ICONES ROXBURGHIANAE OR

DRAWINGS OF INDIAN PLANTS

FASC. II



BOTANICAL SURVEY OF INDIA

CALCUTTA

1968

(Date of Publication 31st. August 1968)

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FASC. 11



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FOREWORD

In the publication programmes of the Botanical Survey of India, the reprinting of William Roxburgh's ICONES assumed a degree of priority and importance. The first fascicle, with 24 colour plates in photo off-set printing came out on the 6th July, 1967, only after a considerably long and protracted period of over four years having had to be spent in attending to various formalities as well as to the actual process of printing the fascicle. The present fascicle, which forms the second in the series, is now presented to the public in a much less lapse of time since the issue of its predecessor. As in the previous fascicle, the present one has also 24 selected colour plates reproduced in photo off-set process, and it is envisaged that five such fascicles would go to form one volume of ICONES ROXBURGHIANAE to consist of illustrations of plants, the authorship of which are ascribed to William Roxburgh. It is hoped that future issues of these ICONES will follow in fairly quicker succession.

I cannot but adequately express my high appreciation for the unfailing help Mr. K. S. Srinivasan, Deputy Director, Botanical Survey of India rendered in seeing through this publication in all its phases and for his enthusiasm and energy in matters of scientific interest. The officers of the Publication Section of Botanical Survey of India, deserve special praise for their continued energetic and enthusiastic work in bringing out this publication, and for their great care and patience in seeing through the proofs and other technicalities attached to the printing of these plates. Messrs Sree Saraswaty Press Ltd., Calcutta, deserve all praise for the efficient and expeditious publication of this fascicle.

It is hoped, that the series will be well received, and the present efforts of the Botanical Survey will go a long way in fulfilling one of the long-felt needs of the scientific public.

Calcutta 15.7.1968 K. Subramanyam
Director
Botanical Survey of India

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1. HIBISCUS CANCELLATUS Roxb.

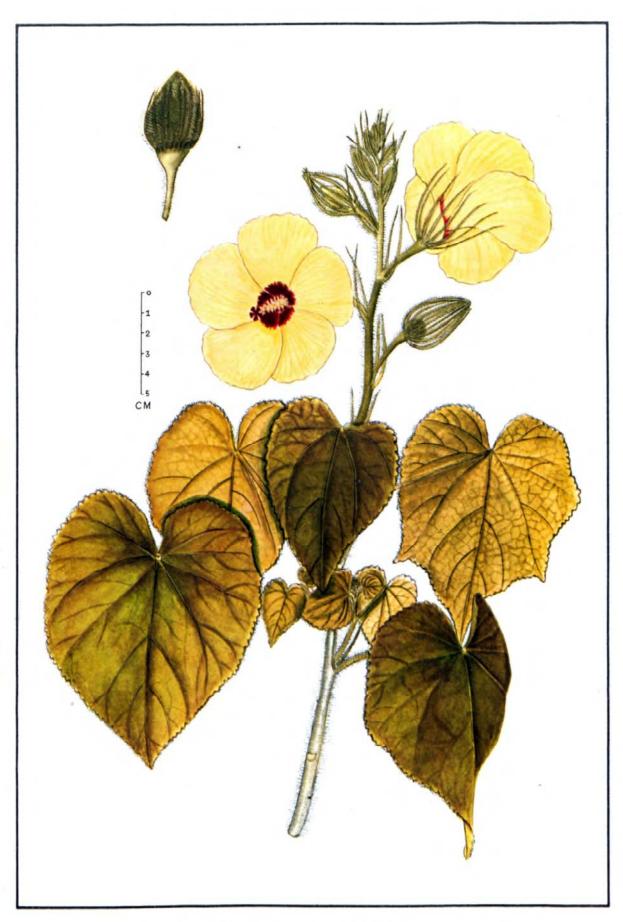
Annual, erect, every part hairy and bristly; leaves cordate, more or less angled, crenate. Stipules subulate. Racemes terminate. Exterior calyx of about fifteen long incurved filiform leaflets; inner spathiform; capsule ovate.

From Nepal Dr. Buchanan sent the seed to the Botanic Garden, where the plants blossom during the rainy season.

Root annual. Stem straight, with but few sub-erect, round branches, clothed with much long hair intermixed with stiff sharp bristles; height of our plants about three feet. Leaves petioled, cordate, generally more or less angular, crenate, very hairy; from four to six inches long, and from three to five broad. Petioles horizontal, nearly as long as the leaves, round, and like every other part of the plant, very hairy. Stipules subulate, very long and very hairy. Flowers numerous, peduncled, drooping, solitary in the superior axils, and on a pretty long straight, terminal raceme, large, campanulate, of a lively yellow, with the bottom of the bell crimson. Bracts like the stipules. Calyx; the exterior one as it were inflated, and composed of from ten to eighteen or twenty long, filiform, incurved, hairy permanent leaflets; the inner one spathiform. Capsule ovate, length of the exterior calyx, five furlowed, very hairy, five-celled, five-valved. Seeds numerous, reniform, black.

H. cucullatus, Suppl. 311. Cavanilles and Willdenow consider this a species of Pavonia viz. P. cancellata. see Willd. ed. sl. 583.

(W. Roxburgh, Flora Indica 3: 201, 1832)



HIBISCUS CANCELLATUS Roxb.

2. HIBISCUS COLLINUS Roxb.

Arboreous. Leaves cordate, three-lobed, repand, smooth. Exterior calyx of from eight to ten lanceolate, waved, permanent leaflets. Capsules oblate, very hairy, and lined with pungent bristles.

Teling. Kanda-gang.

A native of the mountainous parts of the Circars, where the natives use the bark as a substitute for hemp. Flowering time, the rainy season.

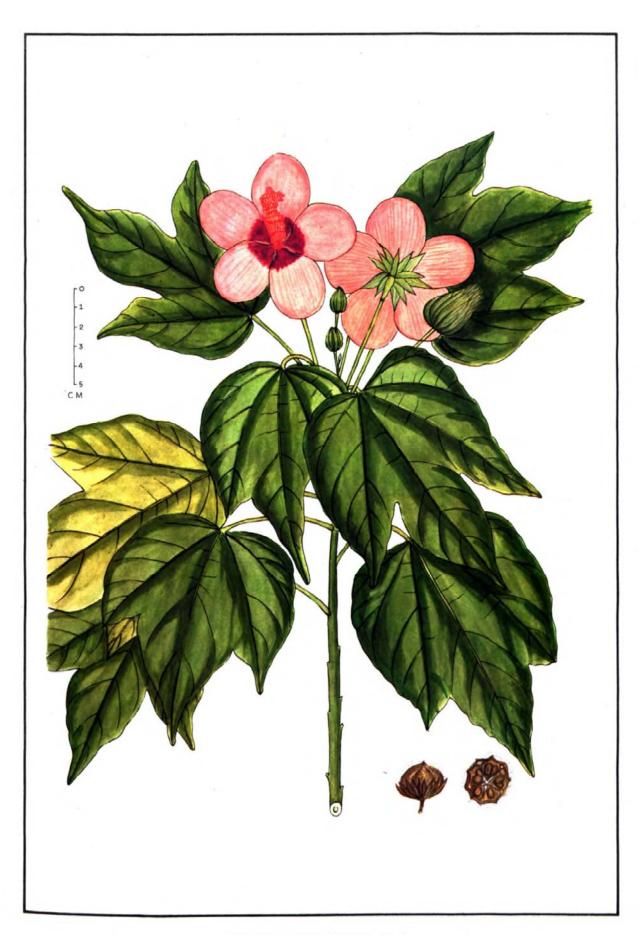
Stem arborescent. Branches ascending. Leaves alternate, petioled, slightly three-lobed, from three to five-nerved, scollopped, waved, sometimes toothed, smooth. Petioles round, rather shorter than the leaves. Stipules bristle-like, falling. Peduncles solitary from the axils of the exterior leaves and terminal, as long as the petioles, round, one-flowered, articulated near the apex. Flowers large, rose-coloured, with a dark purple centre. Calyx; exterior from eight to ten-leaved; leaflets erect, lanceolate, pointed; margins waved and reflexed. Corol flat. Filaments collected in verticels round their tube. Capsule roundish, a little oblate, five-ribbed, covered with much strong, grey, burning hair; the sutures on the inside are also thickly lined with stiff hairs.

The mountaineers use the bark of this species for cordage.

I have often observed that the bark of most of the Indian plants of this class, particularly of this family, might be employed for the same purposes as hemp. It almost always peels off in very long slips, and is very tough, that of Abroma augusta is particularly so, and is of the same natural order.

In India I have also often observed with admiration, that those flowers with pistils longer than the stamens, and that are not naturally pendulous, stand in an oblique, or nearly perpendicular direction; this obliquity is further assisted by the curvature of their pistils, which together with the oblique direction of the flower, generally bring their stigmas immediately below the anthers. This structure is most conspicuous in the flowers of those plants belonging to the natural order *Columnifera*, and is certainly a strong argument in favour of the *Sexual System*.

(W. Roxburgh, Flora Indica 3: 198, 1832)



HIBISCUS COLLINUS Roxb.

3. HIBISCUS FURCATUS Roxb.

Shrubby, very ramous, armed with sharp thorny bristles arising from coloured, glandular tuberculi. *Leaves* from entire to three-parted, grossly serrate, and hairy. *Stipules* falcate, lanceolate. *Peduncles* solitary, axillary, one-flowered; *exterior calyx* of ten forked leaflets. *Capsule* hairy, ovate, acute.

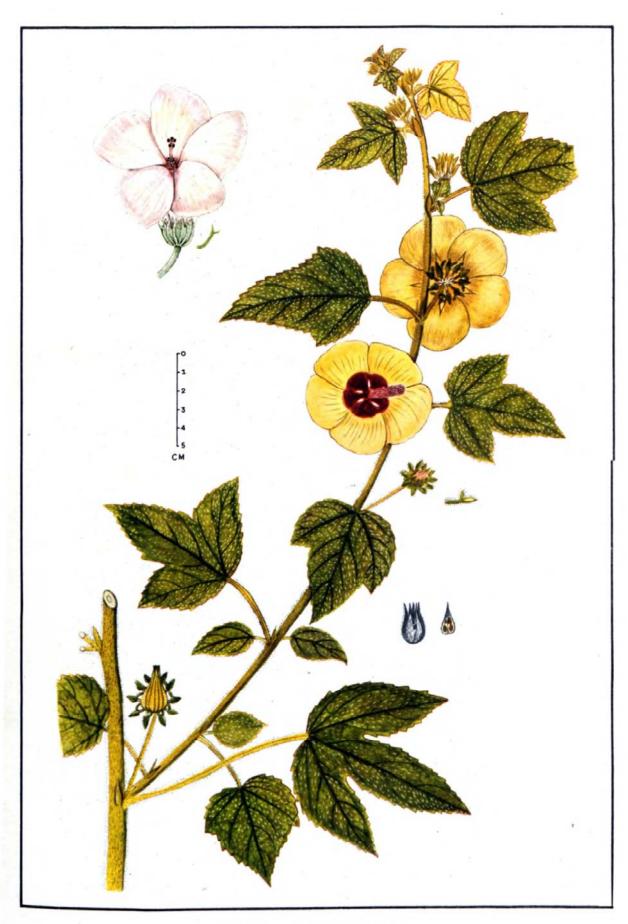
Discovered by the Rev. Dr. Carey, indigenous in the interior parts of Bengal. The seed sent by him to the Botanic Garden in one year produced plants that were six or eight feet high, and blossomed during the rainy season.

