



A CHECKLIST OF *Ficus* L. OF BIHAR, JHARKHAND, CHHATTISGARH, MADHYA PRADESH AND WEST BENGAL *Ficus* L. OF BIHAR, JHARKHAND, CHHATTISGARH, MADHYA PRADESH AND WEST BENGAL: A CHECKLIST

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ABSTRACT

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The present study provides a checklist of the members of genus *Ficus* found in Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh and West Bengal. A total of 58 taxa of *Ficus* have been enlisted along with phenology and distribution at district level of each taxa is provided. Eleven taxa are distributed in all the 5 states and maximum number members are found in West Bengal (46 taxa), followed by Jharkhand (25 taxa), Chhattisgarh and Madhya Pradesh (20 taxa each) and Bihar (19 taxa).

KEYWORDS: Angiosperm; *Ficus*; Flora; Diversity; Ecosystem.

INTRODUCTION

Gasparrini (1945) had subdivided the genus *Ficus* into many genera. Later, Miquel (1867) studied about 550 species recognized at that time and subdivisions were merged. Major work on *Ficus* was done by Corner (1958), he revised Asian, Australian and Malesian *Ficus*. In 1965, he revised classification of the genus and also published a check-list of the Asian and Australian members (Corner, 1965). DeWolf (1960, 1975) worked on neotropical *Ficus* flora in Flora of Panama and Flora of Surinam. Berg (1989, 1990) regrouped the main subdivisions of Corner's classification on the basis of morphological characters, reproduction traits and pollination systems. Structure of reproductive organs and pollination system play significant role in the evolution; therefore, this study is quite helpful in the understanding evolutionary relationship among the members of genus *Ficus*. Berg (1989) has recognized two main group in the genus, first group subgenera *Pharmacosycea* and *Urostigma* are monoecious with pistillate flowers, imperfect heterostyly and filiform stigma. Second group *Sycidicum* and *Sycomorus* is confined to old world, it includes mostly dioecious (except 15 monoecious species), flowers are perfect heterostyly and seeds formed in ovary. According to APG IV system of classification, genus *Ficus* is classified under family Moraceae and order Rosales. World-wide genus *Ficus* has 880 accepted species, more than 500 species of *Ficus* are in Asia and Australia and it is the most diverse flora with dominance of dioecious species, in Africa (including Madagascar and adjacent groups of islands) there are 105 species (Berg, 1989; Chase et al, 2016).

Literature survey shows that first taxonomic account on Indian *Ficus* L. is published by King (1887-88), he recorded 113 species and 47 infraspecific taxa in British India, of them 75 species are from present India. In Bentham and Hooker's (1860) volume, King (1888) had published 112 species in undivided British India (not included 23 names). Some state/UT level publications on enlisting of Indian *Ficus* were made by Khanna (1996), Mudgal et al. (1997), Singh et al. (2001), Pandey and Diwakar (2008) and Lakshminarasimhan et. al. (2019). Indian *Ficus* was enlisted by Chaudhary et al. (2012) and published 115 taxa (89 species and 26 infraspecific taxa), of them only 10 taxa have been recorded as endemic. They divided genus in to six subgenera and 12 sections and documented distribution of the genus at national level. Chaudhary et al. (2012) mentioned that Meghalaya in the North-East region has very rich diversity of *Ficus* as far as the number of species is concerned. Recently, Dash and Mao (2020) have reported 96 species and 12 infraspecific taxa in India. The objective of the present study was to document distribution of the members *Ficus* in the state of Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh and West Bengal.

METHODOLOGY

The distribution of *Ficus* was documented with the help of relevant literatures like, Flora of British India (Bentham and Hooker, 1890), A Forest flora of Chotanagpur including Gangpur and the Santal Parganahs – A description of all the indigenous trees, shrubs and climbers, the principal economic herbs, and most common cultivated trees and shrubs (Haines, 1910), The Botany of Bihar and Orissa: An account of all the

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known indigenous plants of the province and of the most important or most commonly cultivated exotic ones with maps and introduction (Haines, 1921 – 1925), Moraceae in Madhya Pradesh (Khanna, 1996), Check-list of *Ficus* in Asia and Australasia with keys to identification (Corner, 1965), Flora of Tamil Nadu (Henry et al., 1987), Flowering plants of India: An annotated (Dash and Mao, 2020), Flora of West Bengal (Lakshminarasimhan et al., 2019), Flora of Madhya Pradesh (Mudgal et al., 1997), An Integrated Check - list of Andaman and Nicobar Islands (Pandey and Diwakar, 2008), Flora of Bihar Analysis (Singh et al., 2001). Further, the data was updated and analysis has been done.

RESULTS AND DISCUSSION

Total 56 taxa have been enlisted from Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh and West Bengal, and two subspecies. Eleven taxa are distributed in all the 5 states these are *Ficus arnottiana*, *Ficus benghalensis*, *Ficus microcarpa*, *Ficus mollis*, *Ficus palmata*, *Ficus racemosa*, *Ficus rigida*, *Ficus semicordata*, *Ficus tinctoria* subsp. *parasitica* and *Ficus virens*. Fig. 1 shows that maximum number members are found in West Bengal (46 taxa), followed by Jharkhand (25 taxa), Chhattisgarh and Madhya Pradesh (20 taxa each) and Bihar (19 taxa). Some of the taxa are economically important, fruits of *Ficus auriculata* are edible, inner bark of *Ficus altissima* are used in paper making, latex of *Ficus benghalensis* is used for rubber making, scale leaves of *Ficus geniculata* are used as vegetables, figs of *Ficus hispida* are used as vegetable, Juice of leaves and young parts of *Ficus religiosa* used as purgative and in skin diseases, *Ficus rumphii* is host of Lac insect, *Ficus virens* bark yield fiber, young shoots are vegetable and fruits are edible. All the 56 taxa are enumerated along with citations, phenology and distribution:

