

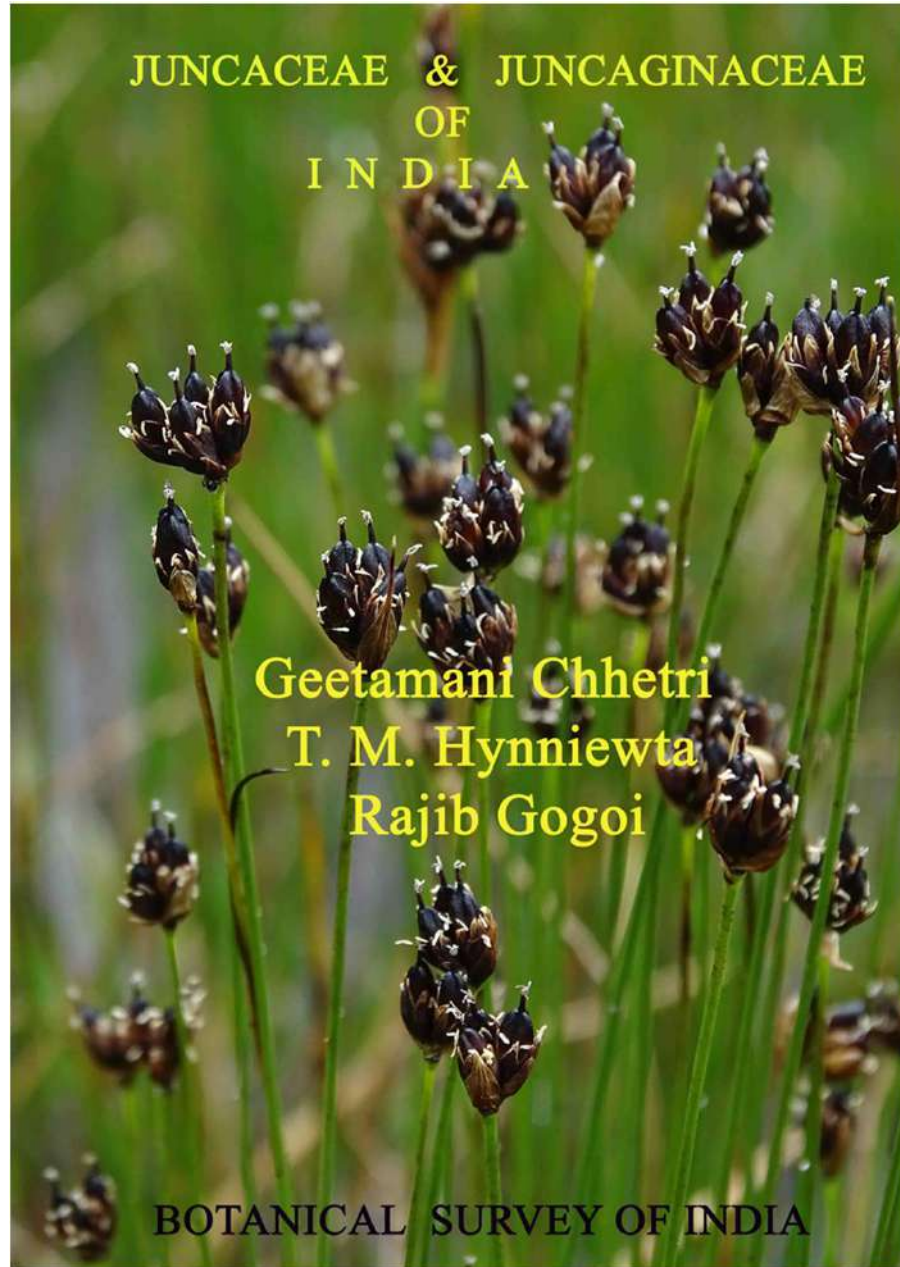
BSI

# ANNUAL SCIENTIFIC MEET 2021



Name of the Centre/Unit: BSI-SHRC, GANGTOK

Dated: 03—04 May 2021



Submitted Projects

FLORA of INDIA vol. 28

**JUNCACEAE**  
(*Geetamani Chhetri, T. M. Hynniewta & R. Gogoi*)  
2 genera, 57 species and 2 varieties in India.

