family : Asteraceae

- Habit:** Perennial herb or undershrub, 0.5-2 m tall.
- Stem:** Densely hairy, dichotomous (Y-shaped) branching, branches numerous, long, ascending, angular, finely pubescent.
- Leaves:** Elliptic, oblanceolate or obovate, 1.5-7 cm long and 0.7-2 cm wide, acute or obtuse at apex, attenuate and subpetiolate at base, margins shallowly serrate, whitish pilose on both surfaces.
- Flowers:** Yellow, borne in heads in the forks of dichotomous branches.
- Fruits:** Achenes triangular covered with stiff hooked hairs and have either a straight or curved pair of spines at the top.

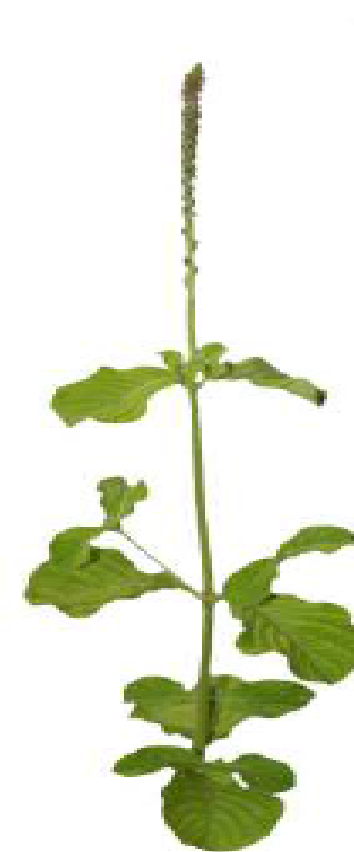


Local Name= German Kata

Achyranthes aspera L.

Common Name : Devil's horsewhip
Family : Amaranthaceae

- Habit:** An erect or procumbent, annual or perennial herb with spreading branches, usually up to 1 m tall, often with a woody base.
- Stem:** Angular, ribbed, pubescent, simple or branched from the base, often reddish-purplish tinged.
- Leaves:** Opposite, thick, ovate elliptic or obovate-rounded, but variable in shape and size, 4-12 cm long and up to 8 cm wide, velvety-tomentose.
- Flowers:** Greenish-white, numerous, in axillary or terminal spikes up to 75 cm long; bracts membranous, oblong, enclosed in the hardened parianth.
- Fruits:** Utricle, oblong-cylindric, truncate at apex, rounded at base.
- Seeds:** Reddish-brown, sub-cylindrical.



Local Name= Aghada

Ageratum conyzoides L.

Common Name : Goat weed
Family : Asteraceae

- Habit:** Erect, often branched, annual herb and often decumbent; up to 120 cm tall.
- Stem:** Much branched and rooting at the base; stem, nodes and younger parts with rather long, partly crispy hairs.
- Leaves:** Opposite or the upper alternate, broadly ovate or rhomboid-ovate to triangular, 2-10 cm long and 1.5-5 cm wide, apex subacute, margins crenate, ciliate, base cuneate, more or less hairy on both surfaces.
- Flowers:** Flowers in flat-topped, peduncled (5-17 mm long) corymbs (60-70 flowers). Flowers white, pale blue or violet with a disagreeable odour.
- Fruits:** Achene oblong, 5-angular, black with pale base, glabrous or slightly hairy, 1.5-2 mm long with awn-tipped, serrate pappus-scales.



Local Name= Osadi

Amaranthus spinosus L.

Common Name : Spiny pigweed
Family : Amaranthaceae

- Habit :** An erect, branched, annual or perennial herb, varying in colour from green to purple.
- Stem :** 30-60 cm tall with hard, straight, paired axillary spines.
- Leaves :** Long-petioled, oblong, ovate-elliptic or lanceolate, acute or obtuse, base cuneate, generally 1-6 cm long and 0.5-2.6 cm wide.
- Flowers :** Minute, grayish-green, borne in dense axillary clusters or terminal spikes.
- Fruits :** Dehiscent utricle.
- Seeds :** Oblong, 1.0-1.4 mm long, 0.7-1.0 mm wide, black, compressed, shining.



Local Name= Kathe Math

Amaranthus viridis Hook. F.

Common Name : Slender amaranth
Family : Amaranthaceae

- Habit:** An erect annual herb.
- Stem:** 6 to 100 cm tall, glabrous to pubescent, pubescent especially upwards.
- Leaves:** Glabrous or pubescent on the veins of the lower surface; petioles long (up to 10 cm), occasionally longer than the blade; blade ovate to rhombic-oblong, 2-7 x 1.5-5.5 cm, base tapered to blunt, tip rounded, minutely mucronate, barely to clearly emarginate.
- Flowers:** Green, unisexual, male and female intermixed, in slender axillary to terminal paniculate spikes 2-12 cm long and 2-5 mm wide, or in dense axillary clusters in the lower part of the stem.
- Fruits:** Capsule nearly globose 1.25-1.75 mm long, not rupturing or rupturing irregularly, surface rough.
- Seeds:** 1-1.25 mm, round, slightly compressed, dark brown to black with a paler thick border.



Local Name= Math

Ammannia baccifera L.

Common Name : Blistering ammannia
Family : Lythraceae

- Habit:** An erect annual herb.
- Stem:** 10-50 cm tall, some what 4-angled, slender, smooth and more or less purplish.
- Leaves:** The leaves are oblong, oblanceolate, or narrowly elliptic, about 3.5 centimeters long; those on the branches are very numerous, small, and 1 to 1.5 centimeters long with narrowed base and pointed or somewhat rounded tip.
- Flowers:** The flowers are small, about 1.2 mm long, greenish or purplish, and borne in dense axillary clusters.
- Fruits:** The capsules are nearly spherical, depressed, about 1.2 mm in diameter, purple, and irregularly circumsciss above the middle.
- Seeds:** The seeds are black.



Local Name = Jalmukhi

Argemone mexicana L.