Stems erect, somewhat ligneous. Branches numerous, expanding, armed with numerous stiff, acute, spinous, recurved bristles, issuing from small, coloured, glandular papilli; amongst the bristles, soft hairs are intermixed. Leaves from cordate below, to three and even five-lobed about the middle of the plant; and again near the top narrow-cordate; all are serrate and hairy; the size very various. Petioles almost as long as the leaves, and armed like the branches. Stipules falcate, lanceolate; margins ciliate. Peduncles axillary, solitary, one-flowered, shorter than the petioles, and like them armed with the same sharp bristles. Flowers large, yellow with a dark crimson bottom. Calyx, the exterior one about two-leaved, each leaflet enlarged beyond the middle; from the base of the enlargement on the upper side, issues a clavate, erect, or incurved segment; these form a cancellated dome over the inner, five-parted, rigid, glandular, bristly, hairy calyx; while the exterior broader, but shorter segments spread out horizontally. Capsule very hairy on the outside. Seeds few, from two to four in each cell.

I considered this to be bifurcatus, Linn. Sp. Pl. ed. Willd. iii 819 until I reared that very plant, from seed received from the Island of Trinidad; the shrubs are nearly of the same size, but in that species every part is less hairy, the coloured glandular base of the bristles are not to be found; the stipules simply setaceous, and the flowers rose-coloured; consequently I must consider this a well-marked distinct species, though nearly allied in the shape of the leaves and exterior calyx. Like many of the other plants of the natural order, Columnifera of Linnaeus, or Malvacea of Jussieu, the bark of this species of Hibiscus, yields abundance of strong, white, flaxen fibres; but the prickliness of the plant renders it very troublesome to handle.

Note: Hibiscus bifurcatus in the upper left corner taken from the real American Plant reared in the Botanic Garden at Calcutta from seed from Trinidad.

(W. Roxburgh, Flora Indica 3: 204, 1832)



HIBISCUS FURCATUS Roxb.
(Left top inset -Flower of Hibiscus bifurcatus)

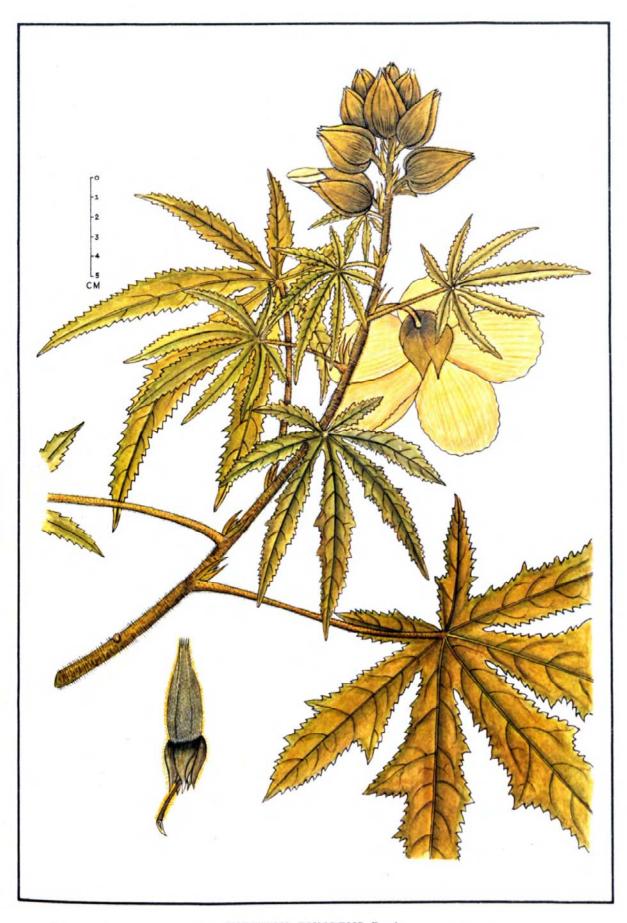
4. HIBISCUS PUNGENS Roxb.

Perennial, erect, ramous, every part armed with acute bristles. Leaves palmate; division linear-lanceolate, somewhat lobate, and deeply dentate-serrate. Stipules ensiform. Racemes terminal. Exterior calyx four-leaved, permanent. Capsule slender, acuminate, hairy, longer than the calyx.

From Nepal Dr. Buchanan sent the seeds to the Botanic garden, where the plants blossom about the close of the rains and in the cold season.

Stem erect, as thick as a walking cane, and often continuing for two or more years. Branches ascending, all are round, green, and densely clothed, as is every other part of the plant, with innumerable, diverging, strong, acute bristles; which enter the skin like spines. Leaves long-petioled, alternate, palmate; lobes linear-lanceolate, often lobate, and always deeply serrate-dentate; length and breadth of the whole leaf, from six to eight inches. Stipules broad-ensiform, or sub-lanceolate. Racemes terminal. Flowers drooping rather short-pedicelled, large, deep yellow. Bracts like the stipules. Calyx; the exterior one of four, large, broad-ovate, permanent leaflets; the inner one five-toothed. Capsule of a long, thin, tapering, conical form, and much longer than the calyces.

(W. Roxburgh, Flora Indica 3: 213, 1832)



HIBISCUS PUNGENS Roxb.

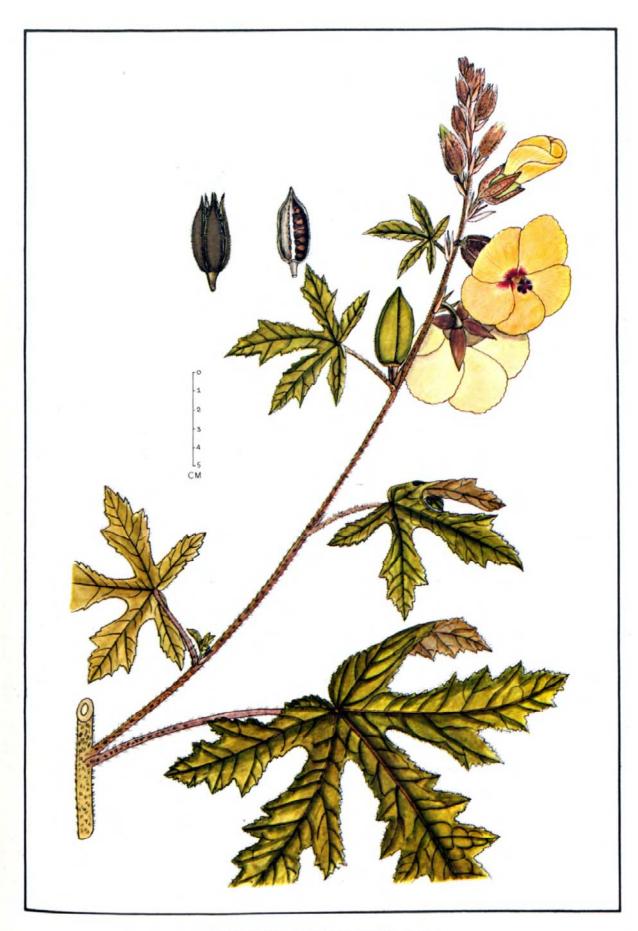
5. HIBISCUS TETRAPHYLLUS Roxb.

Annual, erect, ramous, hairy. Leaves palmate; divisions variously lobate, and acutely dentate. Stipules and bracts lanceolate. Flowers racemed. Exterior calyx four-leaved. Capsules linear-oblong, hairy.

A large, racemous, annual species, of from four to five feet high, found about Calcutta. Flowering time, the wet and cold seasons.

Stem erect, armed with very stiff short hairs, as well as the branches. Leaves palmate, hairy, and scabrous; lobes variously lobed, and dentate. Petioles round, longer than the leaves. Stipules lanceolate. Flowers large, yellow, campanulate, nodding on long terminal racemes, and from the exterior axils. Calyx, the exterior one four-leaved. Capsule ovate-oblong, five-sided, armed with much very stiff hair.

(W. Roxburgh, Flora Indica 3: 211, 1832)



HIBISCUS TETRAPHYLLUS Roxb.

6. KYDIA CALYCINA Roxb.

Exterior calyx four-leaved larger than the corol.

Hind. Choupultea.

Teling. Pandikee.

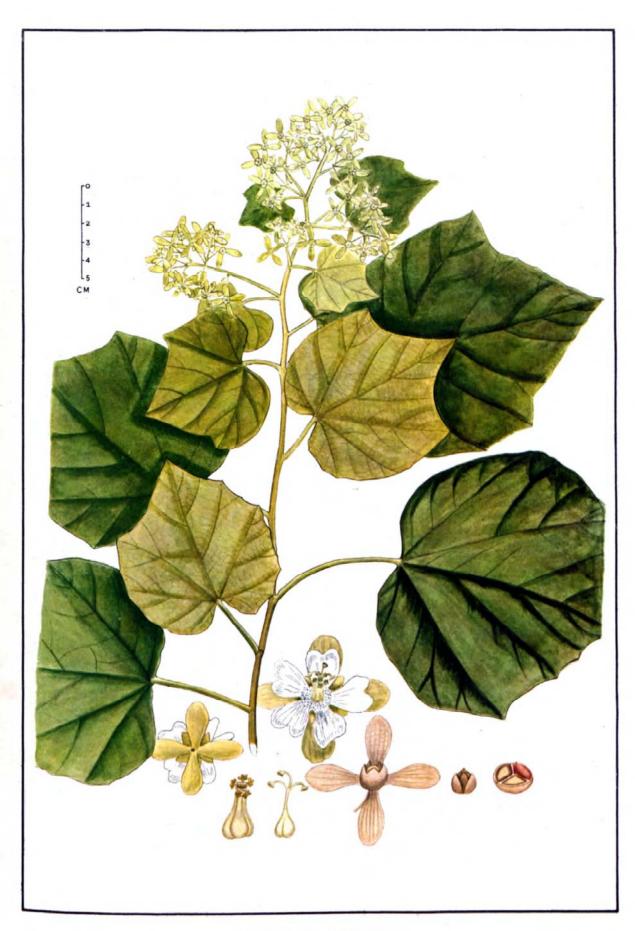
I have every reason to imagine this will form a new genus; its essential character being, I think, very distinct from any of those hitherto described; nor do I believe it was known to Dr. König, for I have never met with it but amongst the Circar mountains, where he never was.

It delights in such soil as is generally found on the banks of rivulets, water-courses, &c. where it grows to be a tree of a middling size. Flowering time, the cold season.

Trunk straight; bark ash-coloured. Head large, spreading, very ramous; young shoots covered with a brown mealy dust. Leaves alternate, petioled, broadcordate more or less from three to five-angled, irregularly-dentate, from three to five-nerved; both sides downy; there are also small tufts of stellate hairs dispersed over both sides, together with a farinaceous dust; from three to six inches each way; on the middle nerve a little below the middle, and sometimes also on the two next to it is an oblong, hollow, yellow gland. Petioles round, from two to three inches long, covered with brown farina. Panicles terminal, large, globular, crowded, many-flowered. Flowers numerous, middle-sized, pure white, collected in small umbellets, many of which make a panicle. Bracts small, rust-coloured, downy. Pedicels filiform, round, about three quarters of an inch long, covered with brown, farinaceous powder. Calyx double; the exterior one constantly four-leaved, spreading. Leaflets oblong, obtuse, downy, striated; three times longer and larger than the inner calyx, permanent. The interior calyx one-leaved, campanulate, half five-cleft; mealy on the outside, and clothed with white short hairs on the inside. Corol; petals five, obliquely-obcordate, much longer than the interior calyx, but shorter than the exterior one, woolly at the base. Filaments five, exceedingly short, thick, coalesced below into a tube. Anthers twenty, four of them sessile, round the apex of each of the short filaments, oval, lobed, one-celled. Germ superior, conical. Style, length of the tube formed by the filaments, three-cleft; divisions recurved. Stigmas very large. Capsule small, somewhat three-lobed, hid in the inner calyx, covered with brown farina, and stellate rugosities, three-celled, three-valved, opening from the apex. Seeds, one in each cell, obtusely three-sided, brown, affixed to the bottom of the cell.

