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Botanical art at the Indian Museum, Calcutta

James J. White

Listed by my guidebooks as "the oldest museum in India" and "probably the best museum in India and one of the best in Asia," the Indian Museum, built in 1875, occupies an imposing facade on Jawaharlal Nehru Road, previously called Chowringhee Road. Some of the museum's exhibits are fascinating if only because they appear to have been untouched since their installation in the last century. In 1982 the museum published a general guide to its collection in Hindi, but at present no English translation is available.

The botany exhibition hall, organized and

administered by the Botanical Survey of India (B.S.I.), contains exhibits on timbers, food and fodder, medicinal plants, fibers, dyes and tans. Throughout this exhibition are over 300 watercolors of plants, almost all made during the 1950s, by uncredited staff artists whose names are almost forgotten. Over 80 additional paintings from this series line a stairwell that is not open to the public. Artists whose signatures I was able to spot on any of these artworks include Devi Prasad Deb, B. P. Roychowdhury, Sunil Das Gupta, A. Mukherjee, P. Naskar (artwork dated 1971), D. Sen, Vish-



Figure 1. Watercolor of *Stereospermum chelonoides* DC by D. P. Deb (1951).



Figure 2. Watercolor of *Nerium oleander* L. by B. P. Roychowdhury.

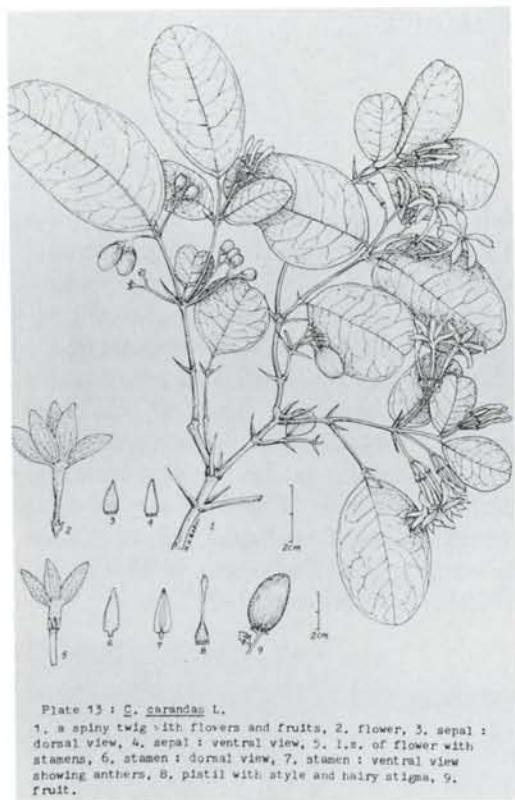


Figure 3. Ink drawing of "Carissa carandas L." by H. K. Barui.

nu (artwork dated 1954) and A. Z. M. (may be A. Mukherjee). Only some information about Deb, Gupta and Roychowdhury could be found.

Devi Prasad Deb, born in Dumilla District (now in Bangladesh) in 1925, was a certificate holder from the Indian Society of Oriental Art, Calcutta. Deb, who joined the Royal Botanic Garden (Shibpur) in 1952 and the B.S.I. in 1954, retired in 1983 and died in 1989. He is remembered for his paintings of algae, an exhibition of paintings in New Delhi in 1958, illustrations for the Survey's bulletin and research papers, and for his many paintings in the Industrial Gallery at the Indian Museum.

Deb, whose artworks outnumber others in the hall, is said by staff artists at the Indian



Figure 4. H. K. Barui.