1. ***Ficus altissima*** Blume, Bijdr. Fl. Ned. Ind. 444. 1825; King in Hook.f., Fl. Brit. India 5: 504. 1888. *F. altissima* var. *laccifera* (Roxb.) Prain, Bengal Pl. 2: 724. 1903 [2: 734. 1963 (Repr.)]. *F. altissima* Blume f. *laccifera* (Roxb.) King in Hook.f., Fl. Brit. India 5: 504. 1888. *F. laccifera* Roxb., Fl. Ind. (Ed. Carey) 3: 545. 1832.
Fl. & Fr.: October – April. Distribution: West Bengal- Darjeeling, Jalpaiguri.
2. ***Ficus amplissima*** Sm. in Rees, Cyclop. 14: n. 68. 1810. *F. tsiela* Roxb. ex Buch.-Ham. in Trans. Linn. Soc. London 15: 149. 1826; King in Hook. f., Fl. Brit. India 5: 515. 1888; Haines, Bot. Bihar Orissa 832. 1924 (Repr. ed, 2: 872. 1961).

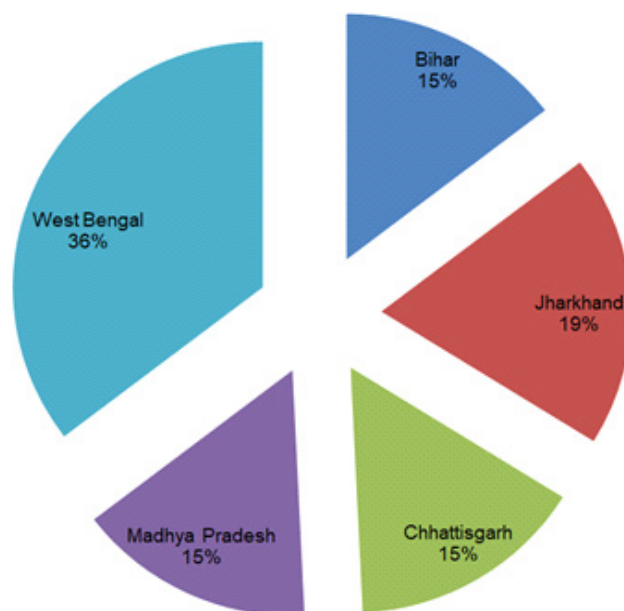


Fig. 1. Distribution of genus *Ficus* L. taxa in Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh and West Bengal.

- Fl. & Fr.: December – February. Distribution: Chhattisgarh- Bastar, Raipur; Jharkhand- Palamau.
3. ***Ficus arnottiana*** (Miq.) Miq., Ann. Mus. Lugd.-Bat. 3: 287. 1867; King in Hook.f., Fl. Brit. India 5: 513. 1888; Haines, Bot. Bihar Orissa 833. 1924 (Repr. ed., 3: 874. 1961). *Urostigma arnottianum* Miq. in Hook., Lond. J. Bot. 6: 564. 1847.
Fl. & Fr.: March – June. Distribution: Bihar- Gaya; Chhattisgarh- Bilaspur; Jharkhand- Giridih, Hazaribagh, Singhbhum; MP- Mandla, Panna, Satna, Seoni, Shahdol, Sidhi; West Bengal- Howrah, North Bengal.
 4. ***Ficus auriculata*** Lour., Fl. Cochinch. (ed. 2): 666. 1790; Corner in Gard. Bull. Singapore 18: 23. 1960; Bennet, Fl. Howrah Distr. 124. 1979. *F. roxburghii* Miq. in Ann. Mus. Bot. Lugduno-Batavum 6: 77. 1848; King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 168. pl. 211. 1887 & in Hook.f., Fl. Brit. India 5: 534. 1888; A.M. Cowan & Cowan, Trees N. Bengal 126. 1929.
Fl. & Fr.: April – October. Distribution: West Bengal- Burdwan, Darjeeling, Howrah.
 5. ***Ficus beddomei*** King in Ann. Royal Bot. Gard. Calcutta 1: 26. t. 24. 1887 & in Hook.f., Fl. Brit. India 5: 502. 1888.
Fl. & Fr.: January – April. Distribution: MP- Mandla.