Common Name : Mexican prickly poppy
Family : Papavaraceae

- Habit:** An erect prickly annual herb.
- Stem:** Up to 1.2 m tall with yellow sap.
- Leaves:** Sessile, with slightly incised undulated margins and white veins, spiny on margins, midrib and veins beneath.
- Flowers:** Yellow, 2.5-7.5 cm in diameter, with 4-6 petals.
- Fruits:** Capsules 2-4 cm long, elliptic or oblong, prickly, rarely unarmed.
- Seeds:** Numerous, small, round, blackish-brown, deeply reticulate and pitted.



Local Name = Bilaiyat

Bidens pilosa L.

Common Name : Spanish needles
Family : Asteraceae

- Habit:** An erect, simple or much-branched annual or perennial herb, 60-90 cm tall.
- Stem:** Glabrous or more or less pubescent, quadrangular, grooved; branches opposite.
- Leaves:** Very variable, sometimes trifoliate, but usually consisting of 2 sub opposite pairs of leaflets and a larger, deeply 3-lobed, terminal leaflets.
- Flowers:** The inflorescence is an isolated or grouped pedunculated capitula, emerging from the leaf axil. Heads borne singly at the ends of long, slender, nearly leafless branches; narrow, discoid, the disk 4-6 mm wide at anthesis; ray florets white or pale-yellow and disk florets yellow.
- Fruits:** Achenes 0.8-1.7 cm long, linear, quadrangular, slightly tapering towards the apex, black, glabrous, bearing a few pale stiff hairs on the angles in the upper part; pappus bristles 2-4, straw-coloured, 2-3 mm long.



Local Name = Chikata

Calotropis gigantea (L.) Aiton.

Common Name : Crown flower
Family : Asclepiadaceae

Habit: Large shrub, which looks like a small tree; up to 5m tall.

Stem: Woody with yellowish-white bark. Young stems and branches covered with soft, loosely appressed, whitish, waxy or some times powdery pubescence.

Leaves: Fleshy, obovate or obovate-oblong, apex acute, rarely rounded, base cordate, 6-20 cm long and 3-8 cm wide, glaucous green, smooth above, cottony below.

Flowers: 14-15 mm long and 3-4.5 cm in diameter; clusters of waxy flowers that are either white or lavender in colour. Each flower consists of five pointed petals and a small, elegant "crown" rising from the centre.

Fruits: A follicle.

Seeds: Broadly ovate, flattened, brown in color 2.5-3.2 cm long including the white tuft of hairs at the pointed end.



Local Name = Rui

Cassia tora (L.) Roxb.

Common Name : Sicklepod
Family : Fabaceae

- Habit:** A fetid, annual herb or undershrub.
- Stem:** 0.3-1 m tall with glabrous branches.
- Leaves:** Leaves 6-12.5 cm long; leaflets in 2-4 opposite pairs with a conical gland between each of the two lowest pairs of leaflets; blades 1.5-5 cm long and 1.5-2.5 cm wide, membranous, ovate-oblong, apex acute to subacute, often mucronate, base acute to asymmetrically rounded.
- Flowers:** Usually in pairs, on very short axillary peduncle; pale yellow, upper petal 2-lobed and the others entire.
- Fruits:** Pods stout, 4-angled, 15-25 cm long, containing 25-30 seeds.
- Seeds:** 4-5 mm long, rhomboidal, yellowish brown to tan red, shiny.

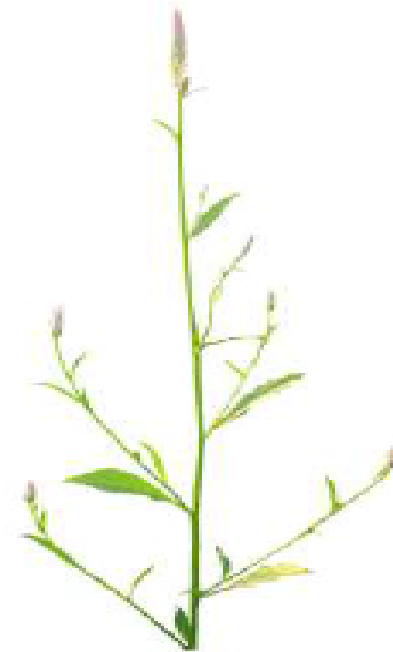


Local Name = Takala

Celosia argentea L.

Common Name : Cock's comb
Family : Amaranthaceae

- Habit:** An erect annual herb.
- Stem:** Up to 1 m tall with angular stems and grooved branched.
- Leaves:** Linear-lanceolate to elliptic-lanceolate, acuminate, narrowed at the base, entire, up to 12 cm long and 4 cm wide.
- Flowers:** White or pink, glistening, borne in feathery, conical to cylindrical spikes.
- Fruits:** Membranous utricle.
- Seeds:** 1.3-1.5 mm long, 1.0-1.2 mm wide, glossy black, slightly reticulate.



Local Name = Kombada

Chenopodium album L.

Common Name : Common lambsquarter
Family : Chenopodiaceae

- Habit:** A polymorphous, non-aromatic, erect herb.
- Stem:** 0.3-3 m tall with angled stems that are often striped green, red or purple, clammy to the touch.
- Leaves:** Leaves very variable in size and shape, rhomboid, deltoid to lanceolate, upper leaves entire, lower ones toothed or irregularly lobes, 10-15 cm long, with petioles often as long as leaf blades.
- Flowers:** Green, borne in clusters forming a compact or loosely paniced axillary spike.
- Fruits:** Utricle.
- Seeds:** Round, compressed, black and shining.



Local Name = (Landaga)

Cleome viscosa L.

Common Name : Tick weed
Family : Capparidaceae

- Habit:** An erect, simple or sparsely branched, unarmed annual herb.
- Stem:** Up to 1.5 m tall with a strong, penetrating and unpleasant odour; stems grooved, densely clothed with glandular or simple hairs.
- Leaves:** Leaves 3-5 foliate, densely glandular-pubescent when young, petioles of the lower leaves 2.5-5 cm long, those of the upper leaves 0.4-3.8 cm; leaflets elliptic-oblong or obovate, 2-4.3 cm long and 0.8-2.5 cm wide, base cuneate to attenuate, apex acute or obtuse.
- Flowers:** Flowers various shades of yellow or white to pinkish or purple, 1.3 cm long, borne in the axils of reduced leaf-like bracts in lax corymbose racemes.
- Fruit:** A slender, erect, glandular pubescent cylindrical capsule, 5-12 cm long.
- Seeds:** About 1 mm in diameter, granular, black or dark brown.



