



A Checklist of Climbing Plants in South Bengal and Sundarbans, India

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ABSTRACT

A checklist of climbing plants belonging to angiosperms (dicotyledons and monocotyledons) and pteridophytes has been presented in this paper. The study is based on our recent field-survey in South Bengal and Sundarbans of India, also consulting the earlier and recent literature. The list provides: the accepted name of a species with protologue, vernacular name, flowering and fruiting time, category of a climber species, wild and/or cultivated, specimen cited and/or reference. The families, genera and species follow alphabetical sequence. There are about 243 climbing plant species in this region, which covers diverse habitats, such as the moist Gangetic plains, the hilly to lateritic and semi-xeric western part of West Bengal, the vast coastal belt along the Bay of Bengal, and the world-famous Sundarbans delta. The comprehensive account given herein will be helpful for a better understanding of the climbers that constitute a special life-form among the plants.

Introduction

Unique among the plants, the climbers have diverse life-forms and uses. They may be a twiner, liana, rambler, scrambler, etc. Those are of immense economic importance: provide food (fruits, vegetables, and leaves), fodder, fibre, ornamental foliage/frond, showy flowers, and various herbal products including medicines.

An updated account of the climbing plants occurring in the southern part of the state of West Bengal including Sundarbans delta of India has been given in this article, based on field-study and references. The region has a

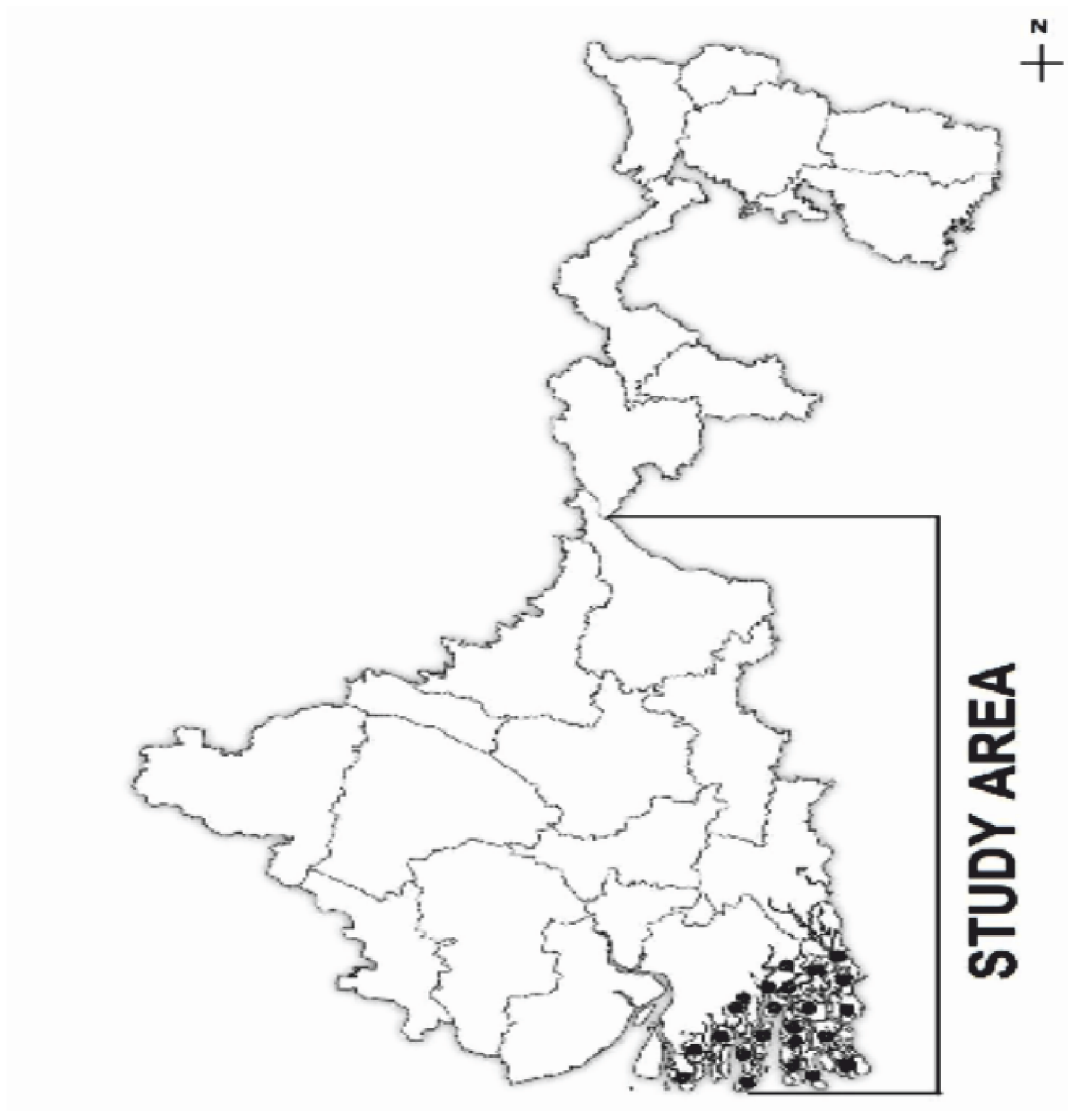
tropical climate, but has varied habitats and topography. The forests in South Bengal are mostly of dry-deciduous type, and in Sundarbans consisting of mainly mangroves. This study on the climbers will provide a fillip to analyses of vegetation in the phytogeographic regions of India.

Methods

Study area

Survey of angiospermic and pteridophytic climbers at different areas of South Bengal and Sundarbans, India, was carried out from January 2010 to January 2020 in all seasons

Fig.: 1. Location map of the study areas in West Bengal, India (dotted area is Sundarbans)



of the year. South Bengal, in this study, comprises all southern districts of the state of West Bengal, i.e., from the Ganga River (between Malda and Murshidabad districts) at Farakka to southwards up to the Bay of Bengal. The study also covers Indian Sundarbans, rich

in mangroves (see the zones covered in our study in the location map in Figure 1). Literature¹⁻¹⁵ on the relevant floras was consulted to finalize the checklist.

Plant data and specimens

Field and herbarium methods were followed

as recommended by Jain and Rao¹⁶. Identification of the collected specimens was done with the help of literature¹⁻⁸. The identified specimens were preserved at the Ramnagar College Herbarium⁹⁻¹⁴. The website of The Plant List¹⁷ was consulted for the correct names of the taxa in the checklist. Under the heads dicotyledons, monocotyledons, and pteridophytes the families, genera and species

are arranged alphabetically. In each species, the protologue reference followed by the vernacular name (if available), flowering and fruiting months, category of a climber (e.g., liana, twiner, etc.), whether wild or cultivated or both, *exsicata* (= specimen cited) and/or reference to previous reports are given. Several photographs of the relevant plants are shown in Figures 2 (A-D), 3 (A-D), and 4 (A-D).

Figure-2 [A-D]: Climbers in southern parts of West Bengal



Fig.: 2A: *Antigonon leptopus* Hook. & Arn.



Fig.: 2B: *Coccinia grandis* (L.) Voigt



Fig.: 2C: *Tiliacora acuminata* (Lam.)
Hook.f. & Thoms.

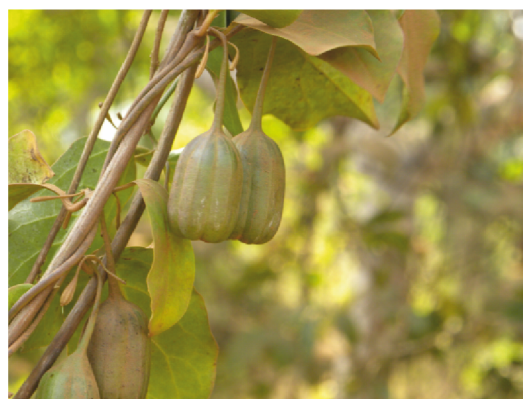


Fig.: 2D: *Aristolochia indica* L.

