IX SYSTEMATIC ENUMERATION

RANUNCULACEAE

- 1. Clematis, Linn.
- 1 C.gouriana, Roxb. Hort.Beng. 43. 1814. Climbing shrub, glabrous, stem grooved. Leaves bipinnate, leaflets ovate, cordate, strongly nerved. Flowers greenish white. Aschenes ovoid with persistent styles. Fls. and Frts.: October to December. Vern.:

Heroarium: HSP-1401-A,B,C. Locality: Katikswami.

Common in the hill forests.

2. C.hedysarifolia, DC. Syste. 1: 164, 1818. Woody Climber, branches furrowed. Leaves pinnate, leaflets 3-5, ovate lanceolate. Achenes ovoid, compressed, hairy. Fls. & Frts.: October to November. Vern.: Bendrichivel.

Herbarium: HSP-1402-A,B. Locality: Khatav.

Rare climber in forest.

3 Cltriloba, Heyne ex. Roxb, Nov. Pl.SP.251.1821. An extensive climber, whole, plant tomentose. Leaves simple, 1-7 lobed mucronate. Flowers white in axillary panicles Fls. & Frts.: September to November, Vern.: Ranjai.

Herbarium: HSP-1403-A,B,C. Locality: Dalmodi.

Very care plant in the area.

2. Delphinium, Linn.

1 D.dasycaulon, Fres, Mus. Senckeb. 2(1837) P.272. Erect herb, stem hollow, terrate hairy. Radicle leaves large, reniform, 5-7 lobed, cauline divided into narrower segments. Petioles sheathing. Flowers bright blue, spur conical, long. Filaments much dialated at the base. Folicles straight, many seeded. Fls.& Frts.: August

to september.

Herbarium : HSP-1404-A,B,C. Locality : Kartik'swami.

It is rare plant found at perticular altitude growing on slopes of Ramdongar, Kartikswami and Chandakhana nills.

MAGNOLIACEAE

- 1. Michelia, Linn.
- 1. M.champaca, L.SP.Pl. 536, 1753.

ANNONACEAE.

- 1. Annona, Linn.
- 1. A.reticulata, L.SP.Pl. 537-1753: Tree with dropping branches. Leaves laneeolate, slightly accuminate. Flowers 2-4 on lateral short peduncles. Sepals minute.Outer petals 20 x 7 mm, inner ones minute.Fruit brick red, 10-15 cm in diameter, rather heart shaped. Seeds black, smooth. Fls. & Frts. June to November Vern. Ramphal.

Herbarium: HSP-3508 A,B. Locality: Dalmodi.

2. A.squamosa, L.SP.537.1753. Shrub or small tree. Leaves elliptic oblong, 5-7 x 2-4 cm. Flowers solitary green, sepals triangular minute; petals 1.5-2 cm long, fleshy. Fruit tubercled, 5-10 cm in diameter. Seeds brown or black, Shining. Fls. & Frts. May to October Vern.: Sitaphal.

Herbarium: HSP-3508 A,B. Locality: Dalmodi.

Cultivated as well as wild.

2. Artabotrys, R.Br.

A. hexapetalus (L.f.) Bhandari in Baileya 12: 147. 1964.

(A.odoratissimus, R.Br.)

3. Polyalthia, Bl.

*1 P.longifolia, (Sonnerat) Thw. Enum. 398. 1864. Vern.: Ashok

MENISPERMACEAE.

1. Cissampelos, Linn.

1. C.pareira L.Sp.Pl. 1031. 1753. A climbing shrub; branches pubscent or subglabrus. Leaves peltate, orbicular, often slightly broader than long, cordate at the base. Flowers minute, yellowish. Male flowers cymose. Female flowers racemose. Fls. & Frts. : July to September. Vern. : Pahadvel.

Herbarium: HSP-1638 A,B,C. Locality: Chandakhana.

Common on bushes in hilly regions.

2. Cocculus, DC. nom. Cons.

1. C.hirsutus (L) Diels in Engl. Pflanzenr. 46:236-1910 (C.villosus DC). Woody twiner, young parts densly hairy. Leaves very variable in size and shape, usually ovate. Flowers small, dull green; males in axllary short panicles; female flowers in axllary clusters. Drupes compressed, seeds black. Fls. & Frts. : December to June. Vern. Vasanvel.

Harbarium: HSP-3013 A,B,C. Locality: Dalmodi.

3. Tinospora, Miers.

1. T.cordifolia (Willd). Miers. Hook & Thoms. Fl.Ind. 183.1855.

Woody twiner with sinuate or lenticulate branches. Leaves membranous, roundish, cordate. Flowers yellowish-green in axillary racemes. Male flowers butri-lobed; reflexed at the apex. Drupes oranger-red when ripe. Fls. & Frts: January to June. Vern.: Gulvel Herbarium: HSP-3014- A,B,C. Locality: Khatav.

2. T.sinensis (Lour.) Merr. in sunyatsenia. 1:193.1934 (T.malbarica, Lamk.) Hook. Straggling shrub, bark dirty green, warty. Leaves 8-12 cm, long, ovate cordate. Flowers greenish yellow in long racemes on old branches. Drupes orange red when ripe. Fls. § Frts.: January to May.

Herbarium: HSP-1626-A,B,C. Locality: Chandakhana.

Straggling Climber in hilly regions.

PAPAVARACEAE

1. Argemone, Linn.

1. A. mexicana Linn. SP.Pl. 508. 1753. Erect annual herb, 30 - 90 cm tall. Stem prickly with yellow latex. Leaves variously lobed, spinous marginated. Flowers yellow, solitary, terminal, 2-4 cm across, surrounded by small leafy bracts. Capsules prickly, dehiscing by terminal opening. Fls. & Frts.: Throughout the year. Vern.: Pivala Dhotra.

Herbarium: HSP-4456-A,B,C. Locality: Dalmodi.

Common weed in the fields and wastelands.

BRASSICACEAE (CRUCIFERAE)

1. Brassica, Linn.

1. **B.juncea** (L.) Czern. Consp. Pl. Chark. 8. n. s. 1859.

Annual herb, 30 cm to 1 meter tall. Leaves lyrate-lobed, obovate.

Flowers bright yellow in terminal elongating racemes. Silque 3-6 cm long, beaked, many-seeded. Seeds brown Fls. & Frts. : September

Herbarium: HSP-1381-A,B,C. Locality: Khatav.

to December. Vern. : Mohari.

Naturalised weed in cultivated crops.

2. B.nigra (L.) KOch. in Roenling's Deutshl. Fl.ed. 3. IV: 713, 1833. Much branched annual herb. Leaves variable; lobed; terminal lobe very large; glabrous or slightly hairy. Flowers yellow in terminal racemes. Silique 4- angled, on short pedicels. Seeds ovate brown.Fls. & Frts.: September to November. Vern.: Mohari.

Herbarium: HSP-1656-A,B,C. Locality: Khatav.

Weed of wet land.

- * 3 B.oleracea L.Var. capitata L.SP.Pl. 667, 1753 Vern. : Kobi.

 Var. botrytis L.Sp.Pl. 667, 1753. Vern. : Phul Kobi.
 - 2. Raphanus, Linn.
- * 1. R.sativus L.Sp.Pl. 669, 1753. Vern. : Mula.

CAPPARIDACEAE.

1. Cadaba Frosk.

- 1. C.fruticosa (L.) Druce. Bot.exch. Club. Soc.Brit. Isles
- 3 : 415, 1914. (<u>C.indica</u>, Lamk.). A straggling much branched shrub. Stems terete, the older smooth, purplish. Leaves simple entire, elliptic-oblong, obtuse. Flowers corymbose. Sepals subequal. Petals spathulate. Fls. & Frts. : November to April.

Herbarium: HSP- 4478-A,B,C. Locality: Mayani.

2. Capparis, Linn.

1. C.decidua (Forsk). Edgew. in J.Linn. Soc. 6: 184. 1862

(C. aphylla Roth.) Straggling much branched shrub, 1-2 m tall rarely 6 m tall. Leaves 0.4-1.3 cm long, only on young shoots, sessile, linear, pungent. Flowers 2.5 cm in diam., red or scarlet, in many flowered corymbs on very short lateral shoots. Fruits fleshy. Vern.: Nepati. Fls. & Frts.: March to November.

Herbarium : HSP-4479-A,B,C. Locality : Dalmodi.

Common in erroded fields and riversides.

2. C.divericata. Lamk. Encycl. 1: 606. 1785. A much branched shrub. Leaves narrow, oblong, mucronate, rounded at the base, the young leaves tomentose, stipular thorns stout, straight. Flowers axillary, solitary, greenish, sepals ovate, petals oblong. Fruit 5 cm in diam. Fls. & Frts. February to April.

Herbarium: HSP-4480-A,B,C. Locality: Vaduj.

3. C.zoylanica, L.Sp. Pl.od. 2, 720, 1762. Scandent shrub armed with short hooked attpules. Branchiets densely covered with brown indumentum. Leaves ovate toelliptic, emargnate at apex. Flowers dull white about 3 cm across, supra axillary, 1-3 together. Fruit sub-globose, red brown. Fls. & Frts. : January to June. Vern. : Wagati.

Herbarium: HSP-4481-A,B,C. Locality: Khatav.

CLEOMACEAE.

1. Cleome, Linn.

1. C.gynandra, L.Sp. Pl. 671. 1753. (Gynandropsis pentaphylla DC) Glandular-pubescent herb , 30-70 cm high stems striate, branched at the base. Leaves 3-5 foliate. Flowers white in terminal racemes. Silique 5-7 cm long. Seeds dark brown muricate. Vern. : Pandhari-Tilwan. Fls. & Frts. : June to October.

Herbarium: HSP-1693-A,B,C. Locality: Khatav.

Common on waste lands on old walls.

2. C.simplicifolia, Hook. f \S T. Fl. Brit. Ind. 1: 169:1872. Spreading annual herb with long stout tap root. Stems angled. Leaves elliptic or obovate upto 3.5 x 2.5 cm but usually smaller, hirsute. Flowers pink-purple, solitary, axillary tetramerous. Capsules slightly compressed. Seeds muricate. Fls. \S Frts. : June to September.

Herbarium: HSP-1694-A,B,C. Locality: Kartikswami.

3. C.viscosa, L.Sp. Pl. 672. 1753. Glandular pubscent herb, 30-90 cm tall. Branches few from the base. Leaves digitate, 3-5 foliate. Flowers yellow, axillary solitary, growing into a lax raceme. Silique 5-6 cm long Vern. : Pivali Tilawan. Fls. & Frts. June to October.

Herbarium: HSP-1695-A,B,C. Locality: Bombale.

Common on waste land.

FLACOURTIACEAE.

1. Flacourtia, Commers.

1. F.montana Grah. Cat. Pl. Bombay 10. 1839. A dioecious, very thorny tree. Leaves 3-5 nerved from the base, ovate, acute or acuminate, crenate, glabrous and shining above, glabrous beneath except the midrib, base rounded, petioles 1 cm long. Flowers in densely fascicled pubescent racemes. Fruit globose. Fls. & Frts. November to March. Vern.: Attak.

Herbarum : HSP-2683-A,B. Locality : Chandakhana.

Common shrub of hill forests.

POLYGALACEAE.

1. Polygala, Linn.

1. P.arvensis, Willd. Sp.Pl. 3: 876. 1802. (P.chinensis L.)

Annual herb, 3-25 cm tall, glabrous or pubescent. Leaves variable, obovate, orbicular, flowers yellow in axillary or extra axillary short, few-flowered racemes. Seed ovate, brown hairy, strophiolate, with 3 membranous appendages. Fls. & Frts.: June to September. Herbarium: HSP-4460-A,B,C. Locality: Dalmodi.

Common in grass lands.

2. P.erioptera, DC. Prodr. 1: 326: 1824.Erect annual herb, 30-40 cm tall. Leaves linear to elliptic oblong. Flowers-pink to rose coloured. Capsules oblong elliptic; seeds dark brown or black, densly clothed with long white or dirty brown hairs. Fls. & Frts.:

July to February.

Herbarium: HSP-4461-A,B,C. Locality: Ramdongar.

3. P.persicariaefolia DC. prodr. 1 : 326. 1824. Annual, herb. subsessile, peerrenial Leaves lanceolate. Flowers rose coloured; bracts small. Outer sepals ovate. oblong, wings membranous, capsules elliptic; seeds strophiolate. clothed with dense subappressed hairs. Fls. & Frts. August to September.

Herbarium: HSP-4462-A,B,C. Locality: Ramdongar.

Very common on denuded soils and hillslopes.

CARYOPHYLLACEAE.

1. Polycarpea, Lamk.

1. P.corymbosa (L.) Lamk. Encycl. 2: 129, 1797.

Erect much branched herb, 10-30 cm tall. Stems dichotomously branched and covered with weak, white hairs. Leaves sessile, linear-lanceolate, 1-3 cm long and 1 mm broad. Flowers in terminal, corymbose or dichotomous cymes.Fls. & Frts. :August to November.

Herbarium: HSP-4476-A,B,C. Locality - Dalmodi.

Common in cultivated fields.

2. Polycarpon, Linn.

1. P.prostratum (Forsk.) Aschers. & Schweinf. in Oster. Bot. Zeitscher. 39. 128. 1889 (P. loeflingiae, Benth. & Hook. f.) A perennial herb; branches more or less pubescent, numerous spreading from a centre, diffuse, wiry, prostrate. Leaves linear-oblong, acute, pubscent; stipules scarious, white. Flowers small, in numerous usually dense, dichotomous cymes. Sepals ovate oblong, acute. Petals small.Fls. & Frts: May to June.

Herbarium: HSP-4477. Locality: Ramdongar.

Growing along the road sides & in drying ponds.

PORTULACACEAE.

1. Portulaca, Linn.

1. P.oleracea , L. Sp.Pl. 445. 1753. Succulent, prostrate herb with reddish stems and fleshy sessile or subsessile leaves. Flowers yellow in sessile terminal heads. Capsule circumcissile, greenish with red base. Seeds black Vern. : Ghol.Fls. & Frts. Throughout the year. Herbarium: HSP-2679-A, B. Locality: Katarkhatav.

2. P.quadrifida, Linn. Mant. 1:73. 1767. Succulent, prostrate, annual herb. stems rooting at nodes. Leaves 3-6 mm long, whorled. Flowers yellow, solitary, terminal, surrounded by long white hairs. Fls. & Frts. September to February.

Herbarium: HSP-3007-A. Locality: Dalmodi.

Common weed of wet places.

MALVACEAE.

1. Abelmoschus, Medik.

- *1 A. esculantus (L.) Moench. Menth. Pl. 617. 1794. (<u>Hibiscus</u> esculantus, L.) Vern. : Bhendi.
- 2. A.manihot , (L.) Medik. Malv. Fam. 46. 1787. (Hibiscus tetraphyllus Roxbi.) Annual woody herb with spreading branches stems 60-90 cm long, minutely prickly, usually tinged with red. Leaves cordate, orbicular, angled or palmately 3-5 lobed. Flowers solitary, axillary or in terminal lax racemes. Corolla pink. Capsules ovoid, 2- cm long, hairy. Fls. & Frts. : October to January. Vern. Ranbhendi.

Herbarium: HSP-4451-A,B,C. Locality: Khatav.

Occasional in cultivated fields and on bunds.

2. Abutilon, Linn.

1. A.indicum (L.) Sweet. Hort.Brit. 54.1826. Much branched annual or perrenial shrub, 1-2 meter tall. Leaves ovate, cordate 5-8 x 1-5 cm. Flowers orange-yellow, 1.5-3.5 cm across, solitary, axillary, opening in the evening. Carpels usually 15-20, with a distinct small acute point. Fls. & Frts. : August to January. Vern. : Shikka, Karandi.

Herbarium: HSP-3022-A,B,C. Locality: Dalmodi.

Common on waste land near villages & cultivated fields.

2. A.pannosum (Forst.f) Schlecht. Bot. Zeit. 9:828.1851 (Abutilon muticum Dc.). Tomentose underschrub, 30-100 cm tall. Leaves 5-10 cm in diameter, cordate, ovate. Flowers yellow, 2.5 cm across, on solitary or axillary peduncl. Carpels about 20-25, obtuse. Fls. § Frts.: November to June. Vern.: Karandi.

Herbarium: HSP-3021-A,B,C. Locality: Dalmodi.

Weed of abondoned fields.

3. Gossypium, Linn.

- *1 G.arboreum, L.Sp.Pl. 693. 1753. Vern. : kapus.
- *2 G.herbaceum, L.Sp.Pl. 693, 1753. Vern. : Kapus.

4. Hibiscus, Linn.

- *1 H.cannabinus , L.Syst. Nat. 1149, 1759. Vern. : Ambadi.
- 2. H.ovalifolius, (Forsk.) Vatil, Symb. 1:50. 1790.(Hibiscus micranthus, L.). Erect, shrubby plant, 1-1.5 meter tall. Leaves 1.5-3 x 1-1.5 cm, ovate, elliptic or obovate. Flowers less than 1 cm across, pink or white, axillary solitary. Capsules globose, 6-8 mm in diam. Seeds black, cottony. Fls. & Frts. September to January.

Herbarium : HSP-3025-A,B,C. Locality : Ambheri.

Common on slopes of hills.

- *3. H.rosa-sinensis, L.Sp.Pl. 694. 1753. Vern. : Jaswand.
- *4. H.sabdariffa, L.Sp. Pl. 695. 1753. Vern. : Tambadi-Ambadi.

5. Kydia, Roxb. °

1. K.calycina, Roxb. (Hort. Beng. 1814) Pl.Cor. 3:12 t 215. 1811. A small tree. Leaves 10-15 cm long, palmately 7-nerved, cordate, glabrous above, tomentose beneath. Flowers in panicles. Involucral bracts 4-6, strongly nerved. Capsules loculicidally 3-valved, globose. Fls. & Frts.: August to December. Vern.: Varang.

Herbarium: HSP-3020-A,B. Locality: Ramdongar.

Occasional in the hill forests.

6. Malva, Linn.

1. M.parviflora, L. in Hojevc. Demosts. Pl. Hort. Ups.18.1753. A spreading herb, 10-30 cm tall, Pubescent and with stellate hairs. Leeaves suborbicular, cordate, finely crenate; petioles long. Flowers axillary, short, white. Involucral bracts very short. Fruit winged, often with few minute feeth. Seeds black. Fls. & Frts.: July to September.

Herbarium: HSP-2223-A,B,C. Locality: Khatav.

Common near villages and on old walls.

7. Malvastrum, A. Gray.

1. M.coromandelianum, (L.) Garcke in Bonplandia 5:295,1857. Erect or procumbent. woody herb. stems 15-20 cm long, stellately hairy. Leaves ovate, 2-4 x 1-2.5 cm, crenate-serrate. Flowers orange-yellow, axillary, solitary or clustered. Capsules 5-6, seperating into 1-seeded cocci at maturity. Fls. & Frts.: July to January.

Herbarium: HSP-3019-A,B,C. Locality: Pusegaon.

Common weed of garders, cultivated fields and waste lands.

8. Malvaviscus, Dill.

*1 M.conzattii, Greenm in Publ.field. Mus.Nat.Hist.Chicago (Bot).2:333, 1912/ Vern.: Mirchi-Jaswand.

9. Sida, Linn.

1. S.acuta, Burm. f.Fl. Ind. 147. 2768. Much branched, woody, annual 0.3 to 1 meter tall. Leaveslanceolate, serrate, 2-10 x 0.6-3 cm. Flowers yellow, on 1-2 axillary pedicels. Carpels strongly reticulated, 2-awned. Fls. & Frts. : AAugust to January.

Herbarium: HSP-4551-A,B. Locality: Khatav.

Common weed of waste land.

2. S.alba, L.Sp.Pl.ed. 2,960. 1763 (S.spinosa L.) Erect woody herb, 30-90 cm tall. Leaves ovate, 2-4 x 1.5-3.5 cm, crenate, serrate, cordate at base. Flowers white, 1-1.5 cm across, solitary or paired in leaf axils. Carpels awned. Fls. & Frts. September to December.

Herbarium: HSP-3024-A,B,C. Locality: Dalmodi.

Common weed of waste land.

3. S.cordifolia, L.Sp.Pl.684. 1753: Shrubby, branched softly hairy perennial herb. Leaves cordate, ovate-oblong, crenate, obtuse. Flowers solitary or few together. Fruit 1 cm in diameter. Carpels 7-10, strongly reticulated. Fls. & Frts.: October to December. Vern.: Bala

Herbarium: HSP-2661-A. Locality: Khatav.

A common weed of cultivated fields.

4. S.glutinosa , Car.Diss. 1:16, t.2, f.8 1785. Erect woody annual, 30-90 cm tall, glutinous -hairy. Leaves broadly ovate, cordate

7x6 cm. Flowers solitary or in short racemes, pale yellow about 1 cm across capsules trigonous smooth. Fls. & Frts. : November to February.

Herbarium : HSP-3023-A,B,C. Locality : Dalmodi.

Common under the shade of trees.

5. S.rhombifolia, L.Sp.Pl.684 .1753. Shrubby, erect. Branches minutely stellately hairy. Leaves on the middle of the stem, ovate or truncate, some times retuse, dark green and glabrous above, tomentose beneath. Flowers axillary and crowded towards the ends of the branches. Fls. & Frts.: October to December. Vern.: Ati-Bala. Herbarfum: HSP-2660-A,B. Locality: Khatav.

A common weed on the hill slopes.

10. Thespesia soland. ex Correa

* 1T.populnea (Linn) Soland. ex. Correa in Ann. Mus.Nat.Hist.(Paris)
9: 290 t. 8 f. 1 1807. Vern.: Gulbhendi.

BOMBACACEEAE

Bombax, Linn.

B.ceiba, L.Sp.Pl. 511. 1753. (<u>Bombax malbaricum</u>, DC.) Tall deciduous tree with prickly stems and branches. Leaves digitate, 5-7 foliate. Flowers bright red, Ca 4-7 cm across when tree is without leaves. Capsules woody. Vern.: Katesawar. Fls.& Frts.:

March to June.

Herbarium: HSP-4552-A,B. Locality: Jakhangaon.

Occasional along stream banks and in hilly regions.

STERCULIACEAE

1. Sterculia, Linn.

S.urens, Roxb. Pl.Cor.1:25 t. 24. 1795. A large tree, young parts more or less pubescent, trunk erect, bark white. Leaves palmately lobed, lobes 5. Flowers yellow, numerous, hermaphrodite or female mixed with many males in grandular pubescent terminal panicles. Calyx companulate. Folicles 4-6. Ovoid-oblong, densly pubescent, with stinging hairs. Vern.: Kandol, Pandruk. Fls. & Frts.: November to February.

Herbarium: HSP-4468-A,B,C. Locality: Kartikswami.

Common in drydecioduous forests in hilly regions.

*2 S.foetida, L.Sp.Pl. (1753) P.1008 Vern. : Jangali Badam.

TILIACEAE

1. Chorchorus, L. .

1 C.olitorius, L. Sp.Pl. 529, 1753. Woody annual, 45-90 cm tall or rarely taller. Leaves ovate or elliptic-lance-olate, 5-10 x 3-5 cm, serrate. Flowers yellow in extra-axillary pedunculate pairs, 1-1.5 cm across. Capsules 3-6 cm long, beaked, 5- valved. Fls. & Frts.: September to January.

Herbarium: HSP-2686 -A. Locality: Dalmodi.

Common in Marshes and wet fields.

2 C.trilocularis, L.Mant. 77, 1767: Most in Hook. f.Fl.Brit.Ind. 1:397, 1874. Erect woody annual, 30-90 ccm tall. Leaves 2-8 x 1-3 cm, elliptic or oblong lance-olate, serrate. Flowers yellow, 1 cm across in snort axillary cymes. Capsules linear. 5-7 cm long, 3-valved. Fls. & Frts.: August to January.

Herabrium: HSP-1388-A,B,C. Locality: Dalmodi.

Common weed of wet fields.

2. Grewia, Linn.

G.abutilifolia Vent. ex. Juss. in Ann. Mus.Paris. 4:92.1804.G.aspera
Robx): straggling snrub 2-3 m tall. Leaves 5-10 x 4-9 cm,
roundish-ovate, serrate, often slightly lobed. Flowers white or
pale yellow, in short axillary or extra axillary cymes. Drupes
often 4-lobed, minutely hairy. Fls. & Frts.: June to September.
Herbarium: HSP-1411-A,B. Locality: Kartikswami.

Common in hill forests on slopes.

G.serrulate DC. Prodr. 1: 510. 1824. (G. disperma ,Rottl.) Shrub 2-3 meter tall. Leaves ovate-lanceolate, 7-9 x 3.5-5 cm, serrate. Flowers pale yellow or white in axillary cymes. Petals usually bifid at apex. Drupes glabrous 1-4 lobed. Fls. & Frts. : January to September.

Herbarium: HSP-1410-A,B,C. Locality: Kartikswami.

Common in hill forests on slopes.

3 G.filifolia Vanl. Symb. 1:35. 1790. Small tree, young parts densely pubescent. Leaves ovate, 6-10 x 5-7 cm, acuminate, obscurely lobed at apex, crenate, dentate. Flowers white in axillary umbels. Petals densely villous on margins. Drupes 2-4 lobed. Fls. & Frts.: July to September.

Herbarium: HSP-1409-A,B,C. Locality: Kartikswami.

Common in hill forests.

3. Triumfeta, Linn.

1 T.rotundifolia, Lamk. Encycl. 3:421. 1792. Much branched under shrub about 1 meter tall. Leaves orbicular to ovate, 1-2.5 cm in diameters irregularly tothed, glabrous above, grey pubescent beneath. Flowers yellow, 6-8 mm across, in interrupted terminal racemes. Capsules globose, covered with hooked spines. Fls. & Frts.: July to December.

Herbarium: HSP-1408-A,B,C. Locality: Dalmodi.

Common along the border of fields and on waste lands.

LINACEAE

1. Linum, Linn.

L.Mysorense, Heyne ex Benth. Apud. Lindl. Bot. Reg.16 t 326. 1830. Annual, erect nerb, 20-30 cm tall. Stem Slender, leafy. Leaves sessile, oblong, mucronate, 3-nerved. Flowers solitary, collectively forming a corymbose terminal panicle, yellow Capsules globose, seeds elliptic, compressed. Vern.: Undri.Fls. & Frts.: August to December.

Herbarium: HSP-3005-A,B,C. Locality Ramdongar.

Common on the hills.

*2 L.usitatisimum L.Sp.Pl.277. 1753. Vern.: Jawas.

MALPIGHIACEAE

1.Aspidopterys, A.Juss.

A.cordata, (Heyne exwall.) A Juss. in Ann.Sci.Nat.Bot.Ser.2,13:267
1840. Scandent or twining shrub, densly hairy. Leaves broadly
ovate or orbicular, accuminate Ca 6-12 cm wide or more. Flowers
creamy white, in large panicles. Fruits winged. Vern.: Buryel.
Fls. & Frts.: January to April.

Herbarium: HSP-3010. Locality: Ramdongar.

Rare in hill forests.

2. Hiptage, Gaertn.

H.benghalensis (L.) Kurz. in J.Asiat. Soc. Bengal 43(2):136.1874.
(Hiptage madalblota, Gaertn.). A large woody much branched climbing shrub. Leaves coriaceous, elliptic-oblong, silky-pubescent outside, petals orbicular, clawed, fringed on the central wing between the two lateral. Vern.: Madhumalati. Flowers: November to March.

Herbarium: HSP-3090 . Locality: Kartikswami

Rare in hilly forests.

ZYGOPHYLACEAE.

1. Fagonia, Linn.

F.indica Burm. f. Fl. Ind. 102. t. 34 f. 1. 1768. (Fagonia cretica, Linn.). A small spiny erect under shrub, more or less, glandular, branches slender. Leaves opposite, 1-3 foliate. Flowers small, pale rose colored. sepals long, ovate. Petals spathulate ovary nairy. Fruit pyramidal towards the apex. Vern.: Dhamasa. Fls. & Frts.: April to June.

Herbarium: HSP-1425-A,B,C. Locality: Gopuj.

2. Tribulus Linn.

1 T.terrestris, L.Sp.Pl. 387. 1753. Prostrate herb with well developed tap root. Stems 30-75 cm long, spreading, white hairy, terete. Leaves unequal and oposite, pinnate, 2.5-5 cm long, stipulate. Flowers yellow, solitary in leaf axils. Fruits hairy or

glabrous, consisting of 5 woody cocci, each with 2 pairs of spines.
Fls. & Frts. June to December. Vern.:Sarata.

Herbarium: HSP-3501- A,B. Locality: Dalmodi.

Common in grass-lands.

OXALIDACEAE

1.Biophytum, DC.

1. B.sensitivum, (L.) DC. Prodr. 1:690. 1824. Erect annual, 3-20 cm tall. Leaves pinnate; leaflets 3-10 \times 2-6 mm, elliptic to obovate. Flowers yellow in terminal umbels, heterotristylous (styles shorter as long as or longer than the stamens). Sepals as long as petals or nearly so. Fls. & Frts. August to December.

Herbarium: HSP-2689-A,B. Locality: Ramdongar.

Common weed of cultivated fields.

2. Oxalis. Linn.

O.corniculata L.Sp.Pl.435.1753. Small procumbent herb. Leaves palmately 3-foliate; leaflets 4-15 mm long, obcordate. Flowers in axillary umbels, yellow, Capsules 1-1.5 cm long, linear, beaked. Fls. & Frts.: October to July. Vern. Ambusi.

Herbarium: HSP-2688-A,B. Locality: Khatav.

Common weed of cultivated fields.

BALSAMINACEAE

1.Impatiens, Linn.

1.I.balsamina, L.Sp.Pl.938. 1753. Annual, Erect, 30-90 cm tall. Leaves alternate, lanceolate, 6 - 12 x 1.5 cm, deeply serrate. Flowers pink, 1-3 in axils. Capsules spindle shaped, tomentose. Fls. & Frts. August to November. Vern.: Terda, Gauri.

Herbarium: HSP-1685-A,B,C. Locality: Kartikswami.

RUTACEAE

1.Aegle(L.) Corr.

A.marmelos (L.) Corr. Prans. Linn. Soc. 5:223: 1800. Tall tree armed with thorns; branches terete, young parts pubescent. Leaves pinnately 3-foliate; petioles ca 1 cm long, pubescent; leaflets ovate, lanceolate, accuminate, 4-5 x 2-3 cm. Flowers bisexual, greenishwhite, scented in axillary panicles. Fruit 5-10 cm in diam. globose, rind grey or yellowish, pulp sweet, thick, orange.Fls. & Frts. : April to August. Vern. : Bel.

Herbarium: HSP-2678- A,B. Locality: Pusegaon.

Cultivated as well as wild.

2.Limonia Linn.

1 L.acidissima L.Sp.Pl.2, 554. 1762. (Feronia elephantanum Corr.)

Moderate sized tree with sharp straight spines. Leaves alternate,
imparipinnate; petiole and rachis flat, often narrowly winged;
leflets 3-9, opposite. Flowers dull red in lateral or terminal
pubescent panicles. Fruit 4-5 cm in diam. globose.Fls. & Frts.

March to September. Vern.: Kavath.

Herbarium: HSP-1608-A,B. LLocality: Banpuri.

Often cultivated; occassionaly wild.

3. Murraya , Koeniex L.

M.koenigii (L.) spreng. Syst. 2: 315. 1826. Shrub or a small tree. Leaves imparipinnate; petioles terete, pubescent; leaflets 11-25, alternate, 2-5 x 1-2 cm, obliquley ovate or somewhat rhomboid accuminate. Flowers white in terrminal corymbose cymes. Fruit ovoid, 5-6 mm in diam, 2-seeded. Fls. & Frts. : October to April Vern. : Kadhilimb.

Herbarium: HSP-A,B. Locality: Ambheri.

4.Citrus , Linn.

- *1 C.aurantium L.Sp.Pl.782. 1753. Vern. : Limbu.
- *2 C.karna, Raf. Syl.Tell.142,1838.Vern. : Idlimbu.
- *3 C.sinensis (L.) Osbeck, Dagbok Ostind. Res. 98, 1757. Vern. :

 Mosambi.

SIMAROUBACEAE

1. Ailanthus, Dest.

A.excelsa , Roxb. Pl.Cor. 1:24 t. 23. 1795. Moderate sized to tall tree. Leaves pinnate, 20-40 cm long, 5-15 pairs, alternate or sub-opposite. Flowers dull yellow, in large lax, F axillary, pubescent, panicles. Samara 2-5 x 1-1.5 cm, lanceolate, obtuse or rounded at apex and narrowed at base. Fls. & Frts. : January to April. Vern.: Ghodlimb, Maharuk.