Local Name = Piwali tilwan

Coix lacryma-jobi L.

Common Name : Job's tears
Family : Poaceae

- Habit :** A stout, much-branched annual grass.
- Stem :** Culms 0.9-1.5 m tall, spreading below, rooting at the lower nodes, internodes smooth, polished.
- Leaves :** 10-50 cm long and 1.5-5 cm wide, narrowed from a broad cordate base to an acuminate tip, smooth on both surfaces, margins spinulosely serrate; midrib stout; sheaths long, smooth; ligule a very narrow membrane.
- Flowers :** Borne in 2.5-6.3 cm long racemes, nodding or drooping from long peduncles; male racemes 1.5-4 cm long, erect, spikelets mostly paired; female racemes enclosed within a beadlike auricle, which is white to green or bluish, globose, 0.6-1.2 cm long, hard.
- Fruit :** Utricle, oblong-cylindric, truncate at apex, rounded at base.
- Seeds :** Subcylindric, truncate at apex, reddish brown.



Local Name = Kasai

Commelina diffusa L.

Common Name : Climbing dayflower
Family : Commelinaceae

- Habit:** A creeping herb.
- Stem:** Rooting at the nodes.
- Leaves:** Sessile, ovate or lanceolate, entire, acuminate, base sub cordate, chartaceous.
- Flowers:** Blue, 1-3 in cymes; spathes complicate.
- Fruit:** Broadly oblong acuminate.
- Seeds:** Tuberculate, reticulate, brown.



Local Name = Kena

Convolvulus arvensis L.

Common Name : Field bindweed
Family : Convolvulaceae

- Habit:** A herbaceous perennial growing from a very deep root system. Shoots develop from adventitious buds on the deep root system at almost any depth down to 1 m.
- Stem:** Slender, to 1.5 m long, twining anticlockwise, glabrous or finely pubescent.
- Leaves:** Alternate, petiolate, variable in shape, lanceolate or ovate to narrow-oblong, 1.2-5.0 cm long, acute at the apex, entire but often hastate-sagittate at the base, glabrous or pubescent with scattered crisped hairs.
- Flowers:** White or pink, axillary, solitary, peduncles, 2.5-5 cm long, slender with a pair of small linear bracts at the apex from which the pedicels arise; pedicels 3-25 mm long.
- Fruit:** Capsules 6-8 mm in diameter, globose, glabrous.
- Seeds:** Subtrigonous, dark reddish-brown, glabrous or puberulous.



Local Name = Chandvel

Corchorus trilocularis Auct.

Common Name : Cotton weed
Family : Tiliaceae

- Habit:** An erect or suberect, annual herb, 30-60 cm tall.
- Stem:** Stem and branches glabrous.
- Leaves:** 3-4 costate, oblong-lanceolate or linear-lanceolate or somewhat elliptic-obovate, 1.5-9 cm long, 0.6-2.2 cm broad, crenate-serrate, basal serratures prolonged into filiform spreading appendages or not, acute.
- Flowers:** Cyme 1-4 flowered, antiphyllous, short peduncled. Flowers yellow, 1 cm across, subsessile.
- Fruit:** Capsules 1-3 together, erect, cylindrical, 1.5-4 cm long, 2 mm in diameter, not ribbed, glabrous, terminated by 3 spreading bifid tips, 3-loculed, locules aseptate.
- Seeds:** Angular, obliquely truncate at both ends, black.



Local Name = Kadu chinch

Cynodon dactylon (L.) Pers.

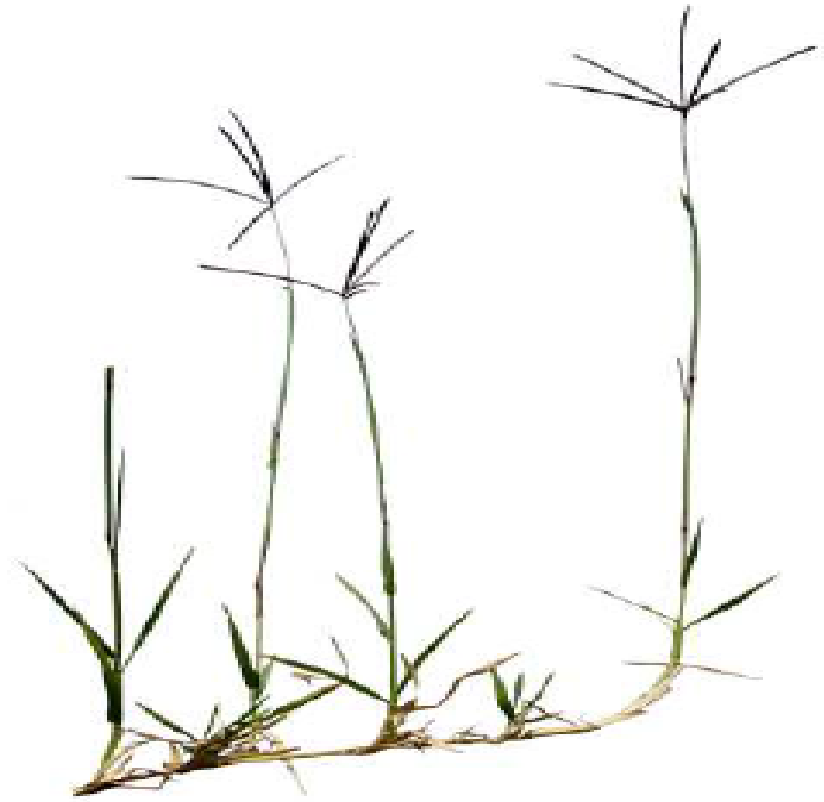
Common Name : Bermuda grass
Family : Poaceae

Habit: Perennial grass.