Figure-3 [A-D]: Climbers in southern parts of West Bengal



Fig.: 3A: *Tinospora cordifolia* (Willd.)
Miers. ex Hook.f. &Thoms.



Fig.: 3B: *Clitoria ternatea* L.



Fig.: 3C: *Teramnus labialis* Spreng.



Fig.: 3D: *Mukuna pruriens* (L.) DC.

Figure-4 [A-D]: Climbers in southern parts of West Bengal



Fig.: 4A: *Passiflora suberosa* L.

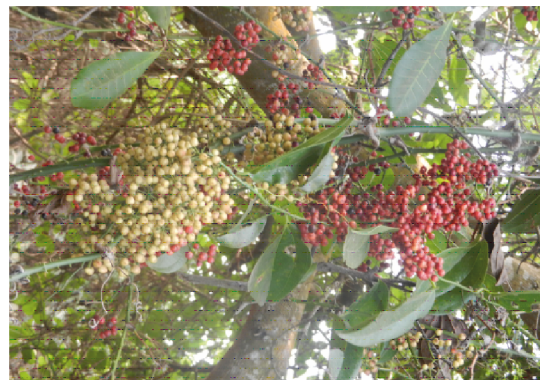


Fig.: 4B: *Smilax zeylanica* L.



Fig.: 4C: *Canavalia gladiata* (Jacq.) DC.

CHECKLIST

Abbreviations and asterisk (*):

FBD = Flora of Bankura District, West Bengal (Sanyal, 1994).

FHD = Flora of Howrah District (Bennet, 1979).

FMD = Flora of Murshidabad District, West Bengal (Guha Bakshi, 1984).

FWB = Flora of West Bengal, Volumes 1-4 (1997-2019), Botanical Survey of India.

Fl. & Fr. = Flower and Fruit.

Exsic. = *Exsicata*, specimen cited.

* Those species occur also in Sundarbans.

DICOTYLEDONS

ACANTHACEAE

Thunbergia grandiflora Roxb. in Bot. Reg. (Ed. Ker Gal) 6: 495. 1820. Vernacular name: Nul-lata. Fl. & Fr.: Throughout the year; Liana; Cultivated; exsic./ reference: FWB (4), 2019.

Thunbergia laurifolia Lindl., Gard. Chron. 1856: 260. 1856. Fl. & Fr.: October -February;



Fig.: 4D: *Solanum trilobatum* L.

Liana; Cultivated; exsic./ reference: FWB (4), 2019.

Thunbergia natalensis Hook. in Curtis. Bot. Mag. (Ed. Hook) 84: t. 5082.1858. Fl. & Fr.: October-April; Liana; Cultivated; exsic./ reference: FWB (4), 2019.

AMARANTHACEAE

Deeringia amaranthoides (Lam.) Merr., Interpr. Herb. Amboin. 211. 1917. Vernacular name: Gola Mohan. Fl. & Fr.: November-March; Rambler; Wild; exsic./ reference: FWB (4), 2019; FMD, 1984; FHD, 1979.

ANNONACEAE

Artabotrys hexapetalus (L.f.) Bhandari in Bailey 12: 147. 1964. Vernacular name: Kantali champa. Fl. & Fr.: September-December; Hook climber; Wild & Cultivated; exsic./ reference: FWB (1), 1997; FBD, 1994.

APIACEAE

Centella asiatica (L.) Urb. in Mart., Fl. Bras. 11: 287, pl. 78, f.1.1879. Vernacular name: Thankuni. Fl. & Fr.: July-January; Rambler;

Cultivated & Wild; exsic./ reference: FWB (3), 2016.

APOCYNACEAE

Aganosma dichotoma (Roxb.) K.Schum. in Engl. & Prantl, Nat. Pflanzenfam. IV. 2: 173. 1895. Vernacular name: Malati. Fl. & Fr.: July-February; Twiner; Cultivated; exsic./ reference: FWB (3), 2016.

Allamanda cathartica L., Mant. Pl. 2: 214. 1771. Vernacular name: Har-kakra, Allamanda. Fl. & Fr.: August-November; Twiner; Cultivated; exsic. / reference: FWB (3), 2016; FHD, 1979.

Beaumontia grandiflora Wall., Tent. Fl. Nepal. 15, t.7. 1824. Fl. & Fr.: March-May; Liana; Cultivated; exsic./ reference: FWB (3), 2016.

Ichnocarpus frutescens (L.) W.T. Aiton, Hortus Kew. Ed. 2, 2: 69.1811. Vernacular name: Shyاملata. Fl. & Fr.: October-March; Twiner; Cultivated; exsic./ reference: FWB (3), 2016; FMD, 1984.

Parsonsia alboflovescens (Dennst.) Mabb. in Taxon 26: 532. 1977. Fl. & Fr.: April-June; Twiner; Cultivated; exsic / reference: FWB (3), 2016.

Vallis solanacea (Roth) Kuntze, Revis. Gen. Pl. 2: 417.1891. Vernacular name: Haparmali. Fl. & Fr.: December-April; Twiner; Cultivated; exsic./ reference: FWB (3), 2016.

ARALIACEAE

Hedera nepalensis K. Koch, Hort. Dendrol. 284, t.75.1853. Fl. & Fr.: August-May; Twiner;

Cultivated; exsic. / reference: FB (4), 2019.

ARISTOLOCHIACEAE

Aristolochia indica L., Sp. Pl. 960.1753. Vernacular name: Ishermul. Fl. & Fr.: June-March; Twiner; Wild; exsic./ reference: FWB (4), 2019.

ASCLEPIADACEAE

Ceropegia hirsuta Wight & Arn. in Wight, Contr. Bot. India 30. 1834. Fl. & Fr.: July-October; Twiner; Wild; exsic./ reference: FWB (3), 2016.

Cryptolepis buchananii Roem. & Schult., Syst. Veg. 4: 409. 1819. Vernacular name: Karilata. Fl. & Fr.: Throughout the year; Twiner; Wild; exsic./ reference: FWB (3), 2016; FHD, 1979.

Cryptolepis sinensis (Lour.) Merr., in Philipp. J. Sci.15: 254. 1919. Vernacular name: Karilata. Fl. & Fr.: July-January; Twiner; Wild; exsic / reference: FWB (3), 2016.

Cryptostegia grandiflora (Roxb.) Merr., in Philipp. J.Sci.15: 254. 1919. Fl. & Fr.: Throughout the year; Twiner; Wild; exsic / reference: FWB (3), 2016.

Cynanchum callialatum R. Br. In Bot. Reg. (Ed. Ker Gawl.) 5: t.435.1819. Vernacular name: Chagul-boti. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FWB (3), 2016.

**Dischidia bengalensis* Colebr., in Trans. Linn. Soc. London 12: 357, t.15: 1818. Fl. & Fr.: May-December; Twiner; Wild; exsic./ reference: FWB (3), 2016.