Museum to be the artist of the eight fascicles of *Icones Roxburghiana or drawings of Indian plants* (1964–1978), which one might incorrectly assume—without a careful reading of the introductory information in the first fascicle—to be photographic reproductions of Roxburgh's originals at the Indian Botanic Garden, Calcutta. Since it appears that no additional fascicles in that series will be published, I have listed the subjects of the eight published fascicles in the Appendix. For the most current information on the Roxburgh collection, see the following:

Sanjappa, M., K. Thothathri & A. R. Das. 1994. [William] Roxburgh's *Flora Indica* drawings at Calcutta. *Bulletin of the Botanical Survey of India* 33: 1–232, 1991 [pub. 1994]. • A composite catalogue of the 2,595 original drawings at Calcutta and the 2,512 copies sent back to England and now at the Royal Botanic Gardens Library, Kew. Table 1: Drawings available at CAL and not available at Kew; Table 2: Drawings available at Kew and not available at CAL; Table 3: Drawings available at CAL

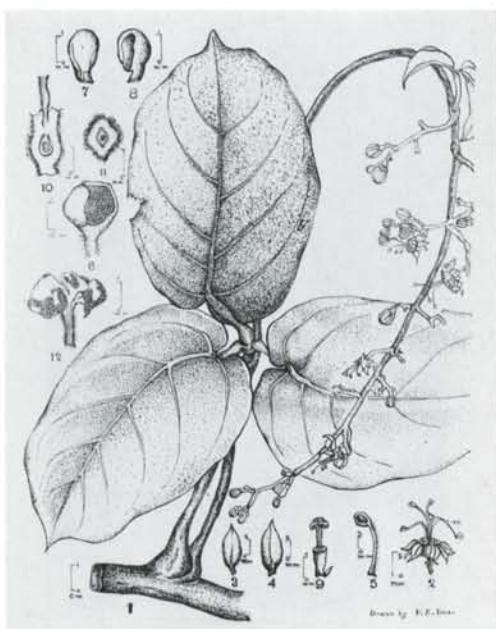


Figure 5. Ink drawing of *Litsnea* sp. by Pranab Kumar Das.



Figure 6. Pranab Kumar Das.



Figure 7. Ink drawing of *Cordia mixa* L. by Sunil Guha.

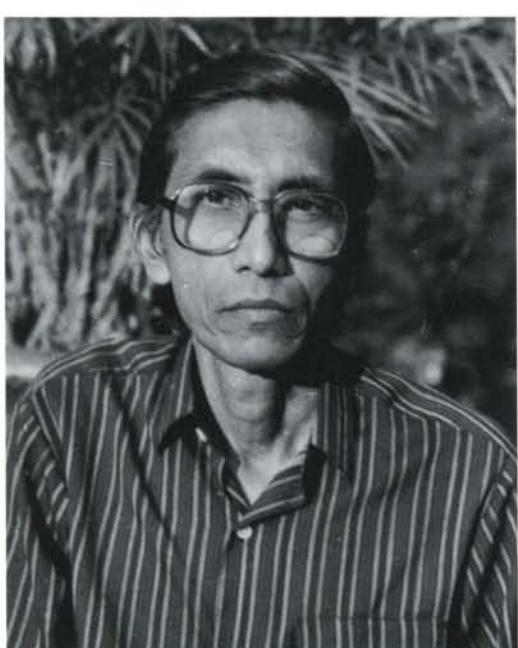


Figure 8. Sunil Guha.



Figure 9. Watercolor of *Aconitum palmatum* D. Don by S. Das Gupta (4 August 1956).



Figure 10. S. Das Gupta.



Figure 11. Watercolor of *Dendrobium* sp. by Pradyot Kumar Roy.



Figure 12. Pradyot Kumar Roy.



Figure 13. Watercolor of *Nepenthes khasiana* Hook. f. by Chitta Ranjan Sarkar.

and K but having drawings that are unnumbered or with altered numbers and/or altered names or their spellings; Table 4: Drawings available at CAL and K without alterations in details; Table 5: Drawings neither available at CAL nor at Kew.

B. P. Roychowdhury (Charan Roy), born in Howrah in 1909, received a certificate from the Government Art School and Indian Society of Oriental Art. He joined the B.S.I. in 1937 and retired in 1967. He made portrait paintings of botanists, illustrations for scientific papers and models for the gallery, and three times held a one-person show at a prominent Calcutta gallery. Roychowdury copied the portraits in the botany exhibition hall: C. E. Bessey, J. C. Bose, I. H. Burkill, J. D. Hooker, David Hooper, J. Hutchinson, M. O. P. Iyengar, Shiv Ram Kashyap, Carolus Linnaeus, William Roxburgh, Nathaniel Wallich, Sir George Watt and Robert Wight.



