

FLOWERING PLANTS OF INDIA

AN ANNOTATED CHECKLIST

(DICOTYLEDONS)

VOLUME - II

Editors

Sudhansu Sekhar Dash
Ashiho Asosii Mao

भारतीय वनस्पति सर्वेक्षण, कोलकाता
Botanical Survey of India, Kolkata
केन्द्रीय पुस्तकालय / Central Library
परि. सं. / Acc. No. 41092
दि. / DL 15/12/2021



BOTANICAL SURVEY OF INDIA
2020

**FLOWERING PLANTS OF INDIA
AN ANNOTATED CHECKLIST
(DICOTYLEDONS)**

VOLUME - II

© Government of India

Date of Publication: June, 2020

Editors

Sudhansu Sekhar Dash

Ashiho Asosii Mao

Assistant Editors

Dr. Sriman Lal Meena

Dr. K Karthigeyan

Dr. Dinesh Kumar Agrawala

Dr. Gopal Krishna

Dr. Anant Kumar

Published by :

The Director

Botanical Survey of India

CGO Complex, 3rd MSO Building, Block - F,

5th & 6th Floor, DF - Block, Sector - I, Salt Lake City

Kolkata - 700 064

All rights reserved

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior permission of the copyright owner. Applications for such permission, with a statement of the purpose and extent of reproduction, should be addressed to the Director, Botanical Survey of India, CGO Complex, 3rd MSO Building, Block - F, 5th & 6th Floor, DF - Block, Sector - I, Salt Lake City, Kolkata - 700 064.

ISBN : 978-81-9452291-1

Price : ₹ 1232/-; US \$ 44

Printed at : **Printtech Offset Pvt. Ltd.**

F-66/1 & F-66/2, Chandaka Industrial Area,

P.O. KIIT, Bhubaneswar - 751024, Odisha

LIST OF CONTRIBUTORS

Families	Contributors
STYLIDIACEAE	Subir Bandopadhyaya
GOODENIACEAE	V.K. Mastakar
CAMPANULACEAE	S.S. Dash, Umesh Kumar L. Tiwari
SPHENOCLEACEAE	Subir Bandopadhyaya
ERICACEAE	A.A. Mao, S.S. Dash, Subhasis Panda, Dipanwita Banik and M. Sanjappa
CLETHRACEAE	Subir Bandopadhyaya
PYROLACEAE	Subir Bandopadhyaya
MONOTROPACEAE	Subir Bandopadhyaya
DIPANCIACEAE	V.K. Mastakar and S.S. Dash
PLUMBAGINACEAE	V.K. Mastakar and S.S. Dash
PRIMULACEAE	Umesh Kumar L. Tiwari, and S.S. Dash
MYRSINACEAE	Rijupalika Roy and A. Pramanik
SAPOTACEAE	Rakesh Kumari Nair, K. Thothathri and V.K. Mastakar
EBENACEAE	V. Singh
STYRACACEAE	V.K. Mastakar
SYMPLOCACEAE	D.K. Hore and V.K. Mastakar
OLEACEAE	S.K. Srivastava
SALVADORACEAE	V.K. Mastakar
APOCYNACEAE	Anukui Datta
ASCLEADACEAE	J. Jayanthi, A.P. Jagtap and N.P. Singh
LOGANIACEAE	P. Lakshminarasimhan
BUIVACEAE	P. Lakshminarasimhan
CYTANACEAE	P. Lakshminarasimhan
MYNACEAE	P. Lakshminarasimhan
PELACEAE	P. Lakshminarasimhan
HYDROPHILLACEAE	S.L. Meena, Sanjay Mishra, P.M. Padhye, R.P. Pandey and P. Harikrishna
BORAGINACEAE	S.L. Meena, S.S. Dash, Sanjay Mishra, M. Reema Kumari, P. Daniel and P. Harikrishna
CONVOLVULACEAE	Arti Garg, Anand Kumar, O.N. Maurya, Manas Debta, A.N. Shukla, A.K. Verma, Soumen Gantait, Munmun and Munsil, Anil Kumar,
CUSCUTACEAE	Anil Kumar, A.N. Henary, O.N. Maurya and Anand Kumar
SOLANACEAE	M.K. Janarthanan, A.N. Henry and Manas Ranjan Debta
SCROPHULARIACEAE	Gopal Krishna, P. Lakshminarasimhan, W. Arisdason, U.C. Bhattacharyya, K. Karthigeyan
OROBANCHACEAE	V.K. Madhukar, S.K. Shrivastava, Gopal Krishna, P. Lakshminarasimhan and K.C. Mallick
LENTIBULARIACEAE	N.C. Nair, Gopal Krishna and P. Lakshminarasimhan
GESNERIACEAE	W. Arisdason, P. Lakshminarasimhan, K. Karthigeyan, Gopal Krishna, Dinesh Albertson, P. Venu, Debatri Panja, Tinku Ghosh, H.S. Debnath, G. Gnanasekaran, G.V.S. Murthy, D.K. Roy
BIGNONIACEAE	V. Sampath Kumar, A Rajendran and P. Daniel.
PEDALIACEAE	Gopal Krishna and V. Sampath Kumar
ACANTHACEAE	V. Sampath Kumar and Gopal Krishna
VERBENACEAE	
SYMPHOREMATAACEAE	
AVICENNIACEAE	