- *Dischidia nummularia* R. Br., Prodr. Fl. Nov. Holland. 461: 1810. Vernacular name: Pargacha. Fl. & Fr.: May-December; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- Dregea volubilis* (L.f.) Benth. ex Hook.f., Fl. Brit. India 4: 46. 1883. Vernacular name: Titakunja. Fl. & Fr.: April-December; Twiner; Wild; exsic./ reference: FWB (3), 2016; FHD, 1979.
- Finlaysonia obovata* Wall., Pl. Asiat. Rar. 2:48, t. 162: 1831. Vernacular name: Dudhialata. Fl. & Fr.: March-May; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- Gymnema acuminatum* Wall., Tent. Fl. Nepal. 2: 50. 1826. Fl. & Fr.: May-October; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- Gymnema hirsutum* Wight & Arn. In Wight, Contr. Bot. India, 44. 1834, non Wall. 1826. Vernacular name: Chhota dudhilata. Fl. & Fr.: April-August; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- Gymnema inodorum* (Lour.) Decne. in DC., Prodr. (Ed. A.DC.), 8: 551. 1844. Vernacular name: Banful lata. Fl. & Fr.: June-March; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- Gymnema sylvestre* (Retz.) R. Br. ex Schult., Syst. Veg. 6: 57. 1820. Vernacular name: Gurmar, Meshshringa. Fl. & Fr.: August-March; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- Hemidesmus indicus* (L.) R. Br. In W.T.Aiton, Hortus Kew. ED. 2, 2: 75. 1811. Vernacular name: Anantamul. Fl. & Fr.: September-February; Twiner; Wild; exsic./ reference: FWB (3), 2016; FHD, 1979.
- Hemidesmus indicus* (L.) R. Br. var. *pubescens* (Wight & Arn.) Hook.f., Fl. Brit. India 4: 5.1883. Fl. & Fr.: September-February; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- Holostemma ada-kodien* Schult 4: 5.1883. Vernacular name: Arka puspa, Apung. Fl. & Fr.: August-March; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- *Hoya parasitica* (Roxb.) Wall. ex Wight, Contr. Bot. India 37:1834. Vernacular name: Pargach. Fl. & Fr.: July-October; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- Marsdenia tenacissima* (Roxb.) Moon, Cat. Pl. Ceylon 21. 1824. Vernacular name: Chiti, Jiti. Fl. & Fr.: May-June; Twiner; Wild; exsic./ reference: FWB (3), 2016.
- *Oxystelma esculentum* (L.f.) Sm. in Rees, Cycl. 1: 25. 1813. Vernacular name: Dudhilata. Fl. & Fr.: August-December; Twiner; Wild; exsic./ reference: FWB (3), 2016; FMD, 1984.
- *Pentatropis capensis* (L. f.) Bullock in Kew Bull. 10: 284.1955. Vernacular name: Ambarvel. Fl. & Fr.: August-December; Twiner; Wild; exsic./ reference: FWB (3), 2016; FHD, 1979.
- Pergularia daemia* (Forssk.) Chivo., Res. Dei. Somalia Ital. 1: 115.1916. Vernacular name: Chagulbati. Fl. & Fr.: July-September; Twiner; Wild; exsic./ reference: FWB (3), 2016; FMD,

1984; FHD, 1979.

**Sarcolobus carinatus* Wall. in Asiat. Res. 12:570, t.4. 1816. Vernacular name: Baoli-lata. Fl. & Fr.: March-September; Twiner; Wild; exsic./ reference: FWB (3), 2016; FMD, 1984; FHD, 1979.

**Sarcolobus globosus* Wall. in Asiat. Res. 12: 684, f.112. 1877. Vernacular name: Baoli-lata. Fl. & Fr.: March-October; Twiner; Wild; exsic./ reference: FWB (3), 2016.

Stephanotis floribunda Brongn. In Ann. Sci. Nat. Bot. Ser. 2, 7: 30. 1837. Fl. & Fr.: May-April; Twiner; Cultivated; exsic./ reference: FWB (3), 2016.

**Telosma cordata* (Burm.f.) Merr. In Philipp. J. Sci. 19: 372. 1921. Vernacular name: Kanjalata. Fl. & Fr.: July-September; Twiner; Wild; exsic./ reference: FWB (3), 2016; FMD, 1984; FHD, 1979.

Telosma pallida (Roxb.) Craib. In Bull. Misc. Inform. Kew 1911: 418. 1911. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FWB (3), 2016.

**Tylophora fasciculata* Buch.-Ham. ex Wight, Contr. Bot. India 50. 1834. Vernacular name: Isermul. Fl. & Fr.: April-October; Twiner; Wild; exsic./ reference: FWB (3), 2016.

Tylophora flexuosa R. Br., Prodr. 460. 1810. Fl. & Fr.: May-September; Twiner; Wild; exsic./ reference: FWB (3), 2016.

Tylophora hirsuta (Wall.) Wight, Contr. Bot. India 49. 1834. Fl. & Fr.: July-January; Twiner; Wild; exsic./ reference: FWB (3), 2016.

Tylophora indica (Burm.f.) Merr. in Philipp. J. Sci. 19: 373. 1921. Vernacular name: Antamul. Fl. & Fr.: October-February; Twiner; Wild; exsic./ reference: FWB (3), 2016; FMD, 1984; FHD, 1979.

Tylophora longifolia Wight, Contr. Bot. India 50. 1834. Fl. & Fr.: May-September; Twiner; Wild; exsic./ reference: FWB (3), 2016.

Tylophora pauciflora Wight & Arn. in Wight, Contr. Bot. India 49. 1834. Fl. & Fr.: July-October; Twiner; Wild; exsic./ reference: FWB (3), 2016.

ASTERACEAE

Mikania micrantha H.B.K., Nov. Gen. et Sp. 4: 134. 1820. Vernacular name: Taralata. Fl. & Fr.: March-December; Twiner; Wild; exsic./ reference: FBD, 1994.

Vernonia elaeagnifolia DC., Prodr. 5: 22. 1836. Fl. & Fr.: April-August; Rambler; Cultivated; exsic./ reference: *Chandrakona*, 34.

BASELLACEAE

Basella alba L., Sp. Pl. 1: 272. 1753. Vernacular name: Pui sak. Fl. & Fr.: March-August; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.

CAPPARACEAE

Capparis zeylanica L., Sp. Pl. ed. 2. 720. 1762. Vernacular name: Hingshra, Kalokera. Fl. & Fr.: March-May; Scrambler; Wild; exsic./ reference: FWB (1), 1997; FHD, 1979.

Maerua oblongifolia (Forsk.) A. Rich. in Tent.

Fl. Abyss. 1: 32.t.5. 1847. Fl. & Fr.: June-September; Twiner; Cultivated; exsic./ reference: FWB (1), 1997.

CELASTRACEAE

Celastrus paniculatus Willd. Sp. Pl. 1: 1125. 1798. Vernacular name: Kurji, Malkagni. Fl. & Fr.: April-January; Twiner; Cultivated; exsic./ reference: FWB (1), 1997.

COMBRETACEAE

Combretum album Pers., Syn. Pl.1:411.1805. Vernacular name: Alang. Fl. & Fr.: May-January; Hook-climber; Wild; exsic./ reference: FWB (2), 2015.

Quisqualis indica L., Sp. Pl. (ed.) 556. 1762. Vernacular name: Madhabilata. Fl. & Fr.: April-February; Twiner; Cultivated; exsic./ reference: FWB (2), 23015.

CONVOLVULACEAE

Argyreia cuneata (Willd.) Kar Gawl., Bot. Reg. 8: t. 661.1822. Fl. & Fr.: September-December; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.

Argyreia cymosa (Roxb.) Sweet, H. Brit. 289. 1826. Fl. & Fr.: November-February; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Argyreia nervosa (Burm.f.) Bojer, Hort. Marutus :224. 1837. Vernacular name: Guguli, Bij Tarak. Fl. & Fr.: July-January; Twiner; Wild; exsic./ reference: FWB (4), 2019; FHD, 1979.

Argyreia setosa (Roxb.) Arn. ex Choisy, Convolv. Orient.: 43. 183. Fl. & Fr.:

September-May; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Convolvulus arvensis L., Sp. Pl. 1: 153. 1753. Fl. & Fr.: September-March; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Convolvulus prostratus Forssk., Fl. Aegypt.-Arab. 203. 1775. Fl. & Fr.: September-March; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Erycibe paniculata Roxb., Pl. Coromandel 2: 31, pl. 154. 1802 (1798). Fl. & Fr.: April-July; Twiner; Wild; exsic./ reference: FWB (4), 2019; FBD, 1994.

Evolvulus alsinoides (L.) L., Sp. Pl. (ed. 2) 1: 392. 1762. Fl. & Fr.: Jul-March; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Evolvulus nummularius (L.) L., Sp. Pl. (ed.2) 1: 391.1762. Fl. & Fr.: Throughout the year; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Hewittia malabarica (L.) Suresh in Nicolson & al., van Rheed, Hort. Malab.: 88.1988. Fl. & Fr.: October-January; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Ipomoea alba L., Sp. Pl. 1: 161. 1753. Vernacular name: Dudhiakalmi. Fl. & Fr.: Throughout the year; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.