Herbarium: HSP-2685-A,B. Locality: Dalmodi.

Cultivated alone road-sides.

BALANITACEAE

1.Balanites, Del.

1 B.aegyptica (L.) Del.Fl.Agypt 77 & 221. t. 28 f. 1.
1813. (Balanites roxburgnii Planch.) Shrub or small tree armed with straight, sharp, hard thorns, (a, 3.5 cm long. Leaves palmately bifoliate. Flowers in short axillary, grey-hairy cymes.

Drupes ovoid, $5 \times 3.5 \text{ cm}$, yellow, glandular. 5-grooved, woody. Fls. & Frts. March to November.

Herbarium: HSP-4553-A,B. Locality: Mayani.

Frequent on bunds of fields.

BURSERACEAE

1.Boswellia, Roxb.

1 B.serrata Roxb. ex. Coleb. As. Res. 9:379, 1807. Middle sized tree with thin papery, ash colored bark. Leaves pinnate, 10-230 cm long. Leaflet pairs 8 to 15. Flowers in axillary racemes, dull greenish-white. Drupes trigonous, red. Fls. & Frts.; February to June. Vern.: Salai.

Herbarium: HSP-1682-A,B,C. Locality: Kartikswami.

Common in hilly regions.

MELIACEAE

1. Azadirachta, A.Suss.

A.indica , A. Juss. in Mem. Mus. Hist. Nat.Paris. 19:221.t.2.f.5
1830. Tall tree, sometimes 15-18 m in height, bark brown. Leaves
unipinnate 20-40 cm long, crowded near the ends of the branches,
leaftles pairs 20-40. Flowers white in axillary panicles shorter
than the leaves. Drupes elliptic oblong, yellow, 1.5-2 cm long,
glabrous 1. Seeded. Fls. & Frts. February to May. Vern. :
Kadulimb.

Herbarium: HSP-3012-A,B. Locality: Dalmodi.

Common, a dominant tree in the Taluka.

2.Melia, Linn.

M.azedarach, L.Sp.Pl. 384. 1753. Moderate sized tree, 7-10 m tall. Leaves bipinnate ca 50 cm long, glabrous. Flowers white with purple tinge, fragrent, in axillary panicles which are shorter than leaves. Drupes elliptic, green slightly muricate, 2 x 1 cm. Seeds 4. Fls. & Frts.: June to September. Vern.: Limbara.

Herbarium: HSP-3011-A,B,C. Locality: Dalmodi.

CELASTRACEAE

- 1. Cassine , L.(Elaeodendron, Jacq.).
- 1 C.gluaca , (Rottb) O.Ktze. Rev. Gen. Pl. 1:114, 1891.

 (Elaeodendron glaucum (Rottb). Pers.Shrub or a small tree with subopposite oblong-elliptic to lanceolate leaves, 4-13 x 3-6 cm. Flowers pale greenish yellow in axillary and terminal cymes. Drupes brown, obovoid, ca 1 cm long. Fls. & Frts. :September to February.

Herbarium : HSP-4489-A,B,C. Locality : Ramdonagar.

Common in hills on slopes.

2.Celastrus, Linn.

1 C.paniculatus, Willd. Sp.Pl. 1:1125. 1797. Climbing unarmed shrub. Leaves broadly eeliptic 6-12 x 3-8 cm, crenate, serrate. Flowers yellowish or greenish white in long terminal panicles. Capsules subglobose, bright yellow, 3-valved. Seeds enveloped in a scarlet fleshy aril. Fls. & Frts.: November to April. Vern.: Malkanguni.

Herbarium: HSP-4488-A,B,C. Locality: Ramdongar.

Common in hilly regions.

3. Maytenus, Molina emend. Bose

Gymnosporia, Wt. & Arn.)

M.rothiana (Walp.) Lobreau-callen.Adangonia.Ser.2, 15:223,1975.

(Gymnosporia rothiana weight) A large shrub, armed with straight thorns. Leaves broadly obovate cuneate, crenulate, dark green above, pale beneath, glabrous. Flowers in fascicles from the older branches, greenish white.Fls. & Frts.: April to June. Vern.: Yenkali.

Herbarium: HSP-4487-A,B,C. Locality: Ramdongar.

Common plant in hill forests.

RHAMNACEAE

1. Zizyphus, miller.

1 Z.glabrata, Heyne ex Roth. Nov. Pl.Sp. 159. 1821 (Z trinervia Roxb.) A small unarmed tree. Leaves elliptic subobtuse, often mucronate, prominantly three nerved from the base. Flowers greenish yellow in axillary peduncled cymes. Drupes 1.5 to 2 cm in diam. Fls. & Frts.: November to January. Vern.; Bor.

Herbarium: HSP-4554-A,B. Locality: Dalmodi.

Very common shrub in open lands.

2. Zizyphus mauritiana Lamk. Encycl. 3: 319, 1789 (Zizyphus jujuba Lamk). Armed shrub or a small tree, branchlets grey tomentose. Leaves broadly elliptic or orbicular glabrous above; densly white; stipular spines hooked. Flowers greenish-white in axillary fascicles. Drupes brown, 1-1.5 cm in diam. Fls. & Frts.: September to January. Vern. Bor.

Herbarium: HSP-4555-A,B. Locality: Khatav.

Very comon and dominant shrub.

3. Zizyphus oenoplia (L.) Mill.Gard. Dict. ed. 8, 1768. Straggling shrub, branchlets densly brown hairy. Leaves obliquely rhomboid or ovate 2-4 x 1-2.5 cm, oblique at base; stipular spines in pairs of one straight and one hooked. Flowers green in axillary fascicles. Drupes globose. Fls. & Frts.: September to December. Herbarium: HSP-2687-A,B. Locality: Kartikswami.

Common on hill forests along gullies.

VITACEAE

1.Ampleocissus, planchon

1. A.latifolia (Roxb). Planch. in Journ. Vigne Amer. 3744, 1884.

(Vitis latifolia, Roxb.) Large woody climber, stems finely striate, glabrous, tendrils forked. Leaves 15 cm long and 3-7 lobed. Flowers small pentamerous, reddish brown in dense axillary and terminal cymes. Fls. & Frts. August to November Vern.: Nadena.

Herbarium: HSP-1386-A,B,C. Locality: Kartikswami.

Ocassional in hill forests along gullies.

2.Caryatia, A.L.Juss.

1 C.auriculata (Roxb) Gamble, Fl. Pres. Madras 237. 1918. (Vitis auriculata, Roxb.). Scandent climber, stems woody at the base only Tendnls slender, usually branched. Leaves 3-5 foliate; leaflets thick, ovate-elliptic. Flowers greenish white. Berry globose, glabrous. Fls. & Frts.: August to September. Vern.: Kalivel.

Herbarium: HSP-1385-A,B. Locality: Kartikswami.

3. Cissus, Linn.

1 C.quadriangularis, L. Mant. 99. 1767. (Vitis quadriangularis wall.) A leafless shrub at maturity stems very long, fleshy, quadriangular; angles of the young branches winged. Tendrils long, slender. Leaves broadly ovate, cordate. Flowers in cymes. Berry obovoid, apiculate, red when ripe. Fls. & Frts.: June to July. Vern.: Kandvel.

Herbarium: HSP-4556-A,B. Locality: Dalmodi.

2 Cissus Woodrowii (Stapf) Santapau in Kew Bull.1948. (Vitis woodrowii stapf.) Erect shrub. Leaves cordate ovate, with broad sinus, shortly 3-lobed, crenate. Flowers in compound umbles, tetramerous. Berry obovoid. Fls. & Frts.: June to September.

Herbarium: HSP-1387-A. Locality: Ramdongar.

Vern. : Girnul.

A common shrub along the edges of hills.

4. Vitis, Linn.

* V.vinifera Van Royen ex-L. Syst. Nat. ed. 12, 627. 1767.

Vern.: Draksha.

SAPINDACEAE

1. Cardiospermum, Linn.

1. C.halicacabum, L.Sp.Pl.366.1753. Climbing herb with striate stem and axillary tendrils. Leaves pinnatisect. Flowers white in umbellate cymes on axillary peduncles. Capsules trigonous, inflated. Fls. & Frts. July to September. Vern.: Kaoalphodi.

Herbarium: HSP-1405-A,B,C. Locality: Khatav.

Common in wet fields and hedges.

2. Dodonia, Linn.

2 D.viscosa (L.) Jacq. Enum. Pl.Carib. 19. 1760.

3. Schleichera, Willd.

1 S.oleosa (Lour.) Oken, Allg. Naturgesch. 3(2): 1341.1841.(S. trijuga, willd). A large with smooth grey bark. Leaves abruptly pinnate, pubescent, entire, petioles very short. Flowers white or yellowish, in branched racemes. Fruit pointed. Fls. & Frts.: Feburary to May. Vern.: Kosimb.

Herbarium: HSP-2674-A,B. Locality: Ramdongar.

ANACARDIACEAE

1. Lannea A.Rich.

L.coromandeliana (Houtt). Merrill in Journ. Arn. Arbor.

(Odina wodier)

19: 353, 1939. A deciduous tree. Leaves crowded at the ends
of the branches. Leaflets 3-5 pairs with an odd leaflet at the
end, ovate oblong, membranous. Inflorenscence cymose panicles.
Flowers shortly pedicelled, purple. Drupe red when ripe. Fls.

8Frts.: February to May.

Herbarium: HSP-2657-A,B. Locality: Chandakhana.

2. Mangifera, Linn.

M.indica, L.Sp.Pl. 200.1753. Tall tree with spreading branches. Young parts and inflorescences pubescent. Leaves oblong-lanceolate, 8-20 x 4-6 cm. Flowers cream-coloured in large terminal panicles. Drupes large of various shapes. Fls. & Frts.: January to May. Vern.: Amba.

Herbarium : HSP-3502-A,B,C. Locality : Dalmodi.
planted everywhere.

3. Semecarpus L.f.

1 S.anacardium L.f. Suppl. 182. 1781. Small tree about 3-4 m tall. Young parts and inflorenscence grey pubescent. Leaves 10-13 x 5-10 cm. ablong to oblanceolate. Flowers creamy white in axillary and terminal opanicles as long as or shorter than the leaves. Drupes shining black. Fls. 3 Frts.: September to Januarry. Vern.: Bibba.

Herbarium: HSP-3503-A,B,C. Locality: Kartikswami.

MORINGACEAE

- 1. Moringa, Lamk.
- 1. M. oleifera, Lamk. Encycl. 1: 398. 1785.

(M. pterigosperma Gaertn.) Vern. : Shewga.

PAPILIONACEAE

1.Abrus, Linn.

1. A.precatorious, L. Syst. Nat. ed. 12, 472,1767. Perennial twiner. Leaves 5-10 cm long, pinnate; leaflets 20-30, opposite. Flowers pink or white, crowded in axillary racemes. Pods oblong, 3-4.5 x 1-1.5 cm. Seeds 3-5 red with or without black spot. Fls. & Frts.: September to January. Vern.: Gunj.

Herbarium: HSP-3040-A,B,C. Locality: Kartikswami.

Common on bushes in hilly regions.

2. Aeschynomene, Linn.

1 A.indica, L.Sp.Pl. 713, 1753. Much branched woody annual, 30-90 cm tall. Leaves pinnate, 2-9 cm long, leaflets 15-71; subopposite. Flowers pale yellow in 1-4 flowered, terminal

racemes. Pods $2-4 \times 0.3$ cm, 6-10 Jointed. Fls. & Frts.: August to January.

Herbarium: HSP-1293 A,B,C. Locality: Chandakhana.

Common in ditchees and ponds.

3. Alysicarpus, Desv.

A.pubescens, Law in Wt. Ic. t.250. 1840. Erect or decumbent annual, 30-90 cm tall, branches hairy. Leaves oblong, lanceolate, 1-4.5 x 0.3-1 cm, conspicuously 3- nerved from the base. Flowers pink with yellow standard petal, in desnse terminal racemes. Pods included in the calyx.Fls. & Frts.: September to December.

Herbarium: HSP-1297- A,B,C. Locality: Ramdongar.

Common in grasslands.

2 A.rugosus (Willd.)DC. Prodr. 2:353 1825. Erect or more often procumbent herb, 30-60 cm tall. Leaves elliptic, obovate or orbicularr 0.7-3 x 0.5 -1.5 cm. Flowers pink in condensed axillary or terminal spicate racemes. Fls. & Frts. : July to January.

Herbarium: HSP-3050-A,B,C. Locality: Dalmodi.

Common in hedges and open grasslands.

A.tetragonolobus, Edgew. in J.As. SSoc. Bengal 21:169.1853. Erect or procumbent annual; branchees 10-30 cm long. Leaves ovate, 1-.3 x 0.3-0.5 cm. Flowers usually pink arranged in axillary or terminal racemes. Pods 4-angled, moniliform. Fls. & Frts.:

June to December.

Herbarium: HSP-1284-A,B,C. Locality: Khatav.

racemes. Pods $2-4 \times 0.3$ cm, 6-10 Jointed. Fls. & Frts.: August to January.

Herbarium: HSP-1293 A,B,C. Locality: Chandakhana.

Common in ditchees and ponds.

3. Alysicarpus, Desv.

A.pubescens, Law in Wt. Ic. t.250. 1840. Erect or decumbent annual, 30-90 cm tall, branches hairy. Leaves oblong, lanceolate, 1-4.5 x 0.3-1 cm, conspicuously 3- nerved from the base. Flowers pink with yellow standard petal, in desnse terminal racemes. Pods included in the calyx.Fls. & Frts.: September to December.

Herbarium: HSP-1297- A,B,C. Locality: Ramdongar.

Common in grasslands.

A.rugosus (Willd.)DC. Prodr. 2:353 1825. Erect or more often procumbent herb, 30-60 cm tall. Leaves elliptic, obovate or orbicularr 0.7-3 x 0.5 -1.5 cm. Flowers pink in condensed axillary or terminal spicate racemes. Fls. & Frts. : July to January.

Herbarium: HSP-3050-A,B,C. Locality: Dalmodi.

Common in hedges and open grasslands.

A.tetragonolobus, Edgew. in J.As. SSoc. Bengal 21:169.1853. Erect or procumbent annual; branchees 10-30 cm long. Leaves ovate, 1-.3 x 0.3-0.5 cm. Flowers usually pink arranged in axillary or terminal racemes. Pods 4-angled, moniliform. Fls. & Frts.:

June to December.

Herbarium: HSP-1284-A,B,C. Locality: Khatav.

Very common in grassland and wet. places.

A.vaginalis (L.) DC. Prodr. 2: 353 1825. Prostrate herb, stems sppreading, rooting at lower nodes. Leaves elliptic, obovate or orbicular, 0.4-2 x 0.4-1.2 cm. Flowers pink in axillary or terminal racemes. Pods compressed. Fls. & Frts.: August to February.

Herbarium: HSP-1276-A,B,C. Locality: Dalmodi.

Common in glasslands.

4. Arachis, Linn.

*1 A. hypogea, L.Sp.Pl. 741. 1753. Vern. : Bhuimug.

5. Atylosia, Wt. & Arn.

A.scarabaeoides (L.) Benth. Pl. Jungh 2. 243. 1852. Twinning herb, young parts covered with dense brown tomentum. Leaves 33-foliate, leaflets elliptic, rhomboid, 1.5-5 x 0.8-3 cm. Flowers yellow, 1-2 in axils, on short pedicels. Pods hairy, obliquely sepatate between the seeds. Fls. & Frts. : September to December.

Herbarium : HSP-1295-A,B,C. Locality : Ramdongar.

Common on open slopes.

6. Butea, Roxb. ex. willd.

1 B.monosperma (Lamk.) Taub. in engl. & Prantl, Pflanzenfam. 3(3):366. 1894. (B.frondosa Koen.). Middle sized tree; young parts to mentose. Leaves 3-foilate, leaflets obliquely rounded, 10-20 x 7-10 cm. Flowers salmon-coloured, densly velvatly-tomentose, in large racemes. Pods flat. 10-20 x 2-5 cm, 1-seeded. Fls. & Frts. March to June. Vern.: Palas.

Herbarium: HSP-3039-A,B,C. Locality: Hingane.

Very common tree along fields.

7. Cajanus, A.DC.

*1 C.cajan(L.) Millsp. Field. Columb. Mus. Bot. 2.53. 1900.
C. indicus, spreng.). Vern.: Tur.

8. Cicer, Linn.

*1 C.arietinum, L. Sp.Pl. 738. 1753. Varn. Harbhara

9. Clitoria, Linn.

*1 C.ternatea L.Sp.Pl.153. 1753. Twining, rather woody annual.

Leaves pinnate, Leaflets 5-7, sub coriaceous, elliptic, oblong, or broadly elliptic. Flowers blue or white, solitary axillary on stout pedicles. Pods oblong, slightly curved. Seeds 6-10, brown, smooth. Fls. & Frts. : Throughout the year. Vern. : Gokarna.

Herbarium: HSP-3036-A,B. Locality: Ambawade.

Cultivated as well as wild.

10. Crotalaria, Linn.

1 C.hirsuta Willd. Sp.Pl. 3. 978. 1802. An erect branched herb, 1.5 meter tall, silky hairy. Leaves simple, alternate, sessile, exstipulate, entire, linear, lanceolate, clothed with silky hairs on both the sides. Flowers borne on leafy branches 2-3 together on short peduncles. Fls. & Frts. : August to October.

Herbarium: HSP-3042-A,B. Locality: Khatav.

Common in the cultivated fields.

2 C.Juncea , L.Sp.Pl. 714. 1753. Erect, woody annual, 1-1.5 meter tall. Stem conspicuosly striated and white, hairy on the

striations. Leaves lanceolate. Flowers golden yellow in long lax terminal racemes. Pods cylindric, broad and hairy. Fls. & Frts. :

August to November. Vern. : Taag.

Herbarium: HSP-3047-A,B,C. Locality: Dalmodi.

Cultivated and escaped on waste lands.

3 C.linifolia L.f. suppl. 322. 1781. Erect herb, 15-60 cm tall, branches densly covered with appressed white hairs. Leaves oblong-linear to oblanceolate. Flowers yellow in terminal racemes. Pods quadrate not much longer than the calyx, often 4 -seeded Fls. & Frts.: August to November.

Herbarium: HSP-3044-A,B,C. Locality: Pusegaon.

Common along the banks of streams.

4 C.medicaginea Lamk. Encycl. 2. 201. 1786. A nerb, rootstocks woody, branched, tem branched. Leaves 3-foliate, stipulate. Leaflets oblanceolate, rounded, glabrous, silky beneath. Flowers in terminal and leaf opposed 2-6 flowered racemes. Pods obliquely subglobose, silky. Fls. & Frts.: August to October. Herbarium: HSP-3046-A,B,C. Locality: Kartikswami.

Common on open grasslands of hilly regions.

C.mysorensis Roth. Nov. Pl.Sp. 338. 1821. Erect annual, 30-90 cm or more tall. Stems terete, branched, densly clothed with brown spreading hairs. Leaves oblong to oblanceolate, 3-5 x 1-2 cm. Flowers in terminal elongated, many flowered racemes. Pods 2-3 cm long, truncate at apex, glabrous when ripe. Seeds black. Fls. & Frts.: September to January.

Herbarium : HSP-3043-A,B. Locality : Khatav.

Common on hills.

6 C.verrucosa L. Sp.Pl. 715. 1753. Herbaceous plant, 1 meter tall, branches 4-angled, sparsly pubescent, angles narrowly winged. Leaves rhomboid or broadly ovate. Flowers white or pale blue in terminal dense racemes. Pods oblanceolate, seeds many. Fls. &Frts.: July to November.

Herbarium: HSP-3045-A,B,C. Locality: Dalmodi.

Comon on waste lands around villages.

11.Cyamopsis DC.

*1 C.tetragonolobus (L.) Taub. in engl. & Prantl. flanzenfam. 3:259.

1894. (C yamopsis psoraliodes DC.). Vern. : Gawar.

12. Dalbergia, Linn.

D.paniculata Roxb. Pl. Cor. 2:84. t. 114. 1799. A tree, young branches clothed with greyish brown smooth bark. Leaves 10-15 cm long, rachis glabrous, leaflets 9-13. Flowers subsessile, in terminal subcymose panicles. Pods narrowed at the base § apex. Seeds 1-2. Fls. § Frts. : April to September. Vern. : Phansi.

Herbarium : HSP- 1640-A,B,C. Locality : Visapur

Occassionaly found along the streams.

†2 D.sisso Roxb. (Hot.Beng. 53. 1814) ex DC. Prodr. 2:416. 1825. Vern.: Sniswi.

13. Desmodium, Desv.

D.gangetticum (L.) DC. Prodr. 2:327. 1825. Undershrub about
 meter tall, hairy. Leaves unifoliate, oblong, 7-13 x 5-7.5
 cm. Flowers pink in racemes. Pods subfulcate, 4-8 jointed hairy.
 Fls. & Frts. : September to December.

Herbarium: HSP-1288-A,B,C. Locality: Chandakhan.

Common in the bushes of hill forests.

14. Dolichos, Lamk.

*1 D.uniflorus, La. Encycl. 2. 229, 1786. (D. biflorus auct.) Vern.:
Hulga.

15. Erythrina, Linn.

*1 E.variegata, L. Stickm. Herb. Amb. 10. 1754. (E.indica, Lamk.)

Vern.: Pangara.

16 Gliricidia, Jacq.

*1 G.sepium, (Jacq.). Kunth ex Steud. Nom. Bot.ed.2,1:688 1840.

17. Glycine willd.

*1 G.lycine max willd. Vern. : Soyabeen.

18. Goniogyna, DC.

*1 G.hirta (Willd), Ali in Taxon. 16: 462. 1967(Heylandia latebrosa DC.) Prostrate annual herb, stems spreading, 15-30 cm long. leaves ovate 10 x8 mm. Flowers yellow, solitary axillary. Pods flattened, pale brown. 1-2 seeded. Fls. & Frts.: July to December. Vern.: Godhadi, Wakal.

Herbarium: HSP-3038-A,B,C. Locality: Dalmodi.

Common on the open grasslands and bunds of fields.

19. Indigofera, Linn.

1. I.cassioides Rottl. ex. DC. Prodr. 2. 225. 1825. (Indigofera Pulchella Roxb.). An erect shrub, 1-2 meter tall, branches striate, glabrous less hairy. Leaves 8-15 cm long. Leaflets 13-21, opposite, elliptic-oblong, rounded, truncate or emarginate, apiculate. Flowers numerous moderately close short peduncled racemes, shorter than the leaves. Pods, long, straight, glabrous.

seeds 8-12. Fis. & Frts. : October to March. Vern. : Baroli.

Herbarium: HSP-1292-A,B,C. Locality: Kartikswami.

Common in the hill forests.

2. I. cordifolia Heyne. ex. Roth, Nov. Pl.Sp. 357. 1821. Erect or procumbent herb, profusely branched. Stems 15-30 cm long, hairy. Leaves Simple ovate, cordate, 1 x0.8 cm or larger subsessile. Flowers deep pink, 3 in leaf axils, Sessile or in short racemes Pods cylindric. 5-6 mm long, beaked, densly hairy. Seeds 2. Fls. & Frts. : July to November Vern. : Godadi.

Herbarium: HSP-1278-A,B,C. Locality: Palasgaon.

Common in open grasslands.

3 I.glandulosa Roxb. ex. Willd. Sp.Pl.3: 1227. 1803. Annual much branched herb branches long, slender, clothed with spreading nairs when young. Leaves 3-foliate, hairy. Leaflets oblanceolate, rounded or slightly retuse. Flowers in short axillary sessile heads.Pods pubescent, angled Seeds 1-2. Fls. & Frts. :July to December. Vern. : Barbada.

Herbarium: HSP-3049-A,B. Locality: Visapur.

Common along the ponds and fields.

4 I.linifolia (L.f.) Retz. Obs. 4:29. 1786. Prostrate or suberect, annual; stems much branched, 15-40 cm long. Leaves 1-foliate, linear lanceolate, 1-2 cm x 2 mm. acute at both ends. Flowers red, 6-12 in dense sessile or shortly peduncled axillary racemes. Pods globose, One seeded. Fls. & Frts. : July to December. Vern.: Pandharphali.

Herabarium: HSP-1277-A,B,C. Locality: Dalmodi.

Common on waste lands and in open grasslands.

5 I.tinctoria L. Sp.Pl.751. 1753. Shrub about 1-1.5 meter tall. Stems and branches appressed, pubescent. Branchlets angular. Leaves pinnate 3-10 cm long. Leaflets 9-13, opposite, elliptic to obovate. Flowers red, in dense axillary and terminal subsessile spicate racemes. Pods 2-4 cm long, linear, straight, breaked. Seeds 8-12. Fls. & Frts.: August to October. Vern.: Nil. Guli.

Herbarium : HSP-1279-A,B,C. Locality : Dalmodi.

Common in cultivated fields.

I.trifoliata L. in Torner, cent. II Pl.29. 1756. Perrenial, somewhat shruby, much branched leaves membranous, subdigitately 3-foliate,. Leaflets oblanceolate, rounded minutely apiculate, clothed with appressed hairs above. Flowers small in conjested sessile 6-12 flowered racemes. Pods deflexed, straight, somewhat 4-gonous with 4 narrow wings seeds 6-8. Fls. & Frts. : August to December.

Herbarium: HSP-12880-A,B,C. Locality: Ramdongar.

Common on the hills.

7 I.trita L.f. suppl. 335. 1781. Divaricately branched, Undershrub. stem with appressed silvery white hairs. Leaves 3-foliate, leaflets elliptic. Flowers pale pink in axillary racemes. Pods 2-2.5 cm long, strongly deflexed, straight 6-10 seeded. Fls. & Frts.: September to November.

Herbarium: HSP-1294-A,B,C. Locality: Dalmodi.

Common in the grasslands.

20. Lablab, Savi.

*1 L.purpureus (L.) Sweet, Hort. Brit. ed. 1, 481. 1827. (<u>Dolichos</u> lablab, Linn.) Vern.: Wal Papadi, Pawata.

21. Medicago, Linn.

*1 M.sativa L.Sp.Pl.778. 1753. Vern. : Lasun ghas.

22. Melilotus, Juss.

M.indica All. FlPedem 1: 308. 1785. Erect herb, 15-30 cm tall. Branches many from the base angled, sparsely hairy, striate. Leaves 3-foliate. Leaflets oblanceolate, 10-15 x 3-7 mm flowers yellow in axillary peduncled many flowered racemes, longer than the leaves. Pods about 2-mm long. Seed-1. Fls. & Frts.: January to February. Vern.: Ranmethi.

Herbarium: HSP-1296-A,B,C. Locality: Dalmodi.

Weed of wet fields and in pastures.

23. Mucuna, Adans.

1. M.pruriens (L.) DC. Prodr. 2: 105 (Mucuna prurita Hook.). Large twinning sub-shrub, hairy when young, leaves 3-foliate, leaflets ovate. Flowers dark purple in axillary druping racemes.Pods 5-shaped, densely covered with irritant bristles. Fls. & Frts.

October to December. Vern.: Khaj-Kuin.

Herbarium: HSP-1285-A. Locality: Kartikswami.

Occossionaly found in the hilly regions.

24. Mundulea DC.

M.sericea (Willd.) A.Cheval, Compt. Rend. 180: 1521.1925.

(M.suberosa DC.). A small tree, 3-5 meter tall bark pale, corky. Leaves numerous, leaflets 17-23, opposite or alternate, corfacoous, oblong, lancoolato, obtuno, glabrous and bright green above, silvery silky bineath. Flowers. Pods flattened, densly velvetly with short golden brown hairs. Seeds 3-8, yellowish brown. Fls. & Frts.: August to December. Vern.: Supti.

Herbarium : HSP-1284-A,B,C. Locality : Jakhangaon.

Rarely on the slopes of the hills.

25. Neonotonia Lackey.

N.wightii (Wt. and Arn.) Lackey in phytologia 37:209. 1977. (Glycine javanica Linn) / Large, gray-pubescent twiner. young shoots silky. Leaves 3-foliate. Leaflets 5-10 x 3-7 cm, broadly ovate. Flowers brick-red in dense axillary racemes. Pods 2-2.5 cm., densly silky, flat. Seeds 3-5.Fls. & Frts.: September to December.

Herbarium: HSP-1287-A,B,C. Locality: Ramdongar.

Common in the bushes.

26. Paracalyx, Ali.

P.scariosa(Roxb) Ali, Univ. Studies Karachi 5(3):95.1968 (Cylista scariosa Roxb.) A woody twiner. Leaves trifoliate. Leaflets 5-10 cm long. The terminal leaflet rhomboid-ovate, the lateral obliquely ovate, acute, pubescent on both the sides. Flowers in axillary racemes orpedicels short. Pod small oblique enclosed

in the calyx. Seed-1. Fls. & Frts. : November to February.

Vern.: Ranghevda.

Herbarium: HSP-2243-A,B,C. Locality: Ramdongar.

Common on the hill forests on the bushes.

27. Phaseolus Linn.

- *1 P.vulgaris L.Sp.Pl.723. 1753.
- *2 P.anularis (Willd.) W.F. wight. in U.S. Dept. Agri. Bur.Pl.

 Industry, Bull. 137: 17, 1909.(Phaseolus mungo auct.) Vern.:

 Udid.

28. Pisum Linn.

***1 P.arvense** L.Sp.Pl. 727. 1753. Vern. : Watana.

28-A Pongamia, Linn.

P.pinnata (L.) Pierre, Fl. For. Cochinch. t. 385. 1899. P. glabra, vent.) Small or middle sized tree. Leaves 3-5 or 7 foliate. Leaflets ovate-oblong or elliptic. Flowers white or pale pink in short axillary racemes. Pods 3-5 x 2-3 cm. Comparessed rather woody. Seed-1-2. Fls. & Frts.: March to August. Vern.: Karanj.

Herbarium: HSP-3041-A,B,C. Locality: Vaduj.

Common along the streams and rivers.

29. Psoralea Linn.

1 P.corylifolia L.Sp.Pl. 764. 1753. Erect annual, 30-90 cm tall, stems and branches grooved with conspicuos glands. Leaves 1-foliate, 3-8 x 3-6 cm, broadly ovate or orbicular. Flowers white, blue or pink in dense, short, axillary racemes. Pods

7 x 4 mm, ovoid oblong, compresed. Seed-1. Fls. & Frts.: August to January. Vern. : Bawchi.

Herbarium: HSP-1289-A,B,C. Locality: Kartikswami.

Common weed in waste land and in field.

30. Rhynchosia, Lour.

R.minima (L.) DC. Prodr. 385. 1825. Trailing herb, about 30-60 cm long, gray hairy. Leaves 3-foliate. Leaflets rhomboid or orbicular 1-2 cm in diameter. Flowers yellow in lax axillary racemes.Pods-long.flat hairy. Seeds-1-2. Fls. & Frts. :June Herbarium: HSP-2245-A,B,C. Locality: Dalmodi.

31. Sesbania, Scop.

- *1 S.grandiflora (L.) Poir. in Lamk. Encycl. 7:235. 1806. Vern.: Hadga.
- *2 S.sesban (L.) Merr. Philip. J. Sci.(Bot.) 7: 235 1912. Vern.: Shevari.

32. Stylosanthes, Swartz.

1. S.mucrunata Willd. Sp.Pl.V.3. P.1166. 1800. A much branched dwarf woody perrenial. Branches stiff and wiry. Leaves 3-foliate. Leaflets elliptic oblong. Flowers small, one or few, seesile in the axils of lef like stipulate bracts, forming close terminal heads or spikes. Pods veryshort. Fls. & Frts.: August to December.

Herbarium: HSP-1291-A,B,C. Locality: Ramdongar Common on the dry hills.

33. Tephrosia, Pers.

T.purpurea (L.) Pers. Syn.Pl.2:329. 1807. Undershrub, 30-40 cm tall. Stems angled. Leaves pinnate, 6-10 cm long. Leaflets 9-15, oblanceolate. Flowers pink in extra oxillary racemes. Pods about 4 x 0.4 cm. Seeds 4-6. Fls. & Frts. : July to December.

Herabrium : HSP-3048-A,b,C. Locality : Wardhangad.

Common along the roadsides.

34. Teramnus, Sw.

1 T.labialis (L.f) Spreng. Syst. 3: 235. 1826. Woody twiner clothed with appressed white hairs. Leaves 3-foliate, Leaflets elliptic. Flowers in axillary lax racemes, white when fresh, urning pale red when withered. Pods linear, flat. Seeds 3-12. Fls. & Frts.: October to November. Vern.: Ranudid.

Herbarium: HSP-224-A,B,C. Locality: Katgun.

Common in shade of tree and shrubs.