LIST OF CONTRIBUTORS

Families	Contributors
STYLIDIACEAE	Subir Bandopadhyaya
GOODENIACEAE	V.K. Mastakar
CAMPANULACEAE	S.S. Dash, Umesh Kumar L. Tiwari
SPHENOCLEACEAE	Subir Bandopadhyaya
ERICACEAE	A.A. Mao, S.S. Dash, Subhasis Panda, Dipanwita Banik and M. Sanjappa
CLETHRACEAE	Subir Bandopadhyaya
PYROLACEAE	Subir Bandopadhyaya
MONOTROPACEAE	Subir Bandopadhyaya
DIPANCIACEAE	V.K. Mastakar and S.S. Dash
PLUMBAGINACEAE	V.K. Mastakar and S.S. Dash
PRIMULACEAE	Umesh Kumar L. Tiwari, and S.S. Dash
MYRSINACEAE	Rijupalika Roy and A. Pramanik
SAPOTACEAE	Rakesh Kumari Nair, K. Thothathri and V.K. Mastakar
EBENACEAE	V. Singh
STYRACACEAE	V.K. Mastakar
SYMPLOCACEAE	D.K. Hore and V.K. Mastakar
OLEACEAE	S.K. Srivastava
SALVADORACEAE	V.K. Mastakar
APOCYNACEAE	Anukul Datta
ASCLEPIADACEAE	J. Jayanthi, A.P. Jagtap and N.P. Singh
LOGANIACEAE	P. Lakshminarasimhan
BUDDLEJACEAE	P.V. Prasanna
GENTIANACEAE	J. Jayanthi
MENYANTHACEAE	P.G. Diwakar
POLEMONIACEAE	S.L. Meena, Sanjay Mishra, Sujit Kumar Das Das, N.P. Singh and P. Harikrishna
HYDROPHYLLACEAE	S.L. Meena, Sanjay Mishra, N.P. Singh, Sujit Kumar Das Das and P. Harikrishna
BORAGINACEAE	S.L. Meena, Sanjay Mishra, P.M. Padhye, R.P. Pandey and P. Harikrishna
CONVOLVULACEAE	S.L. Meena, P.J. Parmar, S.C. Johari, and Shiv Sharma
CUSCUTACEAE	Sujit Kumar Das Das, N.P. Singh, S.L. Meena, Sanjay Mishra and P. Harikrishna
SOLANACEAE	S.L. Meena, S.S. Dash, Sanjay Mishra, M. Reema Kumari, P. Daniel and P. Harikrishna
SCROPHULARIACEAE	Arti Garg, Anand Kumar, O.N. Maurya, Manas Debta, A.N. Shukla, A.K. Verma, Soumen Gantait, Munmun and Munsil, Anil Kumar, Anil Kumar, A.N. Henary, O.N. Maurya and Anand Kumar
OROBANCHACEAE	M.K. Janarthanan, A.N. Henry and Manas Ranjan Debta
LENTIBULARIACEAE	Gopal Krishna, P. Lakshminarasimhan, W. Arisdason, U.C. Bhattacharyya, K. Karthigeyan
GESNERIACEAE	V.K. Madhukar, S.K. Shrivastava, Gopal Krishna, P. Lakshminarasimhan and K.C. Mallick
BIGNONIACEAE	N.C. Nair, Gopal Krishna and P. Lakshminarasimhan
PEDALIACEAE	W. Arisdason, P. Lakshminarasimhan, K. Karthigeyan, Gopal Krishna, Dinesh Albertson, P. Venu, Debatri Panja, Tinku Ghosh, H.S. Debnath, G. Gnanasekaran, G.V.S. Murthy, D.K. Roy
ACANTHACEAE	V. Sampath Kumar, A. Rajendran and P. Daniel.
VERBENACEAE	Gopal Krishna and V. Sampath Kumar
SYMPHOREMATAACEAE	V. Sampath Kumar and Gopal Krishna
AVICENNIACEAE	