Stem: The rhizomes are mainly in the top 10 cm of the soil. They spread horizontally for several meters, with nodes at approximately 10 cm intervals, each with 2-3 scale leaves and a single axillary bud. In dense stands, shoots developing from buds on rhizomes or runners tend to be erect and quite short, up to 25 cm high, but develop into prostrate runners under less dense conditions.

Leaves: Leaf blades are usually dull grey-green, flat, up to 15 cm long and 3-5 mm wide, tapering to an abrupt point, finely parallel-ribbed on both surfaces, without a conspicuous midrib. Ligule is very short but with a conspicuous fringe of white hairs.

Flowers: The inflorescence is supported on a culm up to 25 cm high and consists of a single whorl of 3-7 narrow racemes, each 3-8 cm long. Spikelets are 2-2.5 mm long, in two rows, closely appressed to the rachis.



Local Name = Harayali
Worlds noxious weed

Cyperus difformis L.

Common Name : Variable flatsedge
Family : Cyperaceae

- Habit:** An annual sedge, sometimes behaving as a perennial, varies in height from 6-80 cm.
- Stem:** Smooth, triangular, slightly winged and 0.7-3.0 mm thick. The roots are numerous, fibrous and reddish.
- Leaves:** Smooth, (or slightly scabrid on the midrib and margin), flat, linear, 5-25 cm long or often two-thirds of the plant height, 2-6 mm wide, sometimes reduced to sheaths. Sheaths are tubular, united, green to reddish-brown and without leaf blades at the base.
- Flowers:** Inflorescence consists of dense, globose, umbellate heads, simple or compound, 5-15 mm in diameter, with 10-60 stellately spreading spikelets.
- Fruits:** Nutlets, 0.6-0.8 mm long and 0.3-0.4 mm wide, triangular, obovate-elliptic, yellowish-brown or pale-brown, minutely papillose.



Local Name = Lavala

Cyperus iria L.

Common Name : Ricefield flatsedge
Family : Cyperaceae

- Habit:** An annual sedge, sometimes behaving as a perennial. 8 to 60 cm high.
- Stem:** The culms are tufted, triangular, glabrous, green and 0.6-3.0 mm thick. The roots are numerous, short and yellowish-red.
- Leaves:** Linear-lanceolate, usually all shorter than the culm, 1-8 mm wide, flat, and scabrid on the margin and major ribs; leaf sheaths are green to reddish-brown, membranous and envelope the culm at the base.
- Flowers:** Inflorescence is simple or compound, usually open, 1-20 cm long and 1-20 cm wide, with groups of spikes which are either sessile or on 0.5-15.0 cm long peduncles (rays). Spikelets are erect-spreading, crowded, 6-24-flowered, 2-13 mm long, 1.5-2.0 mm wide, golden to yellowish-green.
- Fruits:** Nutlet, 1.0-1.5 mm long, 0.6-0.7 mm wide, obovate, triangular in cross section, dark-brown to almost black; the surface is almost smooth.



Local Name = Lavala

Cyperus rotundus L.

Common Name : Purple nutsedge
Family : Cyperaceae

- Habit:** A perennial sedge.
- Stem:** Hard, fragrant, globose-ovoid tubers, up to 1.2 cm long and 0.3-0.7 cm in diameter; culms solitary or few together, sparsely tufted, erect, 10-75 cm tall, 3-angled at top.
- Leaves:** Narrowly linear, shorter or longer than stem, 0.4-0.8 cm wide, dark green above, pale beneath.
- Flowers:** Inflorescence a simple or compound umbel, rays 2-8, each up to 7.5 cm long, bearing short spikes of 3-10 spreading, red-brown spikelets.
- Fruits:** Nuts oblong to ovate-oblong, 3-sided, 1.3-1.5 mm long and 0.5-0.7 mm wide, maturing brown.



Local Name = Lavala

Datura metel L.

Common Name : Thorn apple
Family : Solanaceae

- Habit:** An erect, soft-stemmed shrub usually less than 1 m tall.
- Stem:** Branches somewhat zig-zag, almost glabrous, green or reddish-tinged to almost black.
- Leaves:** Large, acrid-smelling when crushed, triangular-ovate in outline, irregularly toothed or lobed, 7.5-15 cm long and 3.2-7.5 cm wide, largest leaves usually towards the ends of shoots, apex acute or acuminate.
- Flowers:** Erect, solitary in leaf axils, tubular to funnel-shaped; white to violet or purple on the outside and white within.
- Fruits:** A globose capsule, usually covered with stout tubercles or prickles, borne on a short, thick drooping peduncle; capsule 4-valved or irregularly dehiscent near the apex.
- Seeds:** Yellowish-brown, flat.



Local Name = Dhotra

Digera arvensis Forssk.

Common Name : False amaranth
Family : Amaranthaceae

- Habit:** An annual herb, 30-60 cm high.
- Stem:** With spreading branches.
- Leaves:** Variable, 2-7.5 cm long and 1.3-4.5 cm wide, ovate or elliptic, acute or rounded at the apex, sometimes with reddish margins, glabrous.
- Flowers:** Flowers pink, borne in threes in lax, axillary, pedunculate spikes, 2.5-12.5 cm long.
- Fruits:** Globose, approximately 0.3 cm in diameter.
- Seeds:** Yellowish-brown.



Local name = Kunjaru

Echinochloa colona (L.) Link.

Common Name : Jungle rice
Family : Poaceae

- Habit:** An annual grass, 1m or taller.
- Stem:** Culms stout, erect to decumbent, often branching from the base.
- Leaves:** Sheath glabrous, ligule absent or occasionally represented by a rim of very short hairs, leaf blades glabrous, elongate, 5-15 mm wide, light green.
- Flowers:** Panicle erect or nodding, green or purple-tinged, 10-20 cm long. Racemes numerous, 2-4 cm long, spreading, ascending, sometimes branched.
- Fruits:** Caryopsis ovate, obtuse, usually 2.5-3.5 mm long. Seed white to hyaline with longitudinal ridges on the convex surface.