35. Trigonella, Linn.

*1 T.foenum-graecum, L.Sp.Pl. 777, 1753. Vern. : Methi.

36. Vigna, Savi

- *1 V.aconitifolia (Jacq.) Marechal in Bull.Jard. Bot.Nat.Belge.
 39:160 .1969.(Phaseolus aconitifolius Jacq.) Vern. : Mataki.
- 2 V.dalzelliana (O.Ktze.) Verdc. in Kew Bull. 24:558. 1970.
 (Phaseolus dalzellii Cooke). A twining herb, stem very slender leaves trifoliate. Lateral leaflets oblique, ovate or rhomboial ovate, sometimes lobed. Flowers at the end of slender peduncle,

Yellow. Pod subcylindrical, slightly recurved. Seeds 6-10. Fls. & Frts. : September to December.

Herbarium: HSP-1283-A,B,C. Locality Nerdamp.

Common on the open grasslands.

3 V.radiata (L.) Wilezsek in Fl. Congo. Belge 6: 386. 1954.

(Phaseolus radiatus L. Phaseolus sublobatus Roxb.). Twining or suberect herb, stems slender, clothed with spreading or deflexed reddish brown hairs angled, striate. Leaves 3-foliate. Leaflets 4-5, 8 x 3-6 cm. Flowers yellow in short axillary few flowered racemes. Pods cylindric, seeds 8-12. Fls. & Frts.: August to November. Vern.: Moog.

Herbarium: HSP-1281-A,B,C. Locality: Nerdamp.

Cultivated for its edible seeds and also found ass wild in some ports of Taluka.

4 V.trilobata (L.) Verdc. in Taxon 17: 172. 1968. (Phaseolus trilobus Ait.). Trailing herbaceous annual; stems spreading. Leaves 3-foliate, leaflets 1-5 x 1-4 cm, 3-lobed, lobes broad. Flowers yellow in axillary racemes. Pods cylindric. Seeds 6-12. Fls. & Frts.: August to Novembe. Vern.: Ranmatki.

Herbarium: HSP-1290-A,B,C. Locality: Dalmodi.

Common in open grasslands and in cultivated fields.

*5 V.unguiculata (L.) Walp. Rep. 1: 779. 1842. (V. catjangi) Vern.:

37. Zornia, Gmel.

Z.gibbosa Span. in Linnaea 15:192. 1841. (Zornia diphylla Pers.)
Much branched annual with procumbent branches. Leaves 2-filiate, leaflets pallucid-punctate. Flowers yellow in terminal racemes. Pods 1-5 Jointed, echinate. Fls. & Frts. : August to October.

Herbarium: HSP-3037-A,B. Locality: Khatav.

Common in the open grasslands on rocky soil.

CAESALPINIACEAE

1. Bauhinia, Linn.

B.racemosa Lamk. Encycl. Method 1:390,1783. Small tree with numerous spreading branches. Leaves broder than long, 2-4 x 2.5-5 cm. Flowers white or pale yellow, small in leaf opposed or terminal racemes. Pods flat, black glabrous. Fls. & Frts. March to July. Vern. : Apta.

Herbarium: HSP-2610-A,B,C. Locality: Hingane.

Occasional in hill forests and bunds of fields.

B.variegata L. Sp.Pl.375. 1753. Middle sized tree. Leaves broder than long. Flowers large, few together in leaf axils, purple with upper petal variegated with white. Pods long, flat, glabrous. Fls. & Frts.: November to January. Vern.: Kanchan.

Herbarium: HSP-3035-A,B. Locality: Ner damp.

Often planted and naturalised upto some extent.

2. Caesalpinia, Linn.

bonducella 1 C.crista, L.Sp.Pl.380. 1753.(Caesalpinia Flem.) Scandant shrub; btanches pubescent, armed with straight and hooked prickles. Leaves 30-50 cm long; pinnae 6-8 pairs; Flowers pale greenish-yellow Leaflets 5-9 pairs. supra-axillary or terminal reacemes. Pods oblong elliptic, 5-7 x 3 cm, armed with prickles. Seeds 1-2. Fls. & Frts. August to January. Vern. : Gajga.

Herbarium: HSP-2621-A,B. Locality: Umbarde.

Common in hedges around fields.

2 C.decapetala (Roth.) Alston in Trimen, Handb. Fl.Cey.6(Suppl), 89, 1931; (Caesalpinia sepiaria Roxb) Scandent shrub. branches clotned with brown tomentum; prickles with broad tomentose bases and brown glabrous tips. Leaves 20-35 cm long; pinnae 5-10 pairs; leaflets oblong. Flowers shining yellow in dense racemes. Pods 7-11 x 2-3 cm, oblong, 6-8 Seeded. Fls. & Frts.: Nov. to February. Vern.: Chilhar.

Herbarium: HSP-1651-A,B. Locality: Hingane.

- *3 C.pulcherima (L.) Swartz, Obs. 166, 1791. Vern. : Shankasur.
- *4 C.sappan, Linn. Sp.Pl. 381, 1753. Vern. : Shankasur.

3. Cassia, Linn.

1 C.auriculata, L. Sp.Pl.379. 1753. Much branched shrub 1-2 m tall. Leaves 8-12 cm long; stipules foliaceous, auricled; Leaflets 5-12 pairs, oblong-obovate. Flowers racemes. Pods flat, papary, brown many seeded. Fls. & Frts. : July to April. Vern. : Tarwad.

Herbarium: HSP-1699-A,B,C. Locality: Vaduj.

Common along fields, road sides and waste lands.

2 C.fistula, L. Sp.Pl.377. 1753. A small tree. Leaves 20-40 cm long, Leaflets 4-8 pairs, ovate or ovate oblong, 2-12 x 3-7 cm, Flowers golden yellow in large drooping racemes. Pods cylindric, 30-50 cm long, many seeded. Fls. & Frts. : March to July. Vern. : Bahava.

Herbarium: HSP-4569-A,B. Locality: Chandakhana.

Occasionaly found in the hillforests

3 C.mimosoides, L. Sp.Pl. 379. 1753. A diffuse perenial, usually erect but sometimes spreading, stems and branches terete, more or less hairy. Leaves pinnate. Leaflets very numerous, crowded. Flowers axillary, solitary. Pods flat, straight. Seeds 15-25. Fls. & Frts.: October to December.

Herbarium: HSP-4570-A,B. Locality: Khatav.

Common in the open grasslands.

4 C.occidentalis L. Sp.Pl.377. 1753. Undershrub about 1 meter tall. Leaves 10-20 cm long, leaflets often 3-5 pairs, 2-8 x 1-3 cm, long-lanceolate. Flowers yellow in axillary short crymbose racemes. Pods flat 20-30 seeded. Fls. & Frts. : June to March.

Harbarium: HSP-1637-A,B. Locality: Palasgaon.

Frequent on waste land arround villages.

5 C.pumila Lamk. Encycl. Metod. 1: 651, 1785. Prostrate woody annual; stems 15-30 cm long. Leaves 1-3 cm long; leaflets 9-15 pairs, 5-6 x 2 mm. Flowers yellow, solitary. Pods 2-3 x 0.3 0.4 cm, 6-12 seeded. Fls. & Frts.: August to October.

Herbarium: HSP-1700-A,B,C. Locality: Chandakhana.

Common in grasslands and on hill sloppes.

- *6 C.siamea Lamk. Encycl. 1: 648. 1785.
- 7 C. sophera, L. Sp.Pl. 379. 1753. Undershrub about 1-2 meter tall . Leaves 15-20 cm long, leaflets 6-10 pairs, elliptic lanceolate. Flowers yellow in axillary or terminal corymbose racemes. Pods flat, 30-40 seeded. Fls. & Frts. : June to December.

Herbarium : HSP-1698-A,B,C. Locality : Dalmodi.

Frequent on waste land near villages.

8 C.surattensis Burn. f. Fl. Ind. 97, 1768. (C. glauca Lamk.)
A small tree; branchlets glaucous. Leaves 20-35 cm long with
4-7 pairs of ovate leaflets. Flowers yellow in axillary corymbose racemes. Pods flat 20-30 seeded. Fls. & Frts. : September to May. Vern. : Sontarwad.

Herbarium: HSP-1696-A,B.C. Locality: Mayani.

Common along the bunds of fields.

9 C.Tora L.Sp. Pl. 376, 1753. Undershrub 30-60 cm tall. Leavves 4-12 cm long. Leaflets 3 pairs, orbicular to obovate, 1-7x 1-4 cm. Flowers yellow in subsessile axillary pairs. Pods subtetragonous, 10-20 x 0.3 cm long, 20-30 seeded. Fls. & Frts.: August to December . Vern.: Takala.

Herbarium: HSP-2609-A.B. Locality: Mandave.

Very common along road sides and on waste lands.

4. Delonix, Raf.

- *1 D.regia (Bojer) Ref. Fl.Tell. 2: 92, 1836. (Poinciana regia Boj). Veern.: Gulmohar.
 - 5. Parkinsonia, Linn.
 - ***1 P.aculeata**, L.Sp. Pl. 375, 1753.
 - 6. Peltophorum (Vogel) Walp.
 - *1 P.pterocarpum (DC.) Baker ex. K. Heyne Nutt. Pl.Ned. Ind. ed. 2, 2: 755, 1927.
 - 7. Tamarindus, Linn.
 - 1 T.indicus, L.Sp.Pl. 34. 1753. Large tree. Leaves 5-12 cm long. Leaflets 10-20 pairs, oblong. Flowers yellowish with pink stripes, in few flowered lax racemes at the ends of the braanchlets. Pods scurfy, 3-12 seeded. Fls. & Frts. : March to December. Vern. : Chinch.

Herbarium: HSP-2611-A,B. Locality: Dalmodi.

Common around villages and fields.

MIMOSACEAE

1. Acacia, Mill.

A.chundra (Rottl.) Willd. Sp.Pl. 4: 1078. (A.catechu Willd.)

Shrub or small tree. Leaves 10-15 cm long; pinnae 10-20 pairs; leaflets 15-20 pairs. Stipular spines short, hooked. Flowers white in axillary spikes. Pods brown, 3-10 seeded. Fls. & Frts.: August to November. Vern.: Khair.

Herbarium: HSP-1655-A,B. Locality: Palasgaon.

Common on bunds of fields.

A.leucophloea (Roxb.) Willd. Sp.Pl. 4. 1083. 1806. Small tree with whitish bark. Leaves 2-4 cm long. Pinnae 4-15 pairs; leaflets 8-20 pairs. Flowers cream-coloured. Pods flat, brown to mentose. Fls. & Frts.: September to February. Vern.: Hiwar.

Herbarium : HSP-4566-A,B. Locality : Lalgun.

Common along the bunds of fields.

A.nilotica (L.) Willd. ex.Del.Fl. Aegypt. III. 79. 1833. (A. arabica, (Lamk.) Willd.) A tall tree with brown or black longitudinally fissured bark. Leaves 5-10 cm long; Pinnae 4-8 pairs; leaflets 10-25 pairs. Stipular spines long, straight, sharp. Flowers yellow in globose heads. Pods moniliform, 8-12 seeded. Fls. & Frts. : More or less throughout the year. Vern. : Babhul.

Herbarium: HSP-4567-A,B. Locality: Diskal.

2. Albizia, Durazz.

1 A.lebeck, (L.)Willd. Sp.Pl. 4: 1066, 1806. Medium sized tree, young parts pubescent. Leaves 15-30 cm long; Pinnae usually 4 pairs; leaflets 5-9 pairs. Flowers white in globose, umbellate heads. Pods linear oblong, flat, 4-12 seeded. Fls. & Frts. April to August. Vern.: Shirish.

Herbarium: HSP-1697-A,B. Locality: Ambheri.

Occuring along roadsides and in hill forests.

A.leucophloea (Roxb.) Willd. Sp.Pl. 4. 1083. 1806. Small tree with whitish bark. Leaves 2-4 cm long. Pinnae 4-15 pairs; leaflets 8-20 pairs. Flowers cream-coloured. Pods flat, brown to mentose. Fls. & Frts. : September to February. Vern. : Hiwar.

Herbarium: HSP-4566-A,B. Locality: Lalgun.

Common along the bunds of fields.

A.nilotica (L.) Willd. ex.Del.Fl. Aegypt. III. 79. 1833. (A. arabica, (Lamk.) Willd.) A tall troo with brown or black longitudinally fissured bark. Leaves 5-10 cm long; Pinnae 4-8 pairs; leaflets 10-25 pairs. Stipular spines long, straight, sharp. Flowers yellow in globose heads. Pods moniliform, 8-12 seeded. Fls. & Frts. : More or less throughout the year. Vern. : Babhul.

Herbarium: HSP-4567-A,B. Locality: Diskal.

2. Albizia, Durazz.

1 A.lebeck, (L.)Willd. Sp.Pl. 4: 1066, 1806. Medium sized tree, young parts pubescent. Leaves 15-30 cm long; Pinnae usually 4 pairs; leaflets 5-9 pairs. Flowers white in globose, umbellate heads. Pods linear oblong, flat, 4-12 seeded. Fls. & Frts. April to August. Vern.: Shirish.

Herbarium: HSP-1697-A,B. Locality: Ambheri.

Occuring along roadsides and in hill forests.

3. Leucanea, Benth.

*1 L. loucocophala (Lamk.) do. Wit. in Taxon 10: 53. 1961. (L. glauca Benth). Vern.: Kubabhal.

4. Mimosa, Linn.

M.hamata, Willd. Sp.Pl. 4: 1033. 1806. A much branched armed shrub, prickles brown, hooked. Leaves bipinnate. Pinnae 3-4 pairs. Leaflets opposite, 4-9 pairs. Flowers pink, in globose, axillary heads. Pods falcate, 4-8 seeded, sutures provided with prickles. Fls. & Frts. :June to December. Vern. : Arati. Herbarium : HSP-4564-A,B. Locality : Enkul.

Common on bunds of fields.

*2 M.pudica, L.Sp.Pl.518. 1753. Vern. : Lajalu.

5. Parkia, R.Br.

*1 P.bigladulosa Wt. & Arn. Prodr. 279, 1834.

6. Pithecelobium, Mart.nom.Cons.

*1 P.cellobium dulce (Roxb.) Benth in Hook. Lond. Journ. Bot. 3.199, 1844, Large tree. Stems armed with short prickles. Leaves 3-5 cm long; pinnae one pair. Flowers white in globose heads. Pods spirally twisted. Seeds black enclosed in fleshy edible aril. Fls. & Frts.: January to June. Vern.: Vilayati Chinch.

Herbarium: HSP-4565-A,B. Locality: Bhurakwadi.

Planted in gardens as well as

7. Prosopis, Linn.

1. P.cinenaria (L.)Druce, Bot. Exch. Cl.Soc. Brit. Isles 3: 422.

1914. (P. spicigera L.). A tree, branches slender, glabrous,

armed with compressed prickles. Leaves 2- pinnate; pinnae usually 2- pairs. Leaflets 7-12 pairs. Flowers in axillary spikes. Pods straight cylindric. Fls. & Frts. : December to May. Vern. : Saundad.

Herbarium: HSP-4568-A,B. Locality: Dalmodi.

ROSACEAE

1. Rosa Linn.

Most of the species of Rosa are cultivated in the gardens for their ornamental flowers.

CRASSULACEAE

1. Kalanchoe, Adans.

1 K.spathulata DC. Succ. Pl. & Grasses t. 65. Erect stout perrenial herb, stem. glabrous. Leaves spathulate-oblong, obtuse. Flowers in dense many flowered cymose panicles. Follicles glabrous. Fls. & Frts.: August to October.

Herbarium: HSP-4482-A, B. Locality: Chandakhana hills.

Very common on the hills near Ramdongar.

* K.pinnata (Lamk.) Pers. Syn. 446m 1805. Vern. : Panphuti.

COMBRETACEAE

1.Anogeissus, Wall.

A.latifolia (DC.) Wall. ex. Bedd. Fl. Sylv. 2: 103, t. 15, 1869. Small tree 5-6 m tall, blachlets glabrous. Leaves elliptic oblong, 5-10 x 2-4 cm alternate or subopposite. Flowers greenish, sessile in small dense pedunculate heads. Fruits compressed, orbicular with a long beak, 2-winged wings entire. seed 1, ovoid. Fls. & Frts. : September to December. Vern. : Dhawda.

Harbarium: HSP-4491-A,B,C. Locality: Kartikswami.

Common in hill forests.

2. Combretum, Loefl.

C.ovalifolium Roxb. (Hort. Beng. 28. 1814) Fl.Ind.2:286.1832.

Large straggling shrub, glabrous. Leaves opposite, elliptic or eliptic lanceolate, 5-10 x 3-5 cm. Flowers creamy white, sessile, in axillary panicled spikes occassionally forming large pyramidal panicle, main rachis pubescent. Fruit winged.Fls. § Frts.: January to April.

Herbarium: HSP-4490-A,B,C. Locality: Kartikswami.

Rare grows on rocky places on hills.

Quisqalis, Linn.

Q.indica L.Sp.Pl.ed. 2.556. 1762.

3. Terminalia, Linn.

T.alata, Heyne. ex.Roth. Nov. Pl.Sp. 379. 1821. (Terminalia tomentosa (Roxb.ex.DC) Wt. & Arn.) Tall tree with ash white bark, branchlets silky pubescent. Leaves alternate or subopposite elliptic, oblong, coriaceous. Flowers in dense terminal panicles longer than the leaves. Samara 2.5-3.5 cm in diam. woody, dark brown, glabrous, 5-winged. Fls. & Frts. :: May to November. Vern.: Ain.

Herbarium: HSP-4492-A,B,C. Localityy: Kartikswami.

Rare in hill forests and river banks.

MYRTACEAE

1.Syzygium, Gaertn.

1 S.cumini (L.) Skeek. U.S.D.A.Bur. Pl.Industr. Bull.248:2.1912.

(Eugenia jambolana, Lamk.) Tree reaching 20 m in height,

bark ash white, terete, glabrous. Leaves opposite, oblong lanceolate, 10--16 x 4--6 cm. Flowers white in cymes Fruit subglobose. Fls. & Frts. : March to July. Vern. : Jambhul.

Harbarium: HSP-3016-A,B. Locality: Ambheri.

Planted as well as wild along roadsides, and river beds.

- # 2 Callistemon linearis DC. Prodr. 3:223. 1828.
- # 3 Eucalyptus globulus, Labill. Voy. 1. 1153 t. 13. 1800. Varn.: Nilgiri
- * 4 Psidium guajava, L.Sp.Pl.470, 1753. Vern. : Peru.

LYTRHRACEAE

1. Ammania, Linn.

A.baccifera, L.Sp.Pl.120. 1753. Glabrous erect, annual 15-60 cm tall. Stem 4- gonous with numerous horizontal or ascending branches. Leaves oposite, sessile, linear to oblong-lanceolate, 1.5-4 x 0.3 - 1 cm. Flowers red in dense axillary clusters. Capsuls depressed, globose, red irregularly circumcis. Fls. & Frts.: October to December.

Herbarium: HSP-2604-A,B,C. Locality: Yeralwadi.

Common weed of crop fields and on wet soil along stream banks.

Ammania pentandra, Roxb. Fl. Ind. V.1(1832) P.427. Stem stout 4-gonous, rooting at the base, 10-30 cm tall, with numeros branches. Leaves opposite, sessile, oblong, obtuse or subacute, Flowers sessile, solitary in the axils of nearly horizontal floral leaves. The lower whorls of flowers distant, the upper approximate, almost spicate. Fls. & Frts.: August to December.

Herbarium: HSP-2606-A,B. Locality: Ambawade.

Common along the banks of streams and rivers.

3 Ammania salicifolia Hiern. inoliv. Fl.Trop. Africa 2:478,1871. Stems erect sometimes raching 90 cm in height. Leaves often cordate at the base; those on the stem 3x6x0.3 x 1.2 cm.Flowers red in dense axillary clusters. Capsules depressed, globose, red, irregularly circumcis. Fls. & Frts.: October to December. Herbarium: HSP-2605-A,B,C. Locality: Yeralwadi.

2. Lagerstramia, Linn.

1 L. parviflora Roxb. Pl.Cor. 1:47, t. 66, 1795. A small tree; bark white, smooth, branchlets pubescent or glabrous. Leaves elliptic oblong, 4-8 x 2-5 cm. Flowers white, in axillary and terminal many or few flowers panicles. Capsules usually 2-3 x 1-2 cm., ellipsoid. Fls. & Frts. : June to September. Vern. : Bondara.

Herbarium : HSP-2654-A,B,C. Locality : Chandakhana.

Occasional in hill forest on slopes.

3. Lawsonia, Linn. -

L.inermis, L.Sp.Pl.349, 1753. Shrub about 3-5 meter tall. Stems with white or brown bark and thorny branchlets. Leaves opposite, entire, broadly lanceolate 2 x 1 cm. Flower greenish-yellow in axillary panicles. Capsules globose. Seeds many Fls. & Frts.: April to August. Vern.: Mehandi.

Herbarium : HSP-1652-A. Locality : Dalmodi.

Common in the nedges.

4. Woodfordia, solisb.

1 W.fruticosa (L.) Kurz. in Jaurn. Asist. Soc. Bengal, 4056, 1871.(W. floribunda Salist, Straggling shrub, 3-4 meter tall, branches spreading. Leaves opposite or subopposite, ovate lanceolate, 4-7 x 1-3 cm. Flowers red, numerous in short 2-15 flowered cymes from the axils of fallen and present leaves. Capsules ellipsoid. Fls. & Frts.: January to June. Vern.: Dhaiti.

Herbarium: HSP-2607-A,B,C. Locality: Kartikswami.

PUNICACBAR

* 1 Punica granatum, L. Sp.Pl.472. 1753. Vern. : Dalimb.

PASSIFLORACEAE

*1 Passiflora edulis, Sims. Bot.Mag. t.1989.1818.

CARICACEAE

*i Carica papaya, L.Sp.Pl.1036.1753. Vern. : Papai.

CUCURBITACEAE

1. Citrullus, Schrad.

1 C.colocynthis, L.Schrad. in Linnaea 12:414. 1838. Monoecious creeping herb. Leaves ovate in outlines, pinnately 5-7 lobed, each lobe again lobulate. Flowers yellow. Fruit globose, pulp bitter. Fls. & Frts.: July to February. Vern.: Indrayan.

Herbarium : HSP-1657-A,B. Locality : Vaduj.

Frequent on sandy soil along river stream-banks.

*2 C.lanatus (Thunb.) Mansf. Kutturpfl. Beit. 2:421. 1959.

(C. vulgaris Schrad.) Vern. : Kalingad.

2. Coccinia Wt. & Arn.

C.grandis (L.) Voigt. Suburb. Calc. 59, 1845. Perennial Scandent or prostrate. Leaves 3-5 lobed. Flowers white, solitary, axillary. Fruit fusiform-ellipsoid. Fls. & Frts. : June to Documber. Vorn. Tondli.

Herbarium: HSP-4572-A,B. Locality: Ambawade.

Cultivated and also naturalised around villages.

3. Cucumis. Linn.

1 C.callosus (Rottl.) Cogn. in Pflanzenr. 88:129. 1924. (C. trigonus, Roxb.) Perennial prostrate pant, scabrous. Leaves suborbicular, much broad, deeply palmately 5-7 lobed. Flowers monoecious, yellow, male flowers often solitary. Fruit obovid, round or obscurely trigonous, pale-yellow when ripe. Fls. & Frts.: June to October.

Herbarium: HSP-1658. Locality: Ramdongar.

Common weed in cultivated and barren fields.

- *2 C.melo, L. Sp.Pl.1011.1753. Vern. : Shendoda.
- *3 C.sativus , L.Sp.Pl. 1012. 1753. Vern. : Kakadi.

4. Cucurbita, Linn.

- *1 C.maxima, Duch. ex. lamk. Encycl. 2: 151. 1786. Vern. : Bhopala.
- *2 C.moschata (Duch) Poir. Vern. : Kala bhopala.
- *3 C.pepo, L.Sp.Pl. 1010, 1753. Vern. : Kashi bhopala.

5. Corallocarpus, Welw.

1 C.epigaeus (Rottl. ex Willd.) Benth. & Hook. ex Clarke in Hook. f. Fl. Brit. Indio. 2: 628. 1979. Prostrate or climbing, monoecious; stems slender, grooved. Tendrils simple. Leaves suborbicular in outline, more or less 3-5 lobed. Male flowers small. Female flowers solitary fruit breaked, Fls. & Frts. : June to September. Vern. : Karvina.

Herbarium: HSP-2670-A,B. Locality: Chandakhana.

3. Cucumis, Linn.

1 C.Callosus (Rottl.) Cogn.in Pflanzenr. 88: 129. 1924. (C. trignous, Roxb). Perennial prostrate plant, scabrous. Leaves suborbicular, much broad, deeply palmately 5-7 lobed. Flowers monoecious, yellow, male flowers often solitary. Fruit obovid, round or obscurely trigonous, pale yellow when ripe. Fls. & Frts.:

June to October.

Herbarium: HSP-1658-A, B. Locality: Ramdongar.

Common weed in cultivated and barren fields.

- ***2** C.Melo L. Sp.Pl.1011. 1753. Vern. : Shendoda.
- *3 C.sativus L.Sp.Pl.1012. 1753. Vern. : Kakadi.

4. Cucurbita, Linn.

- *1 C.maxima, Duch. ex. Laml. Encycl. 2: 151.1786. Vern. : Bhopala.
- *3 C.pepo, L.Sp. Pl. 1010, 1753. Vern. : Kashi Bhopala

- 6. Diplocyclos, (Endl.) Von.Post. & Ktze.
- D.palmatus (L.) Jeffrey. in Kew Bull. 15: 352. 1962. (Bryonopsis laciniosa (L.) Naud.) Glabrous annual climbing herb with scabrous stem. Leaves membronous, 10-15 cm wide, palmately 5-lobed. Flowers pale yellow, males in fascicles, solitary. Fruit. 1-2 cm in diam. Fls. & Frts. : August to December. Vern. : Shivlingi.

Herbarium: HSP-4496-A,B,C. Locality: Dalmodi.

Common in hedges and bushes of waste lands.

7. Lagenaria, Ser.

*1 L.sicerania (Molina) Standley in Publ. Field. Mus. Nat. Chicago,
Bot.Ser. III. 435, 1930. Vern. : Dudhya Bhopala.

8. Luffa, Linn.

- *1 L.acutangula, (L.) Roxb. (Hort. Beng. 70. 1814. et) Fl. Ind. 3. 113. 1832. Vern.: Dodka.
- *2 L.cylindrica, (L.) Rom. Synp. Pepon, 63, 1846. Vern. :
 Ghosawale

9. Momordica, Linn.

M.balsamina, Linn. Monoecious, stem very slender, grooved. Leaves membranous, cordate at the base. Flowers yellowish. Ovary fusiform, beaked. Fruit ovoid, narrowed to both ends. Fls. & Frts.: November to January. Vern.: Sindi.

Herbarium : HSP-4559-A,B. Locality : Bombale.

- ***2 M.charantia**, L.Sp.Pl. 1009, 1753. Vern. : Karale.
- 3 Momordica dioica, Roxb. ex. willd. Sp.Pl.4:605.1805. Dioecious, perennial with tuberous roots; stem slender, branched. Tendrils simple. Leaves membranous. Furit ellipsoid, shortly beaked.

densely echinate with soft spines. Fls. & Frts. : June to August. Vern.: Kartoli.

Herbarium: HSP-2656-A,B. Locality: Chandakhana.

10.Mukia, Linn.

M.maderaspatana (L.) Roem. Syn. Pep. 47. 1846. (Melothria maderaspataana (L.) Cogn.) climbing, annual, stems hispid.

Leaves ovate, or subdeltoid, 3-5 lobed, 4-15 x 3-13 cm. Flowers yellow, axillary. Fruit globose, 7-12 mm in diam., red when ripe. Fls & Frts.: July to October.

Herbarium: HSP-4495-A,B,C. Locality: Khatav.

Common around fields in hedges.

11. Solena, Lamk.

1 S.heterophylla, Lour. Fl. Coch. 1:514, 1790. (Melothria heterophylla (Lour.)Cogn.) Dioecious, root perennial, stem slender, branched, furrowed, glabrous. Leaves polymorphous, regularly ovate, or 3-5 angled, usually cordate at the base, generally scalrid and pale green above. Fls. & Frts.: Not Seen. Vern.: Gometi.

Herbarium: HSP-4494-A,B,C. Locality: Ramdongar.

12. Trichosanthes, Linn.

*1 T.anguina, L. Sp.Pl. 1003, 1753. Vern.; Padwal.

CACTACEAE

1. Opuntia, Mill.

O.elatior, Mill. Gard. Dic. ed. 8, No.4, 1768, O. dilleni Grah.)

Bushy shrub 1-3 m tall. Stems terrate, branches flat, green, internodes oblong-obovate, 15-25 x 8-18 cm. Flowers at first

yellowish with red tinge, afterwards becoming entirely red. Fruit fleshy.. Fls. & Frts. : August to December. Vern. : Nivdung.

MOLLUGINACEAE

1. Mollugo, Linn.

M.pentaphylla, L. Sp.Pl. 89, 1753. Diffuse, glabrous, annual, 10-30 cm tall. Stems numerous, branches dichotomous, 4-angled, leaves in whorls of 2-9. Linear lanceolate, 10-30 x 3-6.2 mm. Capsules subglobose. Seeds many. Fls. & Frts. : July to December.

Herbarium: HSP-3017-A,B,C. Locality: Ramdongar.

AIZOACEAE

1.Trianthema, Linn.

1 T.portulacastrum, L.Sp.Pl. 223. 1753. (T. monogyna, L.) Subsucculent prostrate herb. Leaces obliquely opposite in unequal pairs, obovate or orbicular. 3-4.5 x 2-3 cm. Flowers pink, solitory, axillary capsules brown or greenish red. Fls. & Frts.: July to September. Vern.: Punarnawa.

Herbarium: HSP-3018-A,B,C. Locality: Dalmodi.

Rare on bunds of fields.

APIACEACE (UMBELLIFERAE)

1. Anethum, Linn.

*1 A.graveolens, L.Sp.Pl.263.1753. (Peucedanum graveolens (L) Vern.: Shepu.

2. Coriandrum, Linn.

*1 C.sativum, L. Sp.Pl.256.1753.Vern.:Dhane.

3. Daucus, Linn.

- *1 D.carota, L. Sp.Pl.242. 1753. Vern. : Gajar.
 - 4. Foeniculum, Linn.
- *1 F.vulgare Gaertn. Fruct. 1:105, F.5, 1768. Vern.:Badishep.
 - 5. Heracleum, Linn.
- H.pinda, Dalz & Gibs. Bomb. Fl. (1861) P.107. Perenial; root as thick as the finger; whole plant is covered with white hairs. Stem erect, branched. Leaves cheifly radical, 2-pinnate; segments cuneate at the base, coarsely tothed, petioles long. Flowers white in terminal umbles, radiant. Fruit much compressed, lateral ridges winged. Fls. & Frts. : July to September Vern. : Panda.

Herbarium: HSP-2653-A,B,C. Locality: Chandakhana.

Common on the hill slopes.

6. Pimpinella, Linn.

1 P.lateriflora, Dalz. & Gibs. Bomb. Fl. (1861) P.106. Erect, 0.5-1 meter tall, stems puberulous. Leaves ternate, the leaflets 2-ternate, the lobes of the lower leaves lanceolate, those of the upper linear, all mucranate. Flowers pink, leaf opposed. primary umbels 3-10 rayed. Fls. & Frts. : June to August. Herbarium: HSP-2249-A,B,C. Locality: Kartikswami.

Very occasional $i\bar{n}$ the hill forests under the shade.

P.wallichiana (Mig.) Gadhi, in sald. & Nicol. Fl. Hassan 417.

1976. (P. monoica Dalz) A tall plant reaching 1-2 meter high stem terete, simple below, branched above glabrous, smooth.

Leaves lower cauline, pinnately 3- foliate, leaflets ovate.

acute more or less pubescent, sharpely serrate, base cordate, common petioles 10-15 cm long. Flowers in compound umbles. Fruit ovoid. Fls. & Frts.: November.

Herbarium: HSP-2448-A. Locality: Ramdongar.

Found at a perticular height in the hill forests on slopes.

RUBIACEAE

1. Anotis. DC.

1 A.montholoni Hook f. Fl. Brit. Ind. 3:73.1880. Erect herb about 15-30 cm tall. Stems quadrangular, hairy. Leaves ovate or lanceolate, 3-7 x 1.5-2.5 cm. Flowers pink or white in axillary and terminal trichotomous cymes. Capsules pubescent. Fls. & Frts. : June to August.