Note: I have found many of the flowers male. As yet I am unacquainted with the uses of this tree.

(W. Roxburgh, Flora Indica 3: 188, 1832)



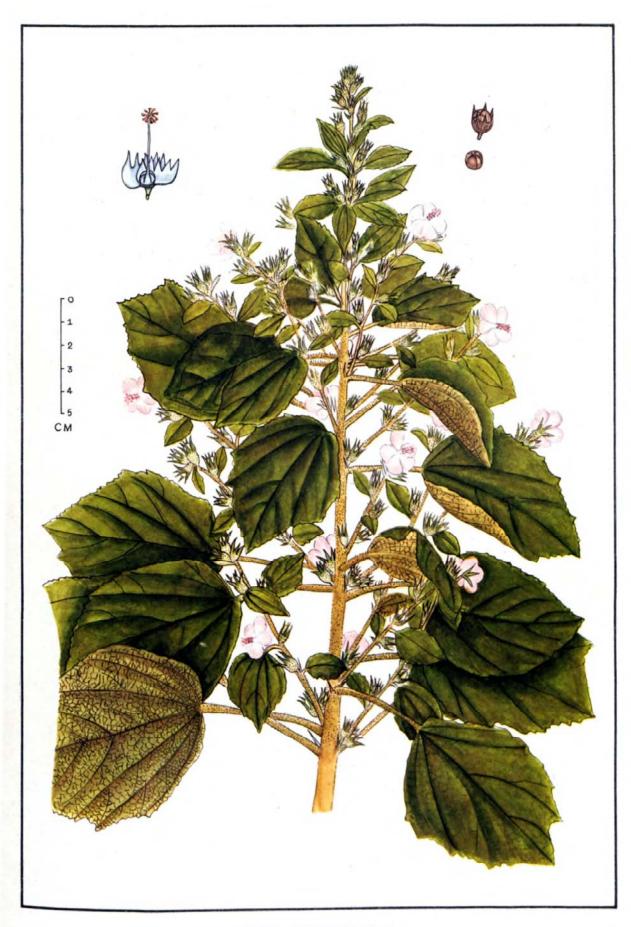
KYDIA CALYCINA Roxb.

7. URENA REPANDA Roxb.

Shrubby, erect, ramous, pubescent. Leaves ovate-cordate, repand, serrate-dentate. Capsules smooth.

A low, stout, very ramous species, a native of Coromandel; flowers in October.

(W. Roxburgh, Flora Indica 3: 182, 1832)



URENA REPANDA Roxb.

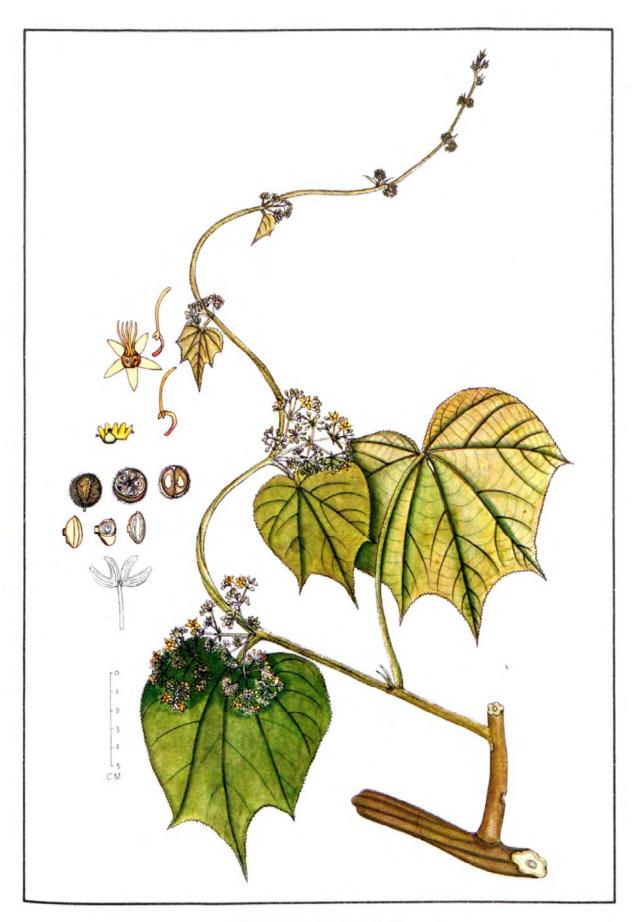
8. BÜTTNERA PILOSA Roxb. (Buettneria pilosa Roxb.)

Shrubby, twining, hairy. *Leaves* from three to five, acute-angled, dentate. *Umbels* axillary, proliferous.

A most extensive, twining shrub; a native of Chittagong. The flowering time in the Botanic Garden at Calcutta is September. The seeds are ripe in April. I have also had specimens from Silhet.

Stem woody, twining, in five years old plants as thick as a man's wrist, and irregularly obtuse-sulcate. Branches numerous, twining up and over large trees, to a very great extent; the younger ones very hairy, and irregularly obtusesulcate. Leaves alternate, petioled, having from three to five acute angles, dentate, posterior lobes large and rounded; about seven-nerved with a large, long gland on the middle one near the base, from four to six inches each way. Petioles round, often as long as the leaves, hairy. Stipules subulate, hairy. Umbels axillary, generally one large, and super-decompound; and two or more smaller, all are clothed with short, harsh pubescence, and are much shorter than the leaves. Bracts subulate. Flowers numerous, small. Calyx of five, spreading, pale-coloured, lanceolate leaslets. Petals five; the lower third part of their length linear, yellow on the outside, and red within; much incurved so as to form a circular dome over the pistil and nectary, open at the five sides, and in the vertex, the other two-thirds filiform, below slightly incurved, above recurved; colour a bright orange. Nectary five-cleft, yellowish, divisions fleshy, truncate, shorter than the lower portion of the petals. Filaments short, inserted into the fissures of the nectary, recurvate. Anthers two-lobed. Germ round, hairy. Style short, five-grooved. Stigma minutely quinquidentate. Capsules the size of a filbert, round, armed with long, rigid bristles; texture hard, approaching to that of a nut, five-celled, ten-valved. Seeds solitary, small in proportion to its cell, and attached to its inner angle, ovate-oblong, rather pointed at the apex, and obliquely truncate at the base. *Integuments* three; the *exterior* and *interior* membranaceous; the middle one hard and thick. Perisperm none or very thin. Embryo inverse, yellow. Cotyledons large, two-lobed; and rolled spirally up. Plumula two-lobed. Radicle cylindric, nearly as long as the seed, superior.

(W. Roxburgh, Flora Indica 1: 618, 1832)



BÜTTNERA PILOSA Roxb.

9. PTEROSPERMUM LANCEAEFOLIUM Roxb.

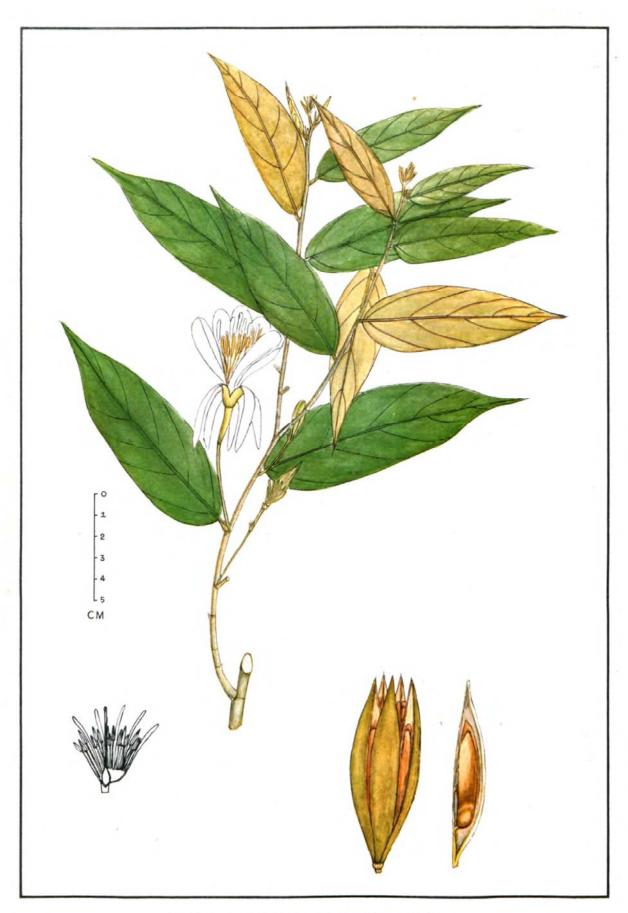
Leaves lanceolate, acuminate, entire. Flowers axillary, long-peduncled. Capsule lanceolate; cells from two to four seeds.

Beng. Bun Kulla.

A tree, a native of the forests in the neighbourhood of Silhet, where it blossoms about the beginning of the rains in May and June; and the seed ripens at the beginning of the cold season.

Young shoots slender, hoary, and uncommonly straight. Leaves alternate, short-petioled, lanceolate, with a round base, entire, acuminate, hoary underneath, from three to six inches long by one and a half broad. Stipules generally bifid, or trifid, ferruginous. Peduncles axillary, half the length of the leaves, round, slender, clavate at top, supporting a single, pretty large, white fragrant flower. Bracts two, or three, rather above the middle of the peduncle, like the stipule, but more divided. Calyx five-cleft; segments linear, revolute, hoary. Petals five, rather longer than the calyx, obliquely cunciform. Stamina as in the genus, viz. fifteen fertile filaments, with five longer, sterile ones; all are united at the base, and inserted on the cylindric receptacle, which elevates them and the germ. Anthers fifteen, linear, erect. Germ oblong, five-celled, with about four seeds in each, attached to the axis. Style, the length of the sterile filaments. Stigma clavate. Capsules lanceolate, hoary, with very light grey, soft, short pubescence, very obscurely five-cornered, five-celled, five-valved. Seeds from two to four in each cell, attached as in the germ, oval winged; the wing nearly as broad as the seed, and about three or four times its length.

(W. Roxburgh, Flora Indica 3: 163, 1832)



PTEROSPERMUM LANCEAEFOLIUM Roxb.

