



Annual Scientific Meet Presentation

By

Dr. Ramesh Kumar

Scientist C

**Botanical Survey of India
Arid Zone Regional Centre
Jodhpur-342014**

Title of Ph.D. thesis: “Flora of Panna district with special reference to vegetation of diamond mining areas”

Name of the guide: Prof. T. R. Sahu (Retd.)
Dr. H. S. Gour Vishwavidyalaya
Sagar (M.P.)

Name of the Co-guide: Dr. B. K. Shukla (Retd.)
Botanical Survey of India

University/institution: Dr. H. S. Gour Vishwavidyalaya,
Sagar (M.P.)

(I did my Ph.D. in service not as research scholar)

Titles of Project: "Flora of Faridabad District (Haryana)"

(Under District Flora Scheme of BSI)

(Sponsor to University of Delhi, Delhi)

Name of the Executing person: Mr. Ramesh Kumar, Junior Research Fellow

Name of the Supervisor: Dr. Prithipal Singh, Kirori Mal College,
University of Delhi, Delhi

Tenure of the Project: 1984 – 1988.

Name of the Regional Station: Northern Regional Centre, Dehradun.

Date of initiation: December 1984.

Date of completion: March 1988.

Status of the Project: Report and relevant specimens were deposited at Northern Regional Centre, Dehradun.

Summary of the project: The area represented 641 species belonging to 437 genera under 103 families. The dominant family was Leguminosae followed by Poaceae and Asteraceae.

Titles of Project: “Conservation and multiplication of RET, medicinal and Economically important plant species of A&N Islands”

Name of the Executing Scientist: Mr. Ramesh Kumar,
Garden Curator (Botanist)

Tenure of the Project: 1988 – 1992.

Name of the Regional Station: Andaman Nicobar Regional
Centre, Port Blair.

Date of initiation: August 1988.

Date of completion: On-going project.

Summary of the project: During the tenure several tours to different places of A & N Islands were undertaken and introduced 33 endemic, 32 economic and 30 medicinal plant species in EBG, Dhanikhari; collected seeds of 22 plant species also listed 175 existing species of EBG.

Titles of Project: “Conservation and multiplication of RET, medicinal and Economically important plant species of Central India”

Name of the Executing Scientist: Mr. Ramesh Kumar
Garden Curator (Botanist)

Tenure of the Project: 1992 – 2002.

Name of the Regional Station: Central Regional Centre,
Allahabad (U.P.)

Date of initiation: October 1992.

Date of completion: On-going project.

Summary of the project: During the tenure several tours to different places of U.P., M. P. & IBG were undertaken and procured 84 medicinal, 42 economic & 358 other plant for EBG, Allahabad. Also collected seeds of 122 plant species.

Prizes won (in flower show) : 27 (Twenty seven)

First – 7.

Second – 12.

Consulation - 8.

Titles of Project: “Flora of Panna district with special reference to vegetation of diamond mining areas”

Name of the Executing Scientist: Mr. Ramesh Kumar,
Garden Curator (Botanist)

Tenure of the Project: 2001 – 2005.

Name of the Regional Station: Central Regional Centre,
Allahabad (U.P.)

Date of initiation: April 2000.

Date of completion: Thesis submitted in June 2005.

Summary of the project: The area represented 948 species belonging to 578 genera under 136 families. The dominant family was Poaceae followed by Leguminosae and Asteraceae.

Ph.D. Degree was awarded in 2006.

Titles of Project: “Conservation & Multiplication of RET, medicinal and Economically important plant species of Indian region”

Name of the Executing Scientist: Mr. Ramesh Kumar,
Garden Curator (Botanist)

Tenure of the Project: 2002 – 2007.

Name of the Regional Station: BGIR, NOIDA.

Date of initiation: July 2002.

Date of completion: Ongoing project.

Summary of the project: During the tenure several tours to different places of India were undertaken and procured 33 endemic, 32 economic and 170 medicinal plant species for introduction in BGIR, NOIDA. Also collected seeds of 45 pant species. The details are as follows....

