

A HANDBOOK

OF

THE FLOWERING PLANTS OF NEPAL

VOLUME - 2



Government of Nepal
Ministry of Forests and Environment
Department of Plant Resources
2019

Keshab Raj Rajbhandari
Sanjeev Kumar Rai

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Sanjeev Kumar Rai**



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Government of Nepal

Ministry of Forests and Environment

P.O.Box No. 3987
Singha Durbar, Kathmandu

Ph. { 4211567
4211892
Fax. 4211868

Ref. No.

FOREWORD

I am pleased to know that the Department of Plant Resources is going to publish the book '*A Handbook of the Flowering Plants of Nepal Volume 2*'. The book comprises a list of flowering plants of Nepal. As in the first volume of this series, an updated checklist of the flowering plants of Nepal is presented in this volume based on the herbarium specimens collected from Nepal and available literature and online resources. In the book, 67 families of the flowering plants reported from Nepal are presented. The authors have compiled the information from the specimens preserved in various institutions in Nepal, India, Japan, Europe, China, United State of America and many other countries.

I express my sincere thanks to Dr. Keshab Raj Rajbhandari, former Scientific Officer and Mr. Sanjeev Kumar Rai, Director General of the Department of Plant Resources for their painstaking efforts to prepare the manuscript of this book. I am thankful to Mr. Mohan Dev Joshi, Mr. Subhash Khatri, Mr. Ganga Datt Bhatt and Ms. Rita Chhetri of the Department of Plant Resources for their help in managing the publication of this volume. I believe the book will be useful to policy makers, scientists, researchers, and all working on the flora of Nepal.

Dr. Bishwa Nath Oli
Secretary

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Keshab Raj Rajbhandari
Sanjeev Kumar Rai

CONTENTS

Page

Foreword	
Introduction	1
Flowering plants of Nepal	
Paeoniaceae	3
Hamamelidaceae	3
Daphniphyllaceae	3
Grossulariaceae	4
Saxifragaceae	7
Crassulaceae	39
Haloragaceae	55
Vitaceae	55
Zygophyllaceae	68
Fabaceae	68
Polygalaceae	167
Rosaceae	172
Elaeagnaceae	233
Rhamnaceae	236
Ulmaceae	245
Cannabaceae	246
Moraceae	249
Urticaceae	263
Fagaceae	288
Myricaceae	294
Juglandaceae	295
Betulaceae	296
Coriariaceae	299
Cucurbitaceae	299
Tetramelaceae	309
Datisceae	309
Begoniaceae	309
Celastraceae	316
Oxalidaceae	325
Elaeocarpaceae	328
Rhizophoraceae	330

Ochnaceae	330
Clusiaceae	331
Podostemaceae	331
Hypericaceae	332
Putranjivaceae	338
Centroplacaceae	338
Elatinaceae	339
Malpighiaceae	339
Achariaceae	340
Violaceae	341
Passifloraceae	346
Salicaceae	347
Euphorbiaceae	361
Linaceae	379
Phyllanthaceae	380
Geraniaceae	394
Combretaceae	399
Lythraceae	402
Onagraceae	407
Myrtaceae	419
Melastomataceae	422
Staphyleaceae	427
Stachyuraceae	428
Burseraceae	428
Anacardiaceae	429
Sapindaceae	435
Rutaceae	441
Simaroubaceae	451
Meliaceae	452
Malvaceae	457
Thymelaeaceae	476
Dipterocarpaceae	479
Resedaceae	480
Capparaceae	480
Cleomaceae	482
Brassicaceae	483
References	517
Index of families and genera	518

INTRODUCTION

The present book '*A handbook of the flowering plants of Nepal Volume 2*' is a list of the flowering plants of Nepal. The present volume is the second in the series. As in the first volume of this series, in this volume also, an updated checklist of the flowering plants of Nepal is presented based on the herbarium specimens collected from Nepal and given in available literature and online resources relevant to new taxa, national or regional new records, and new taxonomic papers (Rajbhandari & Rai, 2017). In the book 67 families of the flowering plants reported from Nepal are presented.

The present volume is based on the herbarium specimens of the flowering plants collected in Nepal. As before, it felt very much difficult to compile all these specimens as these specimens are preserved in various institutions in Nepal, India, China, Japan, Europe and America and we could not check most of them (Table 1). However, the specimens published in various articles and books have been cited in this volume. The species whose distribution in Nepal has been mentioned in the literature but the specimen from Nepal is not given has not been included in this volume.

The format of the species information in the book has been followed as in the first volume of this series. Some specimens including holotypes, which are said to be preserved in the National Herbarium of Nepal (KATH), but if they had not been found there, are marked with asterisk. They can be included in the later editions, when they will be found.

Table 1. List of the institutions (herbaria) where the Nepalese specimens of flowering plants are preserved.