6. **Ficus benghalensis** L., Sp. Pl. 1059. 1753; King in Hook.f., Fl. Brit. India 5:499. 1888; Haines, Bot. Bihar Orissa 834. 1924 (Repr. ed., 3: 874. 1961); Prain, Bengal Pl. 2: 735. 1963 (Repr.). *Urostigma bengalense* Gasp., Nov. Gen. Fic. 7. 1844.
Fl. & Fr.: Throughout the year. Distribution: Common in all the states.
7. **Ficus benjamina** L. var. **benjamina**, Mant. Pl. 1: 129. 1767; King in Ann. Roy. Bot. Gard. (Calcutta) 1: t. 52A. 1887 & in Hook.f., Fl. Brit. India 5: 508. 1888. *Urostigma benjamina* (L.) Miq. in London J. Bot. 6: 533. 1847. *Ficus nitida* Thunb., Ficus 10, 14. 1786. *F. retusa* L. var. *nitida* (Thunb.) Miq. in Ann. Mus. Bot. Lugduno-Batavum 3 (9): 267. 1867-1868; A.M. Cowan & Cowan, Trees N. Bengal 124. 1929. *F. retusa* forma *nitida* (Thunb.) King in Hook.f., Fl. Brit. India 5: 511. 1888. *F. retusa* L. var. *nitida* (Thunb.) Prain, Bengal Pl. 2: 731. 1903 [2: 735 (Repr.)].
Fl. & Fr.: October – April. Distribution: West Bengal-Darjeeling, Howrah, Jalpaiguri, South 24-Parganas.
8. **Ficus benjamina** L. var. **nuda** (Miq.) Barrett in Amer. Midi. Naturalist 45: 127. 1951. *Urostigma nudum* Miq. in Hook., Lond. J. Bot. 6: 584. 1847. *Ficus benjamina* L. var. *comosa* (Roxb.) Kurz, Forest Fl. Burma 2: 446. 1877; King in Hook.f., Fl. Brit. India 5: 508. 1888. *Ficus nitida* Thunb., Ficus 10, 14. 1786. *F. comosa* Roxb., Pl. Corom. 2: 14. t. 125. 1799; Haines, Bot. Bihar Orissa 828. 1924 (Repr. ed., 3: 868. 1961). *Ficus nitida* Thunb., Ficus 10, 14. 1786. *F. retusa* L. var. *nitida* (Thunb.) Prain, Bengal Pl. 2: 731. 1903 [2: 735 (Repr.)], an isonym. *Urostigma benjaminum* Miq. var. *nudum* (Miq.) Miq., London J. Bot. 1: 583. 1851.
Fl. & Fr.: February – May. Distribution: Bihar-West Champaran; Chhattisgarh- Bastar, Bilaspur, Raigarh, Surguja; Jharkhand-Hazaribagh, Singhbhum; West Bengal-South 24-Parganas.
9. **Ficus concinna** Miq. var. **subsessilis** Comer in Gard. Bull. Singapore 17: 376. 1959. *F. glabella* auct. non Blume, 1825; King in Hook.f., Fl. Brit. India 5: 511. 1888; Haines, Bot. Bihar Orissa 830. 1924 (Repr. ed., 2: 870. 1961).
Fl. & Fr.: April – June. Distribution: Chhattisgarh-Bastar; Jharkhand- Palamau, Ranchi, Singhbhum.
10. **Ficus conglobata** King, Ann. Roy. Bot. Gard. (Calcutta) 1: 99, pl. 123. 1888; A.M. Cowan & Cowan, Trees N. Bengal 125. 1929.
Fl. & Fr.: December. Distribution: West Bengal: 24-Parganas, Darjeeling.
11. **Ficus cuspidifera** Miq. in Hook., Lond. J. Bot. 7: 434. 1848; Haines, Bot. Bihar Orissa 835. 1924 (Repr. ed., 3: 875. 1961). *F. gibbosa* Blume var. *cuspidifera* (Miq.) King in Hook.f., Fl. Brit. India 5: 497. 1888.
Fl. & Fr.: November – January. Distribution: Jharkhand-Santal Pargana, Singhbhum.
12. **Ficus cupulata** Haines in Kew Bull. 1914: 155. 1914.
Fl. & Fr.: February – August. Distribution: MP-Hoshangabad.
13. **Ficus curtipes** Corner in Gard. Bull. Singapore 17: 397. 1959 & 21: 2. 1963; Grierson & D.G. Long, Fl. Bhutan 1(1): 94. 1983. *F. obtusifolia* Roxb., Fl. Ind. (Ed. Carey) 3: 546. 1832; King in Ann. Roy. Bot. Gard. (Calcutta) 1: 42, pl. 49. 1887 & in Hook.f., Fl. Brit. India 5: 507. 1888; A.M. Cowan & Cowan, Trees N. Bengal 124. 1929; Prain, Bengal Pl. 2: 734. 1963 (Repr.).
Fl. & Fr.: April – November. West Bengal-Darjeeling, Jalpaiguri.
14. **Ficus cyrtophylla** (Wall. ex Miq.) Miq. in Ann. Mus. Bot. Lugduno-Batavum 3: 282. 1867. *Covellia cyrtophylla* Wall. ex Miq. in London J. Bot. 7: 460. 1848. *F. obscura* sensu King in Hook. f., Fl. Brit. India 5: 521. 1888 & Ann. Roy. Bot. Gard. (Calcutta) 1: 81, pl. 103. 1888 (excl. pl. 102), non Blume, 1825; sensu A.M. Cowan & Cowan, Trees N. Bengal 125. 1929.
Fl. & Fr.: January – June. West Bengal- Darjeeling.
15. **Ficus drupacea** Thunb. var. **pubescens** (Roth) Corner in Gard. Bull. Singapore 17: 380. 1959. *F. mysorensis* Heyne ex Roth in Roem. & Schult., Syst. Veg. 1: 508. 1817; King in Hook.f., Fl. Brit. India 5: 500. 1888. *F. mysorensis* var. *pubescens* Roth in Roem. & Schult., Syst. Veg. 1: 508. 1817; King in Hook.f., Fl. Brit. India 5: 500. 1888. *Ficus drupacea* Thunb. var. *pubescens* (Roem. & Schult.) Corner in Gard. Bull. Singapore 17: 381. 1959; Grierson & D.G. Long, Fl. Bhutan 1(1): 96. 1983. *F. mysorensis* Heyne ex Roth var. *pubescens* Roem. & Schult., Syst. Veg. ed. 15 bis 1: 508. 1817. *Ficus drupacea* Thunb. var. *subrepanda* (Wall. ex King) D. Basu in J. Econ. Taxon. Bot. 20: 653. 1996. *F. mysorensis* B. Heyne ex Roth var. *subrepanda* Wall.