Local Name = Pakhad

Echinochloa crusgalli (L.) Beauv.

Common Name : Barnyard grass
Family : Poaceae

- Habit:** Robust, tufted annual grass, erect or at the base decumbent and rooting at the nodes, 20-150 cm tall.
- Stem:** Culms cylindrical, glabrous, filled with white spongy pith.
- Leaves:** Leaf sheaths glabrous or the margin or the exposed part of it fimbriate, 9-13 cm long. Blades merging into the sheath, linear, with a broad, rounded base and acute top; rough-margined, glabrous or at the base with a few long hairs, smooth or the upper surface minutely bristly.
- Flowers:** Inflorescence an apical panicle of 5-40 spike-like racemes, all turned to one side, with shortly ascending branches, the crowded spikelets at one side only, initially erect, later often bent down, 5-21 cm long.
- Fruits:** Caryopsis ovoid to obovoid, compressed, 1.5-2 mm long.



Local Name = Pakhad

Echinochloa glabrescens Munro. ex Hook. f.

Common Name : None
Family : Poaceae

- Habit:** An erect, closely tufted, annual grass, 50-100 cm high.
- Stem:** Culms erect or slightly decumbent at the base.
- Leaves:** Sheaths tightly clasping the stem, leaf blades strap-like, 10-20 cm long, 5-8 cm wide, with a long, thin apex.
- Flowers:** Inflorescence a closely branched panicle, 10-20 cm long.
- Fruits:** Spikelets numerous, with or without awns (1-3 mm long, if present).



Local Name = Pakhad

Eclipta alba (L.) Hassk.

Common Name : False daisy
Family : Asteraceae

- Habit:** A prostrate, ascending or erect, rough-hairy annual herb, up to 90 cm tall.
- Stem:** Much-branched, slender, reddish, covered with short, stiff hairs, rooting at the lower nodes.
- Leaves:** Opposite, simple, rough, dull green, ovate to oblong-lanceolate, 2-10 cm long, 1-3 cm wide, apex acute or blunt, base attenuate, margin entire or slightly serrate, pubescent, mostly sessile, the lower leaves sometimes short-petioled.
- Flowers:** Flower heads up to 1 cm in diameter, a cluster of sessile white flowers, in upper axils or terminal, solitary or two heads together. Ray flowers white.
- Fruits:** Achenes light-brown to black, laterally-flattened, wedge-shaped, 2-3 mm long, 0.9 mm wide. Apex with short, usually white hairs that are easily broken off but two hornlike projections often remain, pappus absent. The rest of the achene is glabrous and covered with many small warts.



Local Name = Maka

Eichhornia crassipes (Mart.) Solms.

Common Name : Water hyacinth
Family : Pontederiaceae

- Habit:** A free-floating or partly rooting perennial aquatic herb.
- Stem:** With numerous, long, fibrous roots, short leafy.
- Leaves:** In rosettes, spoon or paddle-shaped, apex rounded, 5-20 cm wide; petioles turbinate swollen and spongy, enabling the plant to float.
- Flowers:** Mauve, lilac or blue, funnel-shaped, 2.5-3.8 cm long.
- Fruits:** Capsule, many-seeded.



Local name = Jalparni

Eriocaulon sieboldianum Siebold & Zucc. ex Steud.

Common Name : None
Family : Eriocaulaceae

- Habit:** A small, tufted, annual herb, 10-15 cm tall.
- Stem:** Angular, ribbed, thickened above the node, more or less densely hairy.
- Leaves:** 3-6 x 0.1 cm, linear, glabrous.
- Flowers:** Peduncles many; heads white, globose.
- Seeds:** Oblong-globose, finely, transversely striate.



Local Name = Kolsa

Euphorbia geniculata Orteg.

Common Name : Wild poinsettia
Family : Euphorbiaceae

- Habit:** Erect, annual herb, up to 1.2 m tall.
- Stem:** Fistular, ribbed, branched in the upper part, glabrous or thinly hairy towards the apex, greenish or purplish in appearance.
- Leaves:** Alternate below, opposite above, broadly ovate, elliptic, obovate, or panduriform, rarely linear, blades 4-12 cm long, 0.3-7 cm wide, glabrous or pilose, margins entire to coarsely serrate, apex acute, short-acuminate, or short-cuspidate, base rounded to cuneate.
- Flowers:** Cyathia in dense terminal cymes; involucre 2-2.5 mm high, glabrous.
- Fruits:** Capsules subglobose, 3-4 mm long, glabrous.
- Seeds:** Seeds dark brownish gray to black, sometimes mottled, truncate-ovoid, angled, 2-2.5 mm long, coarsely tuberculate, ecarunculate.



Local Name = Mothi Dhudhani

Euphorbia indica Lam.

Common Name : None
Family : Euphorbiaceae

- Habit:** Annual herb, up to 60 cm tall.
- Stem:** Decumbent-ascending, suberect or erect, sparingly puberulous or pubescent.
- Leaves:** Elliptic-oblong, 1-3 x 0.5-1.5 cm, obtuse, obliquely rounded at the base, serrulate except at the base on the inner margin, subtriplinerved, green above, paler beneath.
- Flowers:** Cyathia aggregated together into loose clusters, terminating short axillary shoots; cyathial glands purplish, with white or pale pink orbicular petaloid appendages.
- Fruits:** Trigonous, 1.5 x 2 mm, smooth, sparingly pubescent or glabrous.
- Seeds:** 1 x 0.8 mm, ovoid, roundly-quadrangular, shallowly rugulose to almost smooth, grey, ecarunculate.



Local Name = Choti Dudhani

Fimbristylis miliacea (L.) Vahl.