Herbarium: HSP-1382-A,B,C. Locality: Dalmodi.

Common weed of Jowar & Bajara fields.

2. Borreria, C.F.Mey.

B.articularis L.f). F.N.Will. in Bull. Herb. Boiss. Ser. 2,5.

956. 1905. (Spermacoce hispida, L.). Hispid herb. stems spreading prostrate or procmbent, 4-gonous, scabrid on angles, 15-60 cm long. Leaves oblong-elliptic to lanceolate. 1.5-4 x 0.6-1.5 cm. Flowers pale blue, pink or white, 4-6 in a whorl within the stipular cup. capsules hairy, ellipsoid. Fls. & Frts.: August to November.

Herbarium: HSP-4473-A,B,C. Locality: Ambawade.

Weed of cultivated field.

2 B.pussila (Wall) D.C. Prodr. 4:543. 1830. (Spermacoce stricta L.f). Erect scabrid herb, 10-30 cm tall. Stem branching from the base, 4-gonous. Leaves lanceolate or linear lanceolate.

 $2-5 \times 0.5 - 1$ cm. Flowers white in globose dense, axillary and terminal clusters surrounded by a whorl of 2-6 linear, acute, spreading or at length reflexed leaves. Fls. & Frts. : August to November.

Herbarium : HSP-4472-A,B,C. Locality : Enkul.

Very common in grasslands and rocky soil.

3. Canthium, Lamk.

C.parviflorum, Lamk. Ency Cl. Meth. 1:602, 1785; (Plectronia parviflora Bedd.). Stout shrub, 2 meter tall or rarely more. Stems armed with sharp, straight thorns, 2-3 cm long. Leaves elliptic, ovate or obicular. Flowers small, white in axillary peduncled cymes. Fruit globose, yellow when ripe. Fls.& Frts.: April to July. Vern.: Kara.

Herbarium: HSP-2623-A,B. Locality: Kartikswami.

Very common in hill forests.

4. Ixora, Linn.

1 I.arborea Roxb. ex. Smith in Cycl. 19: no.5, 1811. (I. parviflora Vahl.) Shrub or small tree, branches slightly comparessed, angular, glabrous. Leaves opposite or in whorls of 3, oblanceolate, 8-15 x 4-7 cm. Flowers white in terminal and axillary trichotomously branched, paniculate cymes shorter than the leaves. Fls. & Frts.: December to April. Vern.: Lokhandi.

Herbarium : HSP-4471-A,B,C. Locality : Kartikswami.

Rare on hill forests.

5. Oldenlandia, Linn.

1 O.aspera (Heyne ex. Roth.) DC. Prodr. 4:428. 1830. A stout annualherb, 10-30 cm tall, stems and branches scabrid with minute whitish hairs. Leaves whorled, 2-4 x 0.5-1 cm, linear, acute, subsessile, with slightly recurved margins; stipules membranous. Flowers pale blue, small in terminal branched cymes. Fls. & Frts.: August to October.

Herbarium: HSP-1383-A,B,C. Locality: Dalmodi.

Common weed of cultivated fields.

O.gracillis Hook f.Fl.Brit. Ind. 3:68. 1880. Slender erect herb, 15-30 cm tall; branches few, erect, glabrous. Leaves opposite, linear, accuminate, glabrous, flat, stipules truncate. Flowers in lax branched cymes, pedicels very shorter. Capsules ellipsoid. Fls & Frts.: August to November.

Harbarium: HSP-1384-A,B. Locality: Khatawal.

O.herbacea (L.) Roxb. (Hort. Beng. 11. 1814 et) Fl. Ind. 1:425, 1820. An erect, glabrous herb, 5-20 cm tall. Leaves sessile, linear lanceolate. Flowers usually on solitary or axillary peduncles. Fls. & Frts. : August to October. Vern.; Paripath. Herbarium : HSP-1630-A,B. Locality : Wardhangad.

Common weed of Rice fields.

6. Spermadictyon, Roxb.

Pl.Cor. 3:32, 1 S.suaveolens Roxb. 1815. (Hamiltonia t. 236. suaveolens Roxb.) Trichotomously branched undershrub with less herbaceous branches. more or Leaves rigid, elliptic lanceolate, acute, glabrous or pubescent above, more or less

hairy especially on the nerves beneath. Flowers numerous, sessile or nearly so, in subglobose heads in terminal trichotomous pubesent panicles; white or blue. Fls. & Frts.:

October to February. Vern.: Gidasawa.

Herbarium: HSP-4469-A,B,C, Locality: Chandakhana.

Common on the hills.

7. Wendlandia, Bartl.

1 W.thyrsoidea (Roem & Schult.) Steud. Nom. ed. 2,2:786.1841.

(W. notoniana, Wall.) A small deciduous pubescent tree with brown rough bark; branches terrate. Leaves coriaceous, opposite, lanceolate, entire, acute, more or less pubescent above. Flowers rosy or white, in terminal dense thyrsoid or panicled cymes. Fls. & Frts.: February to April.

Herbarium: HSP-4470-A,B,C. Locality: Kartikswami.

Rare plant, only one found at Kartikswami.

8. Xeromphis, Rafin.

1 X. spinosa (Thunb.) Keay. Bull. Jard. Bot. Etat. Brux. 28:37, 1958. Randia dumetorum Poir). Thorny shrub, 1.5-3 meter tall. Leaves fascicled on suppressed branches, ovate, 3-8 x 2.5-4 cm. Flowers white, turning yellow, at the ends of leafy branches, 2.5-4 cm across. Fruit globose or ellipsoid, 2-3 cm long, yellowish green when ripe. Fls. &Frts. :April to November. Vern.: Gela.

ASTERACEAE(COMPOSITAE)

1. Acanthospermum, Schranc.

A.nispidum, DC.Prodr. 5:522, 1836. Erect herb, 30-60 cm tall. Stems covered with white spreading hairs. Leaves opposite, ovate, obovate or spathulate, 4-10 x 3-6 cm. Heads in forks of branches; rays yellow, disk pale yellow. Achenes obovate, with 2 long spines at the top. Fls. & Frts. : August to October. Herbaarium : HSP-1312-A,B,C. Locality : Bhurakwadi.

Frequent on waste lands and occasional weed.

2.Ageratum, Linn.

A.conyzoides, Linn. Sp.Pl.839, 1753. Erect herb, much branched annual, 30-80 cm tall. Stem terete, clothed with rough spreading hairs when young. Leaves rough hairy, broadly ovate, 5-7 x2-5cm Heads blue, white or purple, crowded on terminal panicles. Achenes sharply 4-angled. Fls. & Frts.: November to April. Vern.: Osadi.

Herbarium: HSP-1314-A,B,C. Locality: Khatav.

Common weed in harvested and barren fields, along river, streams and around villages.

3. Bidens, Linn.

1 B.biternata (Lour.) Merr. & Sheff. in Bot. Gaz. 88:293, 1929.

B.Pilosa auct.) Erect herb, 30-70 cm tall, branches 4-angled.

Leaves opposite, pinnately 3-7 lobed, 6-12 cm long. Heads

1 cm across, rays white, disk yellow. Achenes 12-15 mm long.

4-gonous. Fls & Frts.: August to October.

Herbarium : HSP-1310-A,B,C. Locality : Khatav.

weed of waste lands and cultivated fields.

4. Blainvillea, Cass.

B.acmellg (L.) Philipson in Blumea 6:350, f.1.1950.B. rhomboidea Cass.) Hairy annual herb, 30-60 cm tall. Stem subterete; branches numberous, ascending. Leaves ovate or ovate lanceolate, alternate, subopposite, 4-12 x 2-6 cm. Heads 8-12 mm across, white. Achenes 2-3 mm long, slightly curved. Fls. & Frts.: August to October.

Herbarium: HSP-1315-A,B,C. Locality: Kartikswami.

Occasional plant of hilly region.

5 Blumea, DC.

B.lacera (Burm f.) DC. in wight, conts. 14, 1834. Glandular pubescent herb, 30-90 cm tall. Leave ovate or obovate, 3-10 x 1-5 cm, with a strong smell of terpentine, the lower often lyrate, the upper dentate. Heads 5-6 mm in diam, yellow. Achenes 4-gonous. Fls. & Frts.: January to March.

Herbarium: HSP-3032-A,B,C. Locality: Dalmodi.

Common in waste landd around field.

- B.obliqua (L) Druce, Rep.Bot. Exch.Club.Brit.Isles, 4:609, 1916(1917)(B. amplectens DC.) Erect woody annual, 20-40 cm tall, hairy. Leaves sessile linear-lanceolatate to oblanceolate, 2-5 x 0.4-1 cm, sharply dentate. Heads yellow, 7-8 mm in diam. on slender terminal peduncles. Achenes minute. Fls. 6 Frts.: December to February. Vern.: Burambi.
- 3 B.oxyodonta DC. in weight, Contr. 15, 1834. Prostrate or decumbent annual, branches 6-20 cm long, pubescent. Leaves

HHerbarium: HSP-3029-A,B,C. Locality: Yeralwadi.

ovate, elliptic obovate, $1-6 \times 0.6-2.5$ cm, spinous-toothed. Head dull whitish yellow, 5-6 mm in diam. Achenes terete 1 mm long. Fls. & Frts. : January to March.

Herbarium: HSP-3028-A,B. Locality: Dalmodi.

Common on rocky waste lands near villages.

6. Caesulia, Roxb.

1 C.axillaris Roxb. Pl.Cor.1:64 t. 83., 1798. Soft erect herb, 30-70 cm tall, stem torote, blabrous; branches few. Leaves alternate, linear lanceolate, 5-12 x 1-2 cm. Flowers in dense axillary clusters, 1-1.5 cm across, sessile, white. Achenes flat, ovoid. Fls. & Frts. : September to January. Vern. : Maka.

Herbarium: HSP-1303-A,B,C. Locality: Kokarale.

Very common weed of cultivated fields waste lands, around fields and in margins of ponds and ditches.

7. Corfhamus, Linn.

*1 C.tinctorius, L. Sp.Pl.830. 1753. Vern. : Karadi.

8. Centratherum, Cass.

1 C.antheliminticum, Ktze. Rev. Gen.Pl.1:320,1891. (Vernonia anthelmintica L.) Erect herb, 20-75 cm tall. Leaves alternate ovate lanceolate, 3-8 x 1.5-3 cm. Heads purple, 1.5-2 cm across. Sub-corymbose. Achenes 4-5 mm long, pubescent. Fls. & Frts.: October to February. Vern.: Kadukarale.

Herbarium: HSP-1324-A,B,C. Locality: Jaigaon.

Common weed of black soil.

9. Chromolaena, King.

1 C.odorata (L.) King & Robin in Phytologia 20:204, 1970.

(Eupatorium odoraturo L). Erect much branched annual, 30-60 cm tall. Leaves opposite, lanceolate, 3-6 x 0.5-1.5 cm. Heads 10 x5-6 mm, purple or blue corymbose at the ends of branches. Achenes oblong to oblanceolate. Fls. & Frts. : September to December.

Herbarium: HSP-1325-A,B,C. Locality: Kartikswami.

Rare weed of forest areaas.

10. Chrysanthemum, Linn.

*1 C.indicum, L Sp.Pl. 889, 1753. Vern. : Shevanti.

11. Conyza, Less.

1 C.stricta Willd. Sp.Pl.3:1922, 1803. Annual erect nerb. 30-75 cm tall. Stem leafy pubescent. Leaves obovate, linear, subsessile, irregularly toothed, hairy. Heads in dense terminal corymbs small. Flowers yellow bracteate. Fls. & Frts.: October to December.

Herbarium: HSP-1323-A,B,C. Locality: Khatav.

Very common on waste lands.

12. Cosmos, Cav.

- ***1 C.sulphureus** Cav. Icon. 1: 10, 1791.
- ***2 C.bipinnatus** Cav. Icon. 1: 10, t. 14. 1791.

13. Cyathocline, Cass.

1 C.purpurea (Don.) Kuntze, Rev. Gen. Pl.338, 1891. C. lyrata
Cass.) Erect much branched, densly glandular hairy annual,
20-24 cm tall. Leaves sessile, alernate, 6-13 x 2-4.5 cm,

oblancedate in outline, lyrate or variously irregularly lobed. Heads purple, 3-4 mm in diam, in dense terminal corymbose cymes. Achenes minute. Fls. & Frts.: November to March. Harbarium: HSP-1320-A,B,C. Locality: Yeralwadi.

Frequent along rivers, streams in drying ditches and ponds.

14. Dicoma, Cass.

D.tomentosa Cass in Bull. Soc. Philom, 47, 1818. (D.lanuginosa DC.) Cottony-wooly, erect herb, 15-40 cm tall. Leaves alternate, linear oblanceolate, 2.5 -4 x 0.8-4 cm. Heads sessile in upper leaf axils, white 5-6 mm across. Achenes 2.5-3 mm long, obovoid, densly silky. Fls. & Frts. : September to November. Vern. : Navnangi.

Herbarium: HSP-1321-A,B,C. Locality: Banpuri.

15. Echinops, Linn.

1 E.echinatus, Roxb. Fl. Ind. 3:447, 1832. Cottony wooly herb, 30-60 cm tall. Stems prickly. Leaves lyrate sinuate with spinous-tipped lobes. Ball of heads dull white, 3.5-4 cm in diam, spinous. Achenes 6-8 mm long, densly hairy, Fusiform. Fls. § Frts.: November to March. Vern.: Bharamdanda.

Herbarium: HSP-1304-A,B,C. Locality: Vaduj.

16. Eclipta , Linn.

1 E.alba (L.) Hassk. Pl.Jav. Rar. 528,1828. Erect or prostrate, much branched annual often rooting at nodes. Stems and branches with appressed white hairs. Leaves opposite, sessile, 2-10 x 0.5 - 2 cm, oblong-lanceolate or linear lanceolate. Heads

5-8 mm across white peduncled, one to three or sometimes more in leaf axils. Fls. & Frts. : More or less throughout year. Vern. : Maka.

Herbarium: HSP-1309-A,B. Locality: Dalmodi.

Common weed of cultivated fields, wet land along streams & nallas.

17. Emilia, Cass.

1 E.sonchifolia (L.) DC. in Wight. Contr. 24, 1834. Erect or decumbent herb, 12-40 cm tall. Leaves alternate, mostly basal, obovate or spathulate, 6-10 cm long, lyrate. Heads pink or purple, 8 x 3-6 cm. Achenes oblong, 5- gonous, 2.5 -3 mm long. Fls. & Frts.: August to December. Vern.: Sadamandi.

Herbarium: HSP-1306-A,B. Locality: Jakhangaon.

Common weed of cultivated fields.

18. Flaveria, A.Juss.

1 F.trineriva (Spreng.) C. Mohr. Contr. U.S.Nat. Herb. 6:810.

1901. (F. contrayerba Dalz.) Erect glabrous, often dichotomously branched herb about 20-60 cm tall. Stems obtusely angled.

Leaves elliptic-lanceolate, oblanceolate or spathulate, 3-9 x

1-3 cm, 3-nerved. Flowers yellow in axillary sessile clusters which contain many 1-5 flowered heads. Fls. & Frts. : September to February.

Herbarium : HSP-1318-A,B,C. Locality : Yeralwadi.

Common weed in wet fields.

19. Glossocordia, Goss.

G.bosvallea (L.f) DC. in wight, Contr. 19, 1834. (G. linearifolia Coss). Small prostrate, herb. stems numerous spreading from the central root stock, 5-15 cm long glabrous or with few weak hairs, grooved. Leaves decompound or bipinnatisect, 1.5-4.5 cm long, segments linear. Heads ellipsoid, 6-10 mm long, 5 mm across. Achenes much compressed. Fls. & Frts.: July to September. Vern.: Knadakshepu, Ran Shepu.

Herbarium: HSP-1308-A,B,C. Locality: Katarkhatav.

20. Gnaphalium, Linn.

1 G.polycaulon, Pers. Syn.2:421, 1807. (G. indicum, auct.) Erect herb, 6-30 cm tall, branching from the base, braches clothed with cottony wool. Leaves alternate, oblanceolate to linear, 1-4 x 0.6 cm. Heads 2-3 mm across, dull white, sessile in terminal leafy spicate racemes. Achenes brown. Fls. & Frts.:

Herbarium: HSP-1317-A,B. Locality: Mayani.

Common in harvested drying fields and drying Pods.

21. Goniocaulon, Coss.

G.glabrum Coss in Dict. Sc. Nat. 19.201, 1821. Erect, tall, glabrous herb with grooved angled stems. Leaves alternate, oblanceolate, 10-15 x 1-2 cm, deeply and sharply serrate. Heads pink, narrow 1-2 cm long, in corymbose cymes. Achenes oblanceolate, 5-6 mm long. Fls. & Frts.: November to February Vern.: Kadkusumba.

Herbarium : HSP-1322-A,B,C. Locality : Dalmodi.

Common weed oof Jowar fields.

22. Grangea, Adans.

1 G.maderaspatana (L.) Poir. in Lamk. Encycl. Suppl. 2: 825.1811.

Prostrate or suberect villous herb. Stems spreading from the centre. Leaves numerous, sessile, sinuately pinnatifid with 2-4 pairs of opposite lobes. Serrate dentate, pubescent on both surfaces. Heads globose. Flowers yellow. Achenes glandular Fls. & Frts.: November to May.

Herbarium: HSP-1319-A,B,C. Locality: Mayani.

Common along the streams and damps.

23. Guizotia, Cass.

*1 G.abyssinica (L.f) Cass in Dict. Sc. Nat. 59: 248, 1829. Vern.: Karala.

24. Helianthus, Linn.

*1 H.annus, L.Sp.Pl.904, 1753. Vern. : Suryaphool.

25. Lagascea, Cav.

1 L.mollis Cav. in Anal. Cinec. Nat. 6. 332, t. 44, 1803. Much branched herb 20-24 cm tall or more tall. Pubescent. Leaves alternate, rhomboid-ovate, 3-5 x 1.5-2 cm, pubescent. Heads 1-flowered. Crowded in clusters 15-17 mm across, white. Achenes cuneate, 2-3 mm long, black. Fls. & Frts. : June to March. Vern. : Jharwad.

Herbarium: HSP-1311-A,B,C. Locality: Diskal.

Very common plant along cultivated fields.

26. Launea, Cass.

1 L.procumbens (Roxb.) Ramayya & Rajgopal in Kew Bull. 23:465,
f. 1(1-3) 1969.(L. <u>nudicaulis</u> sensuauct.plur). Decumbent herb;
stems dichotomously branched, 15-30 cm long. Leaves

oblanceolate, lyrate or rarely entire, $4-15 \times 1.5-4 \text{ cm}$. Heads pale yellow, narrowly glindric. Achenes minute. Fls. & Frts.: October to February. Vern. : Pathari

Herbarium: HSP-3026-A,B,C. Locality: Dalmodi.

Common weed of Jowar and Wheat fields.

27. Notonia, DC.

N.grandiflora Wall. ex. DC. Guillemin, Arch. Bot. Paris 2:518.

1833. Fleshy glabrous undershrub, 1 to 3 meter tall. Stems stout, fleshy not much branched. Leaves alternate, obovate, quite entire, sessile or subsessile, pale glaucous green. Heads on large peduncles, few or many flowered, pale yellow. Achenes 1 cm long. Fls. & Frts. : September to November. Vern. : Vandar-roti.

Herbarium: HSP-1302-A,B,C. Locality: Kartikswami.

Occasional only on the slopes at Kartikswami and Chandakhana hills.

28. Parthenium, Linn.

P.hysterophorous, L. Sp.Pl.988, 1753. Erect, profusely branched, leafy herb, 1-2 meter talll. Leaves alternate, pinnatifid, 5-15 cm llong, lobes again lobulate or entire or broadly serrate. Heads 4-5 mm across, white numerous, peduncled in axillary or terminal, lax, corymb-like cymes. Achenes 1.5-2 mm long, obovate, compressed black. Fls. & Frts.: Throughout the year. Vern.: Gajargavat, Congress.

Herbarium: HSP-2676-A,B. Locality: Dalmodi.

Native of Tropica, very common everywhere.

29. Pulicaria Gaertn.

P.wightiana (DC.) Clarke, Camp. Ind. 128, 1876. Erect herb, 10-40 cm tall. Stem striate, pubescent, branches ascending. Leaves sessile, alternate or lower sub-opposite, oblong-lanceolate or oblanceolate, 2-6 x 1 cm. Heads yellow, 1.5-2.5 cm across, solitary or terminal peduncle. Achenes 1.5-2 mm long. Fls. & Frts.: August to February.

Herbarium: HSP-136-A,B,C. Locality: Chandakhana hills.

30. Senecio, Linn.

1 S. edgeworthii Hook f.Fl. Brit. Ind. 201. 1876. Suffruticose, erect, stem and branches terete, wooly pubescent. Leaves rhomboid or ovate, sinuate-dentate. Heads yellow, bracteolate. Fls. & Frts.: August to November.

Herbarium: HSP-2668-A,B. Locality: Chandakhana.

Common in the hill slopes.

2 S.grahami Hook f. in Fl.Brit. Ind. 3.347, 1881. (Donoricum reticulatum Dalz.). An erect much branched herb. Stem and branches grooved and angled. Leaves rhomboid-ovate, irregularly toothed, white tomentose between the nerves beneath, base tappering into a pefiole. Petiole variable in length. Heads 4-7 mm across, on cappillary peduncles in lax terminal panicles. Disk flowers yellow. Achenes hairy. Fls. & Frts.: July to October. Vern.: Sonaki.

Herbarium: HSP-1305-A,B,C. Locality: Chandkhana hills.

Common in hill forests on wet gravelly soil.

31. Sonchus, Linn.

1 S.oleraceus, L. Sp.Pl.794, 1753. Erect glaucous annual, 45-90 cm tall. Leaves alternate, oblong or obovate often pinnatifid, with spreading auricles. Heads tubular about 2.5 cm across, pale yellow. Achenes 2-3 mmm long, compressed. Fls. & Frts.: September to February. Vern.: Mhatari.

Herbarium: HSP-3033-A,B,C. Locality: Dalmodi.

32. Tagetes, Linn.

- *1 T.erecta, L. Sp.Pl.887, 1753. Vern. : Zendu.
- *2 T.patula , L.Sp.Pl.887, 1753. Vern. : Zendu.

33. Tricholepis, DC.

1 T.indica (Willd.) Almeida Comb. Nov. Serratula indica Klein, ex. Willd. Sp.Pl. 3: 1642, 1804. (Tricholepis globerima DC.Prodr) An erect slender glabrous herb. Stem and branches ribbed. Leaves sessile. Linear oblong or lanceolate, acute, entire or serrate; simple, auricled at base. Heads small. Achenes oblong, faintly ribbed. Fls. & Frts.: November to January. Herbarium: HSP-3027-A,B,C. Locality: Enkul.

34. Tridax, Linn.

T.procumbens Linn. Sp.Pl.900, 1753. A straggling herb, stems hairy. Leaves oposite, ovate, elliptic, dentate. Head solitary with long peduncle. Outer involucre bracts ovate, hairy. Inner bracts membranous, oblong. Ray florets yellow. Disk florets white. Achenes slightly 3-angled. Fls. & Frts.: Throughout the year. Vern.: Dagadi Pala.

Herbarium: HSP-1313-A,B,C. Locality: Palasgaon.

Common, naturalised weed along road sides and on grasslands.

35. Vernonia, Schreber.

1 V.cinerea (Linn.) Less Linnaea 4: 291,1829. An erect annual herb. 10-30 cm tall. Stem stiff, cylindric, striate. Leaves variable in shape, broadly elliptic or lanceolate, irregularly toothed. Heads small, in terminal crymbs, florets pinkish violet. Involucre bracts silky on the back. Fls. & Frts.: December to March. Vern.: Shahadevi.

Herbarium: HSP-3030-A,B,C. Locality: Khatav.

A common weed in waste lands.

V.cinerascens Schultz-Bip. in Schewinf. Fl. Aethiop.162,1867.
Erect shrub, 30-80 cm tall. Clothed with ashy pubescent hairs.
Stems branched , terete, slender, grooved. Leaves sessile,
oblong, spathulate rounded at the apex, with few teeth. Heads
1 cm in diam, shortly stalked. Involucre bracts linear oblong.
Fls. & Frts.: October to December.

Herbarium: HSP- 3031-A,B. Locality: Kartikswami.

Common shrub along the edges of forests.

36. Vicoa , Cass.

1 V. indica (L.) DC. in wight, contr. 10, 1834. (V.auriculata Cass.) Erect nerb. 30-60 cm tall. Leaves alternate sessile, elliptic oblanceolate, 2-6 x 0.5 - 1 cm, auricled at base. Heads 6-18 mm in diam., yellow Achenes 1-1.5 mm long 4-gonous. Pubescent. Fls. & Frts.: October to February. Vern.: Sonkadi. Harbarium: HSP- 1301-A,B,C. Locality: Ramdongar.

Common in cultivated fields, on waste land around fields in grasslands.

37. Xanthium Linn.

1 X.strumarium, L.Sp.Pl.987, 1753. Erect annual 30-120 cm tall. Stem stout, terete. Leaves broadly ovate or suborbicular, 5-12 cm long and slightly broader than long, acute, often 3-lobed, irregularly incissos errate. Heads globose in axillary and terminal short racemes. Achenes 12-15 mm long. Compressed, glabrous. Fls. & Frts.: August to March.

Herbarium: HSP-1307-A,B. Locality: Budh.

Very common on waste land along roadsides, and fields.

COMPANULACEAE

1. Wahlenbergia, Schard.

M.felxuosa (Hook.f & Thoms). Mats. Thulin (Companulaceae).

An annual herb, 10-20 cm high, whole plant hairy. Leaves sessile, elliptic the lateral veins of leaves usually distinct. Flowers yellow, long pedicelled, nodding, solitary or panuculate. Calyx type adnate to the ovary. Capsule erect, spherical, crowned with calyx lobes. Seeds minute, smooth. Fls. & Frts.: September to October.

Herbarium: HSP-1691-A,B,C. Locality: Ramdongar.

Growing as undergrowth under smal srubs in open deciduous forest in hills of Ramdongar and Chandakhana.

Car Service States

LOBELIACEAE.

1.Loelia, Linn.

1 Lobela alsinoides, Lamk. Encycl. 3.588, 1792. (L. trigona, ROXD.). Annual herb, 3-15 cm tall, branches ascending. Leaves subsessile, ovate, acute, crenate, dentate. Flowers axillary, with conspicuous bracts. Fls. & Frts. : August to September. Herbarium : HSP-2682-A,B,. Locality : Chandakhana.

Occasionaly found on hill tops in grasses.

PLUMBAGINACEAE

1. Plumbago, Linn.

1 P.zeylanica, L. Sp.Pl.151.1753. Undershruyb, 1-1.5 m tall. Leaves ovate oblong, 3-7 x 2-3 cm. Flowers white in elongate spikes. Calyxglandular. Capsules oblong. Fls. & Frts. : July to October. Vern.; Chitrak.

Herbarium: HSP-4466-A,B,C. Locality: Dalmodi.

Frequent in the hedges of the fields.

PRIMULACEAE

1. Anagallis, Linn.

1 A.arvensis, L.Sp.Pl.148.1753. Annual herb, branching from the base, stem often narrowly 4-winged, 12-30 cm long. Leaves opposite, ovate, 10-25 x 6-13 mm. Flowers blue with red throat, 10-12 mm across. Capsules globose. Fls. & Frts.: December to February.

Herbarium: HSP-4463-A,B,C. Locality: Ner Damp.

Common in drying rice and wheat fields.

SAPOTACEAE

1. Manilkara, Adans.

- *1M.zapota (L.) Van. Royen in Blumea 7:410. 1953. (Achras sapota L.)Vern. : Chiku.)
 - 2. Mimusops, Linn.
- *1 Mimusops elengi L.Sp.Pl.349, 1753. Vern. : Bakul.

EBENACEAE

1. Diospyros, Linn.

1 D.melanoxylon Roxb. Pl.Cor. 1:36.t.46. 1795. Small tree or shrub with densely brown tomentose young parts. Leaves broadly ovate, 7-12 x 5-7 cm, obtuse. Flowerrs-males in short cymes, females solitary. Fls. March to August. Vern.: Temru.

Herbarium: HSP-4562-A,B. Locality: Randongar.

Common in hill forests.

OLEACEAE

1. Jasminum, Linn.

J.roxburghianum, Wall. ex. Clarke in Hook. f.Fl.Brit. Ind. 3:595, 1882. Twining or scandent shrub. Leaves 1-foliate, opposite, ovate or elliptic, 2.5-3 x 0.5-2.2 cm. Flowers white, sweet scented in terminal, short, trichotomous cymes. Fruit ellipsoid smooth, black. Fls. & Frts.: March to October. Herbarium: HSP-4455-A,B,C. Locality: Kartikswami.

Common in hill forests forming large bushes or climbing.

- *2 J.officinale, L. Sp.Pl.7, 1753. Vern. : Chameli, Jai.
- *3 J.sambac, Ait. Hort. Kew 1:8, 1789. Vern. : Mogara.
 - 2. Nyctanthes, Linn.
- *1 N.arbor-tristis, L.Sp.Pl.6.1753. Vern. : Parijatak.

APOCYNACEAE

- 1. Allamanda, Linn.
- *1 A.cathartica, L.Mant. 2:214, 1771.
 - 2. Carissa, Linn.
- 1 C.congesta Wt. Ic. t. 1289, 1848.(C. carandas Grah.) Stout glabrous shrub armed with simple or branched throns. Leaves broadly ovate or elliptic 3-6 x 2-4 cm. Flowers white in axillary and terminal cymes. Fruit 10-13 mm long elllipsoid, purple black. Fls. & Frts.: March to June.Vern.:Karwanda.

Herbarium : HSP-3504-A,B,C. Locality : Randongar.

- 3. Catharanthus, Don.
- 1 C.pusilus (Murr.)G.Don.Gen.Syst. 4.95.1837. (Lochnera pussila K. Schum.) Erect annual 15-40 cm tall. Leaves laceolate, 4-6 x 1-1.8 cm, accuminate. Flowers white, axillary, solitary or in pairs 8-10 mm across. Folicles 3-5 cm long. Linear, seeds black. Fls. & Frts. : July to September.

Herbarium: HSP-4571-A,B. Locality: Mayani.

Common weed of wet. cultivatd fields.

*2 Catharanthus roseus (L.) G.Don.Gen.Syst. 4:95.1837. (Lochnera rosea, L.) Vern.: Sadaphuli.

4. Holarrhena, R.Br.

H.antidysentrica (Roth) A.Dc. Prodr, 8:413. 1844. Shrubs, 3-6 m tall. Leaves 8-16 x 4-9 cm elliptic or ovate oblong, pubescent or glabrous, apex accuminate. Flowers white, faintly fragrant in terminal or lateral corymbose cymes.calyx with small basal glands within. Fruits paired. Fls. & Frts. : April to November. Vern. : Pandhara Kuda.

Herbarium: HSP-3505-A.B.C. Locality: Kartikswami.

5. Nerium, Linn.

N.indicum, Mill Gard. Dict. ed. 8 No.2, 1768 (N. odorum Soland), Snrub, reaching 4 m in height, branches whorled angular. Leaves whorled, elliptic 10-12 x 1-2 cm. Flowers rosy, pink, red or white, 4-5 cm across. Follicles lanceolate 10-15 cm long. Cultivated and also escaped in the stream river beds. Fls. & Frts.: Almost throughout the year. Vern. Kanher. Herbarium: HSP-2659-A,B,C. Locality: Khatav.

6. Plumeria, Linn.

*1 P.acuminata Ait, Hort. Kew ed. 2, 270, 1811. Vern.: Pandhara Chapha.

7. Tabernaemontana, R.Br.

*1 T.divaricata (L.) R.Br. in Roem & Schult. Syst. 4:427, 1819.

Vern.: Tagar.(T. cornaria Willd).

8. Thevetia, Linn.

*1 T. peruviana (Pers.) K. Schum. Engl. & rantl. Pflanzenfam.
4(2): 159. 1895. (T. nerrifolia, Juss.).

9. Vallaris, Roth.

v.solanacea (Roth) O.Kteze. Rev. Gen. Pl.2:417. 1891. (Vallaris neynei spreng). A large woody climbing shrub, leaves eliptic, glabrous, pellucid dotted. Flowers white fragrant in axillary cymes. Disk with 5-oblong, obtuse ciliate lobes. Fls. & Frts.:December to April.

Herbarium: HSP-3506-A,B,C. Locality: Yeralwadi.

Common on the banks of streams and river.