**JUNCAGINACEAE**  
(*Geetamani Chhetri, T. M. Hynniewta & R. Gogoi*)  
1 genera and 2 species in India.



**SUBMITTED**  
**1 genus 42 species**



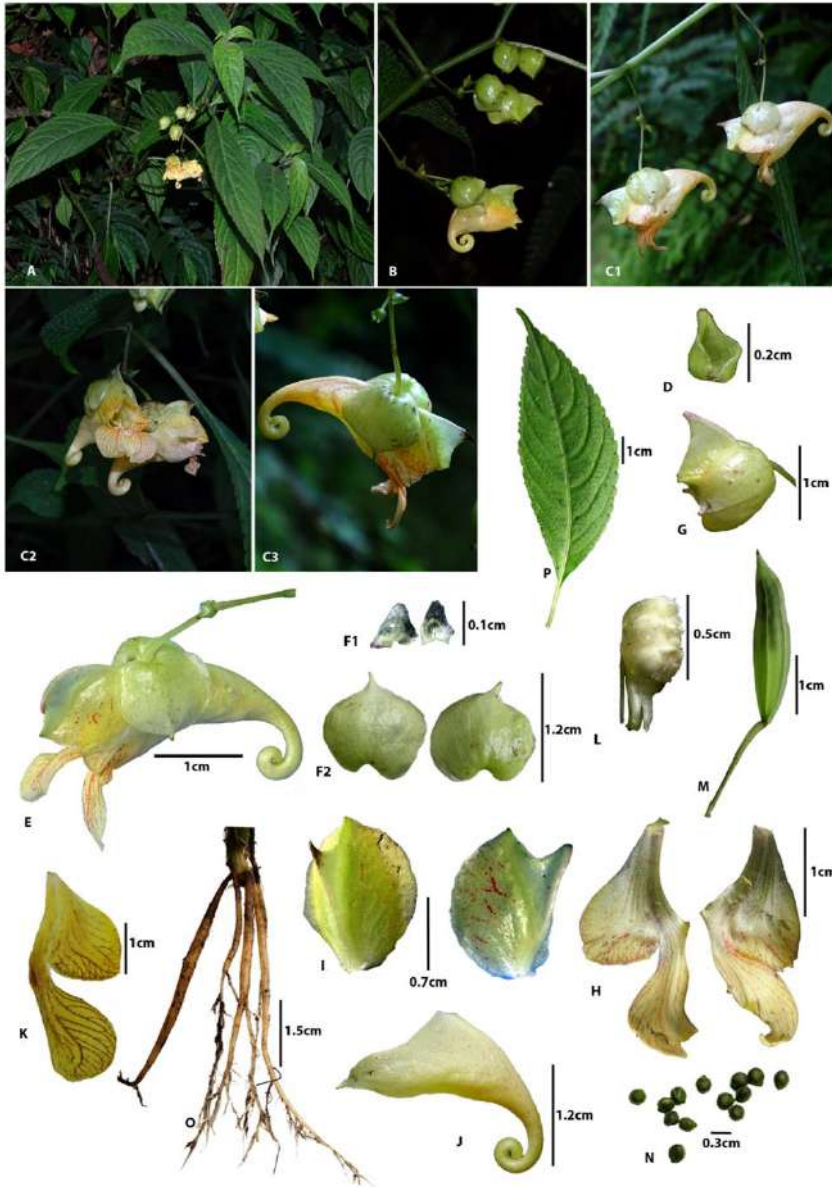
Report on  
**TAXONOMIC REVISION OF *IMPATIENS* L.**  
**(BALSAMINACEAE)**  
**OF SIKKIM & DARJEELING HIMALAYA**  
(2017-2020)