Ipomoea aquatica Forssk., Fl. Aegypt.-Arab.: 44. 1775. Vernacular name: Kalmi-sak. Fl. & Fr.: June-December; Twiner; Wild & Cultivated; exsic./ reference: FWB (4), 2019.

Ipomoea barlerinoides (Choisy) Benth ex C.B.

- Clarke. in Hook.f. Fl. Brit. India 4: 201.1883. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea batatas* (L.) Lam., Tabl. Encycl. 1: 465.1793. Vernacular name: Rangalu, Lal alu. Fl. & Fr.: December-April; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.
- Ipomoea cairica* (L.) Sweet, Hort. Brit.: 2; 187. 1826. Vernacular name: Railway creeper. Fl. & Fr.: Throughout the year; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.
- Ipomoea eriocarpa* R. Br., Prodr. Fl. Nov. Holland.: 484. 1810. Fl. & Fr.: September-March; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea hederifolia* L., Syst. Nat. (ed.10) 2: 925. 1759. Fl. & Fr.: November-April; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- **Ipomoea illustris* (C.B. Clarke) Prain, Bengal Pl. 2:735.1903. Fl. & Fr.: September-January; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea lobata* (Cerv.) Thell. Fl. & Fr.: February-April; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea marginata* (Desr.) Verdc., Kew Bull. 42: 658. 1987. Vernacular name: Bankalmi. Fl. & Fr.: July-March; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea mauritiana* Jacq., Collectanea 4: 216. 1791. Vernacular name: Bhui-kumora. Fl. & Fr.: June-November; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea nil* (L.) Roth, Catal. Bot. 1: 36. 1797. Vernacular name: Kaladanah. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea obscura* (L.) Ker Gwal., Bot. Reg. 3: pl.239.1817. Fl. & Fr.: September-March; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea pes-caprae* (L.) R. Br. In Turkey, Narr. Exped. Zaire: 477.1818. Vernacular name: Chhagal khuri. Fl. & Fr.: December-March; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea pes-tigridis* L., Sp. Pl. 1:162.1753. Vernacular name: Langulilata. Fl. & Fr.: August-February; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea purpurea* (L.) Roth, Bot. Abh. Beobacht.: 27. 1787. Vernacular name: Morning Glory. Fl. & Fr.: July-January; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.
- Ipomoea quamoclit* L., Sp. Pl. 1:159. 1753. Vernacular name: Tarulata, Kamlata Tarulata, Kamlata. Fl. & Fr.: August-December; Twiner; Wild & Cultivaed; exsic./ reference: FWB (4), 2019.
- Ipomoea triloba* L., Sp. Pl. 1:161. 1753. Fl. & Fr.: August-February; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea turbinata* Lag., Gen. Sp. Pl.: 10. 1816. Fl. & Fr.: September-January; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Ipomoea violacea* L., Sp. Pl. 1: 161. 1753. Fl.

- & Fr.: September-November; Twiner; Wild; exsic. / reference: FWB (4), 2019.
- Jacquemontia paniculata* (Burm.f.) Hallier f., Bot. Jahrb. Syst. 16: 541, in obs. 1893. Fl. & Fr.: September-January; Twiner; Cultivated; exsic./ reference: FWB (4), 2019; FBD, 1994.
- Jacquemontia pentanthos* (Jacq.) G. Don., Gen. Hist. 4: 283. 1937. Fl. & Fr.: October-February; Twiner; Cultivated; exsic. / reference: FWB (4), 2019.
- Merremia emarginata* (Burm.f.) Hallier f., Bot. Jahrb. Syst. 16: 552, in obs, 1893. Vernacular name: Bhuikamri. Fl. & Fr.: September-December; Twiner; Wild; exsic. / reference: FWB (4), 2019.
- Merremia hederacea* (Burm.f.) Hallier f., Bot. Jahrb. Syst. 18 :118. 1893. Fl. & Fr.: October-January; Twiner; Wild; exsic./ reference: FWB (4), 2019; FHD, 1979.
- Merremia hirta* (L.) Merr. in Philipp. J. Sci. 7 (4): 244. 1912. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Merremia quinata* (R. Br.) Ooster., J. Arn. Arbor. 29: 417. 1948. Fl. & Fr.: September-November; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Merremia quinquefolia* (L.) Hallier. f., Bot. Jahrb. Syst. 16: 552 in obs. 1893. Fl. & Fr.: October-January; Twiner; Wild; exsic./ reference: FWB (4), 2019.
- Merremia tridentata* (L.) Hallier f., Bot. Jahrb. Syst. 16: 552, in obs. 1893. Fl. & Fr.: August-March; Twiner; Wild; exsic. /reference: FWB (4), 2019; FBD, 1994.
- Merremia tuberosa* (L.) Rendle in Fl. Trop. Africa 4 (2): 104. 1905. Fl. & Fr.: December-March; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.
- Merremia umbellata* (L.) Hallier, Bot. Jahrb. Syst. 16: 552, in obs. 1893. Fl. & Fr.: February-April; Twiner; Wild; exsic./ reference: FWB (4), 2019; FBD, 1994.
- Merremia vitifolia* (Burm.f.) Hallier f., Bot. Jahrb. Syst. 16: 552 in obs. 1893. Fl. & Fr.: January-March; Twiner; Wild; exsic. / reference: FWB (4), 2019.
- Operculina turpenthum* (L.) Silva, Manso, Enum. Subst. Braz.: 16. 1836. Vernacular name: Dudh kalmi. Fl. & Fr.: October-May; Twiner; Wild; exsic./ reference FWB (4), 2019.
- Porana volubilis* Burm.f., Fl. Indica: 51, t. 21, f.1.1768. Fl. & Fr.: November-March; Twiner; Cultivated; exsic. / reference: FWB (4), 2019.
- Poranopsis paniculata* (Roxb.) Roberty, Candollea 14: 26. 1952. Vernacular name: Bridal creeper. Fl. & Fr.: November-April; Twiner; Wild; exsic. / reference: FWB (4), 2019.
- Rivea hypoctateriformis* (Desr.) Choisy, Mem. Soc. Phys. Geneva 6 (2): 408. 1834. Vernacular name: Kalmilata. Fl. & Fr.: August-December; Twiner; Wild; exsic. /reference: FWB (4), 2019.
- Rivea ornata* (Roxb.) Choisy, Mem. Soc. Phys. Geneva 6 (2): 409. 1834. Fl. & Fr.: August-

December; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.

Strictocardia tiliifolia (Desr.) Hallier f., Bot. Jahrb. Syst. 18: 159. 1894 (1893). Fl. & Fr.: November-March; Twiner; Cultivated; exsic./ reference: FWB (4), 2019.

CUCURBITACEAE

Benincasa hispida (Thunb.) Cogn. in A. DC. Monogr. Phan. 3: 513. 1881. Vernacular name: Chalkumra. Fl. & Fr.: September-January; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.

Citrullus lanatus (Thunb.) Matsum. & Nakai in Cat. Sem. Spor. Hort. Bot. Univ. Imp. Tokyo 1916: 30, no. 854. 1916. Vernacular name: Tormuj. Fl. & Fr.: April-July; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.

Coccinia grandis (L.) Voigt Hort. Suburb. Calcutt. 59. 1845. Vernacular name: Telakucha. Fl. & Fr.: March-December; Tendril climber; Wild; exsic./ reference: FWB (2), 2015; FBD, 1994; FHD, 1979.

Corallocarpus epigaeus (Rottler) C.B. Clarke in Hook.f., Fl. Brit. India 2: 628. 1879. Vernacular name: Futi. Fl. & Fr.: March-December; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015.

Cucumis melo L., Sp. Pl. 1011. 1753. Vernacular name: Kakur. Fl. & Fr.: June-August; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.

Cucumis sativus L., Sp. Pl. 1012.1753.

Vernacular name: Sasa. Fl. & Fr.: May-October; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.

Cucurbita maxima Duch. ex Lam., Encycl. 2: 151. 1786. Vernacular name: Mitha Kumra. Fl. & Fr.: March-August; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.