Name of the place	No. of species procured	Endemic	Medicinal	Seeds (species)
Rewa, Panna, Jabalpur (M.P.)	82	-	57	24
KFRI, Peechi Kerala	21	6	6	-
Port Blair A & N Islands	38	11	5	5
Coimbatore Tamil Nadu	26	2	6	12
Chitradurga Karnataka	4	-	-	-
ICFRE, Dehradun Uttarakhand	51	2	20	4
Valsad, Dang Gujarat	38	-	20	-
Amarkantak Chhatisgarh	59	-	36	-
Jodhpur Rajasthan	44	-	20	-

Titles of Project: “Conservation & Multiplication of RET, medicinal and Economically important plant species of North-east India”

Name of the Executing Scientist: Dr. Ramesh Kumar,
Scientist B

Tenure of the Project: 2007 – 2012.

Name of the Regional Station: Eastern Regional Centre,
Shillong (Meghalaya).

Date of initiation: May 2007.

Date of completion: On-going project.

Summary of the project: During the tenure several tours to different places of Assam, Meghalaya and Mizoram were undertaken & collected 15 RET/endemic, 42 economic, 84 medicinal and 358 plant species for introduction in EBG, Barapani. Also collected seeds of 136 plant species.

Titles of Project: “Field Data Collection in Pynursla & Mawphlang Block and Mapping of Forests Flora in East Khasi Hills, Meghalaya”
(Funded by NESAC, Umiam, Meghalaya)

Name of the Executing Scientist: Dr. Ramesh Kumar,
Scientist B

Tenure of the Project: 2012 – 2014.

Name of the Regional Station: Eastern Regional Centre, Shillong.

Date of initiation: April 2012.

Date of completion: April 2014.

Summary of the project: During the tenure several tours to 63 GPS co-ordinates were undertaken to record the data of Medicinal and aromatic plants from the sample plots.

Status of the Project: Report submitted to NESAC and relevant specimens along with report were deposited at Eastern Regional Centre, Shillong (Meghalaya). Also collected 4 RET/endemic, 16 economic, 63 aromatic/medicinal plant species for introduction in EBG Barapani.

Titles of Project: "Flora of Murlen National Park (Mizoram)"

Name of the Executing Scientist: Dr. Ramesh Kumar, Scientist C

Mr. Sachin Sharma, Bot. Assistant

Tenure of the Project: 2012 – 2015.

Name of the Regional Station: Eastern Regional Centre, Shillong.

Date of initiation: June 2012.

Date of completion: April 2015.

Status of the Project: Report and relevant specimens were deposited at Eastern Regional Centre, Shillong.

Summary of the project: The area represents 903 species belonging to 520 genera under 136 families. The dominant family is Orchidaceae followed by Leguminosae and Asteraceae. Also collected 27 RET/endemic, 147 economic, 67 medicinal and 282 other plant species for introduction in EBG Barapani & seeds of 14 species.

Titles of Project: “Floristic diversity of Aliyabet, Bharuch(Gujarat)”

Name of the Executing person: Mr. Vinod Maina, Scientist D

Dr. Ramesh Kumar, Scientist C

Dr. Chandan Singh Purohit, Scientist B

Tenure of the Project: 2016 (Most urgent).

Name of the Regional Station: Arid Zone Regional Centre, Jodhpur.

Date of initiation: October 2016.

Date of completion: November 2016.

Status of the Project: Report was submitted to MoEF&CC through Director, BSI & relevant specimens are in process of finalization at Arid Zone Regional Centre, Jodhpur.

Summary of the project: The area represents 115 species belonging to 90 genera under 34 families. The dominant family is Poaceae followed by Leguminosae and Convolvulaceae.

Titles of Project: “Flora of Navsari District (Gujarat)”

**Name of the Executing person: Dr. Ramesh Kumar, Scientist C
Mr. Vinod Maina, Scientist D**

Tenure of the Project: 2015 - 2020.

Name of the Regional Station: Arid Zone Regional Centre, Jodhpur.

Date of initiation: September 2015.

Date of completion: March 2020.

Status of the Project: Tours undertaken: 03 (Three)

Field number collected: 1294

Live plants procured: 27 species

Seeds collected: 12 species

Species identified: 359

Live plants collected: RET – 11, Medicinal – 36, Economic – 14 & others 33 also collected seeds of 21 species for introduction purposes.