**RAJIB GOGOI**



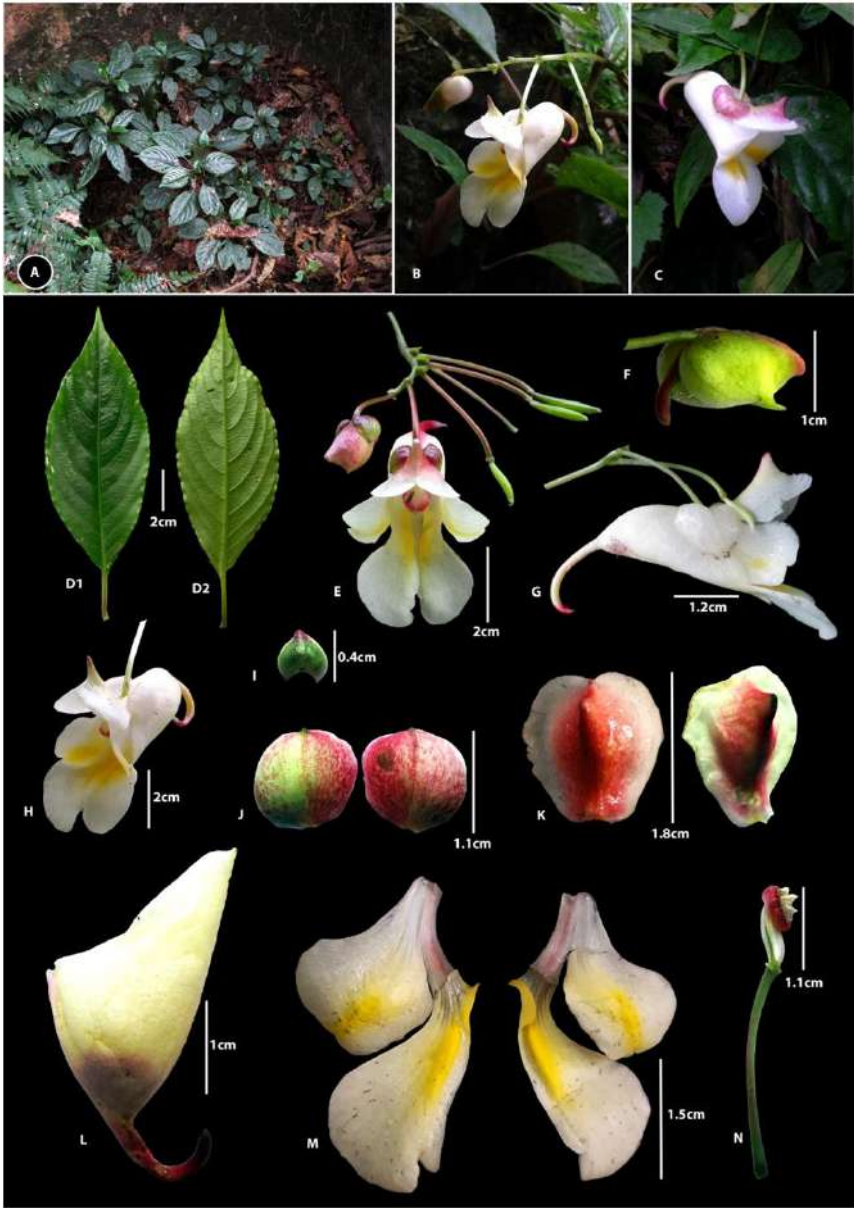
भारतीय वनस्पति सर्वेक्षण  
BOTANICAL SURVEY OF INDIA

Botanical Survey of India, Sikkim Himalaya Regional Centre,  
Gangtok-737103, Sikkim, India



*Impatiens bakthangensis* Chhetri, Sherpa & Gogoi





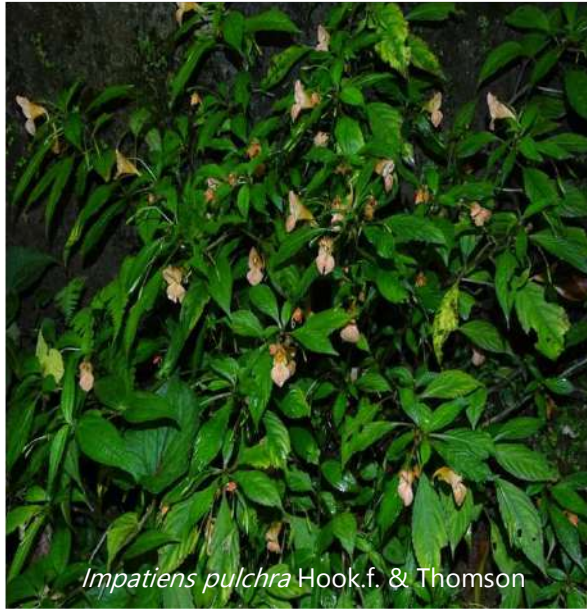
*Impatiens cathcartii* Hook.f



*Impatiens cothurnoides* C.E.C.Fisch



EX-SITU CONSERVATION OF BALSAMS (12 spp.)