Figure 14. Chitta Ranjan Sarkar.

Sunil Das Gupta (or Dasgupta), born at Barisal District in 1931 (now in Bangladesh), matriculated from Calcutta University in 1947 and graduated from the Government Art College in 1953. He joined the B.S.I. in 1954 and retired in 1989. In addition to his paintings in the Industrial Gallery, Dasgupta is known for his minute scientific illustration for the B.S.I.'s bulletin and various scientific papers.

At the time of my visit in March 1994 the artistic staff consisted of H. K. Barui, Pranab Kumar Das, Sunil Guha, H. M. Roy, Pradyot Kumar Roy, D. P. Saha, G. L. Saha and Chitta Ranjan Sarkar.

Acknowledgments

The staff of the Indian Museum and the Botanical Survey of India, particularly Sunil Guha and his fellow artists and Jayashri Lahiri, senior guide lecturer, cordially received me into their museum. Mr. Sarkar provided photographs of some of the artists and their work. Mr. and

Mrs. Shri Dhar of Calcutta provided generous hospitality and assistance during my 1994 visit to India. Mayor Prasanta Chatterjee and his public relations officer, Debajyoti Sen Gupta, expedited my visit throughout their surprising city, and I am debted to both of them.

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Appendix

List of artworks in *Icones Roxburghianae or drawings of Indian plants* published by Botanical Survey of India (Fascicle Nos. 1-8 dated 1964, 1968, 1969, 1970, 1971, 1973, 1976 and 1978, respectively)

Family	Fasc. No.	Plate No.	Name	Roxburgh's Icon No.
Anacardiaceae	IV	21	<i>Rhus parviflorum</i> Roxb.	2472
	IV	22	<i>Mangifera sylvatica</i> Roxb.	2189
	IV	23	<i>Buchanania angustifolia</i> Roxb.	2244
	IV	24	<i>Buchanania latifolia</i> Roxb.	103
	IV	25	<i>Odina wodier</i> Roxb.	172
	IV	26	<i>Holigarna longifolia</i> Roxb.	2130
	IV	27	<i>Spondias axillaris</i> Roxb.	2062
Anonaceae	I	3	<i>Uvaria dioeca</i> Roxb.	2291
			<i>Uvaria bracteata</i> Roxb.	2290
	I	4	<i>Uvaria cordifolia</i> Roxb.	2526
			<i>Unona dumosa</i> Roxb.	2294
	I	5	<i>Unona longiflora</i> Roxb.	2293
Balsaminaceae	III	2	<i>Impatiens tripetala</i> Roxb.	2458
Berberidaceae	I	6	<i>Berberis asiatica</i> Roxb.	1962
Bignoniaceae	IV	19	<i>Millingtonia pinnata</i> Roxb.	2105
	IV	20	<i>Millingtonia simplicifolia</i> Roxb.	2104
Burseraceae	III	15	<i>Canarium bengalense</i> Roxb.	2311
Capparidaceae	I	7	<i>Roydsia suaveolens</i> Roxb.	2287
Celastraceae	III	22	<i>Celastrus monosperma</i> Roxb.	2184
Combretaceae	VI	25	<i>Terminalia procera</i> Roxb.	1719
	VII	1	<i>Terminalia citrina</i> (Gaertn.) Roxb. ex Flem.	2251
	VII	2	<i>Combretum pilosum</i> Roxb.	2234
	VII	3	<i>Combretum acuminatum</i> Roxb.	2225
	VII	4	<i>Combretum chinensis</i> Roxb.	1404
	VII	5	<i>Combretum ovalifolium</i> Roxb.	2223
	VII	6	<i>Combretum latifolium</i> Bl.	1830
Connaraceae	IV	28	<i>Connarus paniculatus</i> Roxb.	37
Crassulaceae	VI	21	<i>Kalanchoë floribunda</i> W. & A. var. <i>glabra</i> Clarke	1848
Cucurbitaceae	VIII	3	<i>Hodgsonia macrocarpa</i> (Bl.) Cogn. (male)	2399
	VIII	4	<i>Hodgsonia macrocarpa</i> (Bl.) Cogn. (female)	2399
	VIII	5	<i>Trichosanthes bracteata</i> (Lamk.) Voigt	453
	VIII	6	<i>Trichosanthes cordata</i> Roxb.	1691
	VIII	7	<i>Trichosanthes dioica</i> Roxb.	1090
	VIII	8	<i>Trichosanthes lobata</i> Roxb.	992
	VIII	9	<i>Luffa graveolens</i> Roxb.	1693
	VIII	10	<i>Luffa echinata</i> Roxb.	1694