10. PTEROSPERMUM SEMI-SAGITTATUM (Buch.) ex Roxb.

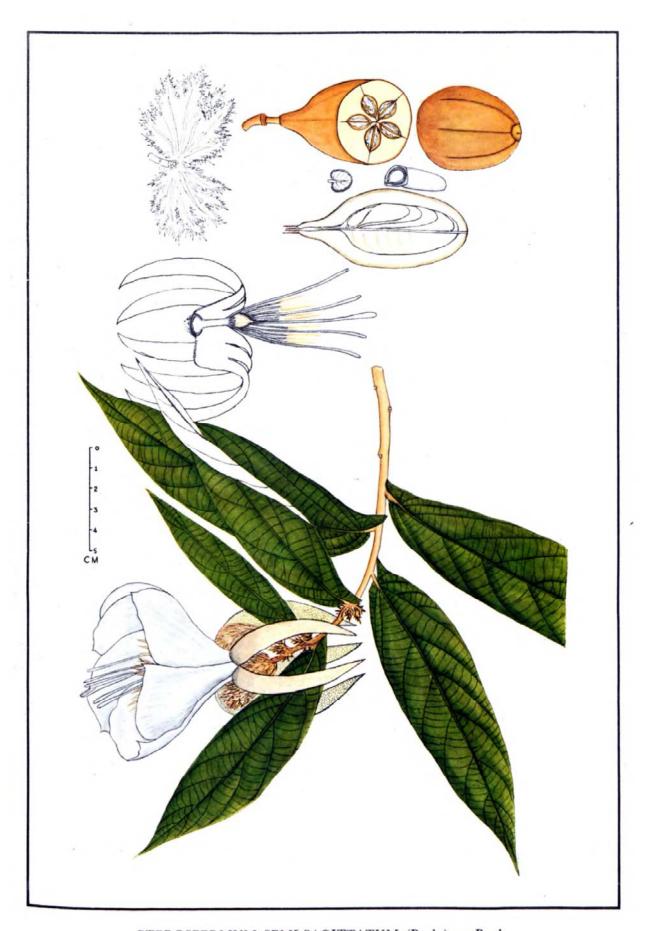
Leaves sub-lanceolate, entire, base of the inferior half protruded. Flowers terminal and solitary. Capsule oblong-elliptic, densely clothed with stellate pubescence.

Found by Dr. Buchanan at Chittagong, and from thence seeds were sent by him to the Botanic Garden at Calcutta in 1797, where the trees grow luxuriantly, and flower about the close of the hot season, ripening their seeds ten months afterwards. In twelve years the trees are thirty or forty feet high; thick in proportion, and promise to be larger.

Trunk straight. Young shoots very downy. Bark of the trunk and large branches ash-coloured. Leaves alternate, bifarious, short-petioled, spreading, lanceolate, entire, the base of the inferior half of each leaf protruded into a lobe of considerable size, and generally longer than the petiole, smooth above, hoary underneath, about six inches long, and nearly two broad. Stipules finely pinnatifid. Flowers terminal, and axillary, generally solitary, on short, downy, rustcoloured peduncles, drooping, large, pure white. Bracts or involucre, generally three-leaved, and very downy, from three to five-parted, with divisions variously laciniate. Calyx five-cleft; divisions recurvate, linear, longer than the corol; on the inside white, and villous; on the outside clothed with brownish, stellate, short hairs. Corol sub-campanulate. Petals five, obliquely obovate-cuneate. Filaments fifteen, with anthers which are shorter than the style, and five abortive ones as long as the style; they are not united at the base, but inserted on the apex of the long sub-cylindrical receptacle, round the base of the germ. Germ a little elevated above the stamina, on a short, proper, fleshy receptacle, ovate, downy. Style single, filiform, as long as the abortive stamina. Stigma clavate. Capsule without angles, oblong-elliptic, from two to three inches long, and one and a half in diameter, ligneous, clothed with an immense quantity of brown, stellate pubescence, five-celled, five-valved. Seeds about ten in each cell, attached from the lower and inner angle in two rows to the inner edge of the triangular valves, obliquely oval, compressed; from the upper end rises a large, straight, thin, brown, membranaceous wing. Integument single, spongy, of a light brown. Perisperm amygdaline, entering into the various folds of the cotyledons. Embryo nearly as extensive as the perisperm, erect, pure, white. Cotyledons two, foliaceous, nearly round, variously folded. Plumula minute, conical. Radicle cylindric, inferior, its point immediately opposite to the umbilicus of the seed.

I am not at present possessed of any information respecting the uses the natives make of any part of this tree, nor of the quality of its timber. It grows fast to be of considerable magnitude, and is at all times ornamental, being clothed to the ground with numerous branches, abounding in beautiful foliage.

(W. Roxburgh, Flora Indica 3: 160, 1832)



PTEROSPERMUM SEMI-SAGITTATUM (Buch.) ex Roxb.

11. STERCULIA ALATA Roxb.

Leaves cordate, entire, from three to five-nerved. Racemes crowded about the ends of the branchlets, length of the petioles. Follicles sub-rotund. Seeds numerous, winged.

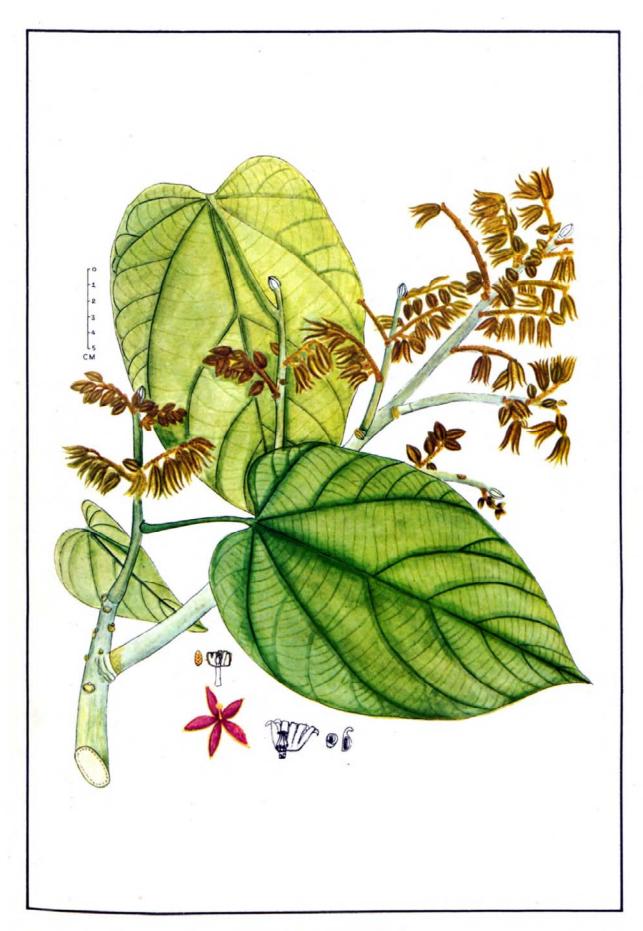
A native of the countries immediately east of Bengal, where it grows to be a large, handsome, very ramous tree. Flowering time, in the Botanic Garden, February and March, and the seed ripens about the close of the year. In the province of Chittagong, the tree is called Buddha Narikella, which may be translated, Boodh's coco-nut, Narikella being one of the Sanskrit names of the Coco-nut. In Silhet it is called Toola, and there the seeds are said to be eaten by the natives as a cheap substitute for opium.

Trunk, in trees twenty-five years old, now growing in the Botanic Garden, straight, tall, four feet above the ground, three and a half feet in circumference. Bark quite smooth, and ash-coloured. Branches numerous, towards the top of the tree ascending, below divaricate. In its native soil they arrive at a much greater size; viz. ten feet in circumference and above one hundred high. Leaves alternate about the ends of the branchlets, petioled, cordate, entire, smooth, from three to five-nerved, from four to twelve inches long, and from three to eight broad. Deciduous about the time the blossoms appear in February and March. Petioles round, smooth, from one to four inches long. Stipules minute, subulate, caducous at a very early period. Racemes axillary, sometimes terminal, thin, sub-panicled, but the most common mode is racemes in pairs from the axils of the former years toward the ends of the branchlets, and about as long as the petioles, or more densely clothed with ferruginous stellate pubescence. Flowers pretty large, short-pedicelled, reflex; male and female on the same racemes. Bracts ensiform, three under each flower, and caducous at a very early period. Calyx campanulate, divided nearly to the base, into five thick, fleshy, recurved, lanceolar segments; outside clothed with ferruginous, stellate pubescence; inside elegantly striated with crimson and yellow. Corol none.

MALE FLOWERS. Column of the abortive stamina cylindric, much shorter than the calyx, straight. Filaments scarcely any. Anthers imbricated in five fascicles of about five each, which unite below the middle and form a cup round the five imperfect germs.

FEMALE HERMAPHRODITE FLOWERS. Column none. Stamina five sessile bundles of imperfect anthers embracing the five grooves of the base of the germs. Germs five, singly semi-ovate, one-celled, with two rows of ovula in each, vertically attached to the inner angle of the cell. Styles short, recurved, villous. Stigmas rather broad and emarginate. Follicles or rather leguminous capsules from one to five, from the size of a man's fist, to that of an infant's head, nearly round, longpeduncled, one-celled, one-valved; valve thick, tough, and very fibrous; surface densely clothed with a brownish olive, mealy pubescence. Seeds many, attached to the margins of the valve, oblong, considerably compressed, each terminated by a long, broad, spongy wing (hence the specific name), which becomes thin and sub-membranaceous at the apex. Integuments three; the exterior one, a brown, friable, spongy body with a few fibres from the wing; the middle or second one forms an oval nuciform envelope for the embryo only, and seems composed of three parts; the exterior and interior thin, brown and friable, and the middle part thicker, tough and hard; the interior integument a thin membrane. Perisperm none. Embryo; cotyledons equal, conform to the seed, three-nerved. Plumula two-lobed. Radicle patelliform, lodged immediately within the umbilicus, relative, centripetal.

(W. Roxburgh, Flora Indica 3: 152, 1832)



STERCULIA ALATA Roxb.

12. STERCULIA LANCEAEFOLIA Roxb.

Leaves lanceolate, entire, smooth. Racemes axillary, simple, much shorter than the leaves; flowers red, long-pedicelled. Capsules oblong, villous, from four to eight-seeded.

Ushlea the vernacular name in Silhet, where it is indigenous, growing to be a middling sized tree. Flowering in March and April, and the seed ripening in May and June.

Bark of the trunk and larger branches ash-coloured; young shoots slightly villous, I may say smooth, as the little pubescence they have, when very tender, soon rubs off; thus it is also with the leaves. Leaves alternate, petioled, lanceolate, rather obtusely acuminate, entire, smooth, from four to eight inches long, by from one to three broad. *Petioles* about an inch long, thick at both ends. Stipules thick, subulate, a little hairy, caducous. Racemes axillary, or under the leaves, and much shorter than they, simple, erect. Flowers few, small, red, long-pedicelled, by far the greater part are male. Calyx, stamina and pistillum as in the genus. Capsules follicular; from one to five come to maturity, they are oblong, rather obtuse; the surface rather harsh with very minute, short hairs; length about three inches. Seeds from four to eight, oval. Integuments three; the exterior one thin, brittle, polished, black; the second thin, brown; between it and the exterior one a firm, dull-coloured, soft, sebaceous lamina; the interior integument membranaceous, light-brown. Perisperm in rather small quantity. Embryo straight, of a pale yellow. Cotyledons oval, nearly the size of the perisperm, thick and fleshy. Radicle ovate, pointing to the apex of the seed, directly opposite to the umbilicus.