PERIPLOCACEAE

1. Cryptolepis, R.Br.

1 C.buchnanii Roem & Schult. Veg. 4.409. 1819. Large glabrous twining shrub. Leaves elliptic oblong or oblong-lanceolate, 6-12 x 3-6 cm. Flowers whitish or yellowish green in short paniculate cymes. Flollicles fusiform, 5-8 cm long, spreading. Seeds black long comose. Fls. & Frts. : July to October. Vern. : Kawali.

Herbbarium: HSP-3513-A,B,C. Locality: Dalmodi.

Frequent in hedges around the fields.

2. Cryptostegia, R.Br.

1 C.grandiflora R.Br. in Bot. Reg. 5. t. 435. 1819. Scandent shrub or straggling on trees. stem and branches glabrous. Leaves elliptic oblong, 6-10 x 3-4 cm, acuminate. Flowers purple. 3-5 cm across in terminal cymes. Each follicle of pair ovate, acute, sharpely 3-angled. Seeds comose. Fls. & Frts.: March to June and September to December.

Herbarium: HSP-2618-A,B. Locality: Mandave.

Native of tropical Africa, Seen naturalised to some extent.

3. Hemidesmus, R.Br.

1 H.indicus (L.) Schult. in Roem & Schult. Syst. Veg. 6: 126.

1819. A perrenial prostrate or twining shrub. Stems slender terete, glabrous, pubescent. Leaves vary from elliptic-oblong to linear lanceolate, 2-4 in long. Flowers sessile, axillary.

Fls. & Frts.: Sept. to October. Vern.: Anantmul.

Herbarium: HSP-3509-A,B,C. Locality: Chandakhana.

Common twiner in hill forests.

ASCLEPIADACEAE

1. Asclepias, Linn.

1 A.curassavica L.Sp.Pl.215. 1753. An erect undershrub; branches purplish red. Leaves thin membranous, linear lanceolate, glabrous. Flowers in terminal umbel, crimson or orange red in colour. Fls. & Frts.: February to December.

Herbarium: HSP-4573-A,B. Locality: Pusegaon.

Very occasional in water logged areas.

2. Calotropis, R.Br.

C.giganteg (L.) R.Br. Ait. Hort. Kew.ed. 2,2:78. 1811. Stout shrub reaching 3 meter in hight, branches and leaves beneath clothed with white cottony pubescence. Leaves obovate oblong, 10-12 x 3-10 cm, sessile. Flowers white or purplish in lateral and terminal corymbs. Follicles 7-10 cm long, falcalely lanceolate. Seeds comose. Fls. & Frts.: Throughout the year. Vern.: Rui.

Herbarium: HSP-4574-A,B. Locality: Khatav.

Frequent on waste land and around villages.



2 Calotropis procera. R.Br. in Ait. Hort. Kew ed. 2.2:78, 1811.

Erect shrub about 2 meter tall; young parts clothed with cottony pubescence. Leaves broadly ovate, obovate or ovate-oblong, 5-15 x 4-8 cm. Flowers white with purple tips in terminal or lateral corymbs. Follicles falcately ellipsoid. Seeds comose. Fls. & Frts.: More less throughout the year. Vern.: Rui.

Herbarium: HSP-1649-A,B. Locality: Khatav.

Very common on waste land.

3. Caralluma, R.Br.

1 C.adscendens (Roxo) Haw. Syn. Succ. 47. 1812. (Caralluma fimbriata Cooke) Succulent nerb with 4-angled, strongly distally attenuate stem and minute fleshy leaves. Flowers greenish outside, purple withing, 12-15 mm across, petals fimbriate on margins. Fls. & Frts.: July to October. Vern.: Makadsing. Herbarium: HSP-3516-A,B. Locality: Dalmodi.

Common on rocky slopes of hills often on soil covered rocks.

4. Ceropegia, Linn.

1 C.bulosa, Roxb. Pl.Cor. 1: 11.t.7.1795. A perennial twining tuberous nerb, tubes globose, ovoid or depressed. Stem slender, glabrous, usually reddish in colour. Leaves petiolate, the upper leaves elliptic oblong or obovate to eliptic lanceolate, glabrous thick flesny. Flowers in pedinculate umbellate cymes, Coroolla greyish purple, tube 1-2 cm long, violet purple and glabrous inside. Follicles cylindric, tappering towards an acute apex. Fls.: July to September. Frts: September to October. Vern.: Kharpudi.

Herbarium: 4934-A. Locality: Kartikswami.

It grows in thorny shrubs and bushes from where it can not be exploited easily. There are two varieties of <u>C. bulbosa C.bulbosa Var. bulbosa</u> <u>C. bulbosa Var. luschii.</u>

C.hirsuta Wt. & Arn. in Wt. Contrib. 30. 1834. A perennial coarse twinner with tuberous root. Stem usually unbranched, hirsute, terete. Leaves very variable, petiolate, membranous, varying from ovate to cordate, obtusely acuminate to narrowly lanceolate. Flowers in few flowered umbellate cymes, reddish. Corolla greenish, blotched with purple. Follicles finely pointed, glabrous. Fls. & Frts.: July to October. Vern.: Hamana.

Herbarium: HSP-3515-A,B,C. Locality: Kartikswami.

3

Occasional on the slopes of the hills in bushes.

C.noorjahaniae Ans. J.Bomb. Nat. Hist.Soc.69:250-253.1972. Usually erect, sometimes climbing herb. 15-40 cm in height when erect. Tubers globose, spherical to subspherical. Stem terete. Leaves subsessile to petiolate; glabrous, linear-lanceolate glabrous beneath, margins minutely hairy. Flowers usually 3, in axillary or extra-axillary umbellate cymes, peduncles 4-8 mm long, terete. Corolla 2-3 cm long. Slightly curved, tube inflated at the base, green inside with longitudinal purple lines. Follicles in apirs, 9-10 cm long, tappering at both ends. Fls. & Frts. : July to September.

Herbarrium: HSP-3514-A,b,C. Locality: Kartikswami.

Very rare plant, only found at Kartikswami on hill slopes.

5. Gymnema, R.Br.

1 G.sylvestre (Retz.) Schult in Roem. & Sch. Syst. Veg. 6:57, 1820. Grey, pubescent, woody twinner. Leaves ovate or elliptic lanceolate. Flowers greenish-yellow in subsessile cymes. Folicles linear lanceolate. Fls. & Frts. : Ausgust to December. Vern.: Aphumari.

Herbarium: HSP-2655-A,B. Locality: Ramdongar.

Frequent in hill forests on Bushes.

6. Holostemma, R.Br.

1 H.annulare (Roxb.) K.Schum. in Pflanzenfam. 4(2):250 & 247, t. 71-J-K, 1895. (H. rheedianum, Spreng.). Large twining shrub, stems much branched; young parts minutely pubescent. Leaves cordate and shortly cuneate at the base. Flowers pinkish in cymes. Fls. & Frts.: July to September. Vern.: Shidodi.

Herbarium: HSP-4475-A. Locality: Chandakhana.

Occasional in hill forests.

7. Oianthus, Benth.

O.disciflorus, Hook. f. in Fl. Brit. India 4:49, 1883. A twining undershrub, glaborous, young parts pubescent. Stems hairy, hairs very short. Leaves opposite, 6.5-11 x 4-6.2 cm, elliptic oblong or ovate oblong, base subcordate; petioles 1.5-2.5 long. Flowers in shortly pedunculate cymes. Calyx minute, 5-partite, segments 0.2 cm long, with wooly nairs. Corolla disciform, vertically depressed; 5-lobed, corona 5-lobed with incurved apex, reddish purple outside, dark purple within, corona arising from the staminal column. Follicles 8-12 x 0.5-0.7 cm, smooth, reddish

in colour, broad at the base, tappering towards apex. Seeds brown, broadly winged, coma white. Fls. & Frts. : August to September.

Herbarium: HSP-4901-A,B. Locality: Ramdongar.

Rare, grows in thory bushes of Lantana camera.

O.urceolatus (Dalz.) Benth. A perennating twiner, stem terete, Leaves, opposite, 7-13. 5 x 4-8.6 cm, subcoriaceous, ovate lanceolate. Inflorenscence sessile or subsessile umbellate cyme arising betweenn petioles, 5-25 flowered. Flowers purplish red, bracteate, bract-linear. Calyx 5-partite. Corolla ovoid urceolate or tubular, ventricose at the base, dark purple inside with or without hairy threads. Corona adnate to the staminal column. Follicles usually in pairs, 6-12 x 0.5-0.7 cm, smooth, usually reddish in colour. Seeds broadly winged, coma white, 2-3 cm long. Flowering: August. Fruiting: September.

Herbarium: HSP-4902-A,B. Locality: Chandakhana.

Just after start of monsoon, the perennating underground stem sprounds out. It grows in thorny bushes in open shruby forest.

3 O.deccanensis Talbot ? The specimens are exactly similar in vegetative with O., urceolatus and O. disciflorous. It differs from O. urceolatus in having short uniformely tubular, whitishpink corolla and broad large corolla lobes. It differs from O. disciflorus. Indeed it is intermediate form between above mentioned two species. All the three species grow in same ecological condition at same locality.Fls. & Frts. : August to September.

Herbarium : HSP 4903-A,B.C.

8. Pegularia, Linn.

P.daemia (Forsk.) Chiov. Result. Sc. Sefan. Paoli. Somal. Ital.

1.115.1916. (Daemia extensa R.Br.). Woody twinner; stem terete, clothed with spreading white hairs, branches numerous, densely pubescent. Leaves reniform ovate, deeply cordate with rounded base. Flowers in axillary, peduncled corymbose cymes, or paniculate cymes, dull greenish brown or white. Follicles strongly reflexed, echinate with soft spines. Fls. & Frts: July to February. Vern.: Utaranvel.

Herbarium: HSP-3512-A,B,C. Locality: Khatav.

Very common near villages and around fields.

9. Sarcostemma, R.Br.

S.acidum Roxb. Voigt, Hort. Sub. Calc. 542. 1845. (Sarcostemma brevistigma wt. & Arn.) Leafless jointed shrub with pendulus branches. Stems green, glabrous; joints 10-20 cm long. Flowers in sessile many flowered terminal umbles. Pedicles slender, pubescent. Corolla companulate, palegreenish white. Fls. & Frts.:

June to September. Vern.: Ransher, Soma.

Herbarium: HSP-3510-A,B,C. Locality: Dalmodi.

Common along the gullies, rivers, streams, in rocky places.

10. Tylophora ,R.Br.

T.dalzellii Hook. f. in Fl. Brit. Ind. 4:43, 1883. A twinner, stems slender. Leaves ovate tto ovate oblong, rounded or cordate, at base, acute or acuminate, at apex. Inflorescence in axillary umbles or raceme. Corolla veined. Fls.& Frts. : August to September.

Herbarium: HSP-3511-A,B,C. Locality: ramdongar.

Common plant among bushes along roadsides and stem banks.

11. Wattakaka, Hasskarl.

W.volubilis (Linn.) f. Stapf. in Curtis. Bot. Mag. Sub. t. 8976, 1923. (Marsdenia volubilis Linn.) Large glabrous twinning shrub. Leaves broadly ovate, cordate. Flowers green in dense lateral umbellate cymes. Follicles 7-10 cm long, slightly tappering to very blunt point. Fls. & Frts. : May to September. Vern. : Hirandodi.

Herbarium: HSP- 3517-A,B. Locality: Dalmodi.

- Common along the banks of rivers and estreams.

GENTIANACEAE

1. Canscora, Lamk.

1 C.diffusa (Vanl.) R.Br. Prodr. 451. in Obs. 1810. A much branched slender erect annual 15-45 cm tall. Stems obtusely quadrangular, obscurely winged. Leaves membranous, 3-nerved, broadly ovate, rounded at the base. Flowers pink in terminal dichotomously branched cymes. Fls.: September to February.

Herbarium: HSP-2231-A,B,C. Locality: Yeralwadi.

Common along the banks of streams, rivers & nallas.

- 2. Centaurium, Hill. (Erythrea, Neck.)
- 1 C.roxburghii (Don) Druce in Rep. Bot. Exch, Club. Brit. Isl. 4:614, 1916. (Erythrea roxburghii D.) Erect herb, 10-45 cm tall. Leaves sessile, linear, lanceolate, or oblanceolate, 1-4 x 0.5-0.6 cm. Flowers pink or white in dichasial cymes. capsules narrowly oblong. Fls. & Frts. :November to February.

Herbarium: HSP-2229-A,B,C. Locality: Dalmodi.

Common weed of harvested fields.

3. Exacum, Linn.

1 B.pedunculatum L. Sp.Pl.112.1753. Erect glabrous herb with 4-gonous stems. Leaves linear to broadly lanceolate. Flowers blue or rarely white in terminal cymes. Capsules globose. Fls. & Frts.: October to January.

Herbarium: HSP-2227-A,B,C. Locality: Dalmodi.

Common in drying fields and along the banks of nallas, streams & rivers.

4. Hoppea, Willd.

1 H.dichotoma, Will. In Ges. Naturf. Fr. Neue. Schr. 3:434,1801.

Small erect, dichotomously branched herb, 3-12 cm tall. Leaves ovate, 3-6 x 2-4 mm. Flowers pale yellow, in terminal dichasial cymes. Fls. & Frts. : October to January.

Herbarium: HSP-2228-A,B,C. Locality: Yeralwadi.

Fould in wet places.

5. Swertia, Linn.

S.minor, (Griseb.) Knobl. in Bot. Centrallbl. 60: 321. 1894.

A small erect herb, 4-10 cm tall. Stem conspicuously 4-winged.

Leaves sessile, ovate, acute, obscurely 3-nerved. Flowers, 4-merous, in panniculate cymes. Fls. & Frts.: August to September.

Herbarium: HSP-2230-A,B,C.: Locality: Dalmodi.

BORAGINACEAE

1. Adelocarym, Brand.

A.coelestinum (Lindl.) Brand. in Fedde. Repert. 13:549. 1915.

Paracarym coelestinum Benth.) Erect, branched herb; Young parts pubescent. Leaves radical and cauline; radical leaves broadly ovate. entire, wrinkled, deeply cordate at the base; cauline leaves becoming smaller upwards, ovate acute. Inflorenscence raemes. Flowers bracteate; pedicles very short. Fls.: September to November.

Herbarium: HSP-1686-A,B. Locality: Visapur.

Common along the edges of hill forests.

2. Cordia, Linn.

1 C.dichotoma Forst. f. Prodr. 18, 1876. (Cordia myxa auct. plur.) Middle sized tree; young parts pubescent. Leaves alternate, ovate, ellipticor orbicular, 4-9 x 3-5.5 cm. Flowers white in axillary and terminal panicles. Drupes pale-orange coloured, globose. Fls. & Frts.: March to May. Vern.: Bhokar. Herbarium: HSP-1690-A,B,C. Locality: Dalmodi.

Common along the banks of rivers & streams.

One more species of cordia is available in the area.

3. Heliotropium, Linn.

H.marifolium, Retz. Obs. 2:8, 1781. (H. scabrum Retz.)

Divaricately branched woody herb branching from the base, clothed all over with white appressed hairs. 5-10 cm tall. Leaves linear lanceolate, 10-18 x 2-3 mm. Flowers white in terminal, 2-ranked spicate racemes. Fls. : June to September. Herbarium : HSP-1688-A,B,C. Locality : Vaduj.

Common on rocky soils of waste lands.

2 H.ovaalifolium Forsk. Fl. Aegypt. -Arab. 38. 1775.Erect or procumbent herb, 10-20 cm tall. Stem clothed with white hairs from bubous bases, branching from the base. Leaves ovate elliptic or obovate. Flowers white in terminal, 2-ranked, ebracteate spikes, 2-4 cm long. Natlets ovate. Fls. & Frts. :June October.

Herbarium: HSP-1689-A,B,C. Locality: Mayani.

4. Trichodosma, Linn.

T.indicum Linn. Lehmman. Pl. Fam. Asperif. 193, 1818. Erect, villous, nairy, branched herb. Leaves variable, ovate-oblong, hairy. Flowers pale, cioler blue, solitary and in terminal cymes. Fruits pyramidal, 4-ribbed. Fls. & Frts.: August to November. Vern.: Katmoda.

Herbarium: HSP-1687-A,B. Locality: Visapur.

CONVOLVULACEAE

1.Argyreia, Lour

A.cuneata (Willd.) Ker-Gawl. in Bot. Reg. 8:661.1822. An erect, usually shrub but tendancy to climb when near support. Stems softty silky pubescent. Leaves ovate oblong, obtuse, usually shortly apiculate. Flowers in few flowered cymes; bright purple. Fruit ellipsoid, shining. Fls. & Frts. : July to October. Vern.: Manalungi.

Herbarium: HSP-2220-A,B. Locality: Ramdongar.

Common shrub in the nilly regions.

2. A.hookeri Clarke in Hook. f. Fl. Brit. India 4:185.1836. A large twiner, stem grooved, glabrous. Leaves broadly ovate, acute

at base with rounded lobes. Petioles long, grooved, hairy.
Flowers in cyme. Peduncle long, grooved. Flowers rose coloured
bracteate. Fruits globose. Fls. & Frts. : August to October.

Herbarium: HSP-2221-A,B,C. Locality: Hingane.

2. Convolvulus, Linn.

C.arvensis, L.Sp.Pl.153. 1753. Trailing or twining annual. Leaves linear-oblong, $2.5-5 \times 1-1.5 \text{ cm}$, cuneate at the base. Flowers pale pink or white, on 1-3 flowered axillary peduncles. Capsules globose. Fls. & Frts. : July to January. Vern. : Chandwel.

Herbarium: HSP-2215-A,B,C. Locality: Dalmodi.

Common weed of Jawar and Wheat fields.

3. Cuscusta, Linn.

1 C.reflexa Roxb. Cor. Pl.2:3, t. 104. 1798. Leafless stem parasite, twining. Stem glabrous, pale yellow. Flowers white, solitary or in umbellate clusters of 2-4 in short racemes. Capsules 6-8 mm in diameter depressed globose. Fls. & Frts.: January to April.Vern.: Amarwel.

Herbarium: HSP-4953-A,B. Locality: Satewadi.

Common on hedges of fields.

4. Evolvulus, Linn.

1 E.alsinoides (L.) L.Sp.Pl.ed. 2:392, 1753. Trailing herb with hairy stems, 15-40 cm long. Leaves ovate, obovate, elliptic or lanceolate 6-25 x 4-8 mm. Flowers blue, axillary, solitary 5 capsules globose 3-4 mm in diameter. Fls., & Frts.: Throughout the year. Vern.: Vishnukranta.

Herbarium: HSP-2217-A,B,C. Locality: Enkul.

Common on rocky or gravelly soil of open grasslands.

5. Ipomoea, Jacq.

- *1 I.batatas (L.) Lamk. Encycl. 1:465. 1793. Vern. : Ratali.
- *2 I.cairca (L.) Sweet, Hort. Brit. 287. 1827. (I. palmata Forsk) Ven.: Garvel.
- *3 I.eriocarpa R.Br. Prodr. 484. 1810. (I. hispida Roem.).

 Herbaceous twinner. Leaves ovate oblong or oblong-lanceolate,

 4-7 x 2-3.5 cm. Flowers pink, 1-3 or more in axillary clusters

 about 1 cm across. Capsules globose, hairy. Fls. & Frts.:

 October to February.

Herbarium : HSP-2219-A,B. Locality : Dalmodi.

Common weed of Jawar fields.

I.fistulosa Mart. ex. Choisy in DC. Prodr. 9:349, 1845. (I. carnea auct.) Scandent shrub; Young parts hoary tomentose.

Leaves broadly, 6-13 x 5-10 cm. Flowers pink in axillary corympose cymes, 4-9 cm across. Fruit globose, seeds hairy, black. Fls. & Frts.: Throughout the year. Vern.: Besharam. Herbarium: HSP- 4558-A,B. Locality: Banpuri.

Native of S.Amenica, naturalised along the fields.

5 I.leari, Paxt. Mag. Bot. V.6 (1839) P.267. A handsome twiner,
Stem climbing on the support, prickly, prickles soft, broad,
redish. Leaves cordate, petiolate, strongly nerved. Flowers
large dark-blue, infundibuli form corolla. Fls. :September
to December.

Herbarium: HSP-4936-A,B. Locality: Khatav.

Native of tropical America, common near villages.

6 I.maxima (L.f) G.Don ex Sweet, Hort. Brrit. ed. 2, 372.1830.
(I. sepiaria Koen, ex. Roxb.). A slender twiner. Leaves ovate, entire, acute, cordate with wide sinus and rounded lobes.
Flowers in sub-umbellate cymes, pale purple. Capsule ovoid, glabrous. Seeds hairy. Fls : August to October.

Herbarium: HSP-2216-A,B,C. Locality: Khatav.

7. Lobsura (I..) Kor-Gawl. Bot. Rog. 3, t.: 239.1817. Herbaceous twiner, young parts pubescent. Leaves broadly ovate, 4-5 x 3.5-5 cm. Flowers pale yellow, 20-25 mm long, 1-3 together. Capsules broadly ovate. Fls. & Frts. : September to February. Vern. : Pungali.

Herbarium : HSP-2218-A,B,C. Locality : Vaduj.

Common in hedges around fields.

*8 I.quamoclit L.Sp.Pl.159,1753. Vern. : Ganeshpushpa.

6. Merremia Dennst.

M.emarginata (Burm. f.) Hall. f. in Engl. Bot. Jahrb. 16:652, 1803. (M. gangetica L.) Prostrate herb with filiform sterms, rooting at nodes. Leaves reniform, 1.5-3 cm broad. Flowers yellow, axillary 1-3 together. Capsules-subglobose. Fls. & Frts.: October to January. Vern.: Undirkani.

Herbarium: HSP-2663-A,B. Locality: Khatav.

Common in water loged and wet soil.

7. Rivea, choisy

1 R.hypocrateriformis (Desr.) Choisy, Convolv. Orient. in Mem. Soc. Phys. Geneve 6:408, 1834. Woody twiner with appressed white hairs. Leaves: reniform-ovate, 3-6 x 2.8-5 cm. Sometimes

broader than long. Flowers white, 4-6 cm long. Fruits globose, brown. Fls. & Frts.: August to October.

Herbarium: HSP-2222-A,B,C. Locality: Dalmodi.

Common on shrubs and small trees along streams, rivers.

SOLANACEAE

1. Capsicum, Linn.

- *1 C.annum, L. Hort. Cliff. 59, 1737. Vern. : Mirchi.
- *2 C.frutescens L. Hort. Cliff. 90, 1737. Vern. : Lavangi Mirchi.

2. Cestrum, Linn.

*1 C.nocturnum L.Sp.Pl.191. 1753. Vern. : Rat-Rani.

3. Datura Linn.

D.ferox Linn. Amoen. Acad. 3: 403. 1753. Stout, bushy annual Leaves broadly ovate to rounded in outline, margins lobed. Flowers solitary, axillary. Corolla white. Capsule erect, ellipsoid, with sarp conical spines. Fls. & Frts. : August to October. Vern. : Dhotara.

Herbarium: HSP-2675-A,B. Locality: Khatav.

A native of China, introduced weed.

D.inoxia, Mill. Gard. Dict. ed. 8. n. 5. 1768. A divaricately branched, annual. Stem cylindric, minutely pubescent. Leaves ovate, acute with a few large lobes. Flowers solitary, white. Capsule deflexed, covered with spines.Fls. & Frts. : Soptember to May. Vorn. : Dhotara.

Herbarium: HSP-1419-A,B. Locality: Bombale.

3 D.metel Linn. Sp.Pl. 179. 1753. A dichotomously branched, annual herb. Branches purple, glabrous. Leaves entire, tinged purple. Flowers solitary, pubescent, purple or voilet. Capsule deflexed, with short conical tubercles. Fls. & Frts. : September to January. Vern. : Kal.a Dhotara.

Herbarium: HSP-4561-A,B. Locality: Enkul.

4 D.stramonium, L. Spl.Pl.ed. 1. 179. 1753. An erect annual herb. Stem and branches green. Leaves ovate, margins lobed. Flowers axillary solitary, white. Capsule erect. Fls. & Frts. July to September.

Herbarium: HSP-1414-A,B,C. Locality: Vaduj.

Common around the villages.

4. Lycopersicon Mill.

- *1 L.lycopersicum L. Karsten, Deutsch. Fl. 966, 1880-1883. (L. esculantum Mill.) Vern.: Tomato
 - 5. Nicotiana, Linn.
- *1 N.tabacum L. Sp.Pl.180, 1753. Vern. : Tambakhu.
 - 6. Physalis, Linn.
- P.minima, L.Sp.Pl.183, 1753. Soft. herb, 20-45 cm tall, profusely branched. Leaves broadly ovate, margins broadly serrate; flowers uniformly pale yellow, solitary axillary, nodding on a slender peducle. Berries orange coloured, ovate, shortly salked, enclosed in a a inflated peosistant calyx. Fls.& Frts.: October to February Vern.: Ranpopati.

Herbarium : HSP-1413-A,B,C. : Locality : Ambawade.

Common weed of wet fields.

7. Solanum, Linn.

- *1 S.melongena L.Sp.Pl.186. 1753. Vern. : Wange.
- 2 S.nigrum L. Sp.Pl.186.1753. Erect annual, about 30-40 cm tall.

 Stems glabrous or sparsely hairy. Leaves ovate-lanceolate, 2
 8 x 1.5-5 cm, tappering into a petol. Flowers white in extra axillary 3-8 flowered short racemes. Berries red or black subglobose 5-6 mm in diameter, smooth shining.Fls. & Frts.:

 August to January.

Herbarium: HSP-1416-A,B,C. Locality: Dalmodi.

Common weed of wet fields and waste lands.

3 S.suratterse Burm. f. Fl. Ind. 57, 1768. (S.xanthocarpum Schard.). Prostrate annual, armed all over with straight, sharp yellow prickles, 1-1.5 cm long. Leaves ovate elliptic or elliptic oblong, 5-12 x 1-5 cm, sinuately pinatifid. Flowers purple in extra axillary few flowered cymes. Berries yellow globose. Fls. & Frts. : January to June. Vern. : Bhuiringani. Herbarium : HSP-1417-A,B. Locality : Dalmodi.

Very common on waste land along roadsides and on rubbish heaps near villages.

- *4 S.tuberosum L.Sp.Pl.185. 1753. Vern.: Batata.
- 5 S.violaceum Ortega. Hort. Matr. Dec. 56. 1798. (S.indicum auct.) Much branched under shrub 30-60 cm tall. Stem and branches armed with sharp hooked prickles all over, densely clothed with stellate tomentum. Leaves ovate, acute, sinuately lobed, prickly on midnerve on both sides. Flowers purple. Berries yellow globose. Fls. & Frts.: August to December. Vern.: Chinchurdi.

Herbarium: HSP-1418-A,B,C. Locality: Ramdongar.

Common on the hills of Ramdongar and Chandakhana.

8. Withania, Pauq.

W.somnifera (L.) Dunal. in DC(Prodr. 13. (1):453.1852. A branched erect undershrub 1-1.5 meter tall, branches terete usually covered with hoary tomentum. Leaves sub-acute, entire, more or less pubescent. Flowers greenish, usually about 5-together in a sessile or nearly sessile umbellate cymes. Berry red, smooth. Fls. & Frts. : September to January. Vern.: Ghoda.

Herbarium: HSP-1415-A,B,C. Locality: Dalmodi.

SCROPHULARIACEAE 1. Bacopa, Aubl.

B.mcnaieri (L.) Wettst. in Engl. & Prantl. Pflanzenfarm. 4(3b):77. 1891. (Moniera cuneifolia, M.) Prostrate fleshy herb, glabrous. Leaves opposite, sessile, obovate-oblong, 10-25 x 3-7 mm, fleshy glabrous. Flowers blue or purple on slender solitary axillary pedicles pedicles 1-3 cm long. Capsules ovoid, 3 mm long. Fls. & Frts.: Throughout the year. Vern.: Brahmi.

Herbarium: HSP-1635-A,B. Locality: Dalmodi.

Common in Marshes along streom & river banks.

2. Buchnera, Linn.

1 B.hispida Buch-Ham ex. D.Don. Prodr. Fl. Nep. 91. 1825.

Annual rigid herb, black when dry. Stem slender, hairy, sometimes branched above lower fleaves opposite, broad, upper

alternate, narrow. Flowers sessite, axillary or in bracteate spikes. Corolla light purple. Capsules oblong. Fls. & Frts.: August to November.

Heroarium: HSP-4474-A,B,C. Locality: Ramdongar.

Very occasional on the hills.

3. Dopatrium Buch-Ham.

D.junceum (Roxb.) Buch-Ham ex. Benth. Scroph. Ind. 31.1835.

Soft erect herb, 10-30 cm tall. Stem acutely 4-angled, glabrous. Leaves opposite, sessile, basal and lower ones obovate oblong. 10-25 x 2-5 mm, upper ones ovate, acute and much smaller. Flowers blue on axillary solitary pedicles.

Capsules globose, 4-valved, seeds minute. Fls. & Frts.: September to October.

Herbarium: HSP-1378-A,B,C. Locality: Ambheri.

Common in drying ponds & ditches.

4. Kickxia, Dumort.

1 K.ramocissia (Wall.) Janchen, in Oesterr. Bot.Zeitschr. 82:152
1933. (Linoria ramosissima Wall.). Perennial herb often much branched from the base; branches slender, 30-75 cm long, glabrous. Leaves alternate, 1-4 x 0.8-3.5 cm, glabrous. the lower 3-7 lobed, triangular, the upper apiculate. Flowers yellow on filiform axillary pedicels 1-3 cm long. Fls. &Frts.: July to October.

Herbarium: HSP-1300-A,B,C. Locality: Ramdongar.

Common on the slopes of hills.

5. Lindernia, Allinoi.

1 L.crustecea (L.) F.V.muell. syst. Census. Austr. Pl.1:97.1882.
(Vandellia crustecea (L.).) Erect or decumbent herb, rooting at nodes. Leaves ovate, glabrous, margins bluntly serrate.
Flowers purple, solitary. Fls.: July to October.

Herbarium: HSP-2665-A. Locality: Kortikswami.

Common in open moist places.

6. Russelia, Jacq.

- *1 R.equisetiformis Schlecht. & Cham. in Linnaea 6: 377, 1831.

 (R. juncea Zucc.).
 - 7. Sopubia Buch.-Ham. ex. D.Don.
- 1 S.delphinifolia (L.) G.Don, Gen. Syst. 4:560. 1837.Erect.much branched herb, 30-60 cm tall. Parasitic on grass rooots.

 Leaves opposite, 2-4 cm long, pinnatisect; segments few, filiform. Flowers pink, axillary, solitary or 2-together forming terminal racemes. Fls. & Frts. : July to December.

Herbarium: HSP-1299-A,B,C. Locality: Pusesawafi.

Common in pasture lands during rainy season.

S 8 Stemodia, Linn.

1 S.viscos Roxb. Pl.Cor. 2: 33, t. 163, 1803. Erect, much branched, glandular pubescent herb, 10-40 cm tall. Stem quadariangular; branches slender. Leaves sessile, opposite, oblong, 10-30 x 4-12 mm, acute, serrate. Flowers blue-violet, axillary, solitary or in terminal few flowered racemes. Capsules ovoid, accuminate. Fls. & Frts.: November to January.

Herbarium: HSP-1379-A,B. Locality: Hingane.

Common in narveted fields.

9.Striga, Lour.

1:363.1336. An erect scabrid or strigose herb, 15-35 cm tall.

Stem slender, subquadriangular, harsnly strigose. Leaves sessile, linear acute. Flowers in slender spikes in the axils of flaral bracts. Corolla white. Capsules included in the Calyx.

Seeds minute. Fls. & Frts.: August to December. Vern.:

Tarphula.

Herbarium: HSP-1376-A,B,C. Locality: Dalmodi.

Very common parasite on the grasses and Jowar.

2 S.gesnerioides (Willd.) Vatke in Oest. Bot. Zeit. 25:11.1875

(Striga orobanchoides R.Br.) Small erect herb, 10-20 cm tall,
Parasitic on roots of Lepidagathis. Stems terete; branched shining dark purple. Leaves scale like. Flowers sessile, pink, in dense terminal spikes.Fls.: October to November.

Herbarium: HSP-4475-A,B,C. Locality: Kartikswami.

Common parasitic plant.

3 S.lutea Lour. Fl.Cochinch. 22.1790. Erect herb, 5-20 cm tall, rigid slender with prickly, hairs. Leaves sessile, 1.2-3 cm long linear. Flowers yellow in lax spikes. Capsules 5 mm long, oblong, ellipsoid. Fls. & Frts. : July to September.

Herbarium: HSP-4560-A,B. Locality: Mandave.

Common parasite on roots of grasses.