*Impatiens pulchra* Hook.f. & Thomson



*Impatiens cathcartii* Hook.f.



*Impatiens bakthangensis* Chhetri, Sherpa & Gogoi



*Impatiens jurpia* Buch.-Ham. ex Hook.f. &



*Impatiens tripetala* Roxb. ex DC.



*Impatiens puberula* DC.



*Impatiens discolor* DC.



RHODODENDRON PLANTATION (14 spp.)









# RESCUE OF RHODODENDRON TREES





GENERAL PLANTATIONS (38 spp.)



*Hypericum choisyianum* Wall. ex N.P.



*Kaempferia rotunda* L.



*Roscoea auriculata* K.Schum.



*Hypericum uralum* Buch.-Ham. ex B.F.



*Rhododendron maddenii* Hook.f.



*Agapetes serpens* (Wight) Sleumer



*Lysionotus atropurpureus* H.Hara



*Rohdea nepalensis* (Raf.) N.Tanaka



*Paris polyphylla* Sm.



*Curcuma longa* L.



*Aeschynanthus gracilis* C.S.P.Parish  
ex C.B.Clarke



## Ex-situ conservation of *Elatostema* and Other Plants



*Elatostema platyphyllum* Wedd.



*Elatostema integrifolium* (D. Don) Wedd.



*Elatostema hookerianum* Wedd.



*Viburnum grandiflorum* Wall. ex DC.



Rescued orchids mounted on the wall



*Chrysosplenium lanuginosum* Hook. f. & Thomson



*Pinus yunnanensis* var. *pigmea*





# SIKKIM BIODIVERSITY INTERPRETATION GALLERY







“Sikkim Biodiversity Interpretation Gallery” at BSI-SHRC Inaugurated by Dr. A. A. Mao, Director, BSI on 11.01.2021





**MoU Signed (Three) with initiation from BSI-SHRC-Gangtok**



1. BSI with Sikkim University on 11.01.2021
2. BSI with Forest & Environment, Sikkim on 12.01.2021
3. BSI with Cinchona Plantation on 04.02.2021

**Cinchona Plantations, Govt. of West Bengal**





# Non-AAP Project - Checklist Flora of Sikkim

April 2019 - March 2021

5076 taxa (including 147 cultivated taxa), belonging to 1482 genera and 209 angiosperm



## FLORA OF SIKKIM

A Pictorial Guide

Rajib Gogoi  
Norbu Sherpa  
J. H. Franklin Benjamin  
Dinesh Kumar Agrawala  
Sundar Kumar Rai  
Sudhansu Sekhar Dash'

(Botanical Survey of India, SHRC, Gangtok, Sikkim &  
'BSI Headquarters, Kolkata)