(W. Roxburgh, Flora Indica 3: 150, 1832)

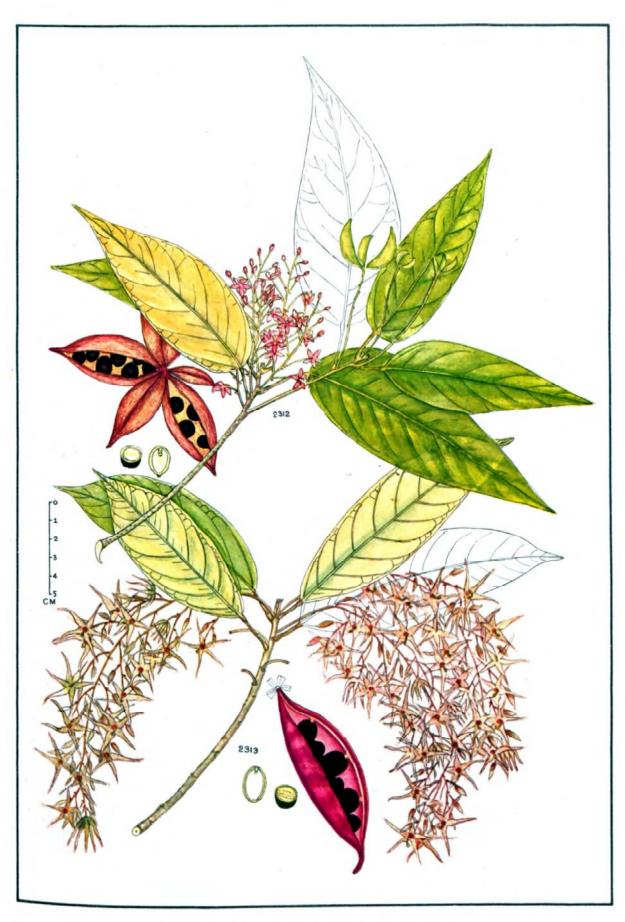
STERCULIA COCCINEA Roxb.

Leaves lanceolar, entire, smooth. Panicles axillary, drooping; segments of the calyx expanded, filiform and woolly. Capsules oblong, beaked, from four to eight-seeded.

A small tree, a native of Silhet where it blossoms during the hot season, and the seed ripens in May and June. It is conspicuous on account of the spreading, slender, woolly segments of the border of the calyx, and the crimson capsules.

Young shoots a little hairy. Leaves alternate, petioled, lanceolar, with a rather abrupt base, entire, obtusely acuminate, with a few depressed, stellate, harsh hairs underneath, from four to eight inches long, and from one to three broad. Petioles about an inch long, and hairy. Stipules subulate, hairy. Panicles axillary, and under the leaves, solitary, the length of the leaves, but pendulous; while scarcely expanded, a little hairy. Flowers rather long-pedicelled, pretty large, by far the greatest part male, of a greenish yellow colour, tinged with pink. Bracts subulate. Calyx rather flat; segments of the border five, long, slender, and woolly, spreading out in various directions, not converging, with their lips united, as in Balanghas parviflora, and angustifolia, which also have long slender segments. Stamina and pistillum as in the other species already described. Capsules follicular, from one to five come to maturity, linear-oblong, ending in a subcylindric, obtuse, curved beak, villous, both the inner and exterior surfaces of a bright crimson; general length from three to four inches. Seeds from four to eight, oval, smooth, of a bright chesnut colour. Perisperm in small quantity, and quite divided by the cotyledons. Embryo straight. Radicle in the apex of the seed directly opposite to the umbilicus.

(W. Roxburgh, Flora Indica 3: 151, 1832)



STERCULIA LANCEAEFOLIA Roxb. (2312) STERCULIA COCCINEA Roxb. (2313)

13. STERCULIA GUTTATA Roxb.

Leaves oblong, entire, villous underneath. Racemes terminal, and from the fork of the branches, simple.

Ramena-pou-maram. Rheed. Mal. iv. t. 61.

A native of Malabar, from Wynaad Captain Dickenson sent the seeds to the Botanic Garden in 1802, and the young trees reared therefrom, blossomed for the first time in December 1809. They were then about twenty feet high, and the trunk twenty-one inches in circumference, four feet above the ground.

Trunk straight to the top of the trees. Bark considerably cracked, and no doubt in old trees much so; that of the young parts smooth, ash-coloured; young shoots clothed with stellate down, inwardly it abounds with very strong, white, flaxen fibres, of which the inhabitants of Wynaad manufacture a kind of coarse cloth. Petioles round, downy, from two to three inches long. Stipules ensiform, caducous at an early period. Racemes terminal, and from the divisions of the branchlets, diverging, simple, clothed with ferruginous stellate pubescence. Flowers tern, short-pedicelled, middling sized, inodorous, by far the greater part hermaphrodite. Bracts lanceolar, a larger one below the middle flower of the three, and a minute one under each of the other two. Calyx nearly rotate, with its five segments revolute, both sides very pubescent; the outer side pale yellow; the inner one beautifully marked with numerous, minute purple glands on a yellow ground. Anthers about a dozen, inserted on the border of the thin nectarial belt which embraces the base of the germ. Germs long-pedicelled, globose, from three to five-lobed; three most frequent, downy, from three to five-celled; each cell contains two vertical rows of ovula, attached to the inner angle of the cell. Many of the flowers are abortive, or male-hermaphrodite. Style, in the fertile hermaphrodite, retrofracted, nearly as long as the germs; in the male-hermaphrodite scarcely any. Stigma from three to five-lobed. Capsules from one to five, nearly round, of the size of a small apple, one-celled, one-valved with the surface furrowed, orange-coloured, lined on the inside with a firm, smooth, fibrous, pink-coloured parchment-like membrane; the margins of the opening, and pedicels of the seed very hairy. Seeds few, oblong, of the size of a field bean. Integuments three; the exterior one thin, black and brittle; the second thin, light brown and tough; between these two is a soft, white, sebaceous substance; the inner integument is membranaceous. Perisperm on each side of the embryo amygdaline. Embryo straight. Cotyledons elliptic, extending completely through the perisperm. Radicle small, lodged in the apex of the seed opposite to the umbilicus.

(W. Roxburgh, Flora Indica 3: 148, 1832)



STERCULIA GUTTATA Roxb.

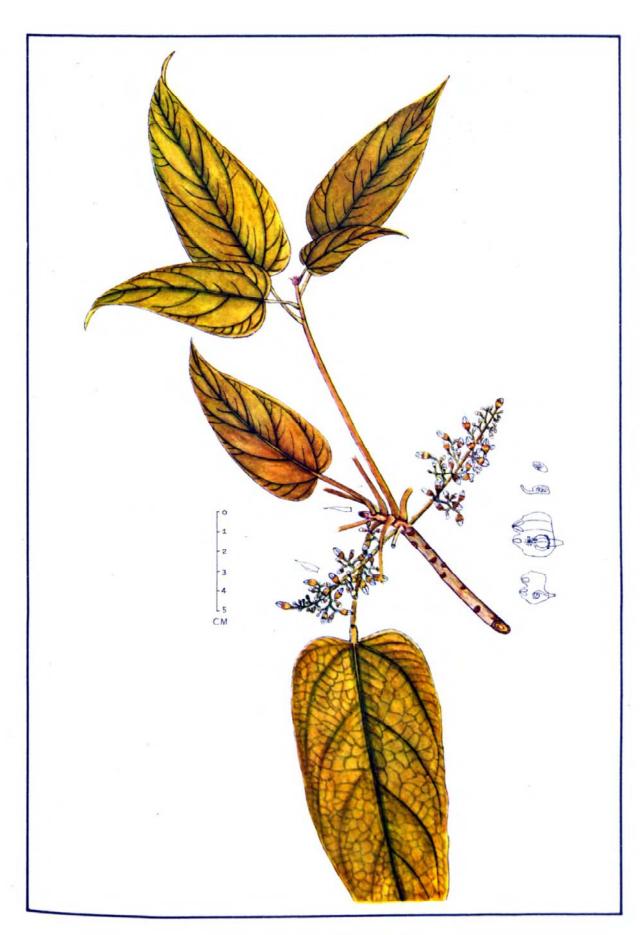
14. STERCULIA PARVIFLORA Roxb.

Leaves cordate-oblong, acuminate. Panicles lateral, diverging. Tube of the calyx gibbous, with the apices of its segments united, and the sides gaping.

Hind. Ram-julparee.

A middling sized tree, a native of the hills east of Tippera. In flower in March.

(W. Roxburgh, Flora Indica 3: 147, 1832)



STERCULIA PARVIFLORA Roxb.

15. STERCULIA VILLOSA Roxb.

Leaves from five to seven-lobed; lobes repand, or lobate, firmly acuminate. Panicles pendulous. Follicles oblong, villous, many-seeded.

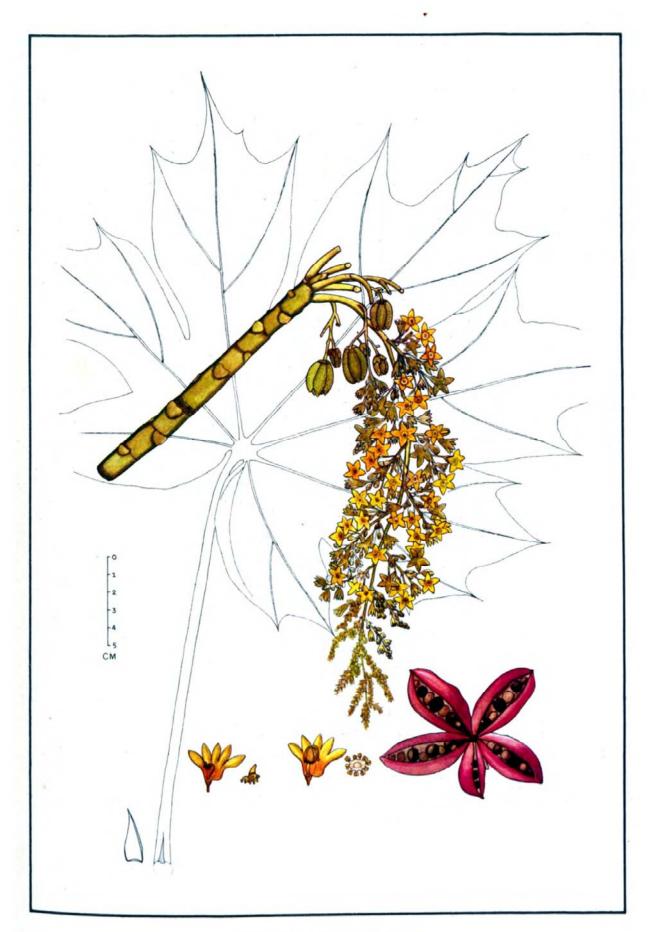
A native of the mountainous countries to the eastward of Bengal. Flowering time, the beginning of the hot season.

Trunk straight. Bark smooth. Branches few, spreading. Leaves alternate, petioled, roundish, or cordate-lobate, five-nerved; there are generally from five to seven acute, long-pointed, lobate lobes; when young very downy, particularly underneath, from twelve to eighteen inches each way. Petioles round, as long as the leaves, or longer, downy. Stipules lanceolate-cordate, downy, caducous. Panicles terminal, the longer pendulous, the shorter drooping, or diverging; every part covered with rust-coloured down. Flowers numerous, male and hermaphrodite mixed; the former by far the most numerous; all are pretty large; border of a pale yellow, or straw-colour, and the bottom of the bell pink. Bracts filiform, caducous. Calyx campanulate, outside downy.

HERMAPHRODITE FLOWERS. Anthers ten, two-lobed, inserted on the toothed edge of a membranaceous ring, which surrounds the base of the germs. Germs globular, elevated above the base of the corol by a curved cylindric column. Style single, the length of the germs, and recurved so much as to bring the five-lobed stigma into contact with the anthers. Capsules five, or fewer, &c. as in the germs, and covered with soft, rust-coloured down.

MALE FLOWERS. Calyx as in the hermaphrodite. Stamens; column, as long as the hermaphrodite, style and column taken together, hooked, apex a little enlarged for the reception of ten small twin anthers round its margin, in their centre, consisting of five glands the representation of a pistil.

(W. Roxburgh, Flora Indica 3: 153, 1832)



STERCULIA VILLOSA Roxb.