Families	Contributors
LAMIACEAE (LABIATAE)	V. Sampath Kumar, Sravani Banerjee, V. Singh, R.P. Pandey, P. Sunoj Kumar and Partha Lodh
PLANTAGINACEAE	Anant Kumar and V. Sampath Kumar
NYCTAGINACEAE	Debasmita Dutta Pramanick
AMARANTHACEAE	Geeta Chaudhury
CHENOPODIACEAE	T.K. Paul
BASELLACEAE	T.K. Paul
PHYTOLACCACEAE	H.S. Debnath
POLYGONACEAE	M. Bhaumik, S.S. Dash and R.C. Srivastava
PODOSTEMACEAE	A. Bhattacharya and M. Bhaumik
NEPENTHACEAE	D.P. Dam, N. Dam and B.K. Das
RAFFLESACEAE	N. Dam and M. Bhaumik
MITRASTEMONACEAE	D.P. Dam, N. Dam and B.K. Das
ARISTOLOCHACEAE	Madhumita Mishra and M. Sanjappa
PIPERACEAE	P. K. Mukherjee
SAURURACEAE	M. Sankara Rao
CHLORANTHACEAE	H.S. Debnath
MYRISTICACEAE	Dipanwita Banik and P.P. Bora
MONIMIACEAE	H. S. Debnath
LAURACEAE	M. Gangopadhyay, T. Chakraborty, T. Bhuiya and P. Singh
HERNANDIACEAE	M. Bhaumik
PROTEACEAE	Kangan Pagag, Surendra Sharma and M. Bhaumik
THYMELAEACEAE	P.V. Prasanna
ELAEAGNACEAE	Sudeshna Datta and M. Bhaumik
LORANTHACEAE	K. Rajasekaran
VISCACEAE	V.N. Sanjai and N.P. Balakrishnan
SANTALACEAE	V.N. Sanjai and N.P. Balakrishnan
BALANOPHORACEAE	N.P. Balakrishnan
BUXACEAE	T. Chakrabarty and N.P. Balakrishnan
EUPHORBIACEAE	T. Chakraborty, N.P. Balakrishnan, M. Gangopadhyay, S.R.M. Susila Rani and M.S. Binojkumar
DAPHNIPHYLLACEAE	T. Chakrabarty and N.P. Balakrishnan
URTICACEAE	S.K. Murti and Prashant K. Pusalkar
ULMACEAE	B.P. Uniyal and R. Mathur
CANNABACEAE	B.P. Uniyal and R. Mathur
MORACEAE	G.K. Upadhyay, A.A. Ansari, J.V. Sudhakar, L.B. Chaudhary, Rinkey Tiwari and G.V.S. Murthy
PLATANACEAE	B.P. Uniyal
JUGLANDACEAE	P.K. Pusalkar
MYRICACEAE	P.K. Pusalkar
CASUARINACEAE	B.P. Uniyal
BETULACEAE	P.K. Pusalkar
FAGACEAE	Shankhamala Mitra and Vinay Ranjan
SALICACEAE	Sukla Chanda and A. Pramanik
CERATOPHYLLACEAE	S.K. Srivastava and B.P. Uniyal

Sphenodesme pentandra Jack var. **wallichiana** (Schauer) Munir, Gard. Bull. Singapore 21: 360. 1966.