Cucurbita moschata Duch., Essai Hist. Nat. Courges 7, 15-16 .1786. Vernacular name: Kumra. Fl. & Fr.: March-December; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015.

Diplocyclos palmatus (L.) C. Jeffrey in Kew Bull. 15: 352. 1962. Vernacular name: Mala. Fl. & Fr.: July-February; Tendril climber; Wild; exsic./ reference: FWB (2), 2015; FBD, 1994; FMD, 1984; FHD, 1979.

Lagenari siceraria (Molina) Standl. In Publ. Field Mus. Nat. Hist. Bot. Ser. 3(3): 435. 1930. Vernacular name: Lau. Fl. & Fr.: July-March; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.

Luffa acutangula (L.) Roxb., Fl. Ind. (Ed Carey) 3: 713. 1832. Vernacular name: Jhinga. Fl. & Fr.: June-December; Tendril climber; Wild; exsic./ reference: FWB (2), 2015.

Luffa cylindrica M. Roem., Fam. Nat. Monogr. 2: 64. 1846. Vernacular name: Purul, Dhundul. Fl. & Fr.: Jule -September; Tendril climber; Wild; exsic./ reference: FWB (2), 2015.

Momordica charantia L., Sp. Pl. (ed.1)1009.

1753. Vernacular name: Karala, Ucheche. Fl. & Fr.: July-November; Tendril climber; Wild & Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994; FHD, 1979.

Momordica cochinchinensis (Lour.) Spreng., Syst. Veg. 3: 14. 1826. Vernacular name: Golkakra, Kakrole. Fl. & Fr.: August-December; Tendril climber; Wild & Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994; FHD, 1979.

Momordica dioica Roxb. ex Willd., Sp. Pl. 4: 605. 1805. Vernacular name: Ban karela. Fl. & Fr.: June-October; Tendril climber; Wild; exsic./ reference: FWB (2), 2015; FBD, 1994; FHD, 1979; FMD, 184.

Mukia maderaspatana (L.) M. J. Roemer, Fam. Nat. Syn. Mon. 2: 47. 1846. Vernacular name: Bilari. Fl. & Fr.: July-December; Tendril climber; Wild; exsic./ reference: FWB (2), 2015; FMD, 1984.

Sechium edule (Jacq.) Sw., Fl. Ind. Occid. 2 (2): 1150. 1800. Vernacular name Squash. Fl. & Fr.: August-February; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015.

Solena amplexicaulis (Lam.) Gandhi in Saldanha & Nicolson, Fl. Hassan Dist. 179. 1976. Vernacular name: Kundri. Fl. & Fr.: June-December; Tendril climber; Wild; exsic./ reference: FWB (2), 2015; FMD, 1984.

Trichosanthes anguina L., Sp. Pl. 1008. 1753. Vernacular name: Chichinga. Fl. & Fr.: June-August; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FMD, 1984.

Trichosanthes cucumerina L., Sp. Pl. 1008. 1753. Vernacular name: Chichinga. Fl. & Fr.: June-October; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FMD, 1984; FHD, 1979.

Trichosanthes dioica Roxb., Fl. Ind. (Ed. Carey) 3:701. 1832. Vernacular name: Patol. Fl. & Fr.: April-October; Tendril climber; Wild & Cultivated; exsic./ reference: FWB (2), 2015; FMD, 1984.

Trichosanthes tricuspidata Lour., Fl. Cochinch. 589. 1790. Vernacular name: Bishala, Makal. Fl. & Fr.: July-December; Tendril climber; Wild & Cultivated; exsic./ reference: FWB (2), 2015; FMD, 1984.

Zanonia indica L., Sp. Pl. (ed. 2) 1457.1763. Vernacular name: Bishala, Makal. Fl. & Fr.: September-January; Tendril climber; Wild; exsic./ reference: FWB (2), 2015; FMD, 1984.

CUSCUTACEAE

Cuscuta campestris Yunk., Mem. Torrey Bot. Club 18 (2): 138. 1932. Vernacular name: Swarnalata. Fl. & Fr.: June-August; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Cuscuta chinensis Lam., 2: 229. 1786. Vernacular name: Swarnalata. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FWB (4), 2019.

Cuscuta reflexa Roxb., Pl. Coromandel 2: 3, pl. 104. 1798. Vernacular name: Swarnalata. Fl. & Fr.: October-March; Twiner; Wild; exsic./ reference: FWB (4), 2019; FBD, 1994.

Cuscuta sharmanum Mukh. et P.K. Bhattach.,

Bull. Bot. Soc. Bengal 24 149. 1971 (1970).
Fl. & Fr.: November; Twiner; Wild; exsic./
reference: FWB (4), 2019.

EUPHORBIACEAE

Croton caudatus Geiseler, Croton. Monogr.:
73.1807. Vernacular name: Nan bhantur. Fl. &
Fr.: January-December; Scrambler; Wild;
exsic./ reference: FWB (4), 2019.

Croton persimilis Muoll. Arg., Linnaea 34:
116. 1865. Vernacular name: Akh-nedeu. Fl.
& Fr.: January-December; Scrambler; Wild;
exsic./ reference: FWB (4), 2019.

Tragia hispida Willd., Sp. Pl. ed. 4, 4: 323.
1805. Fl. & Fr.: August-March; Twiner; Wild;
exsic./ reference: FWB (4), 2019; FMD, 1984.

Tragia involucrata L., Sp. Pl. 980. 1753.
Vernacular name: Bichuti. Fl. & Fr.: March-
December Bichuti; Twiner; Wild; exsic./
reference: FWB (4), 2019; FBD, 1994; FMD,
1984.

Tragia practerissa Chakrab. & N.P. Balakr.,
Rheedea 16: 23, ff.2-3.2006. Fl. & Fr.: August-
March; Twiner; Wild; exsic./ reference: FWB
(4), 2019.

FABACEAE

Abrus precatorius L., Syst.Nat.ed. 12, 2: 472.
1767. Vernacular name: Kunch phal (Red). Fl.
& Fr.: August-February; Twiner; Wild; exsic./
reference: FWB (2), 2015.

Acacia caesia (L.) Willd., Sp. Pl. 4 (2): 1090.
1806. Vernacular name: Kendrojamun. Fl. &
Fr.: March-April; Hook-climber; Wild; exsic./
reference: FWB (2), 2015.

Acacia intsia (L.) Willd., Sp. Pl. 4:1091. 1806.
Vernacular name: Shaih Kanta. Fl. & Fr.: June-
January; Hook-climber; Wild; exsic./ reference:
FWB (2), 2015.

Acacia pennata (L.) Willd., Sp. Pl. 4(2):1090.
1806 Vernacular name: Undaru. Fl. & Fr.: May-
February; Hook-climber; Wild; exsic./
reference: FWB (2), 2015.

Acacia sinuata (Lour.) Merr. in Trans. Amer.
Philos. Soc. Philadelphia 24:186. 1935.
Vernacular name: Bon ritha. Fl. & Fr.: April-
February; Hook-climber; Wild; exsic./
reference: FWB (2), 2015.

Butea superba Roxb., in Asiat. Res. 3: 473-
474. 1792. Vernacular name: Lata-palas. Fl. &
Fr.: February-June; Liana; Wild; Wild; exsic./
reference: FWB (2), 2015.

Caesalpinia bonduc (L.) Roxb., Fl. Ind. (Ed.
Carey) 2: 362. 1832, p.p., excl. Pl. Descr.,
emend. Dandy & Excell. in J. Bot.
76:179.1938. Vernacular name: Lata, Nata. Fl.
& Fr.: August-April; Scrambler; Wild; exsic./
reference: FWB (2), 2015.

Caesalpinia crista L., Sp. Pl. 380. 1753.
Vernacular name: Shingri-lota. Fl. & Fr.:
November-June; Scrambler; Wild; exsic./
reference: FWB (2), 2015.