S.sulphurea, Dalz. & Gibs. Bo.Fl. 182: 1861. an erect slender nerb; stems 4-angled. Leaves sessile, linear, acute, scabrous. Flowers axillary, subsessile. Corolla yellow; tube as long as the calyx. Fls. : August to September.

Herbarium: HSP-2672-A,B. Locality: Ramdongar.

Very rare plant found only at Ramdongar.

10. Verbascum, Linn.

1 V.chinense (L.) santapau, Fl. Pur. 90. 1958. (Celsia coromandeliana Vanl.). Erect annual herb, 30-90 tall, clothed all over, except corolla, with white branched hairs. Leaves radical, long petaloct, lyrate. Flowers yellow in elongating simple or branched terminal racemes. Capsules globose. Fls. & Frts. : January to June.

Herbariuum: HSP-1298-A,B,C. Locality: Khatav.

Common on waste land around fields.

OROBANCHACEAE

1. Orobanche, Linn.

O.cernua Loefl. It. Hisp. 152. 1758. Root parasite. Stem Flesh-coloured. 20-45 cm or more tall, rounded or more often much compressed. Scale leaves-few, scattered, lanceolate. Flowers blue, purple or white, sessile, arranged in dense terminal spikes. Fls.: January to March. Vern.: Bambaku.

LENTIBULARIACEAE

1. Utricularia, Linn.

U.graminifolia Vahl, Enum. 1:195, no.3. 1804. Delicate herb. Scapes erect. Roots. when growing in Swampy place, bearing globose bladders. Leaves oblanceolate. Flowers blue, few in lax raceme. Capsules globose. Seeds minute. Fls. & Frts.: August to October.

Herbarium: HSP-1634-A. Locality: Chandakhana.

Very occasional in water logged areas.

2 U.striatula Sm. in Rees, Cyclop. 37. no.17.1819. A small slender herb, stolons filiform creeping, bearing leaves and bladders. Leaves usually in small rossetes at the base of scapes, Orbicular or reniform. Scapes filiform 1-10 cm long with or without scapes, few to 10 flowered. Corolla violet, with a yellow spot at the base of the lower lip. Fls.: August to September.

Herbarium: HSP-1639-A,B. Locality: Ramdongar.

Common on the wet rocks on the hills.

BIGNONIACEAEE

1. Dolichandrone (Fenzl) Seem.

D.falcata, Seem. in J.Bot.8:381.1870. Decidious tree, 6-10 meter tall, bark grey, young parts densly white tomentose. Leaves simply pinnate, 7-15 cm long, leaflets usually 7,1-3.5 x 1.2-1.7 cm orbicular or obovate, emarginate. Flowers white in terminal few flowered racemes. Capsules flat, falcately curved. Fls. & Frts.: March to August. Vern.: Medshingi.

Herbarium: HSP-1683-A,B,C. Locality: Dalmodi.

Frequent on rocky soil.

2. Jacaranda

‡1 J.aculifolia Humb. & Bonpl. Pl. Aequin 1:59 t. 17, 1806. Vern.: Nila Gulmohar.

3. Millingtonia L.f.

*1 M.hortensis L.f. suppl. 291,1781, Clarke in Hook. f.Fl.Brit.
Ind.4:377, 1884. Vern. : Akashneem.

4. Spathodia

*1 S.companulataBeauv. Fl. D'Owar. 1:47 tt. 27-28. 1805. Vern.:
Pichkari.

5. Tecoma, Juss.

1 T.stans (L.) Juss. ex. H.B. & K.Nov. Gen. & Spec. 3:144.1819.

Small tree or large shrub, glabrous. Leaves pinnate, Leaflets

3-7, opposite, lanceolate, accuminate, serrate. Flowers bright yellow coloured. Capsules 10-20 cm long, 5-6 mm broad. Seeds thin, winged. Fls. & Frts. : August to September. Vern. : Phutani.

Herbarium : HSP-1684-A,B,C. Locality : Randongar.

Planted but naturalised to some extent.

PEDALIACEAE

1.Sesamum, Linn.

1 S.laciniatum Klein ex. Willd. Sp.Pl.3:359.1800. Prostrate, pubescent herb. Stems spreading branches 4-gonous; Leaves ovate to elliptic, 1-3 cm long, nearly as broad, variously lobed and laciniate. Flowers dark purple, solitary axillary. Capsules 12-15 x 6-7 mm. Seeds black. Fls. & Frts. :June to October.

Herbarium: HSP-4457-A,B,C. Locality: Visapur.

Common in open grasslands on rocky soil.

*2 S.orientale L.Sp.Pl.634.1753. S. indicum (L.) Vern.:Til.

MARTYNIACEAE

1.Martynia, Linn.

M.annua (Houst. in Mart.) L.Sp.Pl.618.1753. (M. diandra Glox.)

Glandular-hairy neb. 1-2 m tall. Stem herbareous stout. Leaves thin, broadly ovate, 20-45 x 21-50 cm, lobed. Flowers pink in erect terminal racemes, 12-18 cm long. Fruit ovioid with short beak. Seeds black. Fls. & Frts. : July to December.

Vern.: Wincha.

Herbarium: HSP-4458-A,B,C.: Locality: Lalgun.

Found grwoing on waste lands around villages.

ACANTHACEAE

1.Adhatoda , Mill.

A.zeylanicaMedic. Hist. & commentat. Acad. Elect. Sci. Theod-plant 6:393.1790. (A. vasica L. Nees.) Shrub, 2-4 meter tall. Leaves lanceolate, 10-20 x 3-8 cm. Flowers white in axillary and terminal dense spikes shorter than the leaves. Capsules 1.8-2.2 x 0.8 cm, shortly pointed, pubescent. Fls. & Frts.: August to December. Vern. : Adulsa.

Herbarium: HSP-4937-A,B. Locality: Khatav.

Planted in nedges in villages.

2. Andrographis, Wall.

1 A.paniculata (Burm.f) Wall. ex. Nees in Wall.Pl.As.Rar.3:116.1832 An erect, branched, glabrous herb;

branches sharply 4-angled. Leaves simple, lanceolate, tapering to the base, glabrous. Inflorescence axillary and terminal racemes-forming panicle. Flowers small, witisn spotted with rose purple. Capsule linear oblong. Fls. & Frts.: September to December.

Herbarium: HSP-2237-A,B. Locality: Mayani.

Common on slopes of hills.

3. Asystasia, Blume.

1 A.ganetica (L.) T.Anders. in Thw. Enum. 235.1860. (A. Nees.) An erect corromandeliama herb. Stem quadriangular. Leaves ovate, acute, sub-cordate at base, glabrous. Flowers terminal and axillary racemes. Capsule constricted about the middle. Fls. & Frts. : August to December.

Heerbarium: HSP-2240-A,B. Locality: Katarkhatav.

Common undershrub in partially shaded places.

4. Barleria, Linn.

B.cristata L. Sp.Pl. 636. 1753. Woody herb, 0.3-1.5 meter tall. Stems appressedly hairy. Leaves elliptic oblong, 4-10 x 2.5-4 cm, acute. Flowers purple in axillary and terminal short spikes. Capsules 1-1.5 cm long, ellipsoid, acute at both ends, 4-seeded. Fl.s & Frts.: September to January.

Herbarium : HSP-2250-A,B,C. Locality : Chandakhana.

Occasional on gravelly slopes of hills.

B.prinoitis L.Sp.Pl. 636.1753. Shrub 1-1.5 meter tall branching from the base, glabrous. Leaves elliptic to oblong elliptic, 9-15 x 4-6 cm, acute and bristle tipped. Flowers yellow,

sessile, solitary axillary. Capsules ovoid, 2-2.5 cm long. Fls.& Frts.: October to December. Vern.: Kate-Koranti.

Herbarium: HSP-1654-A,B. Locality: Khatgun.

5. Blepharis, Juss.

B.asperima Nes in DC. Prodr. 11. 1847. A sub-erect or prostrate herb. Leaves ovate lanceolate, acute or acuminate, rough on both the surfaces. Flowers blue or white, solitary, sessile in the axils. Capsule oblong. Fls. & Frts.: October to December.

Herbarium : HSP-2232-A,B,C. Locality : Randongar.

Common plant in shady places.

B.repens (Vahl.) Roth, Nov. Pl.Sp.321. 1821. (B. molluginifolia Pers.). Prostrate undershrub. Stems wiry, hispid, 15-30 cm long. Leaves whorled, sessile, often 4 at each node, obovate or oblonceolate, 8-15 x 3-5 mm, rounded at apex. Flowers blue purple, sessile, solitary, axillary. Capsules ellipsoid, compressed. Fls. & Frts.: July to September.

Herbarium: HSP-2234-A,B,C. Locality: Vaduj.

Common along the field and in open grasslands.

6. Crossandra, Salisb.

*1 C.infundibuliformis (L.) Nees in Wall. Pl.As Rar. 3:98.1832.

Vern.: Aboli.

7, Dipteracanthes Nees.

D.prostratus (Poir) Nees in Wall Pl.As Rar.3:81.1832. (Ruellia prostrata Poir.). A straggling stout herb with long internodes, much branched. Leaves ovate, faintly crenate, broadly

accuminate. Flowers purple, solitary axillary. Capsules pointed, slighly pubescent. Fls. & Frts. : September to November.

Herbarium: HSP-2242-A,B,C. Locality: Bombale.

Occasionaly found in shady places.

8. Ecbolium, Kurz.

1 E.viride (Forsk.) Var. latevirens (Clarke) Sant. in Rec.Bot. surv. India. 16(1):185. 1960. E. linneanum Kurz.) An erect shrub. Leaves lanceolate or elliptic lanceolate, acuminate, glabrous, dark green above, paler beneath. Flowers in axillary and terminal spikes. Aracts foliaceous, reticulately veined. Flowers bluish green. Fls: October to March.

Herbarium: HSP-2681-A,B Locality: Chandakhana.

A common plant in semi-shaded places in hill forests.

9. Eranthemum , Linn.

8.roseum (Vahl.) R.Br.Prodr. 477. 1810. (Daedalcanthus roseus anders) An erect branched herb. Leaves oblong, lanceolate, acuminate, tapering to the base. Flowers axillary and in terminal spikes. Bracts hairy on the midrib and ciliate on the margins. Flowers pink. Fls. & Frts.: November to March. Vern.: Ran-Aboli.

Herbarium: HSP-2233-A. Locality: Ramdongar.

A common nerb in semishaded places off the forests.

10. Hemigraphis, Nees.

H.latebrosa (Heyne ex Roth.) Nees in DC. Prodr. 11:723,1847.

Procumbent herb 30-45 cm tall. Clothed with soft whits hairs.

Leaves ovate, 2-6 x 1-3.5 cm, shortly and broadly acuminate or acute. Flowers blue in axillary and terminal heads.

Capsules minutely pubescent. Fls. & Frts. :October to January.

Herrbarium: HSP-2241-A,B,C. Locality: Chandakhana.

Frequent under shade of trees and shrubs along streams and rivers.

11. Hygrophila, R.Br.

1 H.auriculata (Schum.) Heine in Kew Bull. 16:1962.

(Asterocantha longifolia Nees.) Erect nerb, 60-120 cm tall.

Leaves sessile, oblong lanceolate, in whorlds of 6 at the nodes. Flowers purple, whorled, in axils of leaves, often 8 in 4 pairs of 2 each. Capsules 7-8 mm long, pointed, 4-8 seeded. Fls. & Frts.: August to December. Vern.:

Talimkhana

Herbarium : HSP-2239-A. Locality : Dalmodi.

Common in marshes along streams, rivers, near Ponds.

12. Justicia, Linn.

- *1 J.gendurosa Burm. f. Fl. Ind. 10.1768.
- J.trinervia Vanl, Enum. 1:156. 1804. A procumbent herb. Upper leaves sessile; lower ones shortly petidate, elliptic or oblong, glabrous. Flowers in terminal spikes. Bracts 3-narved, broad at base, narrowwing to the apex. Flowers white Capsules oblong, 4-seeded.Fls. & Frts. September to December.

Herbarium: HSP-2602-A,B,C. Locality: Khatav.

Common in marshy places and along the cultivated fields.

13. Lepidagathis, Willd.

perrenial root. Stems short; branches spreading, quadrangular, often tinged with purple when old. Leaves sessile, elliptic oblong. Flowers white or pale pink in globose heads of dense spikesat the base of the stem. Fls & Frts.: September to February.

Herbarium: HSP-2236-A,B. Locality: Dalmodi.

Common on gravelly slopes and waste lands.

14. Neuracanthes Nees.

N.sphaerostachyus (Nees) Data. in Kew. J.Bot.2:140.1850. An erect shrub. Leaves sub-sessile, elliptic oblong, obtuse at the apex, rounded at the base, coriaceous. Flowers in axillary globose spikes. Bracts purplish, hairy on both the surfaces, 5-7 nerved. Capsule ovoid. Fls. & Frts. : September to November.

Herbarium: HSP-2235-A,B,C. Locality: Chandakhana.

Occasionaly found in the shrubs of hill forests.

15. Peristrophe, Nees.

P.bicalyculata (Retz.) Nees in Wall. P.As.Rar. 3:133.1832.

Shrubby annual, 30-90 cm or more tall. Leaves ovate-elliptic, large in lower half of the plant. Flowers 6 rosy-red in paniculately branched lax axillary and terminal trichotomous

cymes. Capsules with a flat solid stalk, pubescent. Fls. & Frts.: October to March.

Herbarium: HSP-2238-A,B,C. Locality: Dalmodi.

Very common on waste land near villages, on old walls, along river banks.

16. Ruellia, Linn.

1 R.tuberosa, L.Sp.Pl.635.1753. Annual, erect herb, 20-50 cm nigh, sparsely hairy. Stem 4-gonous. Leaves elliptic, apex pbluse, base narrowed down. Flowers in axillary cymes which sometimes pass into terminal panicle. Fruit linear. Seeds thin. Fls. & Frts.: May to July.

Herbarium: HSP-1633-A,B. Locality: Ramdongar.

17. Rungia, Nees.

R.repens (L.) Nees. in Wall. Pl. As. Rar. 3:110.1832. Stems erect or decumbent, 15-90 cm long, often rooting at nodes near the base. Leaves shortly petiolate, elliptic lanceolate, 2-5 x 1-3 cm, acute. Flowers blue or pale purple in erect, terminal spikes 2-6 cm or more long. Capsules 4-5 mm long, ovoid-oblong. Fls. & Frts. : September to January.

Herbarium: HSP-2603-A,B. Locality: Vaduj.

Common in wet fields.

VERBENACEAE

1. Clerodendrum, Linn.

- ***1 C.inerme** (L.) Gaertn, Eruct. 1:271. t. 57. f.1.1788.
- 2 C.phalomidis L.fl. Suppl. 292.1781. (C. phlomoides').Large shrub often straggling, 5-6 m tall; branches terete, densely

clothed with white cottony tomentum. Leaves broadly ovate, obtuse, coarsely crenate-denate or subentire. Flowers white, fragrant at night, in dichotomous axillary cymes. Drupes 6 mm long, broadly obovid, depressed. Fls. & Frts.: August to March. Vern.: Takali.

Herbarium: HSP-1421-A,B,C. Locality: Mayani.

Common in hedges, along river and stream banks.

C.serratum, (L.) Moon, Cat. 46, no.382,1924. Shrub about 1.5-3 meter tall. Stem 4-angled, grooved, branches pubescent. Leaves usually 3 in a whorl; broadly elliptic, acute, corsely and sharply serrate. Flowers pale-blue in lax pubescent dichotomous cymes,. collectively forming a large, terminal panicle.Fls. & Frts.: September to November. Vern.: Bharang.

Herbarium: HSP-1423-A,B,C. Locality: Ramdongar.

Common on slopes in hill forests.

2. Lantano, Linn.

L.camara, L.Sp.Pl.627.1753. Straggling shrub, 1-3 m tall; branches aculeate with recurved prickles, pubescent. Leaves ovate to oblong-ovate, 3-8 x 1.5-3.5 cm, crenate-denatate. Flowers usually orange-red in dense corymbose heads, 2-4 cm across. Drupes globose, 3-4 mm in diam, shining bluish-black when ripe. Fls. & Frts. : More or less throughout year. Vern. : Gnaneri.

Herbarium: HSP-1422-A,B. Locality: Dalmodi.

Planted in hedges and naturalised near villages on waste land.

3. Phyla, Lour.

P.nodiflora (L.) Green in Pittonia 4:46,1899. (Lippia nodiflora (L.) Michx.). Prostrate perennial, herb. Stems rooting at nodes. Leaves opposite, subsessile, obovate, cuneate at base, serrate. Flowers white or pale pink, sessile, densely packed in peduncled, axillary neads which are at first globose afterwards elongating and becoming spikate. Fls. & Frts.: Throughout the year.

Herbarium: HSP-1424-A,B,C. Locality: Vaduj.

Common in pastures along river, stream banks and other marshy localities.

4. Priva, Adans.

P.cordifolia (L.f.) Druce. in Rep. Bot. Exch.Cl.Brit. Isles, 1916: 641,1917. (P. leptostachya Juss.) Erect branched herb, 30-50 cm tall. Stems guadrangular, pubescent with small often hooked hairs. Leaves ovate or elliptic, obtuse. Flowers white in long lax spicate racemes 15-50 cm long, fruits enclosed in enlarged calyx, 6 mm in diam. Fls. & Frts.: October to December.

Herbarium: HSP-2224-A,B,C. Locality: Dalmodi.

Rare, occasionaly found on waste land near wet. fields.

5. Tectona, Linn.

*1 T.grandis, L. R.Suppl. 151. 17781. Vern. : Sagwan.

6. Vitex, Linn. *

1 **V.negundo**, L.Sp.Pl.638,1753.

Shrub, branches quadrangular, densely clothed with ashy grey indumentum. Leaves often 3-foliate or occasionally 5-foliate; leaflets elliptic to lanceolate. Flowers rachis of a large terminal or axillary panicles. Drupes black, globose. Fls. § Frts.: Throughout the year. Vern.: Nirgudi.

Herbarium: HSP-1420-A,B. Locality: Pusegaon.

Common along stream banks and field borders.

LAMIACEAE(LABIATAE)

1. Anisochilus, Wall.

A.carnosus (L.f) Wall. Pl.As. Rar. 2:18.1831. Annual, erect, herb. Stem quadrangular, glabrous, often tinged with red. Leaves broadly ovate, obtuse, crenate, slightly pubescent. Flowers sessile, in dense ultimately cylindric spikes. Nutlets compressed, smooth, brown. Fls & Frts. : September to November. Vern. : Kapurli.

Herbarium: HSP-1392-A,B. Locality: Ammbheri.

Very common in wet fields and on old Walls.

2. Colebrookea, Smith.

1 C.oppositifolia Smith. Exot. Bot. 2:t. 115,1805. A much branched, erect shrub. Leaves light-green, crowded towards the ends of branches, opposite or verticillate, softly hairy. Flowers in terminal spike. Flowers numerous, white. Bracts and bracteoles present. Fls. & Frts.: December to May. Vern.: Bnaman.

Herbarium : HSP-2680-A,B. Locality : vardhangad.

Common in nilly forets along the margins.

3. Hyptis, Jacq.

1 H.suaveolens (L.) Poit. in Ann. Mus. Par. 7:472,1806.

Erect, woody, glandular-tomentose, sweet, scented herb about 1 meter tall. Leaves ovate, cordate. Flowers blue, sessile in pedunted cymes in upper axils. Nutlets-2. Fls. & Frts.: September to December.

Herbarium: HSP-1390-A,B. Locality: Ambheri.

Tropical American weed now naturalised and found on waste land.

4. Lavandula, Linn.

1 L.bipinnate (L.) Roth. O.Ktze. Rev. Gen. Pl. 521. 1891.

(L. buramanni Benth.) Erect herb, 1 meter tall. Leaves sessile or nearly so, deeply divided into linear segments. Segments to othed, subacute, pubescent on both surfaces. Flowers white with blue tinge in terminal simple or branched spikes. Fls.:

Herbarium: HSP-1393-A,B. Locality: Pusegaon.

Common on gravelly hillslopes, amongst grasses.

5. Leonotis, R.Br.

L.nepetifolia (L.) R.Br. Prodr. 504.1810. Erect, Woody herb, about 1 meter tall. Leaves broadly ovate to lanceolat, acuminate, broadly serrate. Flowers orange-red in axillary dense, globose, many-flowered whorls 3-6 cm in diameter. Nutlets oblog. Fls. & Frts. : September to January. Vern.: Deepmal.

Herbarium: HSP-2677-A,B. LOcality: Jakhangaon.

Frequent along river, streams, gullies in shade of trees and shrubs.

6. Leucas, R.Br.

L.aspera (Willd). Spreng. Syst. Veg. 2: 743. 1825. Erect annual, 15-45 cm tall. Leaves subsessile, linear, oblong. flowers white, sessile or nearly so in terminal and axillary many flowered whorls, about 2 cm in diameter. Nutlets oblong. Fls. & Frts.: June to November. Vern.: Kumbha.

Herbarium : HSP-1396-A,B,C. Locality : Vadjuj.

Common weed of wet fields.

2 L.biflora (Vahl) R.Br. Prodr. 504. 1810. (L. procumbens Desf.) Procumbent, pubescent herb with a long tap root and slender root fibres near the soil surface. Leaves ovate, acute, rounded at the base. Flowers 2 at the nodes, white Nutlets 2 mm long, oblong, trigonous. Fls. & Frts. : June to November.

Herbarium: HSP-2658-A,B. Locality: Khatav.

Frequent on wet rocky soil along, river, stream banks.

3 L.ciliata Bentn. in Wall Pl.As. Rar. 1:61.1830. A much branched herb with spreading hairs. Leaves elliptic lanceolate. Flowers in terminal and axillary, globose whorls, bracteate. Corolla white, densely clothed with yellowish-brown hairs. Fls.: October to January.

Herbarium: HSP-2246-A,B. Locality: Ramdongar.

Common on wet soils under the shades.

4 L.martinicensis (Jacq.) R.Br. Prodr. 504. 1810. Stout herb about 1 meter tall. Leaves ovate or ovate-lanceolate, 5-15 x 1.8-6 cm, broadly crenate-serrate, obtuse or broadly acuminate. Flowers white in dense or occasionaly few flowered axillary clusters. Nutlets 2-3 mm long, oblong. Fls. & Frts: September to March.

Herbarium: HSP-2651-A,B,C. LocalityL: Dalmodi.

Found on waste land.

5 L.stelligera Wall. ex. Bentn. in Wall. Pl.As Rar.1:61.1830.

An erect, branched, hairy herb. Leaves elliptic lanceolate, serrate, tappering in to the petiole; hairy on both the surfaces. Flowers sessile, in terminal and axillary whorls, bracteate. Fls.: October to November.

Herbarium: HSP- 1395-A,B,C. Locality: Ambheri.

Found on hilly regions.

6 L.urticifolia (Vanl.) R.Br.Prodr. 504. 1810. Erect annual, 30-60 cm tall. Leaves broadly ovate, crenate-serrate. Flowers white in many flowered axillary globose whorls about 2.5 cm in diameter. Nutlets obovid-oblong, trigonous. Fls. & Frts.: August to December.

Herbarium: HSP-4938-A,B. Locality: Vaduj.

Common on waste land and old walls.

7. Mentha, Linn.

M.spicata L.Sp.Pl.576,1753.(M. viridis L.). Perennial by leafy stolons, glabrous or nearly so. Stems ascending branches 30-60 meter tall. Leaves sessile or nearly so, lanceolate,3-6 cm long. Sharply serrate. Flowers purple in short obtuse loose

spikes. Fls. : Throughout the year. Vern. : Pudina.

Herbarium: HSP-2652-A,B,C. Locality: Visapur.

Common in marsny places.

8. Ocimum, Linn.

O.americanum, L.Cemt. Pl.1:15,1755. (O. canum Sims). Erect, much branched, hairy pubescent, woody herb. Leaves ovate lanceolate, entire or broadly serrate. Flowers white, arranged in close whorls. Fls. & Frts. : August to October. Vern.: Ran Tulsi.

Herbarium : HSP-1389-A,B,C. Locality : Dalmodi.

Common on waste alnd near fields.

O.basilicum, L.Sp.Pl.597.1753. Erect much branched aromatic herb. Leaves ovate, 2-5 x 1-3 cm, entire or broadly serrate. Flowers white in thyrsoid racemes, about 6 in whorl. Fls.& Frts.: August to November. Vern.: Sabja.

Herbarium: HSP-2662-A,B. Locality: Palasgaon.

Common in open grasslands near fields.

O.sanctum, L.Mant. 1:85, 1767. Erect annual, 30-60 cm tall, much branched. Stems and branches usually purplish, clothed with soft spreading hairs. Leaves elliptic oblong, obtuse or acute or crenate serrate. Flowers pink in terminal thyrsoid racemes. Nutlets slightly more than 1 mm long, ellipsoid, yellow with black markings. Fls. & Frts.: Throughout the year. Verl.: Tulas.

Herbarium : HSP-1648-A,B. Locality : Khatav.

Planted near temples and house and also wild.

9. Orthosiphon, Benth.

O.pallidus Royle ex Benth. Bot. Misc. 3:370.1833. A branched herb. Stem woody at base. Leaves ovate, acute, coarsely serrate, glabrous. Flowers in distant whorls in raceme pale purple, bracteate. Fls. April to September.

Herbarium: HSP-1394-A,B,C. Locality: Jakhangaon.

Occasionaly found in waste land.

10. Plectranthus, L' Herit.

P.mollis (Ait.) Spreng. Syst. 2:690. 1825. An erect herb.

Leaves broadly ovate, crenate, hairy beneath, cordate.

Flowers few in cymes. Corolla light blue, tube decurved about the middle. Fls. & Frts. : September to October.

Herbarium: HSP-191-A,B. Locality: Ambheri.

Common in shady places.

NYCTAGINACEAE

1. Boerhavia, Linn.

B.chinensis (L.) Aschers & Schweinf, Beitr. Fl.Aeth. 1:167, 1867; (B.repanda Willd). Scandent, glabrous or minutely pubescent herb. Branches 1-1.5 m long with long internodes. Leaves broadly ovate, repand sinuate. Flowers pink, pedicelled, 3-6 in simple axillary umbels. Fruits: Obovoid. Fls. & Frts.: October to January. Vern.: Punarnova.

Herbarium: HSP-4453-A,B. Locality: Ambavade.

Common in nedges around wet fields and along river and streams.

2 B.diffusa L.Sp.Pl.3, 1753. Diffuse wody herb with long fusiformm root. Stem prostrate, 15-100 cm long. Leaves broadly

ovate, rounded at apex. Flowers pink small subsessile 5-10 together. Fruit 3 mm long. Fls. & Frts. :More or less throughout year. Vern. : Vasu.

Herbarium: HSP-4554-A,B. Locality: Diskal.

Common weed in open grasslands.

- 2. Mirabilis, Linn.
- *1 M.jalpa. L.Spl.Pl.177. 1753. Vern.: Gulmus.
 - 3. Bougainvillea Comm. ex. Juss.
- *1 B.spectabilis Willd. Sp.Pl.2:348,1799.

AMARANTHACEAE

1. Achyranthes, Linn.

A.aspera L. Hook f. Fl.Brit. Ind. 4:730.1885. Erect woody herb, 30-90 cm tall. Leaves ovate or broadly elliptic, shortly accuminate, rounded at base. Flowers pale green in simple terminal spikes reaching 30 cm long in fruit. Utricles oblong, cylindric, truncate at the apex. Fls. & Frts. : August to January. Vern. : Aghada.

Herbarium: HSP-3525-A,B,C. Locality: Dalmodi.

Common weed on waste land near villages and on bunds of fields.

2. Aerva, Forsk.

A.javanica (Burm f.) Juss in Ann. Muss. Paris 11:131.1808.

Erect suffruficose nerb, hoary tementose 1-15 meter tall, stem terete branched, convered with a thick stellate tomentum. Leaves alternate, variable in size, sessile or nearly acute, linear oblong. Flowers unisexual, usually dioecious, dull White sessile in oblong spikes, 3-12 cm long, Fls. :August to November.

Herbarium: HSP-3523-A,B,C. Locality: Dhondewadi.

Very common in the barren fields.

3. Alternanthera, Forsk.

A.ficoidea (L.) r.Br. ex. Roem & Schult. 5.555, 1819.

Herbaceous much branched from the root Branches 20-60 m long, often purplish. Leaves oblong, oblanceolate, 2-6 x 1-2 cm, obtuse or subacute. Flowers sessile, in small axillary heads. Fls. : July to March.

Herbarium: HSP-1677-A,B,C. Locality: Ner Damp.

Very common near the damps.

A.pungens, H.B. & K. Nov.Gen.Sp.2:206,1808.(A. echinata Sm.)

Prostrate herb. Stems much branched, branches spreading,

pubescent, 15-45 cm long. Leaves opposite, broadly obovate

to orbicular, 1-3 x 0.8-2.7 cm, obtuse. Flowers in short

axillary pungent spikes, 6-10 mm long. Utricles compressed,

1 mm in diam, narrowly winged. Fls.& Frts. More or less

throughout the year. Vern.: Reshmi kata.

Herbarium : HSP-1678-A,B,C. Locality : Dalmodi.

Common on waste lands along roadsides.

3 .A.sessilis (L.) DC.Cat.Hort. No Sp.77,1813. (A. triandra Lamk.). Much branched herb; branches 15-20 cm long, often purplish, prostrate or ascending, rooting at lower nodes, glabrous. Leaves elliptic oblanceolate or linear oblong. 1-5 x 0.3-1.5 cm, obtuse or subacute. Flowers sessile in small axillary neads, white or sometimes pink. Utricles 1.5-2 x 2.5-3 mm, with thickened margins. Fls. & Frts.: July to March. Vern.: Jaljamba.

Horbarium : HSP-1676-A,B,C. Locality : Mayani.

Common in marshes near streams, rivers & Ponds.

4. Amaranthus, Linn.

A.gracilis Desf. Table. Enc. Bot. 43.1804.(A. viridis, L.)

Erect or procumbent herb. Stems strated, 30-45 cm long.

Leaves ovate, 4-6 x 3.3.5 cm, rarely larger but more often smaller, entire emarginate at apex. Flowers in axillary and in terminal clusters. 8-15 cm long. interrupted spikes or panicles Fls. & Frts.: August to January.

Herbarium: HSP-3518-A,B,C. Locality: Dalmodi.

A common weed in gardens & cultivated fields.

A.hybridus, L.Sp.Pl.990.1753. (A, paniculatus, Linn.). A tall nandome annual plant reaching 1-2 meter in height. Leaves elliptic lanceolate, 5-15 x 2-7 cm, acute or acuminate. Flowers numberous in dense thyrsoid yellowish or red cloured spikes, the central spike the longest. Utricles 3 mm long, ovoid. Fls. & Frts.: September to January. Vern.: Rajgira.

Herbarium: HSP-1680-A,B. Locality: Dalmodi.

Cultivated for vegetable and edibleseeds and also escaped and growing as weed.

3 A.lividus, L.Sp. Polygonoides (Moq). Thell ex-Probst, Wollandventiflora 74, 1949. (A. blitum L.). Erect procumbent herb stems, striate, 20-30 cm long, much branched. Leaves ovate, 3×2 cm or smaller, emarginate at apex. Flowers green in axillary clusters. Fls. & Frts. : June to December.

Heerbarium: HSP-1679-A,B. Locality: Dalmodi.

Common on waste lands.

4 A.SpinosusL.Sp.Pl.991, 1753. Erect glabous annual, 30-60 cm tall, stems striated, usually green, with sharp axillary spines about 1-1.5 cm long. Leaves ovate or lanceolate, 2-8 x 1.3 cm flowers green in dense axillary clusters and axillary and terminal rather interrupted, 6-12 cm long spikes. Fls. & Frts.: July to December. Vern.: Kathemath.

Herbarium: HSP-3521-A,B,C. Locality: Dalmodi.

Common on waste lands, barren fields.

A.tricolor L.Sp.Pl.989, 1753. (A. polygamus L.; A.gangeticus L.) Erect or procumbent glabrous herb about 45-60 cm tall or more. Leaves broadly ovate, entire, with undulate margins, 6-7 x 5-6 cm abruptly narrowed at the base and tappering into 4-7 cm long petiole, refuse at apex with a fine mucro, prominently nerved. Flowers green in dense axillary clusters. Fls. & Frts.: August and January. Vern.: Tandôli.

Herbarium: HSP-1681-A,B,C. Locality: Dalmodi.

Cultivated as avegetable, also occurring as a weed on waste land.