Appendix. Continued

Family	Fasc. No.	Plate No.	Name	Roxburgh's Icon No.
Dilleniaceae	VIII	11	<i>Luffa acutangula</i> (Linn.) Roxb. var. <i>amara</i> (Roxb.) C. B. Clarke	460
	VIII	12	<i>Luffa tuberosa</i> Roxb.	461
	VIII	13	<i>Luffa cylindrica</i> (Linn.) Roem.	459
	VIII	14	<i>Luffa cylindrica</i> (Linn.) Roem.	1692
	VIII	15	<i>Gymnopetalum cochinchinense</i> (Lour.) Kurz	1696
	VIII	16	<i>Momordica cochinchinensis</i> (Lour.) Spr.	993
	VIII	17	<i>Momordica dioica</i> Roxb.	435
	VIII	18	<i>Coccinia grandis</i> (Linn.) Voigt	213
	VIII	19	<i>Cucumis callosus</i> (Rottl.) Cogn.	463
	VIII	20	<i>Cucumis callosus</i> (Rottl.) Cogn.	464
	VIII	21	<i>Cucumis melo</i> Linn. var. <i>utilissimus</i> (Roxb.) Duthie & Fuller	462
	VIII	22	<i>Cucumis melo</i> Linn. var. <i>momordica</i> (Roxb.) Duthie & Fuller	456
	VIII	23	<i>Gymnopetalum integrifolium</i> (Roxb.) Kurz	1685
	VIII	24	<i>Melothria mucronata</i> (Bl.) Cogn.	1697
			<i>Melothria indica</i> Lour.	2100
	VIII	25	<i>Kedrostis rostrata</i> (Rottl.) Cogn.	469
	VIII	26	<i>Corallocarpus epigaeus</i> (Rottl. & Willd) Clarke	467
Dipterocarpaceae	I	2	<i>Dillenia pentagyna</i> Roxb.	102
Dipterocarpaceae	I	19	<i>Dipterocarpus alatus</i> Roxb.	
	I	20	<i>Dipterocarpus tuberculatus</i> Roxb.	
	I	21	<i>Shorea talura</i> Roxb. (flowers)	2073
	I	22	<i>Shorea talura</i> Roxb. (fruits)	1567
	I	23	<i>Shorea tumbuggai</i> Roxb.	1566
Elaeocarpaceae	I	24	<i>Hopea odorata</i> Roxb.	1247
	II	17	<i>Elaeocarpus aristatus</i> Roxb.	2285
	II	18	<i>Elaeocarpus ganitrus</i> Roxb.	1984
	II	19	<i>Elaeocarpus lanceafolius</i> Roxb.	2283
			<i>Elaeocarpus rubustus</i> Roxb.	2284
	II	20	<i>Elaeocarpus rugosus</i> Roxb.	2286
	II	21	<i>Grewia oppositifolia</i> (Buch.) ex Roxb.	1858
	II	22	<i>Grewia paniculata</i> Roxb.	1860
	II	23	<i>Grewia polygama</i> Roxb.	1448
	II	24	<i>Grewia sapida</i> Roxb.	1291
Elatinaceae	III	1	<i>Grewia umbellata</i> Roxb.	2522
	I	11	<i>Bergia ammannoides</i> Roxb.	552
Flacourtiaceae	I	8	<i>Flacourtie inermis</i> Roxb.	1713-2453
	VII	22	<i>Casearia glomerata</i> Roxb.	2250
	VII	23	<i>Casearia vareca</i> Roxb.	2249
	VII	24	<i>Casearia esculenta</i> Roxb.	148
	VII	25	<i>Casearia tomentosa</i> Roxb.	147
Guttiferae	I	12	<i>Hypericum cernuum</i> Roxb.	1280
	I	13	<i>Garcinia cowa</i> Roxb.	945
	I	14	<i>Garcinia kydia</i> Roxb.	2282
	I	15	<i>Garcinia lanceofoolia</i> Roxb.	2278
	I	16	<i>Garcinia paniculata</i> Roxb.	1064
	I	17	<i>Garcinia pedunculata</i> Roxb. (female)	1562
	I	18	<i>Garcinia pedunculata</i> Roxb. (male)	1711