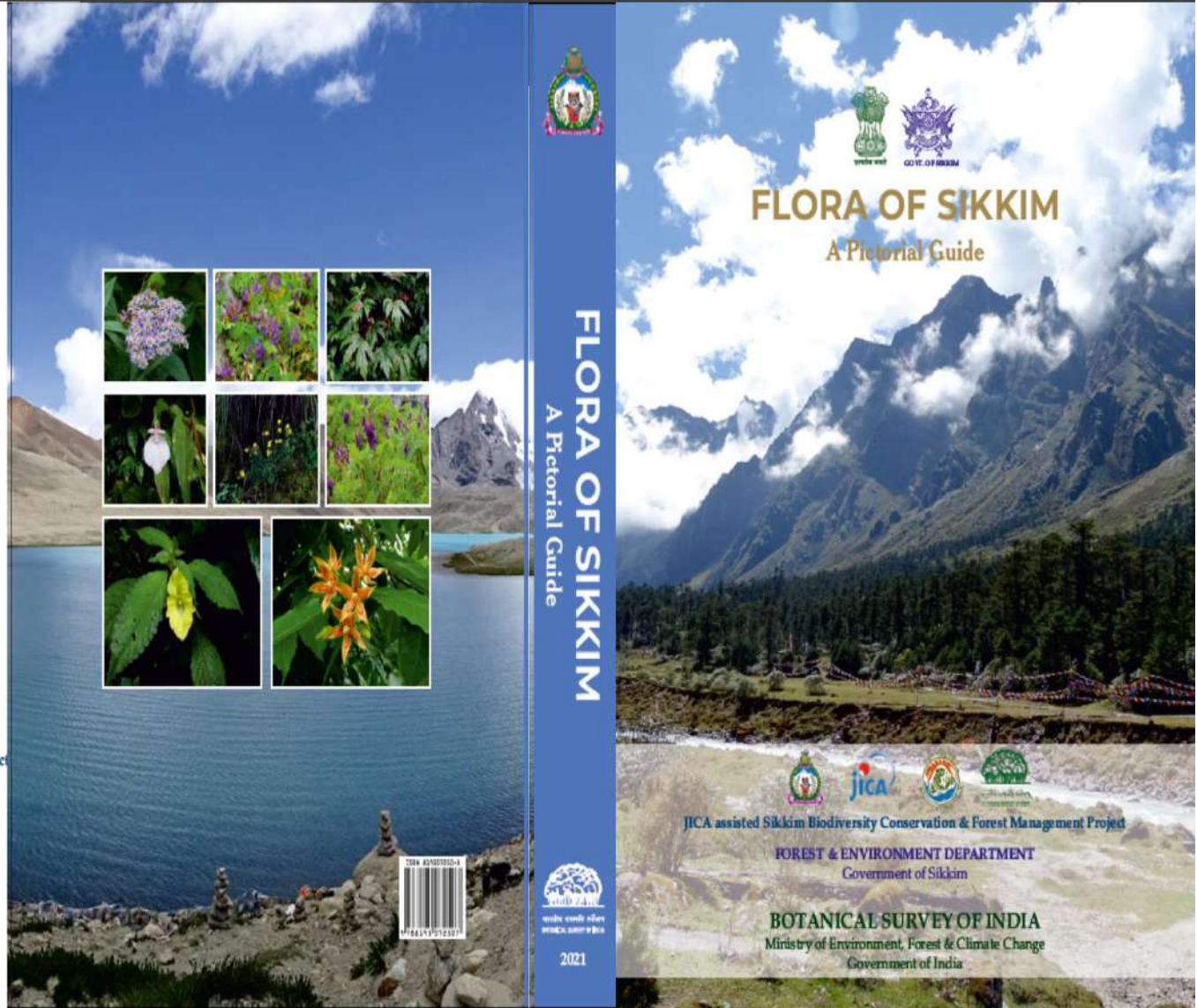


JICA assisted Sikkim Biodiversity Conservation & Forest Management Project

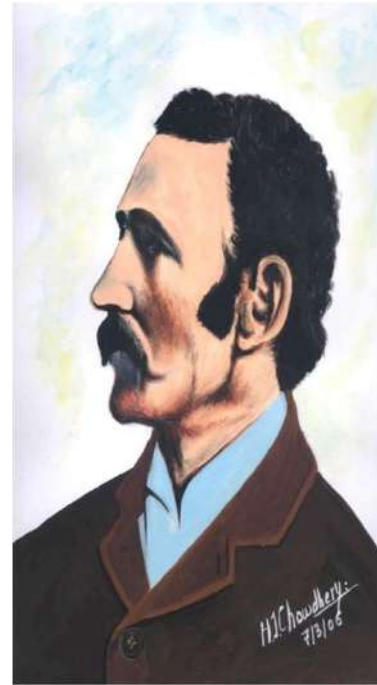
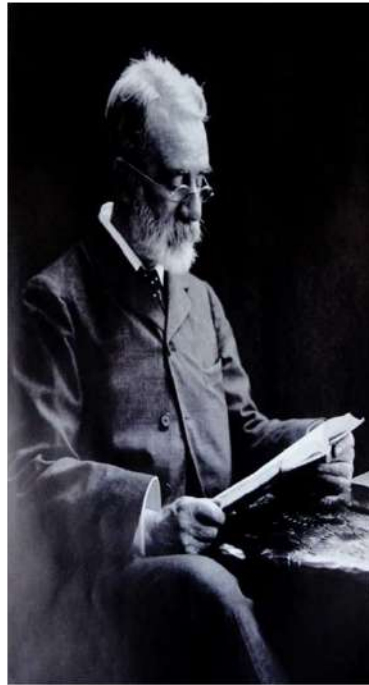
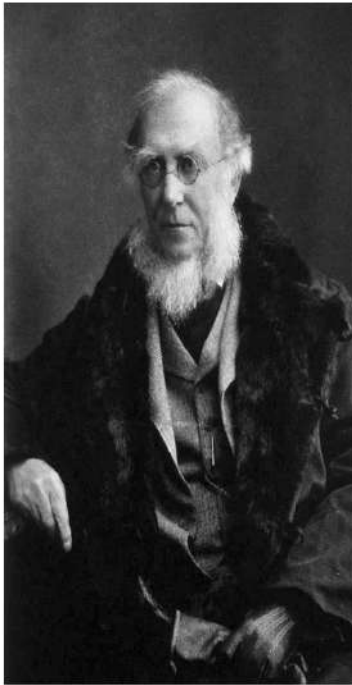
FOREST & ENVIRONMENT DEPARTMENT  
Government of Sikkim