Common Name : Grass-like fimbry
Family : Cyperaceae

- Habit:** A tufted, erect sedge that can grow as an annual or perennial.
- Stem:** Culms slender, 40-60 cm tall, four or five angled and often somewhat flattened.
- Leaves:** 1.5-2.5 mm wide, up to 40 cm long, basal leaves half as long as culm, linear, threadlike and stiff, two-ranked, with sheaths.
- Flowers:** Inflorescence a rather lax and diffuse compound umbel, 6-10 cm long, spikelets globose or ovate, 2.5-4 mm long, 1.5-2 mm wide, round or acute at apex, reddish brown.
- Fruits:** Achenes are obovoid, trigonous, biconvex, apiculate; 0.6 to 1 mm long, 0.75 mm wide and pale ivory to brown and are covered with a network of very fine crosswise lines.



Lagascea mollis Cav.

Common Name : Silk leaf
Family : Asteraceae

- Habit:** An annual herb, 50-100 cm tall.
- Stem:** Sometimes purplish, with stipitate glandular hairs on young parts.
- Leaves:** Opposite, simple, ovate, with toothed margin, 3-5 cm long; silky beneath.
- Flowers:** Tiny white-cream colored flowers occur in a composite head 2-3 cm across. The heads are surrounded by silky leaves.
- Fruits:** Achenes brown or black, 3 mm long, setuliferous near apex; pappus a minute crown, pubescent.
- Seeds:** Subcylindric, truncate at apex, reddish brown.



Lantana camara L.

Common Name : Wild sage
Family : Verbenaceae

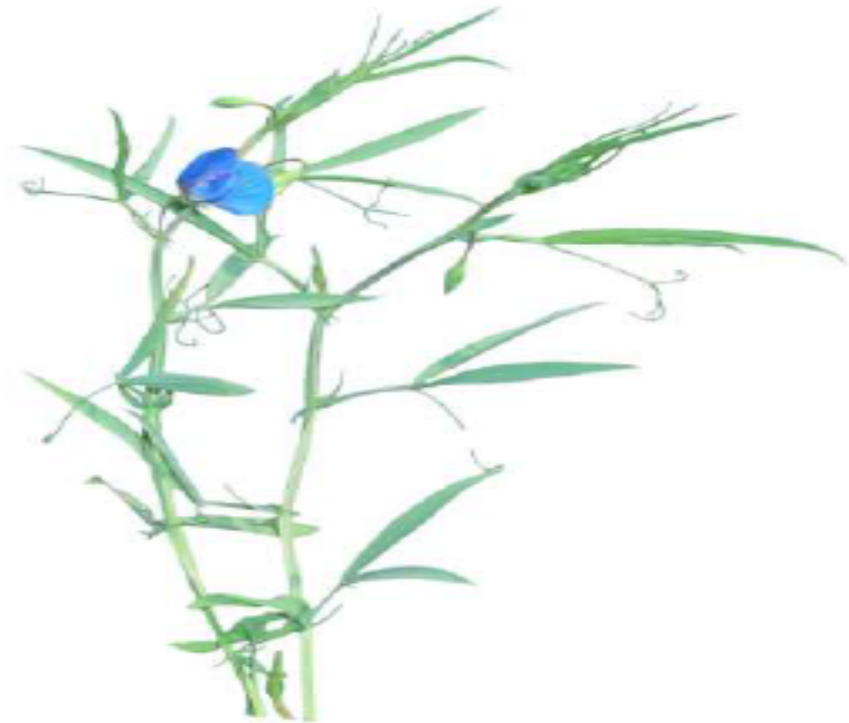
- Habit:** A perennial shrub, 2-5 m tall.
- Stem:** Woody, 4-angled, often bearing recurved prickles.
- Leaves:** Serrated leaves are ovate to ovate-lanceolate (up to 10 cm long and 7.5 cm wide) and usually light colored.
- Flowers:** Yellow and pink, later turning orange then red and sometimes blue or purple.
- Fruits:** Black, fleshy drupes, borne in clusters, 3-6 mm in diameter and contain 1-2 seeds.



Lathyrus sativus L.

Common Name : Grass pea
Family : Fabaceae

- Habit:** A much-branched, straggling or climbing, herbaceous annual; 25-60 cm long.
- Stem:** Quadrangular with winged margins. Stipules are prominent, narrowly triangular to ovate with a basal appendage.
- Leaves:** Pinnate leaves are opposite, consisting of one or two pairs of linear-lanceolate leaflets, 5-7.5 x 1 cm, and a simple or much-branched tendril. Leaflets are entire, sessile, cuneate at the base and acuminate at the top.
- Flowers:** Axillary, solitary, about 1.5 cm long, and may be bright blue, reddish purple, red, pink, or white.
- Fruits:** Pods are oblong, flat, slightly bulging over the seeds, about 2.5-4.5 cm in length, 0.6-1.0 cm in width and slightly curved; dorsal part of the pod is 2-winged, shortly beaked and contains 3-5 small seeds.
- Seeds:** 4-7 mm in diameter, angled and wedge-shaped; white, brownish-grey or yellow, although spotted or mottled forms also exist.



Mimosa pudica L.

Common Name : Sensitive plant
Family : Fabaceae

Habit: A low-growing, much-branched, prickly, sprawling shrub. It grows 15-100 cm tall and is erect or more generally has a trailing growth habit.

Stem: Woody at the base, stiff, cylindrical, reddish-brown or purple, pubescent and bear scattered prickles along the internodes. The prickles are 3-4 mm long, compressed, slightly curved, hard and very sharp.

Leaves: Dark green, bipinnate and hairy. Leaflets 12-50, each 6-12 mm long, 1.5 mm wide, oblong-linear and pointed, glabrous above but with a hairy margin and lower surface. Leaflets and leaves fold up rapidly when touched and also close at night.

Flowers: Flowers bright purplish-pink; occur in globular or ovoid heads about 9 mm in diameter.

Fruits: Fruits are borne in clusters in the leaf axils. Each fruit is an oblong, flattened, recurved pod about 8-20 mm long and 2-6 mm wide containing 1-5 seeds. The pod is pointed at the apex, glabrous, edged with bristles and breaks into one-seeded segments which fall away from unbroken marginal sutures when mature.

Seeds: Light-brown, flattened, 2.5-3 mm in diameter and with a finely granular surface.