- ex King in Ann. Roy. Bot. Gard. (Calcutta) 1: 20, t. 15. 1887 & in Hook.f., Fl. Brit. India 5: 500. 1888; A.M. Cowan & Cowan, Trees N. Bengal 123. 1929. Fl. & Fr.: October – March. Distribution: MP-Sagar; West Bengal- Darjeeling, Howrah.
16. **Ficus drupacea** Thunb. var. **subrepanda** (Wall. ex King) D.Basu in J. Econ. Taxon. Bot. 20: 653. 1996. *F. mysorensis* B. Heyne ex Roth var. *subrepanda* Wall. ex King in Ann. Roy. Bot. Gard. (Calcutta) 1: 20, t. 15. 1887 & in Hook.f., Fl. Brit. India 5: 500. 1888; A.M. Cowan & Cowan, Trees N. Bengal 123. 1929. Fl. & Fr.: September – February. West Bengal- Darjeeling.
17. **Ficus exasperata** Vahl, Enum. Pl. 2: 197. 1805. *F. asperrima* Roxb., Fl. Ind. 3: 554. 1832; King in Hook.f., Fl. Brit. India 5: 522. 1888; Haines, Bot. Bihar Orissa 836. 1924 (Repr. ed., 2: 877. 1961). Fl. & Fr.: February – May. Distribution: Jharkhand- Chota Nagpur; MP- Hoshangabad.
18. **Ficus fruticosa** Roxb., Fl. Ind. 3: 533. 1832. Prain, Bengal. Pl. 2: 736. 1963 (Repr.). *F. scandens* Roxb., Fl. Ind. 3: 536. 1832, *non* Lam., 1788; King in Hook.f., Fl. Brit. India 5: 526. 1888; Haines, Bot. Bihar Orissa 837. 1924 (Repr. ed., 3: 878. 1961). Fl. & Fr.: January – July. Distribution: Bihar- West Champaran; Jharkhand- Hazaribagh, Lohardaga, Singhbhum; MP- Jabalpur; West Bengal- Darjeeling, Howrah.
19. **Ficus geniculata** Kurz, Forest Fl. Burma 2: 447. 1877; King in Hook.f., Fl. Brit. India 5: 516. 1888; Haines, Bot. Bihar Orissa 831. 1924 (Repr. ed., 3: 872. 1961); Prain, Bengal Pl. 2: 735. 1963 (Repr.). Fl. & Fr.: September – March. Distribution: Jharkhand-Singhbhum; West Bengal- Darjeeling, North Bengal.
20. **Ficus glaberrima** Blume, Bijdr. Fl. Ned. Ind. 451. 1825. King in Hook.f., Fl. Brit. India 5: 506. 1888; A.M. Cowan & Cowan, Trees N. Bengal 123. 1929; Prain, Bengal Pl. 2: 735. 1963 (Repr.). *Urostigma glaberrima* Miq., Fl. Ned. Ind. 1(2): 340. 1859. Fl. & Fr.: January – June. West Bengal- Darjeeling.
21. **Ficus hederacea** Roxb., Fl. Ind. (Ed. Carey) 3: 538. 1832; Corner in Gard. Bull. Singapore 18: 18. 1960. *F. scandens* Roxb., Fl. Ind. (Ed. Carey) 3: 536. 1832; Hook.f., Fl. Brit. India 5: 526. 1888; A.M. Cowan & Cowan, Trees N. Bengal 126. 1929; Prain, Bengal Pl. 2: 734. 1963 (Repr.). Fl. & Fr.: February – June. Distribution: West Bengal- Darjeeling, Howrah.
22. **Ficus heterophylla** L.f., Suppl. Pl. 442. 1782; King in Hook.f., Fl. Brit. India 5: 518. 1888; Haines, Bot. Bihar Orissa 835. 1924 (Repr. ed, 3: 876. 1961); *F. heterophylla* var. *sarmentosa* Haines, Bot. Bihar Orissa 836. 1924 (Repr. ed, 3: 877. 1961); *F. heterophylla* var. *scabrella* (Roxb.) Haines, Bot. Bihar Orissa 836. 1924 (Repr. ed, 3: 876. 1961). *Ficus scabrella* Roxb, Fl. Ind. 3: 532. 1832. Fl. & Fr.: January – May. Distribution: Bihar- Purnia, West Champaran; Chhattisgarh- Bastar, Raipur.
23. **Ficus heterophylla** var. **assamica** (Miq.) Corner ex Chater in Enum. Fl. Pl. Nepal 3: 210. 1982; Grierson & D.G. Long, Fl. Bhutan 1(1): 92. 1983. *F. assamica* Miq. in London J. Bot. 7: 226. 1848. Fl. & Fr.: April – August. Distribution: West Bengal- Darjeeling.
24. **Ficus heterophylla** var. **repens** Willd., Sp. Pl. ed. 4, 4: 1149. 1798; King in Hook.f., Fl. Brit. India 5: 519. 1888; Prain, Bengal Pl. 2: 736. 1963 (Repr.). Fl. & Fr.: March – August. Distribution: West Bengal- Darjeeling.
25. **Ficus hirta** Vahl, Enum. Pl. 2: 201. 1805; King in Hook.f., Fl. Brit. India 5: 531. 1888; Prain, Bengal Pl. 2: 737. 1963 (Repr.); *Ficus hirsuta* Roxb., Fl. Ind. (Ed. Carey) 3: 528. 1832. *F. roxburghii* Miq. in London J. Bot. 7: 456. 1888. *F. hirta* Vahl var. *roxburghii* (Miq.) King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 150, t. 189. 1888. Fl. & Fr.: June – October. Distribution: Jharkhand- Singhbhum; West Bengal- Darjeeling, Jalpaiguri.
26. **Ficus hispida** L. f., Suppl. Pl. 442. 1782; King in Hook. f., Fl. Brit. India 5: 522. 1888; Haines, Bot. Bihar Orissa 837. 1924 (Repr. ed, 3: 878. 1961). *F. oppositifolia* Roxb, Pl. Corom. 2: 14. t. 124. 1799. *F. daemonia* Koenig ex Vahl, Enum. Pl. 2: 198. 1805. *Gonosuke hispida* (L. f.) Raf., Sylva Tellur. 58. 1838. *Covellia hispida* (L. f.) Miq. in London J. Bot. 7: 462. 1848. Fl. & Fr.: December – March. Distribution: Bihar- West Champaran; Chhattisgarh- Bastar, Bilaspur, Raigarh, Raipur, Jharkhand-Hazaribagh, Palamau,