Last tour’s specimens are under process of mounting and stitching.



New taxa described: 06 (Six)

Hellenia meghalayensis R. Kumar, Sushil K. Singh & B. K. Sinha

Hellenia paramjitii R. Kumar, Sushil K. Singh & Sachin Sharma

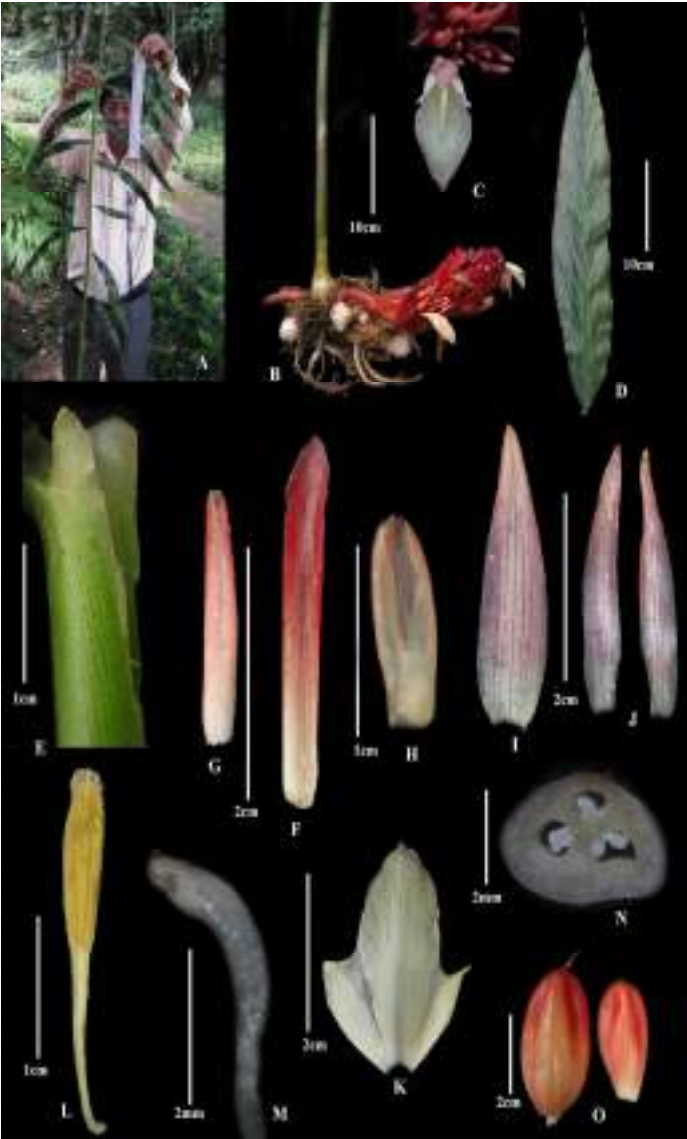
Phanera glauca var. *murlenensis* R. Kumar, Bandyop. et S.Sharma