**BOTANICAL SURVEY OF INDIA**  
Ministry of Environment, Forest & Climate Change  
Government of India

2021





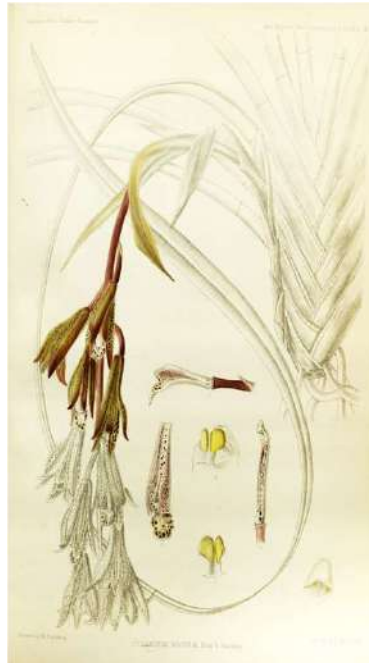


**Left to Right:**

Sir J. D. Hooker;  
Thomas Thomson;  
Sir George King;  
Robert Pantling

**Left to Right:**

Lithograph of  
*Rhododendron dalhousiae* Hook.f.  
from the book *The Rhododendrons of Sikkim Himalaya* (1849-1851);  
*R. Dalhousiae* Hook.f. in its habitat;  
lithograph of  
*Cymbidium whiteae* King & Pantl. from  
*The Orchids of Sikkim-Himalaya* (1898); flowers of *C. whiteae* King & Pantl.











*Paris polyphylla* Sm.



*Polygonatum oppositifolium* (Wall.)



*Arachnis clarkei* (Rchb.f.)  
J.J.Sm.



*Bulbophyllum voksunense* J.J.Sm.



*Zingiber clarkei*  
King ex Baker



*Ariopsis protanthera*  
N.E.Br.



*Arisaema speciosum*  
(Wall.) Mart.



*Juncus grisebachii*  
Buchenau



*Juncus clarkei* Buchenau



*Iris clarkei* Baker  
ex Hook.f.





*Aster sikkimensis* Hook.f. &



*Hedysarum sikkimense* Benth. ex



*Gentiana sikkimensis*



*Begonia sikkimensis* A.DC.



# IUCN RED LISTING INITIATIVE



## CERTIFICATE OF ACHIEVEMENT

IUCN, International Union for Conservation of Nature, hereby recognizes  
**RAJIB Gogoi**

As having successfully completed the Global IUCN Red List Assessor exam for the online course  
**Module 8: IUCN Red List Exam**



## CERTIFICATE OF ACHIEVEMENT

IUCN, International Union for Conservation of Nature, hereby recognizes  
**DINESH KUMAR AGRAWALA**


As having successfully completed the Global IUCN Red List Assessor exam for the online course  
**Module 8: IUCN Red List Exam**



## CERTIFICATE OF ACHIEVEMENT

IUCN, International Union for Conservation of Nature, hereby recognizes  
**Dr. J.H. Franklin Benjamin**

As having successfully completed the Global IUCN Red List Assessor exam for the online course  
**Module 8: IUCN Red List Exam**