- Singhbhum; MP- Balaghat, Chhatarpur, Damoh, East Nimar, Hoshangabad, Rewa, Seoni, Sidhi; West Bengal- throughout the state.
27. **Ficus hookeriana** Corner in Gard. Bull. Singapore 17: 378. 1960 (1959) & 21: 10. 1965; Grierson & D.G. Long, Fl. Bhutan 1(1): 97. 1983. *F. hookeri* Miq. in Ann. Mus. Bot. Lugduno-Batavum 3: 215, 286. 1867 non Sweet 1826; King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 36, t. 42 & 82 Z3. 1887 & in Hook.f., Fl. Brit. India 5: 505. 1888; A.M. Cowan & Cowan, Trees N. Bengal 123. 1929.
Fl. & Fr.: June – September. Distribution: West Bengal- Darjeeling.
 28. **Ficus laevis** Blume var. **laevis**, Bijdr. Fl. Ned. Ind. 437. 1825; King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 128. 1888 & in Hook.f., Fl. Brit. India 5: 526. 1888; A.M. Cowan & Cowan, Trees N. Bengal 126. 1929; Prain, Bengal Pl. 2: 737. 1963 (Repr.); Grierson & D.G. Long, Fl. Bhutan 1(1): 98. 1983.
Fl. & Fr.: January – May. Distribution: West Bengal- Darjeeling, Jalpaiguri.
 29. **Ficus laevis** Blume var. **assamica** Miq., Ann. Mus. Bot. Lugduno-Batavum 3: 293. 1867; Ranjan *et al.* in Indian Forester 138: 1074. 2012. *Pogonotrophe assamica* Miq. in London J. Bot. 7: 73. 1848. *Ficus laevis* Blume var. *assamica* King in Hook.f., Fl. Brit. India 5: 526. 1888 *nom. illeg.* & Ann. Roy. Bot. Gard. (Calcutta) 1: 128. 1888; Kanjilal *et al.*, Fl. Assam 4: 260. 1940
Fl. & Fr.: August – November. Distribution: West Bengal- Jalpaiguri.
 30. **Ficus lamponga** Miq., Fl. Ned. Ind., Eerste Bijv. 431. 1860; Grierson & D.G. Long, Fl. Bhutan 1(1): 99. 1983. *F. lepidosa* Wall. ex Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42(2): 107. 1873; King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 163, pl. 207. 1887 & in Hook.f., Fl. Brit. India 5: 522. 1888.
Fl. & Fr.: September – January. Distribution: West Bengal- Darjeeling, Jalpaiguri.
 31. **Ficus lanceolata** Buch.-Ham. ex Roxb, Fl. Ind. 3: 557. 1832; King in Hook.f., Fl. Brit. India 5: 536. 1888; Haines, Bot. Bihar Orissa 838. 1924 (Repr. ed, 3: 879. 1961).
Fl. & Fr.: May – June. Distribution: Chhattisgarh- Surguja; Jharkhand- Palamau, Singhbhum.
 32. **Ficus maclellandii** King in Ann. Roy. Bot. Gard. (Calcutta) 1: 52, pl. 64. 1888. *F. rhododendrifolia* (Miq.) Miq. in Ann. Mus. Bot. Lugduno-Batavum 3: 286. 1867; King in Ann. Roy. Bot. Gard. (Calcutta) 1: 47, pl. 83. 1887 & in Hook.f., Fl. Brit. India 5: 510. 1888, A.M. Cowan & Cowan, Trees N. Bengal 124. 1929. *Ficus maclellandii* King var. *rhododendrifolia* Corner in Gard. Bull. Singapore 17: 392. 1959.
Fl. & Fr.: September – February. Distribution: West Bengal- Darjeeling, Jalpaiguri.
 33. **Ficus macrophylla** Roxb., Fl. Ind. 3: 557. 1832; Haines, Bot. Bihar Orissa 839. 1924 (Repr. ed., 3:880. 1961). *F. roxburghii* Wallich ex Miq., Ann. Mus. Lugd. - Bat. 3: 296. 1867; King in Hook.f., Fl. Brit. India 5: 534.1888.
Fl. & Fr.: April – September. Distribution: Jharkhand- Lohardaga, Palamau, Singhbhum.
 34. **Ficus microcarpa** L. f. , Suppl. Pl. 442. 1782. *F. retusa auct. non* L., 1767; King in Hook.f., Fl. Brit. India 5: 511. 1888; Haines, Bot. Bihar Orissa 828. 1924 (Repr. ed., 3: 869. 1961); Sanyal, Fl. Bankura Distr. 410. 1994. *F. retusa* L. sensu King in Ann. Roy. Bot. Gard. (Calcutta) 1: t. 62. 1887 & in Hook. f., Fl. Brit. India 5: 511. 1888; sensu Prain, Bengal Pl. 2: 731. 1903 [2: 735. 1963 (Repr.)] non L. 1767.
Fl. & Fr.: October – May. Distribution: Bihar- Munger, West Champaran; Chhattisgarh- Bastar, Bilaspur, Raigarh, Raipur, Surguja; Jharkhand- Chota Nagpur, Dumka; MP- Chhatarpur, Mandla, Panna, Sagar, Seoni; West Bengal- Bankura, Darjeeling, Howrah, Purulia.
 35. **Ficus mollis** Vahl, Symb. Bot. 1: 82. 1790. *F. tomentosa* Roxb. ex Willd., Sp. Pl. 4: 1136. 1806; King in Hook.f., Fl. Brit. India 5: 501. 1888; Haines, Bot. Bihar Orissa 834. 1924 (Repr. ed., 3: 875. 1961).
Fl. & Fr.: Throughout the year. Distribution: Bihar- Gaya; Chhattisgarh- Bastar, Bilaspur, Raipur, Surguja; Jharkhand- Gumla, Hazaribagh, Koderma, Palamau, Ranchi; MP- Balaghat, Chhatarpur, Damoh, Gwalior, Hoshangabad, Mandla, Panna, Rewa, Sagar, Satna, Seoni, Shahdol, Shivpuri, Sidhi; West Bengal- Bankura, Purulia.
 36. **Ficus neriifolia** Sm. in Rees, Cycl. 14: *Ficus* no. 21. 1810; Grierson & D.G. Long. *F. nemoralis* Wall. ex Miq. in London J. Bot. 7: 453. 1848. King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 161, pl. 206. 1888 & in Hook.f., Fl. Brit. India 5: 534.1888; *F. nemoralis* Wall. ex Miq. var. *gemella* (Wall. ex