Parthenium hysterophorus L.

Common Name : Congress grass
Family : Asteraceae

- Habit:** A short-lived annual herb with an extensive root system and an erect shoot; up to 2 m high.
- Stem:** Erect main stem, upper half of the main stem becomes highly-branched at flowering; stems appear to be striped due to longitudinal grooves or ribs and they become woody with age.
- Leaves:** Pale green, deeply lobed and covered with fine soft hairs.
- Flowers:** Creamy-white flowers occur at the tips of the stems. Clusters of male and female florets are grouped as five-lobed flowers on the terminal branches of the flower stem and measure 4–6 mm in diameter.
- Fruits:** Achene small (1–2 mm across), flattened, triangular and dark brown-black with two thin, white, spoon-shaped appendages.



Phalaris minor Retz.

Common Name : Little seed canary grass
Family : Poaceae

Habit: A tufted annual bunchgrass, up to 1.8 metres in height.

Stem: Erect or decumbent, caespitose.

Leaves: Leaves long, linear, acuminate. Ligule is an oblong hyaline membrane, about 2-5 mm long, often truncate and/or fringed; auricles absent, sheath smooth.

Flowers: Panicle more or less protruding or entirely protruding from the uppermost swollen leaf sheath, ovate to oblong, 5-8 cm long, green. Spikelets green, broadly lanceolate on short pedicels, shining, 4 -6 mm long, strongly laterally compressed.



Phyllanthus niruri L.

Common Name : Stonebreaker
Family : Euphorbiaceae

- Habit:** A small, erect, annual herb that grows up to 30–40 cm in height.
- Stem:** Quite glabrous, stem often branched at the base, leaf bearing branchlets slender, spreading. The bark is smooth and light green.
- Leaves:** Numerous, subsessile, distichous leaves.
- Flowers:** Small, white to light yellowish. Male flowers in axillary, females in solitary.
- Fruits:** Capsules depressed-globose, smooth scarcely lobed.
- Seeds:** Seeds trigonous, rounded.



Portulaca oleracea L.

Common Name : Common purslane
Family : Portulacaceae

- Habit:** An annual glabrous herb.
- Stem:** Prostrate, succulent; trichomes at nodes.
- Leaves:** Obovate or spatulate, flattened, 4-28 × 2-13 mm, apex round to retuse or nearly truncate; involucrelike leaves 1-4.
- Flowers:** 3-10 mm diameter; yellow.
- Fruits:** Capsules ovoid, 4-9 mm diameter.
- Seeds:** Black or dark brown, orbiculate or elongate, flattened, 0.6-1.1 mm; surface cells smooth, granular, or stellate, with rounded tubercles.

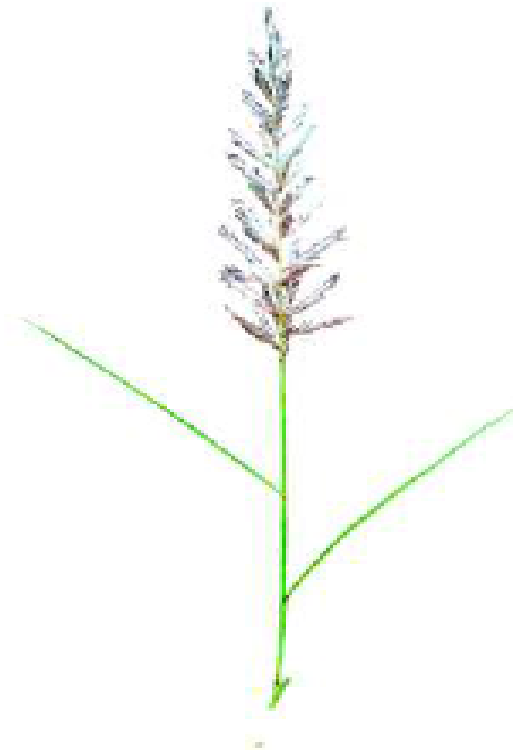


Local Name = Ghol

Saccharum spontaneum L.

Common Name : Wild sugarcane
Family : Poaceae

- Habit:** Strong perennial.
- Culm:** 1-2 m tall, tufted; solid above, fistular below, polished, silky below panicles and minutely silky below upper leaf-insertions.
- Leaves:** Erect, glaucous, midrib white, margins scabrid, often villous above base, sheath longer than internode.
- Flowers:** Panicle conical-oblong, with 3-15 cm long fragile racemes, joints and pedicels; branches ascending, usually reddish or purplish, primary rachis silky with long, white hairs.
- Fruits:** Caryopsis 2 mm long, oblong.



Solanum viarum Dunal.

Common Name : Tropical soda apple
Family : Solanaceae

- Habit:** Bushy, prickly herbaceous perennial.
- Stem:** Up to 2 m tall, more commonly 1 m tall; stems armed with broad-based, straight or downward-pointing prickles and clothed in a mixture of stellate and simple glandular or non-glandular hairs.
- Leaves:** Alternate, simple, clearly petioled, prickly; blades oval-triangular, nearly as broad as long, to 20 cm long and 15 cm wide, angular-lobed; surfaces dense with fine soft hairs giving blades a velvety sheen; veins prickly.
- Flowers:** White, in small terminal clusters.
- Fruits:** A globose berry, 2-3 cm wide, green with dark veining, like a tiny watermelon, when immature, dull medium yellow when ripe.
- Seeds:** Flattened, reddish brown.



Solanum xanthocarpum Schrad. & Wendl

Common Name : Yellow berried nightshade
Family : Solanaceae

- Habit:** Prostrate, diffuse prickly herb.
- Stem:** Woody at the base, much branched, armed with straight, compressed, yellow prickles, glabrous except stellate hairy young plants.
- Leaves:** 30-80 × 25-50 mm, elliptic-oblong, sinuate to deeply lobed, dark-green above; lobes unequal, obtuse or acute, often toothed or lobulate.
- Flowers:** Bluish purple.
- Fruits:** Globose, green with white stripes, turn yellow when ripe.
- Seeds:** Circular, smooth.