Sphenodesme wallichiana Schauer in DC., Prodr. 11: 622. 1847.

Sphenodesme pentandra sensu C.B. Clarke in Hook.f., Fl. Brit. India 4: 602. 1885, non Jack, 1820.

Andaman & Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Maharashtra, Manipur, Meghalaya, Nagaland, Uttar Pradesh.

SYMPHOREMA Roxb., Pl. Coromandel 2: 46, t. 186. 1805.

02 species

Symphorema involucratum Roxb., Pl. Coromandel 2: 46, t. 186. 1805.

Andhra Pradesh, Goa, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Tamil Nadu, Telangana.

Symphorema polyandrum Wight, Icon. Pl. Ind. Orient. 2: t. 363, 1840.

Endemic to India: (?). Andhra Pradesh, Chhattisgarh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Telangana, Uttar Pradesh.

AVICENNIACEAE

(V. Sampath Kumar and Gopal Krishna)

01 Genus; 04 taxa (03 species, 01 infraspecific)

AVICENNIA L., Sp. Pl. 1: 110. 1753.

04 taxa (03 species and 01 variety).

Avicennia alba Blume, Bijdr. Fl. Ned. Ind. 821. 1826.

Avicennia officinalis var. *alba* (Blume) C.B. Clarke in Hook.f., Fl. Brit. India 4: 604. 1885.

Andhra Pradesh, Goa, Gujarat, Kerala (?), Maharashtra, Odisha, Tamil Nadu, West Bengal.

Avicennia marina (Forssk.) Vierh., Denkschr. Kaiserl. Akad. Wiss., Wien. Math.-Naturwiss. Kl. 71: 435. 1907.

Sceura marina Forssk., Fl. Aegypt.-Arab. 37. 1775.

Avicennia officinalis sensu C.B. Clarke in Hook.f., Fl. Brit. India 4: 604. 1885, p.p. non L., 1753.

var. **marina**

Andaman & Nicobar Islands, Andhra Pradesh, Goa (?), Gujarat, Kerala, Maharashtra, Odisha, Tamil Nadu, West Bengal.

var. **acutissima** Staph & Moldenke ex Moldenke, Geogr. Distr. Avicenn. 32. 1939.

Diu & Daman, Goa, Gujarat, Maharashtra, Odisha (?), West Bengal.

Avicennia officinalis L., Sp. Pl. 1: 110. 1753.

Avicennia tomentosa sensu Wight, Icon. Pl. Ind. Orient. 4: t. 1481. 1849, non Jacq., 1760.

Avicennia obovata Griff., Not. Pl. Asiat. 4: 189. 1854.

Andaman & Nicobar Islands, Andhra Pradesh, Goa, Gujarat, Kerala, Maharashtra, Odisha, Tamil Nadu, West Bengal.

LAMIACEAE (*LABIATAE* nom. alt.)

(V. Sampath Kumar, Sravani Banerjee, V. Singh, R.P. Pandey, P. Sunoj Kumar and Partha Lodh)

67 genera; 443 taxa (399 species, 44 infraspecific)

ACHYROSPERMUM Blume, Bijdr. Fl. Ned. Ind. 840. 1826.

01 species

Achyropermum wallichianum (Benth.) Benth. ex Hook.f., Fl. Brit. India 4: 673. 1885.

Teucrium wallichianum Benth. in Wall., Pl. Asiat. Rar. 2: 19. 1830.

Achyropermum densiflorum sensu H.J. Chowdhery, G.S. Giri, G.D. Pal, A. Pramanik & S.K. Das in G.S. Giri & H.J. Chowdhery, Mat. Fl. Arunachal Pradesh 2: 275. 2008, non Blume, 1826.

Arunachal Pradesh, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura.

Pramanik