- Miq.) King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 162, pl. 206. 1888. *F. nemoralis* var. *trilepis* (Miq.) King, Ann. Roy. Bot. Gard. (Calcutta) 1: 162. 1888. *F. neriifolia* var. *nemoralis* (Wall. ex Miq.) Corner in Gard. Bull. Singapore 17: 426. 1960. *F. nemoralis* var. *fieldingii* (Miq.) King in Ann. Bot. Gard. (Calcutta) 1(2): 163. 1888. *F. neriifolia* var. *fieldingii* (Miq.) Corner in Gard. Bull. Singapore 17: 426. 1960 & 21: 39. 1965.
- Fl. & Fr.: January – November. Distribution: West Bengal- Darjeeling.
37. ***Ficus nervosa*** Heyne ex Roth in Roem. & Schult., Syst. Veg. 1:513. 1817; King in Hook.f., Fl. Brit. India 5: 512. 1888; Haines, Bot. Bihar Orissa 830. 1924 (Repr. ed., 3: 871. 1961). *F. angustifolia* Roxb., Fl. Ind. (Ed. Carey) 3: 554. 1832. *p.p.*; Wight, Icon. Pl. Ind. Orient. t. 660. 1840. *Urostigma nervosum* (B. Heyne ex Roth) Miq. in London J. Bot. 6: 585. 1847.
- Fl. & Fr.: March – May. Distribution: Chhattisgarh-Bastar; Jharkhand- Santal Pargana, Singhbhum; West Bengal- Darjeeling, Howrah, Jalpaiguri.
38. ***Ficus oligodon*** Miq. in Ann. Mus. Bot. Lugduno-Batavum 3: 234, 297. 1867; Corner in Gard. Bull. Singapore 21: 82. 1965. *F. pomifera* Wall. ex King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 171, pl. 215. 1888 & in Hook.f., Fl. Brit. India 5: 535. 1888; Prain, Bengal Pl. 2: 737. 1963 (Repr.); A.M. Cowan & Cowan, Trees N. Bengal 126. 1929.
- Fl. & Fr.: December – March. Distribution: West Bengal- Darjeeling.
39. ***Ficus palmata*** Forssk., Fl. Aegypt. - Arab. 179. 1775; King in Hook.f., Fl. Brit. India 5: 530. 1888; Haines, Bot. Bihar Orissa 1248. 1924 (Repr. ed., 3: 879 & 1302. 1961); *Ficus palmata* Forssk. subsp. *virgata* (Roxb.) Browicz in Rech.f., Fl. Iran. 153: 12. 1982. *F. virgata* Roxb., Fl. Ind. (Ed. Carey) 3: 529. 1832. *F. palmata* sensu King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 146. 1888 & in Hook.f., Fl. Brit. India 5: 530. 1888 non Forssk. 1775.
- Fl. & Fr.: June – September. Distribution: Bihar-Patna, Gaya; West Champaran; Chhattisgarh-Bilaspur, Rajnandgaon; Jharkhand- Palamau, Purnia; MP- Chhatarpur, Damoh, Dhar; West Bengal- Western districts.
40. ***Ficus prostrata*** (Wall. ex Miq.) Miq. in Ann. Mus. Bot. Lugduno-Batavum 3: 297. 1867; King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 105. 1888; A.M. Cowan & Cowan, Trees N. Bengal 125. 1929.
- Covellia prostrata* Wall. ex Miq. in London J. Bot. 7: 465. 1848.
- Fl. & Fr.: March – September. Distribution: West Bengal- Darjeeling, Howrah, Jalpaiguri.
41. ***Ficus pumila*** L., Sp. Pl. 1060. 1753.
- Fl. & Fr.: December – January. Distribution: Bihar-West Champaran.
42. ***Ficus pubigera*** (Wall. ex Miq.) Kurz var. ***maliformis*** (King) Corner in Gard. Bull. Singapore 18: 6. 1960. *F. foveolata* (Wall. ex Miq.) Wall. ex Miq. var. *maliformis* King, Ann. Roy. Bot. Gard. (Calcutta) 1: 134, pl. 168 I. 1888; A.M. Cowan & Cowan, Trees N. Bengal 126. 1929.
- Fl. & Fr.: May – October. Distribution: West Bengal- Darjeeling.
43. ***Ficus racemosa*** L. var. ***racemosa***, Sp. Pl. 1060. 1753. *F. glomerata* Roxb., Pl. Corom. 2: 13. t. 123. 1799; King in Hook.f., Fl. Brit. India 5: 535. 1888; Haines, Bot. Bihar Orissa 838. 1924 (Repr. ed., 3: 880. 1961); Prain, Bengal Pl. 2: 737. 1963 (Repr.). *Covellia glomerata* Miq. in London J. Bot. 7: 465. 1848. *F. lanceolata* Buch.-Ham. ex Roxb., Fl. Ind. (Ed. Carey) 3: 557. 1832.
- Fl. & Fr.: February–October. Distribution: Bihar-Patna, Purnia, West Champaran; Chhattisgarh-Bastar, Bilaspur, Raipur, Rajnandgaon, Raigarh, Surguja; Jharkhand- Gumla, Hazaribagh, Palamau, Singhbhum; MP- Balaghat, Chhatarpur, Damoh, Dhar, Hoshangabad, Jabalpur, Jhabua, Mandla, Panna; Rewa, Sagar, Satna, Seoni, Shivpuri, Sidhi, West Nimar; West Bengal- Bankura, Bardhaman, Birbhum, Darjeeling, Hoogly, Howrah, Kolkata, Malda and Purulia.
44. ***Ficus racemosa*** L. var. ***elongata*** (King) M.F. Barrett in Bull. Torrey Bot. Club 73: 323. 1948. *F. glomerata* var. *elongata* King in Ann. Roy. Bot. Gard. (Calcutta) 1: 173. 1888 & in Hook. f., Fl. Brit. India 5: 536. 1888; Prain, Bengal Pl. 2: 738. 1963 (Repr.).
- Fl. & Fr.: February – September. Distribution: West Bengal- Darjeeling.
45. ***Ficus religiosa*** L., Sp. Pl. 1059. 1753; King in Hook.f., Fl. Brit. India 5:513. 1888; Haines, Bot. Bihar Orissa 833. 1924 (Repr.ed., 3: 874. 1961); Prain, Bengal. Pl. 2: 735. 1963 (Repr.). *Urostigma religiosum* (L.) Gasp., Ficus 82, pl. 7. 1844.