5. Celosia Linna

C.argentea L.Sp.Pl. 205, 1753. Erect annual, 30-90 cm or more tall; branches grooved. Leaves variable, linear or linear-lanceolate, acute. Flowers white or pink in dense terminal lanceolate spikes 2-15 x 1-2 cm. Capsules ellipsoid, tapering at apex into the style. Fls. & Frts. : August to February. Vern. : Kurdu.

Herbarium: HSP-3522-A,B,C. Locality: Dalmodi.

Troublesome weed of wet and harvested fields.

6. Digera, Forsk.

1 D.muricata, (L.) Mart. Beitr. Amar. No.2:77. 1825. (D. arvensis Forsk.). Erect or procumbent herb. Stems striated, glabrous, 15-50 cm long. Leaves ovate 2.5-7 x 2-5 cm. Flowers greenish-pink in threeds, two outer flowers reduced to crested scales, arranged in spikes. Fls. & Frts. : June to February. Herbarium : HSP-3524-A,B,C. Locality : Dalmodi.

Common weed of wet fields.

7. Gomphrena Linn.

G.celsoioides Mart. Bietr. Amar. 93, 1885. (G. decumbens sensu Gamble.) Procumbent herb. Stem much-branched; branches prostrate or ascending, 15-30 cm long, clothed with white spreading, soft hairs. Leaves oblong-elliptic, sessile, narrowed at both the ennds. Flowers white, in elongating capituliform terminal spikes, 2-4 cm long. Fls. & Frts.: June to January.

Herbarium: HSP-3520-A,B,C. Locality: Khatav.

Introduced herb, naturalised on waste land along roads.

8. Pupalia, Juss.

1 P.lappacea (L.) Juss. In Ann. Mus. 2:132.1803. Large scandent shrub; branches terrate, tomentose, striate. Leaves broadly ovate-elliptic, 3-10 x 1.5-5 cm, acute. Flwers in clsoe or distant spinous clusters forming terminal spikes, rachis Utricles tomentose. membranous. Fls. å Frts.: July to December.

Herbarium: HSP-3519-A,B,C. Locality: Kartikswami Common in hilly forests in bushes.

CHENOPODIACEAE

1. Atriplex, Lina.

A.hortensis, L.Sp.Pl.1053, 1753. Annual herb. Stems smooth, glabrous. Radcial leaves narrow-oblong or ovate-oblong, with projecting lobes at base on either side; cauline leaves smaller, becoming labolate in the inforenscence. Fls. & Frts. October to February. Vern.: Chandanbatawa.

2. Chenopodium Linn.

- *1 C.album, L.Sp.Pi.219.1753. Erect herb, 3-45 cm tall. Leaves oblong-laceolate, less than 3 cm long, rhombic or deltoid, obtuse, entire, toothed or irregularly lobulate. Flowers green in clusters in forming complex, or lax paniculate often mealy spikes. Cultivated for vegetables.
- 2 C.murale L.Sp.P..212.1753. Erect herb, 30-45 cm tall. Leaves obtuse e or irregularly lobulate. Flours in lax paniculate .ntire Herbarium: HSP-6192-A,B,C. Locality: Dalmodi.
 - 3. Spinacea, Linn.
- *1 S.oleracea, L.Sp.Pl.1027.1753. Vern. : Palak.

BASELLACEAE

- 1. Basella, Linn.
- ***1 B.rubra**, L.Sp.Pl.272, 1753.

POLYGONACEAE

- 1. Antigonon, Endl.
- *1 A.leptopus Hook & Arn. Bot. Beech. Voy. 308. t. 69, 1841.

2. Polygonum, Linn.

P.glabrum, Willd. Sp.Pl.2:447,1779. Procumbent perrenial herb, 0.5-1m tall. Leaves lanceolate, 7-25 x 1-3 cm, finely acuminate, glabrous, closely gland dotted. Flowers pink or pale-pink in terminal racemes or panicles. Fls.§ Frts. : September to April.

Herbarium: HSP-4459-A,B,C. Locality: Palasgaon.

Common in marshes along streams.

- 3. Rumex, Linn.
- *1 R.vesicarius , L.Sp.Pl. 336, 1753. Vern. : Chuka.

PIPERACEAE

- 1. Piper, Linn.
- ***1** P.betle L. Sp.Pl.28, 1753. Vern. : Pan, Nagwel.

PROTEACEAE

- 1. Grevillea, R.Br.
- ***1 G.robusta**, A.Cunn, in R.Br. Suppl. Pr. 24, 1830.

THYMELEACEAE

- 1. Gnidia Linn.
- 1 G.glauca (Fresen.) Gilg, bot. Jahrb. Syst. 19:: 1894.

 (Lasiosiphon eriocephalus Grah.). A much branched shrub
 leaves subsessile and glabrous above, silky beneath, base acute.

 Flowers yellow, nearly sessile in erect dense terminal neads.

 Perianth densly silky, villous. Anthers almost sessile. Fls.

 December to May. Vern.: Rametha. Datpadi.

Herbarium: HSO-1412-A,B,C. Locality: Chandkhana.

LORANTHACEAE

1. Dendropthoe, Linn.

1 D.falcata (L.f) Etting. in Denkschr. Akad. Wiss. Math.

Naturw. Kl. 32:52, 53, 58, t. 13 f. 1872. (Loranthus longiflorus Desr.) Branched shrub, parasitic, glabrous, bark grey, smooth. Leaves, opposite, entire, coriaceous, very variable in shape and venation flowers in short spreading stout axillary racemes corolla orange or white or less commonly pink Bery oblong-ovoid, pink, smooth. Fls. & Frts.:

February to June. Vern.: Bandgul.

Herbarium: HSP-3008-A,B. Locality: Dalmodi.

2. Macrosolen, Wt. & Arn.

1 M.capitellatus (Wt. & Arn.) Dansor in Blumea 4:36, 1936.

(Loranthus capitellatus Wt.& Arn.) Branched, parasitic shrub.

Leaves opposite, elliptic, corolla straight. Fls. & : March to June.

Herbarium : HSP-2673-A,B,C. Locality : Visapur.

SANTALACEAE

1. Osyris, Linn.

O.quadrpartita Dalz. ex. Dence. in Ann. Sci. Nat. Ser. 2, 6:65. 1836. (Osyris arborea, Wall.) A large much branched glabrous shrub. Young branches sharply triangular. Leaves subsessile, coriaceous, numerous, glaucous, elliptic, oblong. Flowers minute, axillary, yellowish green. Perianth limb 3-looed. Drupe yellow, subglobose. Fls. :January to June. Herbarium: HSP-1406-A,B,C. Locality: Ramdongar.

Occasionaly found on the hills.

2. Santalum, Linn.

S.album, Linn. Sp.Pl. 349. 1753. Small evergreen glabrous tree with slender drooping branches. Leaves elliptic-lanceolate, glabrous and shining green above. Flowers brownish purple in terminal and axillary paniculate cymes. Fls. & Frts. : August to March Vern. : Chandan.

Herbarium: HSP-1407-A,B,C. Locality: Dalmodi.

Cultivated as well as wild on the bunds of cultivated fields.

EUPHORBIACEAE

1. Acalypha, Linn.

A.indica L.Sp.Pl. 1003, 1753. Erect annual 30-60 cm tall, pubescent. Leaves rhomboid-ovate, acute or obtuse, shortly acuminate, serrate. Flowers in axillary spikes, surrounded by bract. Ovary hispid. Capsules small, 1-seeded. Fls. & Frts.: June to November. Vern.: Khokali

Herbarium: HSP-1399-a,B,C.

Common weed of cultivated crops. Many species of Acalypha, are also planted in the gardens for ornamental purpose.

2. Bridelia Willd.

1 B.retusa (L.) Spreg. Syst. Veg. 3:48, 1826. Deciduous tree.

Leaves elliptic oblong, obtuse or rounded at apex, rounded at base; nerves prominent, straight. Flowers in axillary or terminal spikes, dioecious, greenish yellow. Fruit fleshy, with persistent enlarged calyx, purplish black. Fls. & Frts.:

March to August. Vern.: Kutgi.

Herbarium: HSP-2205-A,B,C. Locality: Jakhongaon.

A common tree of open forests.

3. Chrozophora, A.Juss.

1 C.rottleri (Geisel) A Juss. ex. Spreng. Syst. 3:850. 1826.

Plicata Vorgt.) Annual erect hoary herb 30-60 cm tall, stellately hairy. Leaves thick, ovate or orbicular, sometimes threelobed; wrinkled. Flowers in pedunculate densely stellately hairy racemes. Capsules hairy. Fls. & Frts. : December to June. Vern. : Surwanti.

Herbarium: HSP-1397-A,B. Locality: Satewadi.

Common weed in dried and cultivated fields.

2 C.tinctoria A.Juss. Tent. Euphorb. 28, t. 7.1824. An annual prostrate or subcreet herb, densely clothed with stellate tomentum. Stems branched. Leaves thick, softly tomentose on both the surfaces, ovate and sinuate toothed. Flowers in short racemes lengthening in fruit. Fls. & Frts. :December to June. Vern. : Orkhada.

Herbarium: HSP-1398-A,B. Locality: Satewadi.

Common weed of cultivated fields.

4. Croton, Linn.

1 C.bonplandianum Baill. in Adansonia 4: 339.1864. Erect woody herb, 30-90 cm tall; branches rough with stellate hairs. Leaves lanceolate, wavy and toothed, 2-4 x 1.5-2 cm. acute, 3-nerved. From the base. Flowers greenish-white, in terminal simple racemes. Capsules oblong, obtusely 3-gonous.Fls. & Frts.: More or less throughout the year.

Herbarium: HSP-2201-A,B,C. Locality: Dalmodi.

Common on waste land around villages.

5. Emblica, Gaertn.

B.officinalis, Gaertn. Fruct. 2: 122, 1791. (Phyllanthes emblica, L.) Tall tree with greenish grey or red bark, branchlets hairy, 6-20 cm long with close-set distichous, linear, glabrous margined leaves about 1 cm long. Flowers densly fascicled on the new shoots. Berries. 1-2.5 cm or more in diameter. Fleshy, globose, pale yellow. Fls. & Frts. :May to September. Vern. : Awla.

Herbarium: HSP-2208-A,B,C. Locality: Ramdongar.

Occasionaly found in the hill forests.

6. Euphorbia, Linn.

1 E.antiquorum, L.Sp.Pl.450, 1753. Much branched small tree with jointed branches and usually 3-more rarely 4-5 winged branchlets; the wings with short stipulatary spines. Leaves fleshy, obovate-oblong or spathulate. Flowers in pedunculate cyme. Female flowers at centre, sessile. Fls. :August to September.

Locality: Kartikswami.

Commonly grow on the slopes of hills.

2 E.fusiformis Buch-Ham in D.Don. Prodr. Fl.Nep.62.1825. (E. acaulis Roxb.) Succulent glabrous herb with stout clylindrical root stock. Leaves radical, long petiolate; spathulate, entire, narrow at the base, rounded at the apex, petiole stout continuous with midrib. Fls.: Not seen.

Herbarium : Locality : Chandakhana.

Very occasionaly found on the hills.

3 E.geniculata Ort. Nov. Rar. Pl.Hort. Matr. Decad. 18.1797.

An annual herb, leaves alternate in the lower portion, opposite in the upper part. Floral leaves narrower, green towards the apex , pale near the base. Fls. : October to March. Vern. : Dudhani.

Herbarium: HSP-2210-a,B,C. Locality: Khatav.

A native of Tropical America, occuring as weed in gardens.

- *4 E.heterophyla L.Sp.453. 1753.
- 5 E.heyneana Spreng. Syst. Veg. 3: 791. 1826. (E. mcrophylla Heyne). Nearly glabrous annual. Stems numerous, spreading from the root stock. Leaves opposite, often nearly as long as broad. Involucre solitary axillary, 1 mm long, broadly campanulate, glabrous. Fls. & Frts.: June to March.

Herbarium: HSP-2202-A,B,C. Locality: Vaduj.

Frequent on gravelly soil along roadsides among grasses.

6 E.hitra L.Sp.Pl.454. 1753. (E. pilulifera acut, nom.L.) Annual 15-40 cm tall, erect, hispid. Leaves opposite ovate, acute, serrate, dark green with reddish ting above. Involucres numerous, crowded in small axillary globose cymes. Fls. & Frts.: Throughout the year. Vern.: Dudhanali.

Herbarium: HSP-2203-A,B,C. Locality: Dalmodi.

Very common in the fields.

7 E.indica Lamk. Encycl. 2:243.1786. (E. parviflora (L.) Prain .)

Annual , 15-40 cm tall, erect or spreading, glabrous or partly

pubescent. Leaves opposite, elliptic oblong, often tinged with red. Involucres in axillary and terminal usually many flowered pedunculate cymes. Fls.: June to April.

Herbarium: HSP-2211-A,B,C. Locality: Dalmodi.

Common among the grasses.

- *8 E.milli Desmoul. in Bull. Hist.Nat.Soc. Linn.Bordeauz 1:27.1826
- *9 E.pulcherim Willd. ex.Klotzsch. in otto. Dietr. All Garten 2:27. 1834.
- 10 E.rosea Retz. Obs. 4: 26. 1786. A perennial, glabrous herb with long tap root. Stems numerous, prostrate, spreading. Leaves numerous, opposite, coriaceous, triangular. Involucres solitary or few, in small leafy axillary or terminal cymes. Fls.: August.

Herbarium: HSP-2211-A,B,C. Locality: Dalmodi.

*11 E.tirucalli L.Sp.Pl. 452.1753. Vern. : Sher.

7. Jatropa Linn.

J,curcas, L.Sp.Pl. 1006. 1753. Large shrub with watery juice, branches terete, glabrous. Leaves broadly ovate to reniform, entire more often 3-5 lobed, acute or acuminate. Flowers pale yellow. Capsules globose. Fls. & Frts. :October to June. Vern. Mogali erand.

Herbarium: HSP-2207-A,B. Locality: Dalmodi.

Common on the banks of rivers, streams and around villages.

8. Krignelia, Baill

*2 K.reticulata (Poir) Baill Etud. Gen. Euph. 513. 1858.

(Phyllanthes reticulatus Pair.) Largeglabrous straggling shrub,

Leaves oblong or elliptic, rarely obovate or orbicular. Flowers

dull white, axillary, Beries purple, 4 mm in diameter. Fls.

& Frts. : Throughout the year. Vern. : Kanguni.

Herbarium: HSP-2204-A,B. Locality: Dalmodi.

Frequent in hedges around the fields.

9. Pedilanthes, Poit.

*1 P.tithymaloides (L.) Poir. in Ann. Mus. Hist.Nat.Paris.
19:390. t. 19.1812.

10. Phyllanthus, Linn.

P.asparulatus Hutch. in Kew. Bull. 1920:27-28, 1920. Erect annual, 10-60 cm tall, branches quite glabrous. Leaves vary variable, subsessile, distichous, oval-oblong. Flowers axillary, the males 2-3 in lowest axils. Female Flowers solitary. Capsules smooth. Fls. & Frts. : July to November. Vern. : Bhuiawli.

Herbarium: HSP-2206-A,B,C. Locality: Ner Damp.

Common weed of wet localities.

2 P.niruri, Linn. Sp.Pl. 981. 1753. Annual herb, quite glabrous; stem often branched at the base, angular; Leaf bearing branchlets slender, spreading. Leaves numerous, subsessile, distichous. Flowers yellowish, very numerous, axillary. Fls.: July -August. Vern.: Bhuiawali.

Herbarium: HSP-4939-A,B. Locality: Pusegaon.

A common weed in gardens.

11. Putranjiva, Wall.

P.roxburghii, Wall. Tent. Fl.Nep.61, 1826. An evergreen tree with pendant branches, nearly glabrous, bark corky, pale. Leaves coriaceous, dark-green, shining, elliptic oblong, main nerves numerous. Flowers-dioecious.Drupe ellipsoid, rounded

or pointed at the apex very hard. Fls. & Frts. : March to June. Vern. : Putranjiva.

Herbarium: HSP-4940-A,B. Locality: Kartikswami

Only found at Kartikswami.

12. Ricinus, Linn.

*1 R.communis L.Sp.Pl. 2: 1007. 1753. Vern. : Eranda.

13. Securinega, Comm.ex.Juss.

1 S.virosa (Roxb. ex. Willd.) Pax & Hoffim in Engl. & Prantl.

Pflanzenfam. (ed.2) 19, C: 60, 1931. (Flueggea microcarpa

Blume) Unarmed shrub about 2 m tall, glabrous. Leaves
elliptic to obovate, obtuse or broadly and shortly acuminate.

Flowers greenish white in axillary clusters; the males
numerous Fruit globose, fleshy, white. Fls. & Frts.: August
to December. Vern.: Pandharphali.

Herbarium: HSP-4941-A,B. Locality: Diskal.

Common along the fields.

14. Synadenium, Hook.

*1 S.grantii Hook f. in Bot. Mag. t. 5633. 1867. Vern. : Wilayatisher, shend.

15. Tragia Linn.

T.cannabina L.f. Suppl. 415, 1781. Hirsute, Scandent herb about 90 cro to 1 meter tall.Stems much branched and with stinging hairs. Leaves palmately 3-partite, lobes toothed or pinnatifid. Flowers in axillary or terminal racemes. Capsules 3-lobed. Fls. & Frts.: September to January. Vern.: January. Herbarium: HSP-1400-A,B,C. Locality: Bombale.

Frequent admist bushed on bunds of fields and on waste $l_{\mbox{and}}$ along roadsides.

ULMACEAE

Holoptela Planchon.

H.integrifolia (Roxb.) Planch. in Ann. Sci. Nat. Bot.Ser.3, 10:266. 1848. Large tree. Leave elliptic, acuminate, entire, glabrous. Flowers in short fascicles, at the scars of fallen leaves. Fruit winged, orbicular with reticulate veins. Fls. & Frts.: January to May.

Herbarium: HSP-2684-A,B,C. Locality: Visapur.

Common in hill forests and along fields.

MORACEAE

1. Ficus, Linn.

1 F.amplissima J.E.Smith in Ress. Cyclp. 14:No.1.1810.(F. tisela Roxb.). Large spreading tree, all parts glabrous. Leaves coriaceous, broadly ovate or elliptic, shortly acuminate. Receptacles sessile, axillary, solitary, purplish brown when ripe. Fls. & Frts.: April to October. Vern.: Pimpri.

Herbarium : HSP-1641-A,B. Locality : Dalmodi.

Common along roadsides and fields.

2 F.arnottiana (Miq.) Miq. in Ann. Mus. Lugd. Bat. 3:287.1867. glabrous subcoriaceous, tree. Leaves broadly ovate, acuminate reddish brown w hen dried. Receptacles from the axils of fallen leaves, in pairs of clusters, sessile or shortly pedunculate purple brown, membranous. Fls. & February to April. Vern. : Pair.

Herbarium: HSP-1644-A. Locality: Chandakhana.

Rearely found on the rocky slopes of the hills.

F.benghalensis L.Sp.Pl.1059.1753. Large tree sending down many aerial roots from branches. Young parts softly pubescent. Leaves coriaceous, ovate or orbicular ovate to elliptic, entire. Receptacles sessile in pairs, axillary, globose. Fls. & Frts.: April to June. Vern.: Wad.

Herbarium: HSP-1642-A,B. Locality: Bombale.

4 F.hispida L.f. Suppl. 442, 1781, Hook. f. Indd.5:522, 1888. Shrub or small tree without aerial roots; all parts hispid pubescent. Leaves opposite, petiolate, oblong-laceolate, entire, serrate. Receptacles paired, pedunculate, globose, slightly depressed at apex. Fls. & Frts.: February to July. Vern. Kala Umbar.

Herbarium: HSP-2619-A,B. Locality: Mandave.

Common along banks of rivers, streams and around fields.

5 F.nervosa Heyne ex Roth. in Roem & Schult. Syst. Veg. 1:513.

1817. A large tree without aerial roots with Milky juice, trunk cylindric, bark smoth. Leaves thinly coriaceous, elliptic, oblong-lanceolate, 3-5 nerved, lateral main nerves 7-10 pairs.Receptacles pedunculate in pairs, axillary Fls. & Frts.:

January to September.

Herbarium : HSP-1643-A,B. Locality : Chandakhana.

6 F.racemosa L. Sp.Pl.1060.1753. (Ficus glomerata, Roxb.)
Everygreen tree, 10-15 meter tall. Young shoots puberulous.

Leaves ovate oblong or elliptic lanceolate, glabrous.

Receptacles shortly pedunculate on short leafless branches,

pyriform, 2-3 cm across, smooth or pubescent, orange red when ripe. Fls. & Frts. : February to June. Vern. : Umbar.

Herbarium: HSP-1653-A. Locality: Vaduj.

Common tree in fields, along streams and river banks.

7 F.religiosa L.Sp.Pl.1059, 153. Large glabrous tree. Leaves coriaceous, ovate, narrowed upward and the apex produces into tail, entire. Receptales in pairs, axillary, sessile, smooth, depressed globose. Fls. & Frts. : April to August. Vern.: Pimpal.

Herbarium:-HSP-1645-A. Locality: Hingane.

Planted commonly near temples, and rarely wild.

2. Morus, Linn.

*1 M.alba, L.Sp.Pl. 986. 1753. Vern. : Tuti.

CANNABINACEAE

*1 C.sativa L.Sp.Pl.1027.1753. Vern. : Ganja, Charas.

CASURINACEAE

- 1. Casuarina, Adans.
- *1 C.equisetifolia J.R. & G. Forst. Char. Gen. 104. t. 52. 1776.

 HYDROCHARITACEAE

1.Hydrilla, Rich.

*1 H.verticillata (L.f) Royle., Ill.Bot.Himal. t.376.1839.

2. Otlelia, Pers.

O.alismoides (L.) Pers. Syn.Sp.Pl.1:400.1805. Flaccid, fleshy, submerged aquatic herbs, roots fibrous. Leaves variable, oblong, orbicular, cordate, petiolate; petioles trigonous. Spathes 2.5-5 cm long with undulalate wings. sepals green. Petals white. Fls. More or less throughout the year.

Herbarium: HSP-2226. Locality: Mayani damp.

Common at mayani damp.

3. Vallisneria, Linn.

V.spiralis L.Sp.Pl.1015.1753. Submerged, stoloniferous, aquatic herbs, with radical, linear leaves, varying in length. Male flowers with didymous anthers; filaments thick; female flowers with three staminodes, each 2-fid. Scapes long, slender, spirally coiled. Fls.: November to April. Vern.: Saivala.

Horbachum : HSP-4942-A,B,C. Locality : Yoralwadi.

Common aquatic herb at Yeralwadi damp.

ORCHIDACEAE

1. Habenaria Willd.

H.grandifloriformis Blatt. & Mccann. in J.Bombay Nat. Hist.Soc. 36:17,1932. Terrestrial herbs with globose or ellipsoid tubers Leaves 1-2 ,opposite, using flat on the ground, coriaceous, broadly ovate. Flowers white, faintly perfumed, pedicillate on 5-20 cm long, erect, rigid terete scape. Fls.: July to September.

Herbarium: HSP-4465-A,B,C. Locality: Ambheri.

Ocassionaly found in open grasslands on hill tops.

2 H.marginata, Coleb. in Hook exot. Fl.t. 136. 1825. Terrestrial herb 8-25 cm tall; roots fibrous.Leaves.oblong-lanceolate or

ovate, sessile with yellow or white margins. Flowers greenish-yellow, sessile, numerous in cylindric spikes.Fls.: September to November.

Herbarium: HSP-4446-A,B,C. Locality: Ambheri.

Frequent on pasture land along stream, amongst grasses.

ZINGIBERACEAE

- 1. Curcuma Linn.
- *1 C.longa, L. Sp.Pl. 2, 1753. Vern. : Halad.
 - 2. Zingiber, Boehmer, nom. cons.
- *1 Z.officinale Rosc. in Trans. Linn. soc. 8:348, 1807. Vern.:

 Adrak, Sunth.

CANNACEAE

- 1. Canna, Linn.
- *1 C.indica L.Sp.Pl.1753.(C. orientalis. Vern.:Kardal.

MUSACEAE

1.Musa, Linn.

*1 M.paradisica L.Sp.Pl.1417, 1753. Vern.:Kela.

HAEMODORACEAE

1. Sarsevieria, Druce.

₹1 S.cylindrica Boj.Hort.Maurit.349.1837,

HYPOXIDACEAE

1.Curculigo, Gaertn.

C.orchiodes, Gaertn. Fruct. 1:63,t.13, 1788. Rootstock stout, short or elongate. Leaves sessile, linear, Plicate. Scape very short. Flowers yellow, distichous, the lowest in the raceme bisexual. Capsules 10-12 mm long. Fls. & Frts. :May to June. Herbarium : HSP-2622-A,B. Locality SSidheswhar- Kuroli.

Occasional in hill forests on slopes.

2. Hypoxis, Linn.

H.aurea Lour. Fl. Conchinch. 200.1790. Dioecious, rootstock globose. Leaves narrowly linear, subcoriaceous, acute keeled. Scapes 1-4, filiform, 1-flowerd. Perianth segments thinly hairy. Fls. : July.

Herbarium: HSP-1615-A,B. Locality: Kartikswami.

Very occasional in open grasslands and on hill tops.

AMARYLLIDACEAE

1.Crinum, Linn.

*1 C.asiaticum, L.Sp.Pl. 292.1753.

2. Pancratium, Linn.

P.triflorum Roxb. Fl. Ind. 2:126. 1832. Bulb globose, Leaves thin lanceolate, acute. Scape slender. Flowers fragrant, 3-8 in an umbel, spathe single, ovate, acute, pedicles very short Fls. May -June.

Herbaarium: HSP-2671. Locality: Ramdongar.

Common on the slopes of hills and bunds of fields.

AGACACEAE

1.Agave, Linn.

A.vera-cruz Mill. Gard. Dict. ed. 8, n.7. 1768. Stem shat hidden by thick leaf bases. Leaves 1-1.5 meter long, margins spinulose, apical spine 1-2 cm long. Scape tall. Flowers white in pairs. Capsules oblong, cylindric. Fls. & Frts. :January to May. Vern. : Ketakad.

Probably a native of Mexico, planted in hedges around fields and naturalised.

- **★ 2. A. Americana** Linn
 - 2. Furcraea, Vent.
- *1 F.foetida (L.) Haw. Syn. Pl.Succ. (F.gigantea Vent.)
 - 3. Polianthes, Linn.
- *1 P.tuberosa L.Sp.Pl.316, 1753. Vern. : Nishigandha.

DIOSCOREACEAE

- 1. Dioscorea, Linn.
- D.bulbifera L.Sp.Pl.1033, 1753. Stem twining, terete, glabrous, bulbiferous in the leaf axils. Leaves opposite and alternate, broder than long, broadly ovate. Male flowers green or purplish in short slender spikes. Female flowers sessile, in fascicled pendulous spikes. Fls.: August-September.

Herbarium: HSP-2613-A,B,C. Locality: Ramdongar.

Occasionaly in association with bushes in hill forests.

2 D.oppositifolia L.Sp.Pl.1033, 1753. A large climber, stem slender, branches terete, pubescent. Leaves coriaceous

opposite (rarely alternate) with 3-5 strong nerves. Male flowers in dense shortly pedunculate spikes. Female flowers in solitary or fasciculate axillary spikes. Fls.: September to October.

Herbarium : HSP-2213-A,B,C. Locality : Kartikswami.

Occasionaly found in bushes of hill forests.

3 D.pentaphylla L.Sp.Pl.1032.1753. Stom slender, twining, glabrous, prickly towards the base. Leaves alternate, 3-5 foliate, leaflets variable, sparsely pubescent beneath. Male flowers in axillary pendulous spikes. Fls.: August-September Vern.: Shendvel.

Herbarium : HSP-2214-A,B,C. Locality : Ramdongar.

Common on bushes in hill forests.

LILIACEAE

1. Allium ,Linn.

- ***1** A. cepa, L.Sp.Pl.300.1753. Vern.:Kanda.
- *2 A.sativum, L.Sp.Pl.296.1753. Vern.: Lasun.

2. Alove, Linn.

A.vera(L.) Burm. f. Fl. Ind. 83, 1768. Scapigerous herb with fibrous roots, Leavess ensiform, dense, aggregate, pale green, with distant horny prickles on the margins. Scapes 60-120 cm tall. Flowers yellow or orange red in racemes. Capsules cylindric or ellipsoid oblong. Fls. &Frts. :September to January Vern. : Korphad.

Herbarium: HSP-4557-A,B. Locality: Pusegaon.

Common on the bunds of fields.

3. Asparagus, Linn.

A.racemosus Willd. Baker in Journ. Linn.Soc. 14:624, 1874.

Scandent shrub, glabrous. Leaves linear-subulate with a stout cpmoca; spinous spur. 4-6 mm long, straight or sliightly curved. Flowers white, tragrant, in axillary racemes 2-5 cm long. Berries globose. Fls. & Frts. : June to November. Vern.: Shatawari.

Herbarium: HSP-4497-A. Locality: Kartikswami

Frequent in barren rocky grasslands and under shade of trees in hill forests.

4. Asphodelus, Linn.

A.tenuifolius Cav.in Ann. Cienc. Nat. 3:46, t. 27, f.2, 1801.

Glaucous scapigerous herb about 60 cm tall; root fibres stout, numerous. Leaves tubular, radical, 20-40 cm long. Flowers white in long, branched, racemes. Capsules globose, greenish brown.Fls. & Frts.: November to March.

Herbarium: HSP-3004-A,B,C. Locality: Hingane.

A common weed of wheat and Onion fields.

5. Chlorophytum , Ker-Gawl.

1 C.breviscapum, Dalz. in Kew J.Bot. 2:141.1850. Root-tibers with oblong tubers. Leaves 6-9, membranous, linear oblong, acuminate, flat with undulate margins, shing above. Flowers white, in usually simple racemes. Perianth lobes linear. Capsules depressed-globose. Fls. & Frts.: July to September.

Herbarium: HSP-4500-A,B,C. Locality: Kartikswami.

Commonly fouund in rocky wet soil in oper grasslands.

2 C.glaucum, Dalz. in Kew J.Bot. 2: 2421,1850. Root-fibres cylindric Leaves 6-8, membranous, 20-40 cm long, narrowly oblanceolate, acute, glabrous, glaucous.Scape erect, simple, 30-60cm long. Flowers white in simple dense racemes, bracts persistant. Capsules globose, 3-winged. Fls. & Frts.: July to September.

Herbarium: HSP-3003-A,B,C. Locality: Ramdongar.

Common on the slopes of the hills in bushes.

3 C.laxum, R.Br. Prodr. 277. 1810. Small herb, rook fibres usually with small oblong tubors. Loavos 10-15 cm long, grass-like usually spreading and recurved, linear, flat. Scape very slender. Flowers few greenish white, in lax ?— Capsules obcordate, 3-winged, the cells 1-4 seeded. Fls. & Frts. : July to August.

Herbarium : HSP-3002-A,B,C. Locality : Kartikswami.

Found in open grasslands in rockysoil.

C.tuberosum (Roxb) Baker Inj.Linn. Soc. London 15:332.1878.

Root fibres cylindric, with ellipsoid tubers. Leaves membranous, sessile, usually falcate, recurved, acuminate, scape terete. Flowers white in simple or shortly branched racemes. perianth segments broad, oblong-lanceolate. Capsules obovoid.

Fls. & Frts.: July to September.

Herbarium: HSP-3001-A,B,C. Locality: Kartikswami.

Commonly found on the hilly regions in open grasslands.

6. Dipcadi, Medic.

D.montanum (Dalz.) Baker in J.Linn. Soc. 11:398.1871.

Bulb tunicate, globose, Leaves narrowly linear, acute. Scape
15-30 cm long, subterete, smooth. Flowers white, pedicles
fillform. Perianth lobes elliptic oblong. Stamens attached at
the base of the perianth lobes. Capsul; es stalked, broder

than long Fls. & Frts. : July to September.

Herbarium : HSP-2664-A,B. Locality : Kartikswami.

on

Rarely found at perticular height/the hill slopes.

7. Gloriosa, Linn.

G.superba L.Sp.Pl.305. 1753. Glabrous branching herbaceous climber.Leaves sessile, opposite or in whorls of 3 each, ovate, acuminate, tip ending in a tendril like spiral, flowers yellow to orange red, large, showy, axillary, solitary. Capsules linear-oblong. Fls. & Frts. : August to November. Vern. : Khadyanag. Kallawi

Herbarium: HSP-2614-A,B. Locality: Jakhangaon. Frequent on the slopes of hills.

8. Iphigenia, Kunth.

1 I.indica (L.) A gray in Yunth, Enum. 4:213, 1843. Corm subglobose, narrowed into short neck, small herb 8-20 cm tall. Leaves sessile, linear, grass-like, base sheathing. flowers purple few or many in terminal ereck racemes or more often solitary. Capsules 3-grooved. Fls. & frts. : July to August. Vern. : Markallai.