16. BERRIA AMOMNILLA Roxb. (Berrya ammonilla Roxb.)

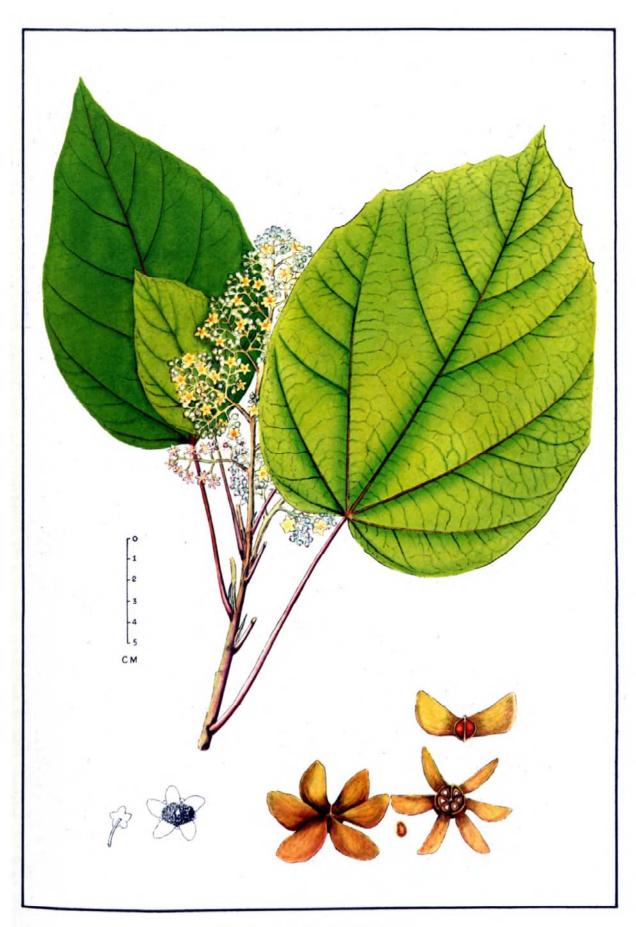
Cing. Ammonilla.

Eng. Trincomalee wood tree.

A native of Ceylon and one of their largest and most useful timber trees. Much of the wood is annually exported from Trincomalee. Trunk in young trees in the Botanic Garden at Calcutta, straight with smooth, light-brown bark, and an extensive, very dense, shady head. Leaves alternate, petioled, cordate, sometimes slightly scolloped, from five to seven-nerved, acute, smooth on both sides, from four to eight inches long. Petioles rather shorter than the leaves, slender, round, smooth, and often coloured. Stipules ensiform. Panicles terminal, and axillary, large, ramose, bearing numerous, elegant, middle-sized white flowers. Calyx one-leaved, downy, on the outside splitting irregularly into three, four or five segments, permanent. Petals five-spreading, linear-oblong, double the length of the calyx or more. Filaments numerous, half the length of the petals. Anthers incumbent, two-lobed, of a bright yellow. Germ superior, hairy, ovate, three-lobed, three-celled, with about six or eight ovula in each, attached in two vertical rows of the axis. Style short. Stigma three-cleft.

Capsules six-winged, round, three-celled, three-valved, each valve ornamented with two large oblong, membranaceous, reticulated, expanding villous wings. Seeds from one to four in each cell, irregularly ovate, clothed with much stiff, light-brown, short hair, affixed to the central receptacle near its apex. The hair very readily enters the skin and produces as much painful itching as that of Carpopogon pruriens (Dolichos pruriens Linn.). Integuments three, the exterior one friable, light-brown; the second tough, smooth and darker coloured; the inner one a membrane adhering to the perisperm. Perisperm conform to the seed, amygdaline. Embryo inverse, of a pale yellow. Cotyledons roundish, from five to seven-nerved. Plumula two-lobed. Radicle oblong, superior, with its point immediately within the umbilicus.

(W. Roxburgh, Flora Indica 2: 639, 1832)



BERRIA AMOMNILLA Roxb.

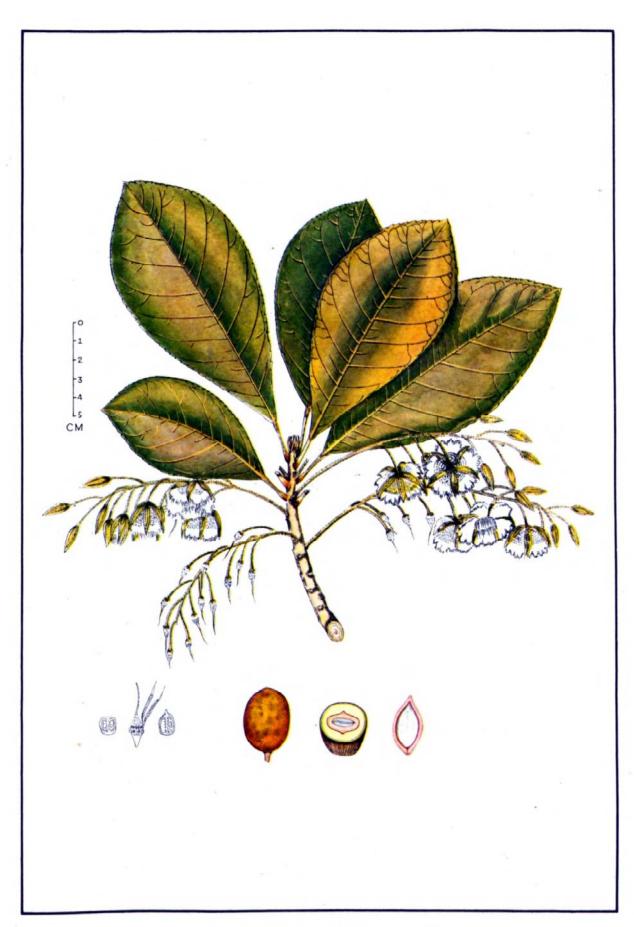
17. ELAEOCARPUS ARISTATUS Roxb.

Leaves petioled, obovate-cuneate, obtuse, and obtusely serrulate. Racemes axillary. Stamina from forty-five to fifty, awned. Drupe oval; nut generally one-celled.

Ran dulia is the vernacular name in Silhet, where it is indigenous, and grows to be a tree of very considerable magnitude. Flowering time in April, and the fruit ripens in August.

Young shoots thick, and rather rough, with a few hairs, which soon disappear by the wind, friction &c. Leaves alternately crowded about the ends of the branchlets, petioled, cuneate-obovate, obtuse, and obtusely serrulate, smooth on both sides, and firm in texture; from four to six inches long and from two to three broad. Petioles about an inch long, with a very few short hairs scattered over them. Stipules subulate, hairy, caducous. Racemes axillary, drooping and spreading, of the length of the leaves, a little hairy. Flowers few, long-pedicelled, generally drooping, large, yellow, and fragrant. Calyx of five, lanceolate, hairy, villous leaflets. Petals five, cuneiform, having the exterior margin deeply laciniate, very hairy, particularly on the outside; the hairs white, depressed, and pointing forward. Filaments regularly from forty-five to fifty, short, smooth, and slender, inserted in five, scarcely distinct bundles, on the top of the hairy receptacle. Anthers linear, opening at the top, the exterior lip of this mouth is continued into a pretty long, simple, straight arista. Germ ovate, very hairy, and elevated on the usual receptacle, which is here very hairy, two-celled, with from ten to twelve ovula in each, attached in two vertical rows, to the middle of the partition. Style subulate. Stigma acute. Drupe the size, shape and colour of a large olive. Nut oblong, both ends pointed, having a pretty large rib on each of the flattened sides running from the base of the apex, one, rarely two-celled, surface a little rugose, texture both hard and tough. Seed solitary, oblong, flat. Integument single, thick, hard, and of a dark brown. Perisperm conform to the seed, cartilaginous. Embryo inverse. Cotyledons as much extended as the perisperm, oblong, very thin, three-nerved. Radicle oval, superior.

(W. Roxburgh, Flora Indica 2: 599, 1832)



ELAEOCARPUS ARISTATUS Roxb.

18. ELAEOCARPUS GANITRUS Roxb.

Leaves alternate, lanceolar, serrulate. Flowers racemed. Stamina forty, bearded. Drupes spherical; nuts spherical, five-celled.

Ganitrus sphaerica. Gaert. sem. 2. p. 271. t. 139.

Ganitrus. Rumph. Amb. 3. p. 162. t. 101.

Sans. Roodraksha

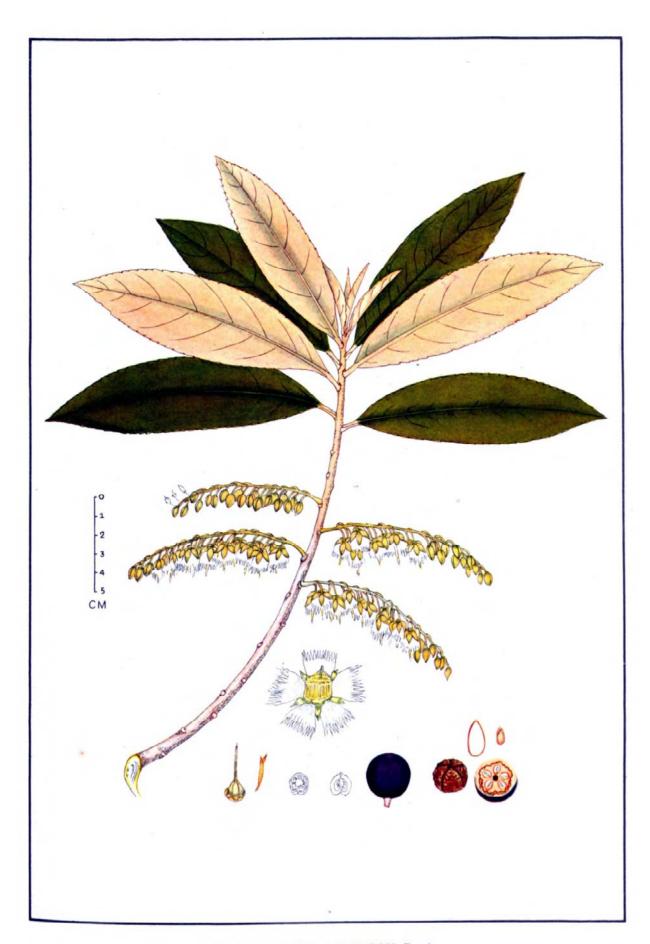
Hind. Roodrakh

Beng. Roodrakhya

A tree, a native of various parts of India, as well as of the Malay Archipelago. The following description of the tree was made from one growing in the vicinity of Dacca, which was brought to that place by a fakir some years ago, and there planted in his garden, and is now according to the information of the Honourable Charles Andrew Bruce, about the size of a large apple tree. It blossoms in February and March, and the fruit ripens in November.