- Fl. & Fr.: March – September. Distribution: Throughout in Bihar, Jharkhand, Chattisgarh, Madhya Pradesh and West Bengal.
46. **Ficus rigida** Jack., Mai. Misc. 2(7): 72. 1822; King in Hook.f., Fl. Brit. India 5: 505. 1888. *F. glaberrima* Blume, Bijdr. 457. 1825; King in Hook.f., Fl. Brit. India 5: 505. 1888; Haines, Bot. Bihar Orissa 829. 1924 (Repr. ed., 3: 870. 1961). *Urostigma glaberrima* Miq., Fl. Ned. Ind. 1(2): 340. 1859.
- Fl. & Fr.: January – June. Distribution: Bihar- West Champaran; West Bengal- Darjeeling.
47. **Ficus rumphii** Blume, Bijdr. 437. 1825; King in Hook.f., Fl. Brit. India 5: 512. 1888; Haines, Bot. Bihar Orissa 832. 1924 (Repr. ed., 3: 873. 1961); Prain, Bengal Pl. 2: 735. 1963 (Repr.); A.M. Cowan & Cowan, Trees N. Bengal 123. 1929. *Urostigma rumphii* (Blume) Miq. in Syst. Vercz. 90. 1854.
- Fl. & Fr.: August – January. Distribution: Bihar- Bhagalpur, West Champaran; Chhattisgarh- Bilaspur, Raigarh; Jharkhand- Hazaribagh, Koderma, Palamau, Singhbhum; West Bengal- Bankura, Darjeeling, Howrah, Jalpaiguri, Midnapore, South 24 Parganas.
48. **Ficus sarmentosa** Buch.-Ham. ex Sm. in Rees, Cyclop. 14: n. 45. 1810. *F. foveolata* Wallich ex Miq., Ann. Mus. Bot. Lugd.-Bat. 3: 294. -1867; King in Hook.f., Fl. Brit. India 5: 528. 1888, *p.p. Pogonotrophe foveolata* Wall. ex Miq. in London J. Bot. 7: 77. 1848.
- Fl. & Fr.: October – December. Distribution: Jharkhand- Hazaribagh, Santal Pargana; West Bengal- Darjeeling.
49. **Ficus semicordata** Buch.-Ham. ex Sm. in Rees, Cyclop. 14: n. 71. 1810, non Miq., 1867. *F. cunia* Buch.-Ham. ex Roxb., Fl. Ind. 3: 561. 1832; King in Hook.f., Fl. Brit. India 5: 523. 1888; Prain, Bengal Pl. 2: 736. 1963 (Repr.); A.M. Cowan & Cowan, Trees N. Bengal 125. 1929; Haines, Bot. Bihar Orissa 836. 1924 (Repr. ed., 3: 877. 1961).
- Fl. & Fr.: Throughout the year. Distribution: Bihar- West Champaran; Chhattisgarh- Bastar, Bilaspur, Raigarh, Raipur, Rajnandgaon, Surguja; Jharkhand- Giridih, Hazaribagh, Palamau, Santal Pargana; MP- Balaghat, Mandla, Sidhi; West Bengal- Cooch Behar, Darjeeling, Jalpaiguri, Howrah, Purulia.
50. **Ficus squamosa** Roxb., Fl. Ind. 3: 531. 1832. *F. saemocarpa* Miq., Ann. Mus. Bot. Lugd. - Bat. 3: 232, 296. 1867; King in Hook.f., Fl. Brit. India 5: 523. 1888; A.M. Cowan & Cowan, Trees N. Bengal 125. 1929; Haines, Bot. Bihar Orissa 837. 1924 (Repr. ed, 3: 878. 1961).
- Fl. & Fr.: Almost throughout the year. Distribution: Bihar- West Champaran; West Bengal- Darjeeling.
51. **Ficus subincisa** Buch.-Ham. ex Sm. in Rees, Cycl. 14: Ficus no. 91. 1810. *F. clavata* Wall. ex Miq. in London J. Bot. 7: 431. 1848; A.M. Cowan & Cowan, Trees N. Bengal 124. 1929. *F. subincisa* var. *paucidentata* (Miq.) Corner in Gard. Bull. Singapore 21(1): 36. 1965; *F. trachycarpa* Miq. var. *paucidentata* Miq. in London J. Bot. 7: 430. 1848.
- Fl. & Fr.: January – April. Distribution: West Bengal- Darjeeling.
52. **Ficus subulata** Blume, Bijdr. Fl. Ned. Ind. 461. 1825; King in Ann. Roy. Gard. (Calcutta) 1: 8, pl. 6. 1887 & in Hook.f., Fl. Brit. India 5: 497. 1888. Prain, Bengal Pl. 2: 734. 1963 (Repr.). *F. sikkimensis* Miq. in Ann. Mus. Bot. Lugduno-Batavum 3: 225, 292. 1867; King in Ann. Roy. Bot. Gard. (Calcutta) 1(2): 89, pl. 113. 1888 & in Hook.f., Fl. Brit. India 5: 521. 1888; A.M. Cowan & Cowan, Trees N. Bengal 124. 1929.
- Fl. & Fr.: March – October. Distribution: West Bengal- Darjeeling.
53. **Ficus talboti** King in Ann. Royal Bot. Gard., Calcutta 1: t. 63. 1887 & in Hook.f., Fl. Brit. India 5: 512. 1888; Cornr in Gard. Bull. Singapore 21: 19. 1965.
- Fl. & Fr.: December – February. Distribution: MP- Jhabua.
54. **Ficus thwaitesii** Miq., Ann. Mus. Bot. Lugd. - Bat. 3: 229. 1867; King in Hook.f., Fl. Brit. India 5: 525. 1888.
- Fl. & Fr.: July – October. Distribution: Jharkhand- Hazaribagh.
55. **Ficus tinctoria** G. Forster, Fl. Ins. Austr. 76. 1786. subsp. **gibbosa** (Blume) Comer in Gard. Bull. Singapore 17: 476. 1959 var. *gibbosa*. *F. gibbosa* Blume, Bijdr. 466. 1825; King in Hook.f., Fl. Brit. India 5: 496. 1888.
- Fl. & Fr.: July – December. Distribution: Chhattisgarh- Bilaspur; Jharkhand- Palamau; MP- Sidhi. subsp. **parasitica** (Willd.) Comer in Gard. Bull. Singapore