Appendix. Continued

Family	Fasc. No.	Plate No.	Name	Roxburgh's Icon No.
Halorrhagidaceae	VI	22	<i>Myriophyllum tuberculatum</i> Roxb.	1347
Hippocrateaceae	III	23	<i>Hippocratea arborea</i> Roxb.	1316
	III	24	<i>Hippocratea obtusifolia</i> Roxb.	2013
Lecythidaceae	VII	16	<i>Careya sphaerica</i> Roxb.	2082
Leguminosae	IV	5	<i>Crotalaria bialata</i> Roxb.	2324
	IV	6	<i>Crotalaria bracteata</i> Roxb.	1600
	IV	7	<i>Crotalaria fulva</i> Roxb.	1596
	IV	8	<i>Crotalaria pulcherrima</i> Roxb.	1597
	IV	9	<i>Crotalaria ramosissima</i> Roxb.	1593
	IV	10	<i>Crotalaria tetragona</i> Roxb.	1593
	IV	11	<i>Indigofera coerulea</i> Roxb.	388
	IV	12	<i>Indigofera pulchella</i> Roxb.	389
	IV	13	<i>Galega incana</i> Roxb.	1630
	IV	14	<i>Robinia candida</i> Roxb.	1274
	IV	15	<i>Robinia fruticosa</i> Roxb.	1891
	IV	16	<i>Robinia racemosa</i> Roxb.	300
	IV	17	<i>Robinia suberosa</i> Roxb.	1275
	IV	18	<i>Dalbergia marginata</i> Roxb.	2317
			<i>Galedupa piscidia</i> Roxb.	2321
	V	1	<i>Aeschynomene paludosa</i> Roxb.	973
	V	2	<i>Aeschynomene procumbens</i> Roxb.	297
	V	3	<i>Uraria rufescens</i> (DC.) Schindler	1614
	V	4	<i>Dendrolobium triangulare</i> (Retz.) Schindler	1620
	V	5	<i>Desmodium velutinum</i> (Willd.) DC.	1611
	V	6	<i>Mucuna imbricata</i> DC. ex Baker	2541
	V	7	<i>Mucuna monosperma</i> DC.	286
	V	8	<i>Mucuna atropurpureum</i> DC.	2326
	V	9	<i>Mucuna gigantea</i> DC.	2325
	V	10	<i>Mucuna bracteata</i> DC. ex Kurz	2542
	V	11	<i>Stizolobium pruriens</i> (L.) Medicus	284
	V	12	<i>Mucuna capitata</i> W. & A.	285
	V	13	<i>Mucuna nivea</i> DC. ex Baker	1601
	V	14	<i>Erythrina stricta</i> Roxb.	2322
	V	15	<i>Erythrina resupinata</i> Roxb.	1592
	V	16	<i>Erythrina suberosa</i> Roxb.	104
	V	17	<i>Erythrina sublobata</i> Roxb.	105
	V	18	<i>Erythrina arborescens</i> Roxb.	1591
	V	19	<i>Spatholobus parviflorus</i> (Roxb.) O. Kuntze	1990
	V	20	<i>Pueraria tuberosa</i> DC.	400
	V	21	<i>Pueraria phaseoloides</i> (Roxb.) Benth.	1890
	V	22	<i>Phaseolus glaber</i> Roxb.	1603
	V	23	<i>Vigna dolichoides</i> (Roxb.) Baker	1809
	V	24	<i>Butea superba</i> Roxb.	68
	V	25	<i>Butea monosperma</i> (Lamk.) Taub.	67
VI	1		<i>Vigna pilosa</i> (Roxb.) Baker	291
	2		<i>Moghania lineata</i> (Linn.) O. Kuntze	1624
	3		<i>Moghania nana</i> (Roxb.) Mukerjee	1622
	4		<i>Moghania macrophylla</i> (Willd.) O. Kuntze	1278
	5		<i>Moghania semialata</i> (Roxb.) Mukerjee	1623