Caesalpinia digyna Rottler in Ges. Naturf. Fr.
Berl. Neue Sehr. 4: 200, t. 3. 1803. Vernacular
name: Amal-kochi . Fl. & Fr.: September-
March; Scrambler; Wild; exsic./ reference:
FWB (2), 2015.

Cajanus crassus (Prain ex King) Maesen in

- Agric. Univ. Wageningen Papers 85 (4): 110. 1986 (1985). Fl. & Fr.: December-April; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Cajanus scarabaeoides* (L.) Thowars, Dict. Sci. Nat. (ed. 2) 6: 717,1817 (as '*Cajanus scarabaeoide*'). Vernacular name: Ban-arahar. Fl. & Fr.: August-April; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Canavalia africana* Dunn in Bull. Misc. Inform Kew 1922 (2): 135. 1922. Vernacular name: Kathsim . Fl. & Fr.: October-February; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Canavalia cathartica* Thouars in Desv. In J. Bot. 1: 81. 1813. (as '*catharticus*'). Vernacular name: Sim. Fl. & Fr.: August-December; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Canavalia ensiformis* (L.) DC., Prodr. 2: 404. 1825. Vernacular name: Kathsambal. Fl. & Fr.: August-December; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Canavalia gladiata* (Jacq.) DC., Prodr. 2: 404. 1825. Vernacular name: Sahebasim. Fl. & Fr.: December-June; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- **Canavalia lineata* (Thunb.) DC., Prodr. 2: 404. 1825. Fl. & Fr.: October-March; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- **Canavalia rosea* (Sw.) DC., Prodr. 2: 404. 1825. Fl. & Fr.: November-February; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Clitoria ternatea* L., Sp. Pl. 753. 1753. Vernacular name: Aparajita. Fl. & Fr.: Throughout the year; Twiner; Wild & Cultivated; exsic./ reference: FWB (2), 2015; FHD, 1979.
- **Dalbergia candenatensis* (Dennst.) Prain in J. Asiat. Soc. Bengal, Pt.2, Nat. Hist. 70: 49. 1901. Fl. & Fr.: May-November; Liana; Wild; exsic./ reference: FWB (2), 2015.
- Dalbergia spinosa* Roxb. Fl. Ind. (Ed. Carey) 3: 233. 1832. Fl. & Fr.: May- October; Liana; Wild; exsic./ reference: FWB (2), 2015; FHD, 1979.
- Dalbergia stipulacea* Roxb. Fl. Ind. (Ed. Carey) 3: 233. 1832. Fl. & Fr.: April-February; Liana; Wild; exsic./ reference: FWB (2), 2015.
- Dalbergia volubilis* Roxb. Pl. Coromandel 2: 48, t. 191. 1798. Vernacular name: Latmunga. Fl. & Fr.: January-May; Liana/ Hook-climber; Wild; exsic./ reference: FWB (2), 2015; FBD, 1994.
- Derris marginata* (Roxb.) Benth. in Miq., Pl. Jungh. 1: 252, 1852. Fl. & Fr.: October-March; Twiner; Cultivated; exsic./ reference: FWB (2), 2015.
- **Derris scandens* (Roxb.) Benth. in J. Linn. Soc., Bot. 4 (Suppl.) 103. 1860. Vernacular name: Noalata. Fl. & Fr.: June-December; Liana; Wild; exsic./ reference: FWB (2), 2015; FBD, 1994; FHD, 1979.
- **Derris trifoliata* Lour., Fl. Cochinch. 2: 433. 1790. Vernacular name: Panlata. Fl. & Fr.: April-October; Liana; Wild; exsic./ reference:

- FWB (2), 2015; FHD, 1979.
- Endosamara racemosa* (Roxb.) R. Geesink, Leiden Bot. Ser. 8: 93. 1984. Fl. & Fr.: May-February; Liana; Wild; exsic./ reference: FWB (2), 2015.
- Galactia longifolia* (Jacq.) Benth., Comm. Legum Gen. 63. 1837. Fl. & Fr.: September-November; Liana; Wild; exsic./ reference: FWB (2), 2015.
- Galactia tenuiflora* (Kleen ex Willd.) Wight & Arn., Prodr. Fl. Ind. Orient. 206. 1834. Fl. & Fr.: February-April; Liana; Wild; exsic./ reference: FWB (2), 2015.
- Lablab purpureus* (L.) Sweet, Hort. Brit. 2: 481. 1826. Vernacular name: Shim; Fl. & Fr.: March-June; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Lathyrus aphaca* L., Sp. Pl. 729. 1753. Vernacular name: Jungli Matar; Fl. & Fr.: January-March; Tendril climber; Wild; exsic./ reference: FWB (2), 2015.
- Lathyrus sativa* L., Sp. Pl. 730. 1753. Vernacular name: Khesari; Fl. & Fr.: December-March; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.
- Macrotyloma cicliatum* (Willd.) Verlc. In Kew Bull. 24: 404. 1970. Fl. & Fr.: December; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Milletia extensa* Benth. In MIq., Pl. Jungh. 2: 249. 1852. March-March; Liana; Wild; exsic./ reference: FWB (2), 2015.
- Mimosa pudica* L. Var. *pudica*, Sp. Pl. 518. 1753. Vernacular name: Lajjabati lata; Fl. & Fr.: March-November; Scrambler; Wild; exsic./ reference: FWB (2), 2015.
- **Mucuna gigantea* (Willd.) DC., Prodr. 2: 405. 1825. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Mucuna pruriens* (L.) DC., Prodr. 2: 405. 1825. Vernacular name: Alkushi; Fl. & Fr.: August-April; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Pachyrhizus erosus* (L.) Urb., Symb. Antill. 4 (2): 311. 1905. Vernacular name: Sankalu; Fl. & Fr.: October-January; Liana; Cultivated; exsic./ reference: FWB (2), 2015.
- Phanera vahlii* (Wight & Arn.) Benth. in Miq., Pl. Jungh. 263. 1852. Vernacular name: Chirullata; Fl. & Fr.: March-December; Liana; Wild; exsic./ reference: FWB (2), 2015; FBD, 1994.
- Pisum sativum* L., Sp. Pl. 727. 1753. Vernacular name: Matar; Fl. & Fr.: March-July; Tendril climber; Cultivated; exsic./ reference: FWB (2), 2015.
- Pueraria phaseoloides* (Roxb.) Benth. var *subspicata* (Benth.) Maesen. in Agric. Univ. Wageningen Pap. 85. (1): 84. 1985. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Pueraria tuberosa* (Roxb. ex Willd.) DC., in Ann. Sci. Nat. Bot. 4: 97. 1825. Fl. & Fr.: February-June; Liana; Wild; exsic./ reference: FWB (2), 2015.