Advanced About Assessment process Resources & Publications Support us

Search for "gogoi" Relevance ▾

**TYPE**

- Species
- Featured Regions
- Documents
- Red List Indices


**SEARCH FILTERS**

- ▶ Taxonomy
- ▶ Red List Category
- ▶ Land Regions
- ▶ Country Legends
- ▶ Marine Regions
- ▶ Threats
- ▶ Habitats
- ▶ Conservation Actions Needed
- ▶ Research Needed

**RESULTS (3)** Download Save search

Geographical Scope: Global X


Include: Species X



PLANTAE - LILIOPSIDA GLOBAL

**Musa argentea**


Unknown <CR>



PLANTAE - LILIOPSIDA GLOBAL

**Puspanjali's banana**  
*Musa puspangaliae*

Stable <LC>




PLANTAE - LILIOPSIDA GLOBAL

**Markku's banana**  
*Musa markku*

Stable <LC>

**For Publication**



***Impatiens cothurnoides* - C.E.C.Fisch.**

PLANTAE - TRACHEOPHYTES - MAGNOLIOPSIDA - ERICALES - BALSAMINACEAE - Impatiens - cothurnoides

Consensus Name: The Giant Balsam (English)  
Synonym(s): No Synonym(s)  
Taxonomic Note:

Red List Status

EN - Endangered, B1ab(1,1,1,1,1,1,v)+2ab(1,1,1,1,1,1,v) (IUCN version 3.1)

Red List Assessment

**Assessment Information**

Reviewed?	Date of Review:	Status	Reasons for Rejection/Improvements Needed:
True	2013-01-27	Paused	

Assessor(s): Gogoi, R., Storp, N. & Agrawala, D.K.  
Reviewer(s): Adamowski, W. & Allen, D.J.

**Assessment Rationale**

The species is presently considered to occur in three locations comprising in total 1000 mature individuals. No plants have been found to persist in one of the subpopulations.



# Programmes Organised

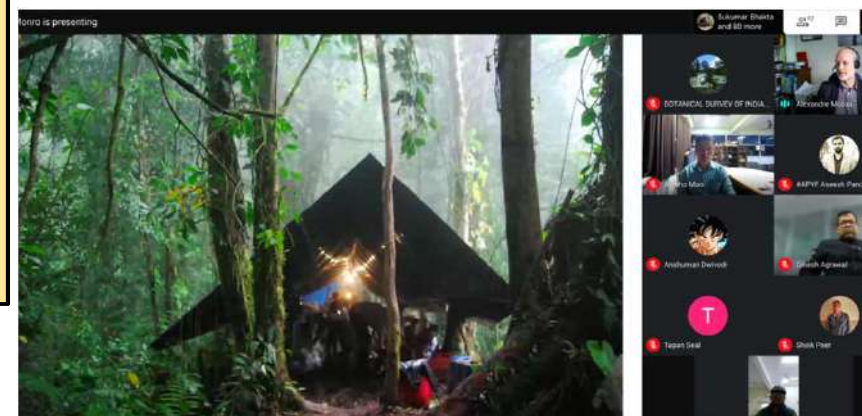
1. Organised **International Biodiversity Day** on 22.05.2020: Planted plant saplings and raised cuttings of *Taxus baccata* L., *Cephalotaxus griffithii* Hook.f. & *Camellia japonica* L. with all the staff and students of this office.
2. Organised **World Environment Day** on 05.06.2020: Planted plant saplings and raised cuttings of *Rhododendron griffithianum* Wight, *Rhododendron maddenii* Hook.f. with students of different schools.





# Programmes Organised: WEBINAR (National/International)

1. Organised National Webinar on 10.12.2020 the topic “Himalayan Mountain Biodiversity Threats & Solutions” in connection with International Mountain Day.
2. Organised International Webinar on 08.01.2021, delivered by Prof. Bogdan Jaroszewicz, Poland on the topic “Science in Białowieża Forest - Białowieża Forest in science” for the Green Talk series organised by BSI-SHRC-Gangtok.
3. Organised International Webinar on 23.02.2021, talk delivered by Dr. Alex Monro, RBG, Kew, London on the topic “Exploration of La Amistad National Park (Costa Rica / Panama)” for the 2<sup>nd</sup> Green Talk as part of the series organised by BSI-SHRC-Gangtok.