Leaves alternate, approximate, short-petioled, lanceolar, serrulate, smooth on both sides, but while very young slightly sericeous, about six inches long, and about one and a half broad. Stipules minute, conical, caducous. Racemes from the former years branchlets below the leaves, and rather shorter than they, simple, drooping, one-flowered. Flowers of a middle size, drooping, white. Bracts of the pedicel solitary, one-flowered; of the calyx two, opposite, oblong, villous, having the anterior margins dentate and all dropping off at an early period. Calyx five-leaved, leaflets lanceolate, acute, the length of the petals, slightly villous on both sides; on the inner a small longitudinal rib runs down the middle. Petals five, sessile, oblong, the length of the stamina; the exterior half divided into numerous, subulate segments, somewhat villous. Nectary none, unless the receptacle of the germ and stamina can be so called, it projects into five obscure lobes, between the insertions of the petals. Filaments about forty, short, inserted on a large, convex receptacle on which the germ sits. Anthers linear, two-celled, gaping at the apex, where there are sometimes a few distinct hairs. Germ superior, ovate, villous, five-lobed, five-celled, with about four seeds in each, attached to the upper end of the axis. Style longer than the stamina, five-grooved. Stigma simple, small, acute. Drupe perfectly round, smooth of the size of a large cherry, and of a deep purple colour; pulp firm, rather dry and of a dull brownish yellow colour. Nut spherical, thick, very hard, having the surface elegantly tubercled, and marked with five-equidistant, deep grooves running from the apex to the base, five-celled. Seeds generally solitary, though sometimes two, when single, oblong, tapering most at the apex. Integuments two; the exterior one brown, hard, smooth, and brittle; the inner one grey, and membranaceous. Perisperm conform to the seed, oily. Embryo inverse nearly as long and broad as the perisperm. Cotyledons oblong, thin, three-nerved. Plumula two-lobed. Radicle oblong, superior. Gaertner has no doubt mistaken the apex of the drupe of the plant, for the base; and if more proof is required, let me add of Elaeocarpus serratus also, there the embryo is also inverted, though the nut is never more than three-celled, that being the number of cells in the germ. and also my E. bilocularis, where the perisperm and embryo are the same, and the nut bilocular. I am a very inferior judge of natural orders, but certainly think this cannot belong to the same order with Garcinia, in which I include Gambogia, and two species of Xanthochymus. If it does, I must despair of ever making any progress in this branch of the science.

(W. Roxburgh, Flora Indica 2: 592, 1832)



ELAEOCARPUS GANITRUS Roxb.

19. ELAEOCARPUS LANCEAEFOLIUS Roxb.

Leaves alternate, lanceolar, serrate, smooth. Stamina fifteen, bearded. Drupe long, turbinate, with a one-celled nut of nearly the same shape.

Sufed-pai is the vernacular name in Silhet, where it grows to be a middling sized tree. Flowering time, the beginning of the rains; the fruit ripens in September and October.

Toung shoots round and perfectly smooth. Leaves about the ends of the twigs, alternate, short-petioled, broad-lanceolar, serrate, rather obtuse, pointed, smooth on both sides, from four to six inches long, and scarcely two broad. Stipules none. Racemes axillary, and from those of the last year, solitary, diverging with a curve, rather shorter than the leaves. Flowers alternate, pretty long-pedicelled, recurvate, small, white. Calyx five-leaved; leaflets lanceolate. Petals five, cuneiform; exterior margin deeply laciniate. Nectarial glands five, large, embracing the lower part of the germ. Filaments fifteen, short, two between the nectarial glands and one from the inside of the apex of each of them. Anthers linear, gaping at top, and there somewhat bearded. Germ ovate, three-celled, with two ovula in each, attached to the axis. Style the length of the corol. Stigma small, three-toothed. Drupe long, turbinate, of the size and appearance of a large olive, smooth, when ripe of a greenish yellow, one-celled. Nut sub-clavate, turbinate, tapering most towards the base, and having there a superficial perforation, one-celled, three-valved. Perisperm conform to the seed. Embryo inverse. Cotyledons cordate-lanceolate. Radicle superior.

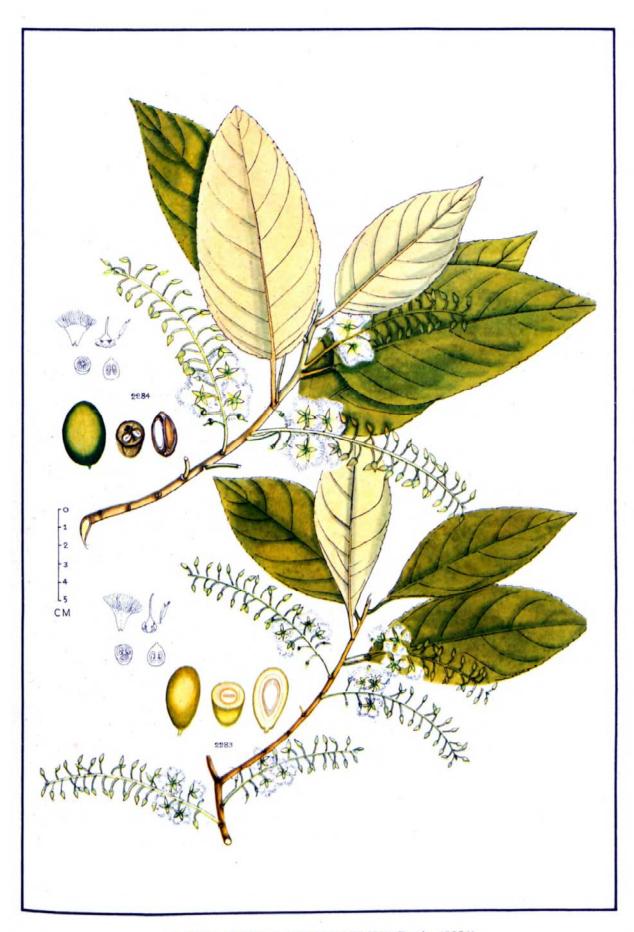
(W. Roxburgh, Flora Indica 2: 598, 1832)

ELAEOCARPUS RUBUSTUS Roxb. (Elaeocarpus robustus Roxb.)

Leaves ovate-oblong, serrate, acuminate, smooth. Stamina fifty, bearded. Dulpai, probably Julpai, is the vernacular name in Silhet, where it is indigenous, and grows to be a very large tree. Flowering time the beginning of the rains in June.

Toung shoots slightly villous. Leaves alternate, petioled, ovate-oblong, serrate, acuminate, smooth, thick, and of a hard texture, about six inches long, and three broad. Petioles about an inch long. Racemes axillary, and from those of the last year, solitary, simple, diverging with a curve, villous, scarcely so long as the leaves. Flowers numerous, large, white, fragrant, pedicelled, drooping. Calyx of five lanceolate, hoary leaflets. Petals five, broad-cuneiform, with the exterior margin multifid. Nectarial glands five, large, villous. Filaments fifty, nine between each pair of glands, and one from the inside of the apex of each short. Anthers linear, gaping at the top, and somewhat bearded. Germ oval, three-celled, with two ovula in each attached to the axis. Style shorter than the petals. Stigma small, tri-dentate. Drupe oval, of the size of a pigeon's egg, smooth, of a yellow olive colour, and pulpy; when ripe one-celled. Nut oblong, rugose, very hard, three-celled, and in time having three valves. Seed solitary, linear, oblong. Perisperm conform to the seed, soft and oily. Embryo inverse, &c. as in the other species.

(W. Roxburgh, Flora Indica 2: 597, 1832)



ELAEOCARPUS LANCEAEFOLIUS Roxb. (2284) ELAEOCARPUS RUBUSTUS Roxb. (2283)

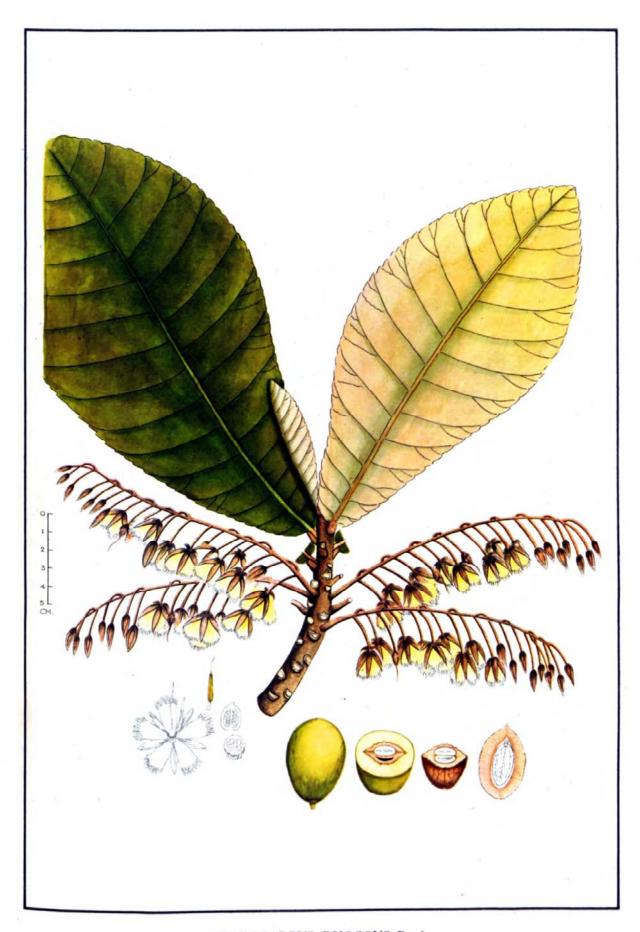
20. ELAEOCARPUS RUGOSUS Roxb.

Leaves subsessile, obovate-oblong, serrate, smooth. Racemes below the leaves, single. Stamina thirty, terminated by a single thread. Drupe oval; nut rugose, thin-edged, from one to two-celled.

Bun Julpai, the vernacular name in Chittagong, where it is indigenous, and grows to a great size, with a scanty crown. Flowering time March; the seed ripens in June and July.

Leaves about the ends of the branches, alternate, subsessile, obovate-oblong, serrate, of a firm texture, smooth on both sides, except when very young, thin, and clothed with a little ferruginous down; from six to twelve inches long, and from four to six broad. Racemes numerous, under the leaves, and shorter than they spreading nearly horizontally. Flowers large long-pedicelled, drooping. Peduncles and pedicels clothed with dark ferruginous down. Bracts small, caducous. Calyx five-leaved; leaflets lanceolate, on the outside downy. Petals five, subcuneiform, villous, with the apex irregular, and deeply cut into numerous filiform segments. Filaments thirty, short, inserted round the base of the germ, into a villous receptacle. Anthers linear, crowned with a single thread. Germ superior, villous, grooved, two-celled, with about eight ovula in each, attached in an imbricated order, in two vertical rows from their apices to the middle of the partitions. Style longer than the stamina. Stigma simple. Drupe obovate, of the size of a small pullet's egg, smooth, of an olive yellow. Nut oblong, a little pointed, rugose, having the edges sharp, thick, hard and tough, one, rarely two-celled. Seed solitary, oblong. Integument single, thick and brown. Perisperm conform to the seed, horny. Embryo inverse. Cotyledons very thin, oblong, three-nerved, nearly as broad and long as the perisperm. Plumula two-lobed. Radicle ovate, superior.

(W. Roxburgh, Flora Indica 2: 596, 1832)



ELAEOCARPUS RUGOSUS Roxb.