- Rhynchosia minima* (L.) DC., Prodr. 2: 385. 1825. Fl. & Fr.: September-October; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Spatholobus parviflorus* (Roxb. ex DC.) Kuntze, Revis. Gen. Pl. 1: 205. 1891. Fl. & Fr.: January-March; Liana; Wild; exsic./ reference: FWB (2), 2015.
- Teramnus flexilis* Benth. in J. Linn. Soc., Bot. 8: 265. 1865. Fl. & Fr.: October-April; Twiner; Cultivated; exsic./ reference: FWB (2), 2015.
- Teramnus hookerianus* A. Sen in Bombay Nat. Hist. Soc. 73 : 187. 1976. Fl. & Fr.: October-April; Twiner; Wild; exsic./ reference: in Linn. Soc., Bot. 8: 265. 1865. FWB (2), 2015.
- Teramnus labialis* Spreng., Syst. Veg. 3: 235. 1826. Vernacular name: Mashani. Fl. & Fr.: October-April; Twiner; Wild; exsic./ reference: FWB (2), 2015; FBD, 1994.
- Teramnus mollis* Benth. in J. Linn. Soc., Bot. 8: 265. 1865, non *Glycine mollis* Wight & Arn., Prodr. Fl. Orient. 209. 1834. Fl. & Fr.: August-November; Twiner; Wild; exsic./ reference: FWB (2), 2015; FHD, 1979.
- Vicia hirsuta* (L.) Gray in Nat. Arr. Brit. Pl. 2: 614. 1821. Vernacular name: Masur-chana; Fl. & Fr.: December-February; Twiner; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.
- Vicia sativa* L., Sp. Pl. 736. 1753. Vernacular name: Ankari; Fl. & Fr.: December-March; Twiner; Cultivated; exsic./ reference: FWB (2), 2015; FBD, 1994.
- Vigna adenanthus* (G.F. Meyer) Marechal et al. in Taxon 27: 202. 1978. Vernacular name: Ban-barbati; July-November; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Vigna aconitifolia* (Jacq.) Marechal in Bull. Jard. Bot. Natl. Belg. 39 (2): 160. 1969. Vernacular name: Kheri; Fr.: November; Twiner; Cultivated; exsic./ reference: FWB (2), 2015.
- **Vigna luteola* (Jacq.) Benth. in Mart., Fl. Bras. 15 (1B): 194, t. 50, f. 2. 1859. Fr.: March; Twiner; Wild; exsic./ reference: FWB (2), 2015.
- Vigna radiata* var. *setulosa* (Dalz.) Ohwi & H. Ohashi in Jap. Bot. 44 (1): 31. 1969. 17: 172. 1968. Vernacular name: Ghora-mung; Fl. & Fr.: October; Twiner; exsic./ reference: FWB (2), 2015.
- Vigna trilobata* (L.) Verdc. in Taxon 17: 172. 1968. Vernacular name: Mugani; Fl. & Fr.: Throughout the year; Twiner; exsic./ reference: FWB (2), 2015.
- Vigna umbellata* (Thunb.) Ohwi & H. Ohashi in J. Bot. 44: 31. 1969. Fl. & Fr.: September-November; Twiner; exsic./ reference: FWB (2), 2015.

LAURACEAE

- Cassytha filiformis* L., Sp. Pl. 35. 1753. Vernacular name: Akash-bel. Fl. & Fr.: May-December; Twiner; Wild; exsic./ reference: FWB (4), 2019.

MALPIGHIACEAE

- Hiptage benghalensis* (L.) Kurz. in J. asiat. Soc. Bengal 43, II: 136. 1874. Vernacular

name: Laghupata. Fl. & Fr.: May-November; Liana; Cultivated; exsic./ reference: FWB (4), 2019.

MENISPERMACEAE

Cissampelos pareira L. var. *hirsuta* (Buch.-Ham. ex DC.) Forman in Kew Bull. 22 (3): 356. 1968. Vernacular name: Akanadi, Nimuka. Fl. & Fr.: May-November; Twiner; Wild; exsic./ reference: FWB (1), 1997.

Cocculus hirsutus (L.) Diels in Engler, Pflanzenr. IV. Heft 46: 236. 1910. Vernacular name: Huver. Fl. & Fr.: July-September; Twiner; Wild; exsic./ reference: FWB (1), 1997; FMD, 1984.

Stephania japonica (Thunb.) Miers. var. *discolour* (Bl.) Forman in Kew Bull. 1956: 56. 1957. Vernacular name: Kanadi. Fl. & Fr.: March-December; Twiner; Wild; exsic./ reference: FWB (1), 1997; FMD, 1984.

Tiliacora acuminata (Lam.) Hook.f. & Thoms., Fl. Ind. 187. 1855. Vernacular name: Tiliacora. Fl. & Fr.: April-December; Liana; Cultivated; exsic./ reference: FWB (1), 1997; FMD, 1984.

Tinospora cordifolia (Willd.) Miers. ex Hook.f. & Thoms. Vernacular name: Gulancha, Gharol. Fl. & Fr.: June-February; Twiner; Wild; exsic./ reference: FWB (1), 1997; FMD, 1984.

Tinospora sinensis (Lour.) Merr. in Sunyatsenia 1: 193. 1934 et in Trans. Amer. Philos. Soc. N.s. 24 (2): 158. 1935. Vernacular name: Padmagulancha. Fl. & Fr.: February-July; Twiner; Wild; exsic./ reference: FWB (1),

1997.

NYCTAGINACEAE

Boerhavia diffusa L., Sp. Pl. 1:3.1753. Vernacular name: Punarnava. Fl. & Fr.: Throughout the year; Rambler; Wild; exsic./ reference: FWB (4), 2019; FHD, 1979.

Bougainvillea spectabilis Willd., Sp. Pl. ed. 4, 2: 348. 1799. Vernacular name: Bagan-bilas. Fl. & Fr.: April-October; Scrambler; Wild; exsic./ reference: FWB (4), 2019.

OLEACEAE

Jasminum sambac (L.) Aiton, Hort. Kew, 1: 8. 1789. Vernacular name: Belphul. Fl. & Fr.: April-August; Twiner; Cultivated; exsic./ reference: FWB (3), 2016; FMD, 1984.

PASSIFLORACEAE

Passiflora edulis Sims in Curtis, Bot. Mag. 45: t. 1989. 1818. Vernacular name: Begambahar. Fl. & Fr.: May-November; Tendril climber; Wild; exsic./ reference: FMD, 1984.

Passiflora foetida L., Sp. Pl. 959. 1753. Vernacular name: Begambahar. Fl. & Fr.: April-December; Tendril climber; Wild; exsic./ reference: FWB (3), 2016; FMD, 1984.

Passiflora suberosa L., Sp. Pl. 958. 1753. Vernacular name: Jhumkalata. Fl. & Fr.: April-December; Tendril climber; Wild; exsic./ reference: FMD, 1984.

PIPERACEAE

Piper betle L., Sp. Pl. 1: 28. 1753. Vernacular name: Paan. Fl. & Fr.: May-June; Root-climber; Cultivated; exsic./ reference: Prain,

1903.

Piper longum L., Sp. Pl. 1:29.1753. Vernacular name: Pipul. Fl. & Fr.: January-August; Root-climber; Cultivated; exsic./ reference: FWB (4), 2019.

Piper nigrum L., Sp. Pl. 1: 28. 1753. Vernacular name: Golmorich, Kalomorich Fl. & Fr.: May-August; Root-climber; Wild & Cultivated; exsic./ reference: FWB (4), 2019.

POLYGONACEAE

Antigonon leptopus Hook. & Arn., Bot. Beechey Voy.: 308, pl. 69. 1838. Vernacular name: Raillata .Fl. & Fr.: June-February; Twiner; Wild; exsic./ reference: FWB (4), 2019.

RANUNCULACEAE

Clematis gouriana Roxb. ex DC., Syst. Nat. 138.1817. Fl. & Fr.: May-August. Petiole climber; Wild; exsic./ reference: FWB (1), 1997.

Naravelia zeylanica (L.) DC., Syst. 1: 167. 1817. Vernacular name: Chaulbati, Chhagulbati. Fl. & Fr.: February-September; Twiner; Wild; exsic./ reference: FWB (1), 1997; FMD, 1984.

RHAMNACEAE

Gouania tiliaefolia Lamk. Encycl. 3: 5.1789. 3: 417. Fl. & Fr.: August-December; Liana; Wild; exsic./ reference: FWB (1), 1997; FHD, 1979.

Ventilago denticulata Willd., Ges. Natur. f. Neue. Schr. 3: 417. 1801. Vernacular name:

Ruktupita. Fl. & Fr.: September-June; Liana; Wild; exsic./ reference: FWB (1), 1997; FHD, 1979.

Zizyphus oenoplia (L.) Mill., Gard. Dict. ed. 8. n. 3. 1768. Vernacular name: Gangal kus. Fl. & Fr.: April-December; Scrambler; Wild; exsic./ reference: FWB (1), 1997.

RUBIACEAE

Paederia foetida L., Mant. Pl. 1: 52. 1767. Vernacular name: Gandal pata. Fl. & Fr.: August-October; Twiner; Wild; exsic./ reference: FWB (3), 2016.

RUTACEAE

Toddalia asiatica (L.) Lamk., Illus. 2: 116. 1793. Vernacular name: Kadatodali. Fl. & Fr.: April -October; Scrambler; Wild; exsic./ reference: FWB (1), 1997.