# PUBLICATION

Book Published: 1

GOGOI, R., N. SHERPA, J.H. FRANKLIN BENJAMIN, D.K. AGRAWALA, S.K. RAI AND S.S. DASH (2021). *Flora of Sikkim – A Pictorial Guide*. Department of Forest and Environment, Sikkim and Botanical Survey of India, Kolkata, 566pp. ISBN: 978-81-950725-0-7

Scientific papers:

***R. Gogoi***, students etc. : 10 papers (6 international, 4 national)

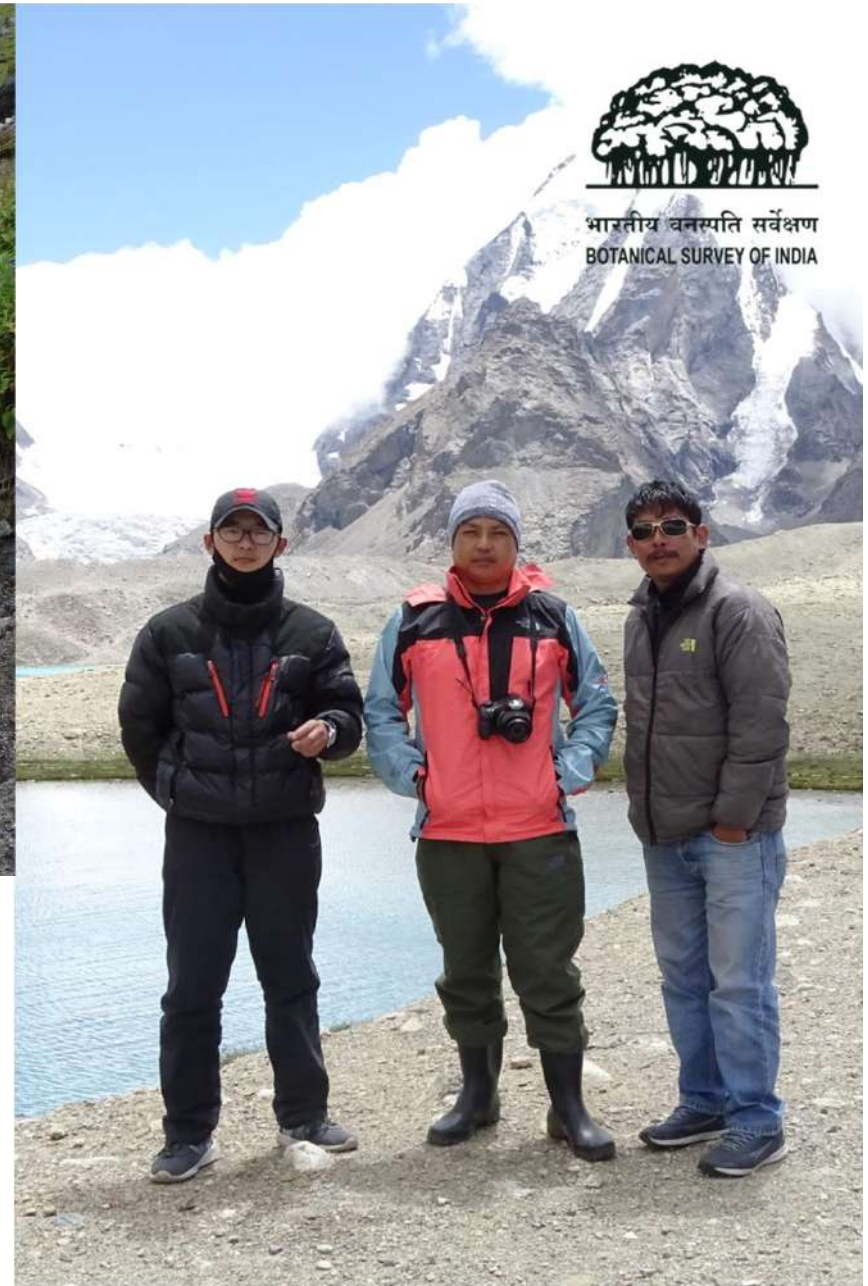
***D. K. Agrawala***, students etc. : 4 papers (2 International, 2 national)

***J.H. Franklin Benjamin*** with others: 1 paper International









भारतीय वनस्पति सर्वेक्षण  
BOTANICAL SURVEY OF INDIA

*THANK YOU*