Appendix. Continued

Family	Fasc. No.	Plate No.	Name	Roxburgh's Icon No.
Lythraceae	VI	6	<i>Dalbergia rimosa</i> Roxb.	2318
			<i>Dalbergia reniformis</i> Roxb.	2319
	VI	7	<i>Dalbergia sissoo</i> Roxb. ex DC.	970
	VI	8	<i>Dalbergia pinnata</i> (Lour.) Prain	2539
			<i>Dalbergia stipulacea</i> Roxb.	2538
	VI	9	<i>Caesalpinia decapetala</i> (Roth) Alston	1240
	VI	10	<i>Caesalpinia tortuosa</i> Roxb.	1426
	VI	11	<i>Cassia roxburghii</i> DC.	1837
	VI	12	<i>Phanera ferruginea</i> (Roxb.) Benth.	1137
	VI	13	<i>Phanera integrifolia</i> (Roxb.) Benth.	1138
	VI	14	<i>Phanera semibifida</i> (Roxb.) Benth.	1967
	VI	15	<i>Albizia procera</i> Benth. var. <i>elata</i> (Roxb.) Baker	1722
	VII	19	<i>Ammannia multiflora</i> Roxb.	915
	Malvaceae	II	<i>Hibiscus cancellatus</i> Roxb.	1580
		II	<i>Hibiscus collinus</i> Roxb.	360
		II	<i>Hibiscus furcatus</i> Roxb.	1582
		II	<i>Hibiscus pungens</i> Roxb.	1585
		II	<i>Hibiscus tetraphyllus</i> Roxb.	1079
		II	<i>Kydia calycina</i> Roxb.	673
		II	<i>Urena repanda</i> Roxb.	1882
Melastomataceae	VII	17	<i>Sonerila maculata</i> Roxb.	2170
			<i>Sonerila maculata</i> Roxb.	2171
			<i>Sonerila maculata</i> Roxb.	2172
Meliaceae	VII	18	<i>Memecylon amplexicaulis</i> Roxb.	1055
	III	16	<i>Melia tomentosa</i> Roxb.	1430
	III	17	<i>Walsura piscidia</i> Roxb.	47
	III	18	<i>Walsura robusta</i> Roxb.	2245
	III	19	<i>Walsura ternata</i> Roxb.	646
	III	20	<i>Heynea trijuga</i> Roxb.	1843
	III	21	<i>Cedrela toona</i> Roxb.	922
	VII	7	<i>Syzygium inophyllum</i> DC.	2259
	VII	8	<i>Syzygium fruticosum</i> DC.	1440
	VII	9	<i>Syzygium brachiatum</i> Miq. <i>Eugenia venusta</i> Roxb.	1978
Myrtaceae	VII	10	<i>Syzygium cerasoides</i> (Roxb.) Raizada	1850
	VII	11	<i>Syzygium thumra</i> (Roxb.) Merr. et Perry <i>Syzygium myrtifolium</i> DC.	2510
	VII	12	<i>Syzygium roxburghianum</i> Raizada <i>Syzygium oblatum</i> (Roxb.) Wall. ex A.M. & J.M. Cowan	2257
	VII	13	<i>Syzygium claviflorum</i> (Roxb.) Wall. ex A.M. & J.M. Cowan <i>Syzygium rubens</i> (Roxb.) Walp.	2261
	VII	14	<i>Eugenia amplexicaulis</i> Roxb.	2502
	VII	15	<i>Eugenia macrocarpa</i> Roxb.	2069
	VII	20	<i>Ludwigia perenniis</i> Linn.	2260
	VII	21	<i>Ludwigia prostrata</i> Roxb.	1340
	VIII	1	<i>Adenia hondala</i> (Gaertn.) de Wilde	1945
	VIII	2	<i>Modecca dubia</i> Roxb.	2309
				2310