SAPINDACEAE

Cardiospermum halicacabum L., Sp. Pl. 366. 1753. Vernacular name: Shibjhul; Latapthaki. Fl. & Fr.: Throughout the year; Tendril climber; Wild; exsic./ reference: FWB (1), 1997.

SOLANACEAE

Solanum trilobatum L., Sp. Pl. 1: 118. 1753. Vernacular name: Lata-begun. Fl. & Fr.: Throughout the year; Scrambler; Wild; exsic./ reference: FWB (4), 2019; FMD, 1984.

VERBENACEAE

Clerodendrum inerme (L.) Gaertn., Fruct. Sem. Pl. 1: 271. 1788. Vernacular name: Bat-raj . Fl. & Fr: June-August; Scrambler; Wild & Cultivated; exsic./ reference: FWB (4),

2019; FMD, 1984.

Holmskioldia sanguinea Retz. Observ. Bot. 6: 31. 1791. Vernacular name: Kapri. Fl. & Fr.: Throughout the year; Scrambler; Wild; exsic./ reference: FWB (4), 2019.

Petrea volubilis L., Sp. Pl. 626. 1753. Fl. & Fr.: March-October; Twiner, Liana; Cultivated; exsic./ reference: *Bolpur*, 15.

VITACEAE

Ampelocissus latifolia (Roxb.) Planch. In J. Vigne Amer. 8: 374. 1884. 1820. Vernacular name: Gowalia-lata. Fl. & Fr.: May-November; Twiner; Wild; exsic./ reference: FWB (1), 1997; FHD, 1979.

Ampelocissus tomentosa (Roth) Planch. J. Vigne Amer. Vitic. Eur. 8: 37. Vernacular name: Kanan-lata. Fl. & Fr.: July-December; Liana; Wild; exsic./ reference: FWB (1), 1997.

Cayratia pedata (Lam.) Juss. ex Gagnep. in Not. Syst. 1: 346. 1911. Vernacular name: Goali-lata. Fl. & Fr.: April-October; Tendril climber; Wild; exsic./ reference: FWB (1), 1997; FHD, 1979.

Cayratia trifolia (L.) Domin., Biblioth. Bot. 89: 371. 1927. Vernacular name: Amal-lata. Fl. & Fr.: June-November; Tendril climber; Wild; exsic./ reference: FWB (1), 1997; FHD, 1979.

Cissus adnata Roxb., Fl. Ind. Ed. Carey 1:405. 1820. Vernacular name: Pania lata. Fl. & Fr.: March-September; Liana; Wild; exsic./ reference: FWB (1), 1997; FHD, 1979.

Cissus heyneana (Wt. & Arn.) Planch. in DC.

Monog. Phan. 5. 476. 1887. Fl. & Fr.: March-September; Liana; Wild; exsic./ reference: FWB (1), 1997.

Cissus quadrangularis L. Mant. 39. 1767. Vernacular name: Harbhanga, Harjora. Fl. & Fr.: February-October; Tendril climber; Wild & Cultivated; exsic./ reference: FWB (1), 1997; FHD, 1979.

Vitis vinifera L., Sp. Pl. 202. 1753. Vernacular name: Angur Phal. Fl. & Fr.: October-March; Tendril climber; Wild & Cultivated; exsic./ reference: FWB (1), 1997.

MONOCOTYLEDONS

ARACEAE

Scindapsus officinalis (Roxb.) Schott, Melemtem. 1: 21. 1832. Vernacular name: Gajpipul. Fl. & Fr.: May-November; Root-climber; Wild; exsic./ reference: FBD, 1994.

ASPARAGACEAE

Asparagus adscendens Roxb. Vernacular name: Maha satbari. Fl. & Fr.: September-November; Twiner; Cultivated; exsic./ reference: FBD, 1994.

Asparagus racemosus Willd., Sp. Pl. 2: 152. 1799. Vernacular name: Satamuli. Fl. & Fr.: September-November; Twiner; Cultivated; exsic./ reference: FBD, 1994; FMD, 1984.

DIOSCOREACEAE

Dioscorea alata L. Vernacular name: Khamalu, Chupri alu. Fl. & Fr.: August-December; Twiner; Cultivated; exsic./ reference: FBD, 1994; FMD, 1984.

Dioscorea belophylla Voigt, Hort. Suburb, Calc. 653. 1845. Fl. & Fr.: September-March; Twiner; Wild; exsic./ reference: FBD, 1994.

Dioscorea bulbifera L. Sp. Pl. 1033.1753. Vernacular name: Banalu . Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FBD,1994; FMD, 1984.

Dioscorea esculenta (Lour.) Burkill in Gard. Bull. Singapore 1: 396. 1917. Vernacular name: Susni Alu. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FMD, 1984; FHD, 1979.

Dioscorea glabra Roxb., Fl. Ind. 3: 803. 1832. Vernacular name: Shora Alu. Fl. & Fr.: September-December; Twiner; Wild; exsic./ reference: FMD, 1984; FHD, 1979.

Dioscorea hamiltoni Hook.f. in Fl. Brit. India. 6: 295. 1892. Fl. & Fr.: August-December; Twiner; Wild; exsic./ reference: FBD, 1994.

Dioscorea hispida Dennst. Schluss. Hort. Malab. 15. 1818. Vernacular name: Chuskalu. Fl. & Fr.: July-September; Twiner; Wild; exsic./ reference: FBD, 1994; FHD, 1979.

Dioscorea oppositifolia L., Sp. Pl. 1033, 1753. Fl. & Fr.: September-November; Twiner; Wild; exsic./ reference: FBD, 1994.

Dioscorea pentaphylla L., Sp. Pl. 1032. 1753.

Fl. & Fr.: August-December; Twiner; Wild; exsic./ reference: FMD, 1984; FHD,1979.

Dioscorea puber Blume, En. Pl. Jav.1: 21. 1829. Vernacular name: Kukur Alu. Fl. & Fr.: October-January; Twiner; Wild; exsic./ reference: FBD, 1994.

LILIACEAE

Gloriosa superba L. Sp. Pl. 305. 1753. Vernacular name: Ulatchandal. Fl. & Fr.: July-September; Rambler; Wild & Cultivated; exisc./ reference: FBD, 1994.

POACEAE

Panicum repens L., Sp. Pl., ed. 2, 1:87.1762. Fl. & Fr.: November-January; Twiner; Wild; exsic./ reference: Chandrakona, 42.

SMILACACEAE

Smilax zeylanica L. Sp. Pl. 1029. 1753. Vernacular name: Kumarika. Fl. & Fr.: June-December; Tendril -climber; Wild; exsic./ reference: FBD, 1994.

PTERIDOPHYTE

LYGODIACEAE

Lygodium pinnatifidum Sw., J. Bot. 303. 1803. Vernacular name: Berajal, Bhutraaj. Fl. & Fr.: June-December; Twiner; Wild; exsic./ reference: FBD, 1994.

Table 1. Numerical analysis in climbers of the southern part of West Bengal:

Family		Genus	Species
Dicots	34	134	226
Monocots	06	07	16
Pteridophyte	01	01	01
Total	41	142	243

Table 2. Categories of climber and their numbers:

Categories of climber	Number of species
Twiners	152
Tendrill-climbers	35
Liana	25
Scramblers	13
Root-climbers	07
Hook-climbers	05
Ramblers	05
Petiole-climber	01
Total	243

Discussion

The diversity of the climbing plants in southern part of West Bengal including Sundarbans of India can be understood from the analyses of the taxa and the climber categories presented in the above checklist and Tables 1 and 2. As many as 243 species of climbers have been check-listed in this article. The dominant families containing considerable number of climber species are Fabaceae, Convolvulaceae, Cucurbitaceae, Asclepiadaceae, and Dioscoreaceae. The varied life-form types of the climbers are noteworthy, and twiner is the largest group comprising 152 species (Table 2). The data presented here might be helpful for a better appraisal of the structure of vegetation in this region and in other phytogeographic regions as well.

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