<u>Acronym</u>	<u>Institution</u>	<u>Country</u>
A	Harvard University Herbaria, Cambridge, Massachusetts	U. S. A.
ASSAM	Botanical Survey of India, Eastern Regional Centre, Shillong, Meghalaya	India
B	Botanischer Garten und Botanisches Museum Berlin-Dahlem, Zentraleinrichtung der Freie Universität Berlin	Germany
BHAG	Botany Department, T. M. Bhagalpur University, Bhagalpur, Bihar	India
BLAT	Blatter Herbarium, St. Xavier College, Mumbai	India
BM	Natural History Museum, London	U. K.
BR	National Botanic Garden of Belgium, Meise	Belgium
BSD	Botanical Survey of India, Dehra Dun	India
C	University of Copenhagen, Copenhagen	Denmark
CAL	Central National Herbarium, Botanical Survey of India, Sibpur, Kolkata, West Bengal	India
CGE	Cambridge University Herbarium, Department of Plant Sciences, Downing Street, Cambridge	U. K.
DD	Forest Research Institute, Indian Council of Forestry Research and Education, Dehra Dun, Uttaranchal	India
E	Royal Botanic Garden Edinburgh, Edinburgh, Scotland	U. K.
F	Field Museum, Chicago, Illinois	U. S. A.
G	Conservatoire et Jardin Botaniques de Geneve, Geneva	Switzerland
G-DC	De Candolle Herbarium, Conservatoire et Jardin Botaniques de la Ville de Genève	Switzerland

GB	University of Gothenburg Herbarium, Gothenburg	Sweden
GH	Gray Herbarium, Harvard University Herbaria & Libraries Cambridge, Massachusetts	U. S. A.
GOET	Herbarium Goettingen, Georg-August-Universitaet Goettingen, Goettingen	Germany
GZU	Institute for Botany – Herbarium, Institute of Plant Sciences, Karl Franzens University of Graz, Graz	Austria
HBG	Biozentrum Klein Flottbek und Botanischer Garten der Universitat Hamburg,	Germany
JE	Friedrich-Schiller-Universitaet, Jena	Germany
K	Royal Botanic Gardens, Kew, Surrey	U. K.
K-LINDL	Lindley Herbarium, Royal Botanic Gardens, Kew	U. K.
K-W	Wallich Herbarium, Royal Botanic Gardens, Kew	U. K.
KANP	Herbal Garden, Faculty of Pharmaceutical Sciences, Kanazawa University, Kanazawa	Japan
KATH	Department of Plant Resources, Godawari, Lalitpur	Nepal
KUN	Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, Yunnan	P. R. China
KYO	University of Kyoto, Kyoto	Japan
L	Nationaal Herbarium Nederland, Leiden Universiteit Branch, Leiden	Netherlands
LD	Lund University, Lund	Sweden
LE	Komarov Botanical Institute, St. Petersburg	Russia
LINN	Linnean Society of London, London	U. K.
LINN-SM	Smith Herbarium, Linnean Society of London, London	U. K.
LIV	World Museum Liverpool, Liverpool, England	U. K.
M	Botanische Staatssammlung Munchen, Munich	Germany
MAK	Tokyo Metropolitan University, Tokyo	Japan
MB	Philipps University Marburg, Marburg	Germany
MO	Missouri Botanical Garden, St. Louis, Missouri	U. S. A.
MW	Moscow State University, Moscow	Russia
NEU	Universit de Neuchitel, Neuchitel	Switzerland
NY	New York Botanical Garden, New York City, New York	U. S. A.
OXF	Fielding-Druce Herbarium, University of Oxford, Oxford	U. K.
P	Museum National d’Histoire Naturelle, Paris	France
PE	Chinese National Herbarium, Chinese Academy of Sciences, Xiangshan, Beijing,	P. R. China
PR	National Museum in Prague, Prague	Czech Republic
TI	University of Tokyo, Tokyo	Japan
TNS	Department of Botany, National Museum of Nature and Science, Tsukuba	Japan
TO	University of Turin, Torino	Italy
TUCH	Central Department of Botany, Tribhuvan University, Kathmandu	Nepal
TUS	Tohoku University, Sendai, Tohoku	Japan
UPS	Museum of Evolution Herbarium, Uppsala University, Uppsala	Sweden
US	United States National Herbarium, Smithsonian Institution, Washington, D. C.	U. S. A.
W	Naturhistorisches Museum Vienna, Vienna	Austria
WHB	Universitat fur Bodenkultur, Vienna	Austria
WU	Institute of Botany, University of Vienna, Vienna	Austria
DHAN	Kailali District Plant Resources Office, Department of Plant Resources, Dhangadhi, Kailali	Nepal
NHM, TU	Natural History Museum, Tribhuvan University, Kathmandu	Nepal
PG Campus	PG Campus, Tribhuvan University, Biratnagar	Nepal



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