Appendix. Continued

Family	Fasc. No.	Plate No.	Name	Roxburgh's Icon No.
Portulacaceae	I	9	<i>Portulaca tuberosa</i> Roxb.	
Ranunculaceae	I	1	<i>Clematis gouriana</i> Roxb.	1453
Rhizophoraceae	VI	23	<i>Bruguiera gymnorhiza</i> (Linn.) Lamk.	1246
	VI	24	<i>Carallia brachiata</i> (Lour.) Merr.	2511
Rosaceae	VI	16	<i>Rubus hexagynus</i> Roxb.	2267
	VI	17	<i>Rosa involucrata</i> Roxb.	1249
	VI	18	<i>Crataegus crenulata</i> Roxb.	2071
Rutaceae	III	3	<i>Zanthoxylum alatum</i> Roxb.	1916
Sapindaceae	III	13	<i>Harpullia cupanioides</i> Roxb.	2187
Saxifragaceae	VI	19	<i>Vahlia dichotoma</i> (Murr.) O. Kuntze	591
	VI	20	<i>Vahlia digyna</i> (Retz.) O. Kuntze	592
Simarubaceae	III	14	<i>Brucea sumatrana</i> Roxb.	1529
Staphyleaceae	IV	4	<i>Dalrympelea pomifera</i> Roxb.	2193
Sterculiaceae	II	8	<i>Buettnera pilosa</i> Roxb.	2044
	II	9	<i>Pterospermum lanceaefolium</i> Roxb.	2079
	II	10	<i>Pterospermum semi-sagittatum</i> (Buch.) ex Roxb.	1880
	II	11	<i>Sterculia alata</i> Roxb.	2314
	II	12	<i>Sterculia lanceaefolia</i> Roxb.	2312
			<i>Sterculia coccinea</i> Roxb.	2313
	II	13	<i>Sterculia guttata</i> Roxb.	2138
	II	14	<i>Sterculia parviflora</i> Roxb.	2534
	II	15	<i>Sterculia villosa</i> Roxb.	1196
Tamaricaceae	I	10	<i>Tamarix dioeca</i> Roxb.	1390
Tiliaceae	II	16	<i>Berria amomnilla</i> Roxb.	1449
Vitaceae	III	4	<i>Vitis lanata</i> Roxb.	584
	III	5	<i>Vitis latifolia</i> Roxb.	1224
	III	6	<i>Vitis parvifolia</i> Roxb.	2454
	III	7	<i>Cissus adnata</i> Roxb.	1787
	III	8	<i>Cissus angustifolia</i> Roxb.	2035
	III	9	<i>Cissus elongata</i> Roxb.	1528
	III	10	<i>Cissus glauca</i> Roxb.	540
	III	11	<i>Cissus lanceolaria</i> Roxb.	2429
	III	12	<i>Cissus setosa</i> Roxb.	542
	IV	1	<i>Leea integrifolia</i> Roxb.	196
	IV	2	<i>Leea macrophylla</i> Roxb.	925
	IV	3	<i>Leea robusta</i> Roxb.	2043