Herbarium: HSP-4498-A,B,C. Locality: Kartikswami.

Common in open grasslands and on waste lands.

I.pallida Baker in J.Linn. Soc. 17:451. 1879. Small herb, 7-10 cm tall. Corm globose. Leaves usually 4, linear, the upper smaller. Flowers 1-4 white or tinged with purple, foliaceous. Capsules obovoid, seeds brown. Fls. & Frts.: June to August.

Herbarium : HSP-4499-A,B,C. Locality : Kartikswami.

Commonly found on oepn grasslands, hills & waste lands.

9. Scilla, Linn.

S.hyacinthina (Roth) Macbr. in contr. Herb. (n.s) 56:14, 1918.
S. indica Baker.) Bulb ovoid, Leaves all radical appearing with the flowers, oblong to lanceolate, dull green above often with dark purple or brown spots. Scapes long, naked, many flowerd. Fls. & Frts.: May to July. Vern.: Rankanda.

Herbarium: HSP-2617-A,B. Locality: Ramdongar.

Common on rocky grasslands & soil covered rocks.

10. Urginea Steinh.

Wight

U.congesta/A bullbous scapigerous herb, the bulbs are avoid, subglobose with fleshy scales. Leaves usually 3 per plant, dark green. Scape slender. purplish green, glabrous. Flowers in simply congested raceme in cluster. Perianth segments 6 arranged in two whorls. Fls. & Frts. : February to March. Herbarium : HSP-2667-A,B. Locality : Chandakhana.

It grows in rocky open grounds.

2 U.coromandeliana (Roxb) Hook)

A bubous sapigerous herb. The bulbvs are conical, ovoid, with white scales. Leaves erect or spreading on ground, linear lanceolate. Scape long, slender, greenish red in colour. Flowers in simple loose racemes, long, pedicilate. Perianth segments 6 in two whorls. Fls.: February to May.

Horbarium : HSP-2666-A,B, Locality : Ramdongar.

It grows in open rocky grounds, the blooming of flower is during night.

3 U.polyantha Blatt and McCann.Bom Nat. Hist.Soc.32:733-733

A bulbous, scapigerous, hysteranthus herb. Bulbs are ovoid with white scales. Leaves usually spreading on ground, scape slender greyish green in colour. Flowers in simple raceme, bracteate, pedicilate. Perianth 6 arranged in two whorls, one nerved. Fls. & Frts.: February to March.

Herbarium: CHSP-1627-A,B. Locality: Chandakhana.

It grtows in rocky open ground.

PONTEDERACEAE

1. Eichhorniea

#1 E.crassipes (Mart.) solms in DC. Mon.Phan 4:527.1883.

COMMELINACEAE

- 1. Amischophacelus Rolla Rao et Kammathy
- A.cuculata (Roth) Rolla et Kammathy in J.Linn.Soc. Bot. 59:306. 1966. (Cyanotis cuculata Roth.) Succulent herb with fibrous roots. Stems long creeping. Leaves near the base of

stem much longer than above, glabrous. Flowers blue or pink, sessile. Fls. & Frts. : August to November.

Herbarium: HSP-2624-A,B. Locality: Dalmodi.

2. Commelina, Linn.

C.attenuata Koen. ex. Vahl, Enum. 2:168.1806. Stems much branched. Leave linear, acute, sheaths ciliate. Spathes ovatelanceolate, acute or acuminate. Flowers small, blue. Fls. & Frts.: August to October.

Herbarium: HSP-4486-A,B,C. Locality: Dalmodi.

Very common around villages.

2 C.benghalensis L.Sp.Pl.41.1753. Diffuse herb, stems rooting at lower nodes and bearing scale leaves and white cleistogamous flowers. Leave ovate or oblong. Spathes 1-3 together. Capsules 4 mm long. Fls. & Frts. : August to November

Herbarium: HSP-4485-A,B,C. Locality: Khatav.

Common weced of wet fields.

3 C.diffusa Burm. f. Fl. Ind. 18. t. 7, f. 2. 1768. Diffuse glabrous herb. Stems 30-60 cm long; branches rooting at the nodes. Leaves sessile, lanceolate. Spathes 1-2 cm long, ovate, base often cordate with rounded lobes. Flowers blue. Fls. August to November.

Herbarium: HSP-4483-A,B,C. Locality: Bombale.

4 C.subulata Roth, Nov. Pl.Sp.23. 1821. Nearly glabrous; roots fibrous; stem erect, branched. Leaves linear, glabrous.

Peduncles often 2-3 together. Spathes falcate, acute, green. Flowers small, orange purple. Fls. & Frts. : August to November.

Herbarium: HSP-4484-A,B,C. Locality: Chandakhana.

Frequent on gravelly slopes of hills.

3. Cyanotis. Don.

1 C. cristata (L.) Don, Prodr. Fl. Nep. 46. 1825. Root fibres stender. Stems branched from the base, rather succulent; branches creeping and rooting below, glabrous. Leaves fleshy, sessile, ovate-oblong. Flowers blue in recurved cymes. Fls. & Frts.: August to October.

Herbarium: HSP-4933-A,B,C. Locality: Katarkhatav.

2 C.fasciculata (Heyne ex. Roth) Schult. f. in Roem. & Schult. Syst. 7: 1152, 1830. Erect annual, stems 8-15 cm tall, rooting at the lower nodes, glabrous. Leaves sessile, linear lanceolate 2-3 x 0.1-1 cm. Flowers axillary and terminal. Corolla pink Fls. : August to November.

Herbarium: HSP-2625-A,B. Locality: Dalmodi.

Common during rains on rocky soils, old walls.

3 C.tuberousa (Roxb.) J. & J. Schultes in Roem. & Schult. Syst. 7(2): 1153. 1830. Spreading herb with a fascicle of tuberous roots. Stems hairy, suberect or prostrate. Leaves densly hairy on the lower surface. Cymes terminal, subtended by a leaflike common bract. Petals purple blue. Fls. & Frts. : June to September.

Herbarium : HSP-4929. HSP-2616. Localities : Tadawale,
Kartikswami.

ARRCACKAR (PALMAE)

L. Cocoo, Libra.

•1 C.nucifera L.Sp.P1.1188, 1753. Vern. : Naral.

2. Phoenix Linn.

1 P.sylvestris (L.) Roxb.) Hort. Beng. 73, 1814. Dioecious tree, 2-10 m tall, trunk clothed with the persistent bases of the petioles. Leaves pinnatisect greyish green, 1-3 m long. Flowers creamy-white. Fruits 2-3 cm long, orange yellow. Fls. & Frts.: January to May. Vern.: Shindi.

Very common in low lying areas, along streams and river banks.

PANDANACEAE

1.Pandanus S. Parkinson.

P.fascicularis Lamk. Encucl. Method. 1: 372, 1785. Shrubby 1 (P. odoratissimus L.) about 5 meter tall. Stems supported by aerial roots. Leaves glaucous-green, coraceous, with marginal spines. Males flowers-spadix with numewrous subsessile cylindric spikes, enclosed in long creamy-white tragrant spathes. Fls. : August to September. Vern. Keoda.

Very occasionaly found along river banks.

TYPHACEAE

1. Typha, Linn.

T.angustata Bory et Chaub, Exp. Sci. Morce. Bot. 1:388, 1832.
Stout rhizomatous herb. Stem 1-2 m tall. ending in inflorescence. Leaves spongy. Female flowers in the lower

brownish spike 18-20 cm long, rachis then naked for 1-3 cm length and finally ending in male spike. Fls.: August to December Vern.: Pankanis.

Herbarium: HSP-2620-A,B. Locality: Katarkhatav.

Common in marshes along streams, river banks.

ARACEAE

1. Alocassia, Neck.

Few species of Alocassia are cultivated for ornamental purposes.

2. Caladium, Vent.

- *1 C.bicolor (W.Ait.) Vent. Descr. Pl.Nouv. t. 30, 1801.(Arum bicolor Wt.Ait.)
 - 3. Colocassia, Schott.
- *1 C.esculanta (L.) Schott, in Schott & Endl. Melet. 1:18, 1832.

 (C. antiquorum Schott.) Vern. Alu.
 - 4. Scindapsus, Schott.
- *1 S.aureus (Lindl. ex Andre) Engl. in engl. Pflanzenrich, Arc. Monster. 80, 1908. (Potaos aureus Lindl.)
 - 5. Sauromatum, Schott.
- S.pedatum (Willd) Schott in Schott & Endl. Melet. Bot.17.1832
 (S. guttalum (Wall). Schott). Herbs with underground tubers,
 roots fibrous, leaves solitary, pedatisect, 15-30 broad.
 Segments 7-10 x 3-18 cm, petioles stout, green, spotted.
 Herbarium: HSP-1632-A,B. Locality: Ramdongar.

Commonly found on hill slopes.

ERIOCAULACEAE

1. Eriocaulon, Linn.

E.dianae Fyson in J. Ind. Bot. 2:259. tt. 11-15. 1921. Slender herbs, with small stems. Leaves forming rosette, linear, glabrous. scape 8-10 cm long. Flowers in hemispherical heads, 0.4-0.6 cm across. Fls. : August to October.

Herbarium: HSP-1631-A,B. Locality: Chandakhana.

Frequent in marshy places of open grasslands.

CYPERACEAE

1. Cyperus, Lina

1 C.alopecuroides Roth. Descr. Pl.Rar. Programme.20 1772. Large glabrous perennial herb. Stems about 1 mater tall. Leaves many as long as the stem. Fls.: September to November.

Herbarium: HSP-3356-A,B,C. Locality: Vaduj.

Ocassional in marshes along margins of ponds.

2 C.nutans Vahl. Var. eleusinoides (Kunth). Haines, Bot. Bihar. and Orissa 898. 1924. C. eleusinoides Kunth.) Perennial herb. Rhizome tuberous, creeping Stems upto 1 meter tall, stout, trigonous. Leaves as long as stem. Umbels very long with paniculate spikes. Fls. :September -October.

Herbarium : HSP-3357-A,B,C. Locality : Ambawade

3 C.compressus L.SP.Pl.40. 1753. Erect annual herb. Stems tufted, 10-40 cm tall, long, stender, trigonous. Flowers in umbel with few sessile rays. Fls. August to October.

Herbarium: HSP-3365-A,B,C.. Locality: Yeralwadi.

4 C.pulcherimus Willd. in kuth.Enum. 2, 1837. Rhizome shoot creeping. Stem 30-45 cm tall. Leaves as long as stem. Umbet compound.

Herbarium: HSP-3368-A,B,C. Locality: Pusegaon.

5 C.rotundus L.SP.Pl.45, 1753. Erect perennial herb. Rhizome tuberiferous stems upto 60 cm tall. Leaves shorter than leaves. Flowers in condensed umbellate spikes. Fls.:September April.

Herbarium: HSP-3351-A,B,C. Locality: Dalmodi.

6 C.manguinolonton Vahl, Enum. 2. 351. 1806. Rhizomo crooping, stems 10-30 cm tall. Leaves 4 or 0. Umbels small, simple. Herbarium: HSP-3358-A,B. Locality: Wardhangad.

2. Eleocharis, R.Br.

1 E.artopurpurea (Tetz.) K.B.Presel, Rel. Haek. 1:196,1828.

Annual herb. Stems upto 10 cm tall. Leeaves reduced spikelets solitary, terminalovoid, dark brown. Fls. :August to November.

Herbarium: HSP-3352. Locality: Yeralwadi.

Common weed in marshy places.

3. Fimbristylis Vahl. (nom.cons.)

1 F.complanata (Retz.) Link.Hort.Enum.Pl.2:229.1837. Glabrous herb, roots wiry. Stams 20-50 cm tall, grooved. Leaves crowded at the base. Umbles decompound.

Herbarium: HSP-3361-A,B. Locality: Lalgun.



- 2 F.ferruginea (Linn.) Vahl, Enum. Pl. 2:291,1806. Perennial herb. Stems tufted 20-40 cm tall. Leaves without prominant lamina, coriaceous. Spikelets in simple or decompound umbles. Horbarium: HSP:3363-A,B. Locality: Ramdongar.
- 3 F.ovata (Burm.f.) Kern-in Blumea 15:126. 1967.(F. monostachyos (L.) Hassk.) Densely tufted and leafy. Leaves crowded on the swollen base of the stem. Spikelets solitary (rarely z.)

Herbarium: HSP-3362-A,B. Locality: Chandakhana.

- 4 F.sphathacea Roth.Nov.Pl.Sp.24, 1821. Rhizome Stout woody.

 Leaves many densely crowded on the root stock. Umbel simple
- 5 F.woodrowii C.B. Clarke in Kew. Bull.Misc. Inform.227,1898.

 Stender annual herb. Stem 5-10 cm tall. 5-angled. Panicles subcompound.

Herbarium: HSP-3360-A,B. Locality: Palasgaon.

4 Fuirena , Rottboell.

1 F.cillians (Linn.) Roxb. Fl. Ind.1:184.1820.(F. glomerata auct.) Erect annual herb. stem 10-30 cm tall. Leaves pubescent.Scapes axillary.

Herbarium: HSP-3367-A,B. Locality: Mayani.

An abundant weed of drying rice fields.

5. Kyllinga Rottboell(nom. Cons.)

1 K.brevifolia Rottb. Descr. et. Ic. Pl.13.t. 4.f.1753. Perennial herb. Stems slender upto 30 cm tall. Leaves shorter than stems. Inflorescence ovoid conical head. Fls. August to September/ Herbarium : HSP-3354-A,B. Locality : Diskal.

Common weed in moist places.

2 K.triceps Rottb. Descr. et. Icon. 14, t. 4. f. 6.1773. Rhizome very short. Leaves shorter than stem. Spikes 3 together. Fls.: August -September.

Herbarium: HSP-335-A,B. Locality: Khatav.

6. Marscus Vahl.(nom.cons.)

1 M.squarosus (Linn.) C.B.Clarke in Hooke f.Fl.Brit. Ind.6:623

(Cyperus aristatus) Rottb.). A small glabrous annual 5-15 cm tall. Stem tuffted trigonous. Leaves usually shorter than leaves. Umbel with 2-5 rays. Fls.: September.

Herbarium: HSP-3365-A,B,C. Locality: Ner-damp.

7. Pyreus Beauv.

P.globosus (All) Reich Fl.Germ. Excurs. 140.1830. Cyperus globosus All.) A glabrous herb, root fibrous. Stems 10-40 cm tall. Leaves shorter than the heads. Fls. September to November.

Herbarium: HSP-3364-A,B,C. Locality: Kartikswami.

P.pumilus (L.) Nees in Linnaea 9:283.1834. (Cyperus pumilus Linn.) Annual, 2-20 cm tall. Leaves shorter than stem. Flowers in umbellate spikes, the rays of umbles 1-6.Fls. September.

Herbarium: HSP-3353-A,B,C. Locality: Khatgun.

POACEAE (GRAMINAE)

1. Andropogon Linn.

A. pumilus, Roxb. Fl. Ind. 1: 227.1820. Deccumbent grass,
 15-45 cm long. Leaves 4-10 cm long. Racemes 1-2 cm long in nearly equal pairs.

Herbarium: HSP-4876-A,B,C. Locality: Dalmodi.

2. APluda Linn.

Apludo mutica L. Sp.Pi.82. 1753. Annual monsoong grass clums erect. Leaves far apart on the stem. Panictes compound Herbarium: HSP-4979-A,B,C. Locality: Mayani.

3. Aristida, Linn.

A.adacontatonta 4.5p P1.82. 1753. Annual horba, glums toroto
20-30 cm tall. Leaves sheaths compressed. Panicles contracted,
8-30 cm long.

Herbarium: HSP-4877-A,B,C. Locality: Budh.

2 A.funiculata Trin.& Rupr. Sp. Gram. Stip. 159. 1842. Annual herb clums geniculately ascending from the base. Leaves tinged with purple. Panicles lax.

Herbarium: HSP-4378-A,B,C. Locality: Wardhangad.

3 A.reducta Stapf. in Kew Bull. 1892. Clums terete 20-90 cm tall, erect. Leaves sheaths compressed. Panicles diffuse. Spikelets purple.

Herbarium: HSP-4879-A,B,C. Locality: Ramdongar.

4. Arthraxon, P.Beauv.

1 A.lanceolals (Roxb) Hochst. in flora 30 : 188. Rhizomatous perennial herb. Clums slneder. Leaves with cilite margin.

Racemes 2-5 together.

Herbarium: H5P-4880-A,B,C. Locality: Gursale.

2 A.hispidus (Thunb.) Mankino in Bot. Mag. Tokyo 26:214.1942.

Herbarium: HSP-4885-A,B. Locality: Vaduj.

5. Arundinella, Raddi.

1 A.spicata Dalz. in Dalz & Gibs. Bombay Fl. 293.1862. Stem with swollen nodes, Leaves long. Panicles pyramidal.

Herbarium: HSP- 4881-A,B,C. Locality: Ramdongar.

2 A.tuberculata Munro ex Lisboa in J.Bom. Nat. Hist. Soc. 5:344.

1891. Erect annual, 30-45 cm tall. Leaves linear lanceolate.

Panicles 6-15 cm long.

Herbarian: HSP-4882-A,B,C. Locality: Khatav.

6. Bambusa Schreb.

- 1 B.arundinacea (Retz.) Roxb. Pl. Cor.t. 179 ,1976. Root stock stout, stems tufled thoryny. Leaves with stiff. tip. Vern. Kalak. Herbarium: HSP-4883-A,B,C.
- *2 B.vulgaris Schrad. ex. Wandel, collect 2: 26, t. 47. 1870.

 Vern.: Bamboo.

7. Brachiaria, Griseb.

3 B. eruciformis (J.E.Sm.) Griseb in Ledeb. Fl. Ross. 4: 469
1853. Annual herbs. Clums terete, 20-60 cm tall. Racemes
narrow, 2-9, spikelets soli tary. Vern. : Shimpi.

Herbarium: H3P-4884-A,B,C. Locality: Jakhangaon.

8. Chloris, SW.

1 C. varigata Sw. Fl. Ind. Occ. 1: 203. 1797. Annual herbs, clums terete, 25-50 cm tall. Leaves glabrous, spikes 6-11, digitate.

Horbarium : H5P-4886-A,B,C. Locality : Pusagaon.

9. Chrysopogon, Trin.

1 C.fulvus (Spreng.) Choiv. Fl. Somala 1: 327.1929. Variable grass in the vegetative parts and in size of the spikelets and anthers.

Herbarium: HSP-4887-A,B,C. Locality: Lalgun.

10. Cymbopogon, Spreng.

1 C.martinii (Roxb.) Wats. in Atkins Gaz. N.W.Prov. Ind.392.

1882. Erect perennial. Leaves linear. Racemes unequal rachis densely hairy.

Herbarium: HSP-4888-A,B,C. Locality: Diskal.

11. Cynodon, Rich.

1 C.dactylon (L.) Pers. Syn. Pl. 1:85. 1305. Dlrnfrt, creeping,
Prostrate grass forming matted tufts. Spikes 2-6, Vern. : Harali,
Durva.

Herbarium: 4389-A,B,C. Locality: Dalmodi.

12. Dactyloctenium, Willd.

1 D.aegypticum (L.) P.Beauv. Ess. Agrost. 15. 1812. Annual grass. Stem erect, rooting from the branched nodes. Spikes terminal.

Herbarium: HSP-4890-A,B,C. Locality: Bombale

13. Dichanthium, Willemet.

- 1 D.annulatum, (Forssk) Stapf in Prain, Fl. Trop. Africa,
 178. 1917. Perennial, stems dersely tufled. Leaves linear,
 glabrous. Racemes fascicled. Vern.: Khatav.
- 2 D.glabru, (Roxb.) Jain et. Deshpande in Bull. Bot. Surv. Ind. 20:1341979. An annual herb, 20-50 cm tall. panicles loosely

arranged.

Herbarium: HSP-4892-A,B,C. Locality: Nidhal.

3 D.hugelii (Hack) Jain et. Deshpande in Bull. Bot. Surv. India.
20: 135. 1978 (1979).

Herbarium: HSP-4893-A,B,C. Locality: Kartikswami.

4 D.odoratum, (Lisboa) Jain & Deshpande in Bull. Bot. Surv. India 20: 134. 1978 (1979).

Herbarium: HSP-4894-A,B,C. Locality: Vaduj.

5 D.pertusum (L.) Clayton in Kew Bull. 32:4.1977. Erect or ascending grass. Nodes slightly bearded. Spikes 3-5 purple.

Herbarium: HSP-4895-A,B,C. Locality: Kuroli.

14. Digitaria Halter.

D.cilliaris (Retz.) Koel. Descr. Gram. 27. 1802. (E. marginata Link.). Erect or spreading annual grass. 30-100 cm tall. Leaves linear spikes 2 or many.

Herbarium: HSP-4896-A,B,C. Locality: Visapur.

15. Dimeria R.Br.

1 D.ornithopoda Γrin. Fund. Agrost. 167, t. 14. 1820.Annual grass. Leaves linear. Spikelets 2.5-3 cm long. Vern. : Kapkurdi. Herbarium : HSP-4397-A,B,C. Locality Kartikswami.

16. Echinochloa, P.Beauv.

1 E.colonum (L.) Link, Hort. Berol-2:209. 1833. Annual grass.

Stems 30-90 cm tall. Leaves narrowly lanceolate, Spikes upto 20 distant.

Herbarium: HSP-4898-A,B,C. Locality: Yeralwadi.

17. Eragrostiella, Bor.

1 E.bifaria (Vahl.) Bor-in Indian For. 66. 270. 1940. Perennial herbs. Clums stufted, 30-60 cm tall. Leaves blades rolled, upto 6.5 cm long. Spike 10-30 cm.

Herbarium: HSP-4899-A,B,C. Locality: Palasgaon.

18. Eragrostis Wolf.

1 **B.minor** Host. Gram. Austr. 4:15. 1809. Tufted annual. Leaves linear. Panicles oblong. Spikelets 12 flowered. Vern. : Chimanchara

Herbarium: HSP-4900-A,B,C. Locality: Dalmodi.

2 B.nutans (Retz.) News ex Styeud. Non. Bot. ed. 2:563, 1840,
Perconnial grass. Stem densly tufted. Leaves very narrow.
Panicles long.

Herbarium: HSP-4951-A,B,C. Locality: Vajuj.

3 E.tenuifolia Hochest, ex. steud. Syn. Pi. Glum. 1:268. 1854.

Perennial herbs. Nodes glabrous. Panicles lax, 4-12 x 3-5 cm.

branches slender.

Herbarium: HSP-4952. Locality: Gopuj.

4 E.viscosa (Retz.) Trin.in Mem.Acad.Sci.Petersb. Ser.6, 1:397.

1830; Annual herbs. 20-30 cm tall. Leaves glabrous, viscous.

Panicles oblong or pyramidal.

Herbarium: HSP-4953-A,B,C. Locality: Umbarde.

19. Eremopogon, (Hack) Stapf.

1 E.foveolatus (Del.) Stapf in Prain, Fl. Trop. Africa 9:183.

1917. Perennial herbs. Leaves glabrous, basal sheaths bladeless and silky villous. Raceme solitary.

Herbarium: HSP-4954-A,B,C. Locality: Pusesawali

20. Hackelochloa, O.Ktze.

1 H.granularis (L.) O. Ktze. Rev. Gen. Pl. 2:776. 1891. Annual herbs, leaf sheaths compressed. Raceme solitary on short or long, glabrous peduncles.

Herbarium: HSP-4955-A,B,C. Locality: Ambawade

21. Heteropogon Pers.

1 H.contortus (L.) P. Beav. ex. Roem. et. Schutt. Syst. Veg.
2: 836. 1817. Perennial grass. Stems tufted, 30-150 cm long.
Racemes 3-8 long vern. : Kusal.

Herbarium: HSP-4956-A,B,C. Locality: Dalmodi.

2 H.triticeus (R.Br.) Stept ex. (raib. in Kew Bull. 1912. Stout annual. Leaves Minear, flat, bluntly acuminate. Racemes hispid.

Vern.: Bhale Kusal.

Herbarium: HSP- 4957-A,B,C. Locality: Chandkhana.

22. Isachne, R.Br.

1 I.lisboae Hook. f.Fl.Brit. India 7: 22. 1896. Perennial herbs. Leaves sheaths subterete. Panicles 2-5 cm long.

Herbarium: HSP-4958-A,B,C.

23. Ischaemum, Linn.

1 I.pilosum (Klein ex. Willd.) Wt. in Madras Lit.Sci.J.138.1835.
Rhizomatus annual. Leaves linear, glibrous. Racemes 2-6,
fascicled. Vern.: Kunda.

Herbarium: HSP-4959-A,B,C.

24. Jansnela, Bor.

1 J.griffithiana (C.Muell.) Bor. in Kew Bull.1955. Erect annual with weak stem. Leaves ovate alnceolate. Inflorescence compact

panicles.

Herbarium: HSP-4960-A,B,C. Locality: Chandkhana.

25.Lophopogon, Hack.

L.tridentatus, (Roxb.) Hack. in Engl.et. Prantl. Natural.

Pflanzenf. 2, 2: 26, 1887. Perennial herbs. Leaves. Sheaths glabrous, hyaline.Racemes two closely appressed with each other.

Herbarium: HSP-4961-A,B,C. Locality: Khatav.

26. Melanosanchris, Ness.

M.jacquemontii Jaub. & Spach. 111. Pl. or 4:36, 1851. Tufted annual grass with convolute blades, not aggreegated at the bas. Panicle of spikelets in paced clusters.

Herbarium : HSP-4962-A,B. Locality : Mayani.

27. Oropetium, Trin.

O.orxburghianum, (Steud) S.M. Phipls. in Kew Bull. 30:467.

1975. Perennial herbs. Culms tufted, nodes glabrous. Spikes
4-10 cm long, straight or curved.

Herbarium: HSP-4963-A,B,C. Locality: Ramdongar.

28. Ophiuros Gaertn, f.

O.exaltatus (L.) O.Ktze. Rev. Gen. P. 2:780.1891. (O. corymbosus Gaertn.) Perennial herbs. Clums terete, 60-180 cm tall. Leaves glabrous, hyaline. Spikes 3-6 fasciculate.

Herbrium: HSP-4964- Locality: Palasgaon.

29.Oryza, Linn.

*1 O.sativa L.Sp.Pl. 333. 1753; Vern. : Bhat, Tandul.

30. Panicum, Linn.

P.psilopodium Trin.Gram.Panic. 217. 1826. Annual grass. Stems
1-2 meter tall. Leaves lanceolate. Panicles spreading with

capillary branches.

Herbarium: HSP-4965-A,B. Locality: Ramdongar.

P.trypheron Schult. Syst. Veg. 2, Mant. 244. 1824. Annual.
Leaf margins ciliate. Panicles 5-30 cm longg, lax.

Herbarium : HSP-4966-A,B. Locality : Ambheri.

31. Paspalidium Stapt.

P.punctatum (Burm) A.Camus in Lectome, Fl. Gen. de 1, Indachine 7: 419. 1922. Annual grass. stem 1-2 meter long. Leaves linear lanceolate. Spikes erect.

Herbarium: HSP-4967-A,B. Locality: Dalmodi.

32. Pennisetum, Rich.

- 1 P.glaucum (L.) R.Br. Prod. 1: 195. 1810. (P. typhoides Burm)

 Vern.: Bajari.
- P.hohenackeri Hochst. es Steud. Syn. Pl.Glum. 1:103.
 Herbarium: HSP-4978-A,B. Locality: Palasgaon.

33. Saccharum, Linn.

- 1 S.officinarum L.Sp.Pl.54. 1753. Vern.: US.
- 2 S.spontaneom L.Mant.Alt.183.17/1.Vern.:Bagberi. Erect pernnial.

 Stems upto 6 meter tall. Leaf sheaths longer than internodes.

 panicle 15-60 cm long conical.

Herbarium: HSP-4968-A,B,C. Locality: Yeralwadi.

34. Sehima, Forssk.

S.nervosum (Rottb) Stapf. in Prain, Fl. Trop.Africa. 9:36,1917.
Perennial herbs Clums 50-80 cm tall.Leaves 4-11 cm long,
glabrous. Racemes terminal Vern.: Punwat.
Herbarium: HSP-4969-A,B. Locality: Nerdamp.

2 S.sulcatum (Hack.) A.Camus in Bull. Mus. Hist.Nat.Paris 27:373

1921. Perennial herbs. Culms tufted, 5-120 cm tall. Leaves
blades flat. Racemes terminal, 4-9 cm long Vern.: Sheda.

Herbarium: HSP-4971-A,B,C.

35 Setaria, P.Beauv.

- 1 S.intermedia (Roth.) Roem and schult. syst. Veg. 2:489. 1817.

 Annual herbs. 15-60 cm tall. Leaves densely hispid. Margins ciliate. Panicles narrowly oblong.
 - Herbarium: HSP-4970-A,B. Locality: Katarkhatav.
- *2 S.italica (L.) P.Beauv. Ess. Agrost. 51: 170, 178, 1812. Vern.: Rala, Kang.
- 3 S.Pumila (Poir) Roem. and Schult. syst. Veg. 891.1817.S.pallide
 Fusca. Stapf) Annual herbs. Culms terete, 20-70 cm tall. Leaf
 Sheath Keeled. Panictes cylindric.
 - Herbarium: HSP-4972-A,B.
- 4 S. verticillata (L.) P.Beaur. Essai Agrost. 51. 178.1812. Annual herbs. Culms channelled. 30-120 cm tall. Leaves sheaths compressed sparsely pilose. Panicles oblong.
 - Herbarium: HSP-4973-A,B. Locality: Gursale.
- ***5 S.viridis** (L.) P.Beauv. Ess. Agrost 51:177-178.1812. Vern.: Rala.

36. Sorghum Moench

- *1 S.bicolor (L.) Moench. Meth. Bot. 207.1794. (Holcus bicolor Linn.)
- *2 S.crenum Host. Var.Yemense (Koen) Snowden in Kew Bull.1935.

 Vern.: Piwali.

- *3 S.dochna (Forssk) Snowden in Kew Bull.1935. Vern.: Dagadi.
- *4 S.durra (Forssk) Stepf. Var. <u>fecudum</u> Snowden in Kew Bull.1935.

 Vern.: Maldandi.
- 5 S.halepense (L.) Pers. Syn. Pl. 1: 101. 1805. Annual herbs.

 Clums 1-2 meter tall. Leaves hyaline, ciliate. Panicles more
 or less loose. Vern.: Boru.

Herbarium : HSP-4974- Locality : Randongar.

*6 S.miliforme (Hack.) Snowden in J.Linn. Soc.(Bot.) 55:207.1955.

Vern. shalu.

Many hybrd varieties of sorghum are also cultivated as food grain.

37. Sporobolus R.Br.

1 S.cormondelianus (Retz.) Kunth. Rev. Gram. 1:68. 1829. Annual herbs. (ulms tufted, terete. Panicles effuse, rachis glabrous. Herbarium: HSP-4975-A,B. Locality: Ramdongar.

38. Themeda, Forssk.

1 T.tremula (Nees ex Steud.) Hack. in DC. Monogr. Phan. 6:667.

1889. Annual grass. Stems erect, stout. Leaves 10-15 cm long.

Panicles 30-60 cm long. Vern.: Bhatandi.

Herbarium: SHP-4976-A,B. Locality: Tadwale.

39. Tragus (Hall) Scop.

1 T.roxburghii Panigrahi in Kew Bull. 29: 496. 1974. Annual herbs
7-25 cm tall. Leaves sheaths membranous. Raceme solitary
terminal.

Herbarium: HSP-4977-A,B,C. Locality: Hingane.

40. Triticum, Linn.

- *1 T.aestivum L.Sp.Pl. 85, 1753. Vern. : Gahu.
- *2 T.dicoccum Schubler, Char. et. Descr. Cerealium in Hort. tubing 29. 1818. Vern. :Khapala.

41. Urochloa P.Boauv.

1 U.pantcoldes P.Beauv. Essal Aquest. 53. t. 11.f. 1. 1832.

Annual herbs. Culms terete, grooved, 30-60 cm tall. Leaves

Seath compressed; subcordate. Racemes 4-10. subsessile.

Herbarium: HSP-4978.

42. Zea, Linn.

*1 Zea mays L.Sp.Pl.1753. Vern. : Maka.

ABBREVIATIONS

Ca : About

Cm: Centimeter

Fls. : Flowering

Fris.: Fruiting

m Meter

mm : Milimeter

Vern : Vernacular or Local name.

Herbarium : Herbarium number.