- 17: 476. 1959. *F. parasitica* Willd. in Mem. Acad. R. Sci. Berlin 2: 102. 1798; Haines, Bot. Bihar Orissa 835. 1924 (Repr. ed, 3: 876. 1961). *F. gibbose* Blume var. *parasitica* (Willd.) King in Ann. Roy. Bot. Gard. Calcutta 1: 6. t. 2 a-b. 1887 & in Hook.f., Fl. Brit. India 5: 497. 1888. Prain, Bengal Pl. 2: 734. 1963 (Repr.). *F. cuspidifera* Miq., London J. Bot. 7: 434. 1848. *F. gibbosa* var. *cuspidifera* (Miq.) King, Ann. Roy. Bot. Gard. (Calcutta) 1: 6, pl. 2a. 1887; A.M. Cowan & Cowan, Trees N. Bengal 122. 1929. Fl. & Fr.: February – November. Distribution: Chhattisgarh- Bastar, Bilaspur, Raigarh, Raipur, Rajnandgaon, Surguja; Jharkhand- Hazaribagh, Palamau, Singhbhum; MP- Balaghat, Damoh, Hoshangabad, Mandla, Seoni, Sidhi; West Bengal- Darjeeling, Purulia.
56. ***Ficus virens*** Dryander in Aiton, Hortus Kew, ed. 1. 3: 451. 1789. *F. infectoria* Koxb., Fl. Ind. 3: 551. 1832, non Willd, 1806; King in Hook.f., Fl. Brit. India 5: 515. 1888; Prain, Bengal Pl. 2: 736. 1963 (Repr.); A.M. Cowan & Cowan, Trees N. Bengal 123. 1929; Haines, Bot. Bihar Orissa 830. 1924 (Repr. ed, 3: 871. 1961). *F. infectoria* Roxb. var. *lamertiana* (Miq.) King, Ann. Roy. Bot. Gard. (Calcutta) 1: 60, pl. 75-78. 1887 & in Hook. f., Fl. Brit. India 5: 516. 1888. Fl. & Fr.: December–July. Distribution: Throughout in Bihar, Chhattisgarh, Jharkhand, MP and West Bengal.
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