21. GREWIA OPPOSITIFOLIA (Buch.) ex Roxb.

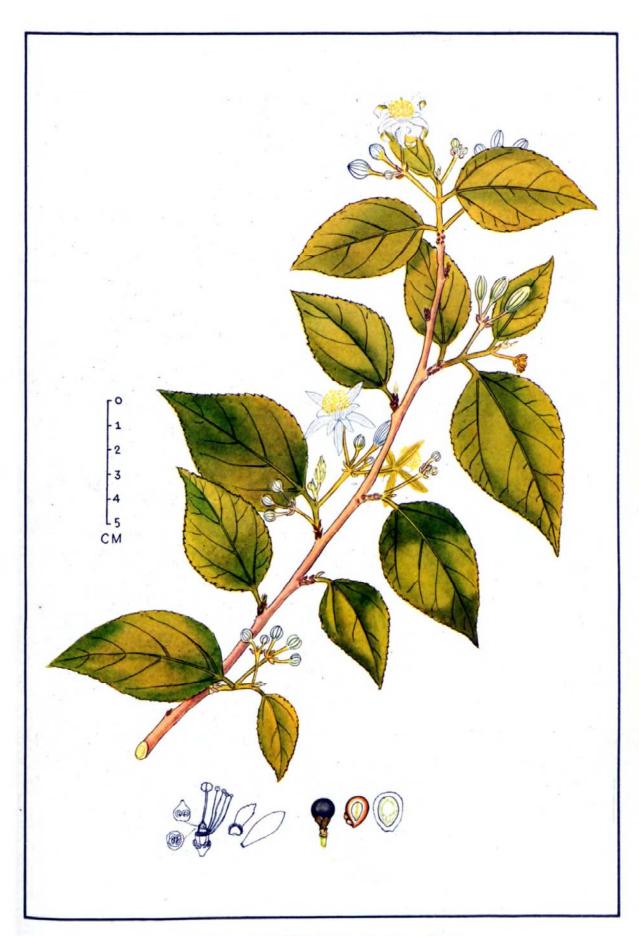
Arboreus. Leaves rhomb-ovate, gland-scrrate, scabrous. Peduncles leaf opposed, from three to five-flowered. Petals lanccolate. Drupe from one to four-lobed; nuts one-celled.

A native of Nepal, from thence Dr. Buchanan sent seeds to the Botanic Garden at Calcutta in 1802, and in March, April, May and June 1808, the young trees were in flower, and ripened their seeds in October and November.

Trunk distinct, erect, stout as a man's arm. Bark pretty smooth, light ash colour. Branches spreading much, and covered with bark like the trunk. Branchlets or young shoots bifarious, round, harsh with stellate pubescence, and very short hairs. Leaves bifarious, alternate, short-petioled, from ovate, to rhombshaped, three-nerved, serrate, with the serratures obtuse and glandular, of an obscure green, and rather harsh on both sides, from two to three inches long, and one and a half broad. Stipules ensiform, hairy. Peduncles opposite to the leaves, solitary, much longer than the petioles, round, harsh, from three to five-flowered. Pedicels clavate, shorter than the peduncles. Flowers pretty large, yellowish. Bracts, or involucres several, round the insertion of the pedicels, ensiform, caducous. Calyx, the five-leaflets linear, three-ribbed on the back. Petals lanceolate, with apices acute, but often somewhat serrate-dentate. Nectarial glands round, and ciliate. Germ ovate, hairy, two-celled, with two ovula in each, attached to the partitions. Style the length of the numerous stamina. Stigma of two spreading green lobes with ragged edges. Drupe from one to four-lobed, one is most common, and the abortive ones appear attached to its base on one side, smooth, of an olive colour, fleshy; flesh a dull purple. Nuts one in each lobe of the drupe, obovate, thick, and very hard, one-celled. Perisperm conform to the nut. Embryo straight, nearly as long as the perisperm, green. Cotyledons cordate. Radicle ovate, inferior.

It is allied to G. orientalis, but the difference is sufficiently marked by the shape of the leaves, and their glandular serratures in this independent of its being a tree, and the other always a shrub, and scandent when protected and supported; and also the smooth drupe with one-celled nuts.

(W. Roxburgh, Flora Indica 2: 583, 1832)



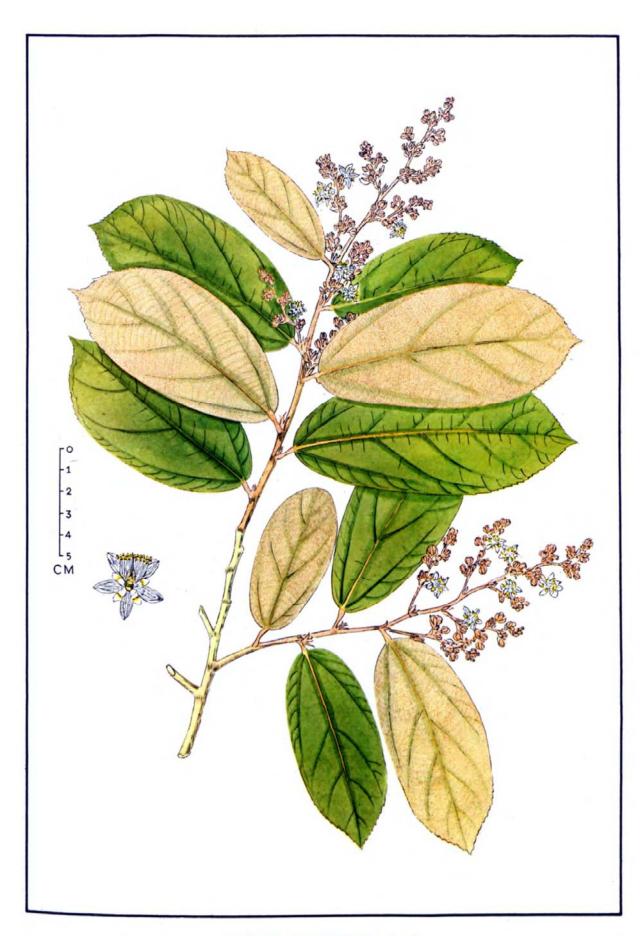
GREWIA OPPOSITIFOLIA (Buch.) ex Roxb.

22. GREWIA PANICULATA Roxb.

Leaves short-petioled, cuneate-oblong, towards the apex serrate, downy, with soft, stellate pubescence, underneath, three-nerved. Stipules two-cleft. Panicles terminal, mealy. Petals entire.

A native of Pulo Pinang, where it was found by Dr. Hunter.

(W. Roxburgh, Flora Indica 2: 591, 1832)



GREWIA PANICULATA Roxb.

23. GREWIA POLYGAMA Roxb.

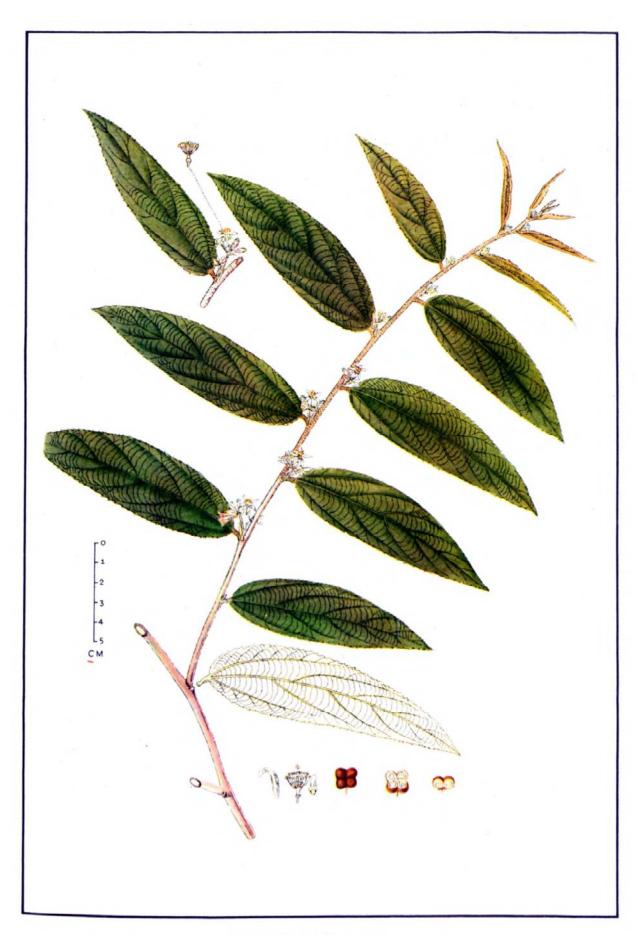
Polygamous. Shrubby. Leaves lanceolate, serrate, hairy. Peduncles axillary, longer than the petioles, from two to six-flowered. Drupe twin; each two-lobed, with a solitary one-celled, one-seeded nut in each.

A native of the interior parts of Bengal. Flowering time, the rainy season; the seed ripens during the cool months of November and December.

Trunk trifling. Branches bifarious, spreading; young shoots downy and scabrous. Leaves alternate, bifarious, short-petioled, lanccolate, serrate, three-nerved, both sides downy, particularly the under one, and hairy; about four inches long and about one broad. Stipules subulate. Peduncles axillary. In the male two, three, or four together, two or three times longer than the petioles, round, hairy, each supporting from two to six pedicelled, small white flowers. Bracts or involucres subulate, villous, generally one to each pedicel. Calyx; leaflets linear, expanding, villous, twice the length of the petals. Petals oblong, with apices entire, and the usual hairy nectarial mark on the inside of the lower half. Filaments numerous. In the male flowers inserted on an elevated receptacle; in the hermaphrodite ones round the base of the germ, and mixed with much white hair. Pistil; in the flowers of the male plant there is nothing like one. In the female it is roundish, and very hairy. Style longer than the stamens. Stigma very large, stellate. Drupe four-lobed, hairy. Lobes about the size of a small pea, each containing a single, one-seeded nut.

It differs from G. pilosa, in being polygamous, and the nuts being one-celled. It is also nearly allied to my G. tomentosa, the best distinguishing mark is the male flowers in this species.

(W. Roxburgh, Flora Indica 2: 588, 1832)



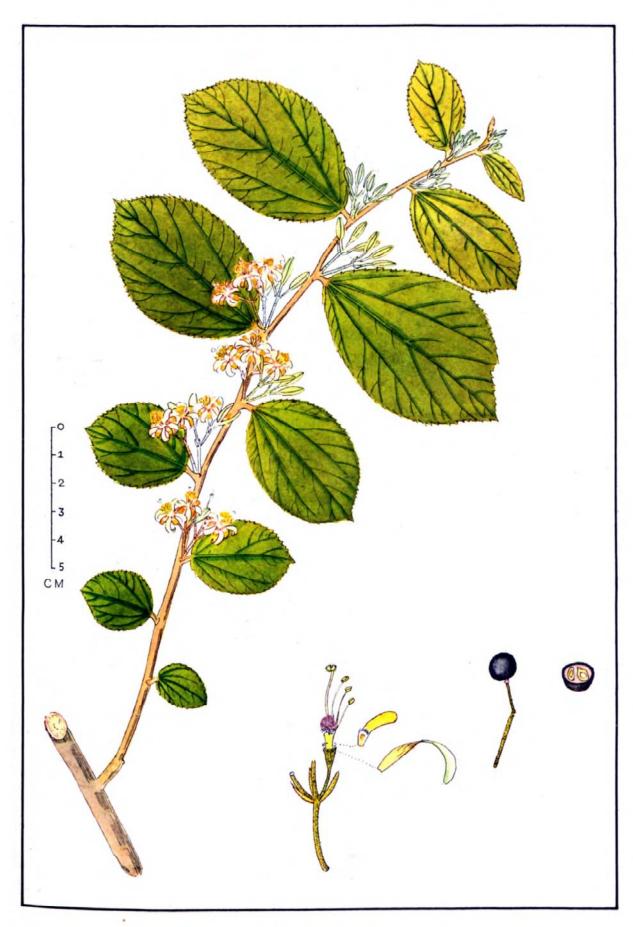
GREWIA POLYGAMA Roxb.

24. GREWIA SAPIDA Roxb.

Suffruticose. Leaves oblong, sublobate, small, five-nerved, scabrous. Peduncles axillary, four times longer than the petioles, several together, three-flowered. Petals two-toothed. Drupes round, with from one to three one-seeded nuts.

A native of Bengal. It flowers during the hot season; the fruit is small, but palatable.

(W. Roxburgh, Flora Indica 2: 590, 1832)



GREWIA SAPIDA Roxb.