Sorghum halapense (L.) Pers.

Common Name : Johnson grass
Family : Poaceae

- Habit:** A perennial from rhizomes that may reach 6.5 feet in height.
- Stem:** Round to somewhat flattened, usually without hairs but sometimes hairs may be present along the margins. Sheaths may be green to maroon, especially near the base of the plant.
- Leaves:** Rolled in the shoot, without auricles, 6 to 20 inches long by 10 to 30 mm wide, with a prominent white midvein. Leaf blades are usually without hairs (glabrous) on both surfaces, however some hairs may be present at the base of the leaf blade. The ligules are 3 to 4 mm long, membranous, and often toothed at the top.
- Flowers:** Seed head a large, open panicle, often with a purplish tint.
- Fruits:** Spikelets 4.3-5.5 mm long, 1.5-2.0 mm wide. Elliptical in outline with sharply pointed apex; plano-convex. Mahogany coloured, shading to a reddish-brown or yellow. Smooth and glossy.
- Seeds:** Oval, 3 to 5 mm in length, and dark red to black at maturity.



Sphenoclea zeylanica Gaertn.

Common Name : Chickenspike
Family : Sphenocleaceae

Habit: An erect annual herb.

Stem: 7 - 150 cm tall, smooth and fleshy, hollow, much branched and with white, spongy (aerenchymatous) tissues at base.

Leaves: Simple and spirally arranged, light green; blades oblong to lance-shaped, narrowed at the tip, 10 cm long, borne on short stalks.

Flowers: Inflorescence green, cylindrical, 7.5 cm long dense terminal spike; flowers densely crowded, white to greenish, sessile.

Fruits: A flat, 4 - 5 mm diameter globular capsule.

Seeds: Yellowish brown, 0.5 mm long.



Goose weed

Striga asiatica (L.) Kuntze.

Common Name : Witch weed.
Family : Orobanchaceae

- Habit :** An annual obligate hemiparasite, 15-20 cm tall.
- Stem :** Green, square in cross section, 1-2.5 mm in diameter. Under ground stems are round with scale like leaves and white, but turn blue when exposed to air. The roots are succulent, round, without root hairs, and found attached to the host root system.
- Leaves :** Opposite, narrow; each pair born at right angle to the preceding one.
- Flowers :** Variously colored, white, purple, pink or red; born in opposite pairs or alternately in terminal leafy inflorescence.
- Fruits :** Loculicidal capsule, black, ellipsoid, 0.4-2 mm, two valved.
- Seeds :** Elliptic, ovate, oblong, occasionally D-shaped, triangular, rhombic or irregular; dust like, 0.2 - 0.6 mm long, 0.1 - 0.3 mm wide and thick. Orange to golden brown or light to dark brown or gray to blackish.



Tridax procumbens L.

Common Name : Coatbuttons
Family : Asteraceae

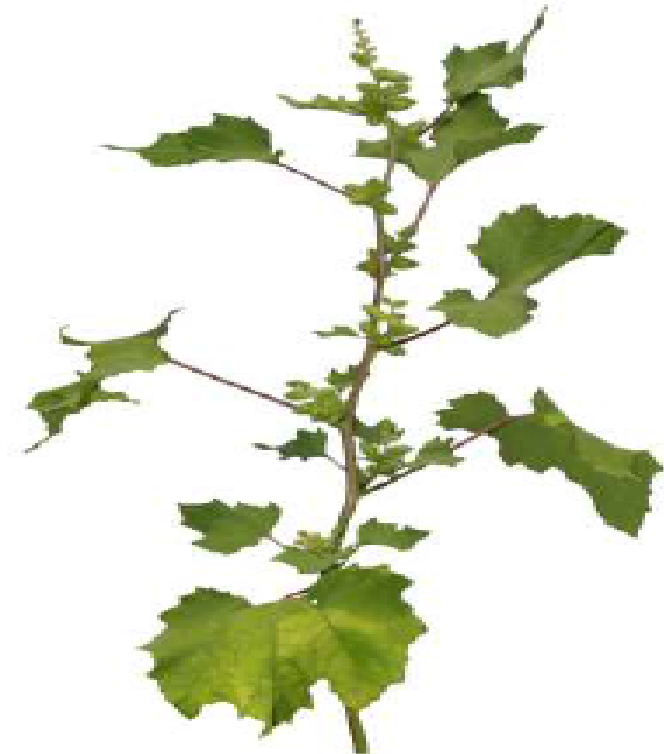
- Habit:** A hispid, procumbent herb.
- Stem:** Up to 60 cm tall; base woody, sometimes rooting at the nodes.
- Leaves:** Ovate, 2-7 cm long and 1-4 cm wide, apex acute or acuminate, base cuneate, margins serrate to coarsely dentate or trilobed.
- Flowers:** Flowers borne in small, solitary, terminal heads; peduncles 10-20 cm long; ray florets strap-shaped, white; disc florets yellow.
- Fruits:** Achenes black, turbinate, 2-2.5 mm long with feathery pappus.



Xanthium strumarium L.

Common Name : Common cocklebur
Family : Asteraceae

- Habit:** Annual herb.
- Stem:** Stout and hairy, much branched, up to 1.5 m tall.
- Leaves:** Leaves broadly triangular ovate or suborbicular, scarbid or hispid on both surfaces, apex acute, often 3-5 lobed, irregularly serrate, base some what cordate or shortly cuneate; petioles 2.5-7.5 cm long.
- Flowers:** Flower heads monoecious, numerous, white or green, in terminal and axillary racemes; male heads in upper axils, globose; female heads in the lower axils, ovoid, covered with hooked bristles, ending in 2 strong hooked beaks.
- Fruits:** Achenes 1.3 cm long, obovoid, compressed, enclosed in a hardened, spinescent involucre.



Commelina benghalensis L.

The first leaf appears unfolding, broadly oval or ovoid or broadly elliptic in shape. The subsequent leaves emerge from the sheath of the previous leaf and are whorled. The lamina is light to dark green, broadly ovate with a blunt apex.