Zingiber meghalayense Sushil K. Singh, R. Kumar & Mood

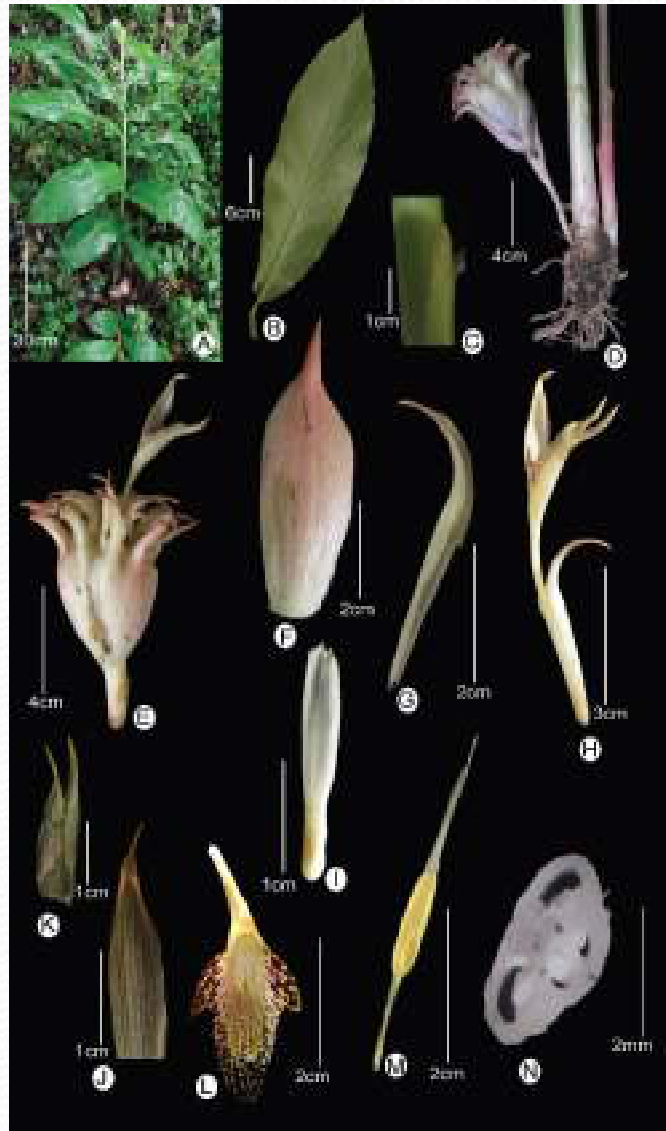
Zingiber mizoramensis R. Kumar, Sushil K.Singh & S.Sharma

Zingiber murlenica R. Kumar, Sushil K.Singh & S.Sharma

New taxa described



Zingiber meghalayense



Zingiber murlenica



Zingiber mizoramensis

New taxa described



Hellenia meghalayensis



Hellenia paramjitii



Phanera glauca var.
murlenensis

New record for India: 08 (Eight)

Boesenbergia parvula (Wall. ex Baker) Kuntze

Calanthe hancockii Rolfe

Calligonum comosum L'Her.

Curcuma elata Roxb.

Eria merguensis Lindl.

Globba wardii (B. L. Burtt & R. M. Sm.) K. J. Williams

Phalaenopsis yingjiangensis (Z. H. Tsi) Kocyan & Schult.

Zingiber stipitatum S. Q. Tong

Rediscovery: 04 (Four)

Arundina graminifolia var. *revoluta* (J.D.Hooker) A.L.Lamb

Pavonia arabica Hochst. ex Steud. var. *massuriensis* Bhandari

Phanera nervosa Benth.

Uvaria andamanica King

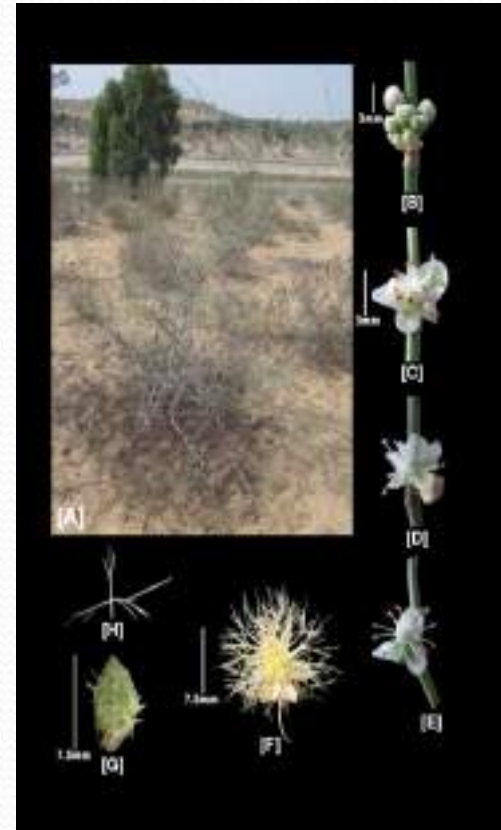
New records for India



Boesenbergia parvula



Calanthe hancockii



Calligonum comosum



Curcuma elata

New records for India



Eria merguensis



Globba wardii

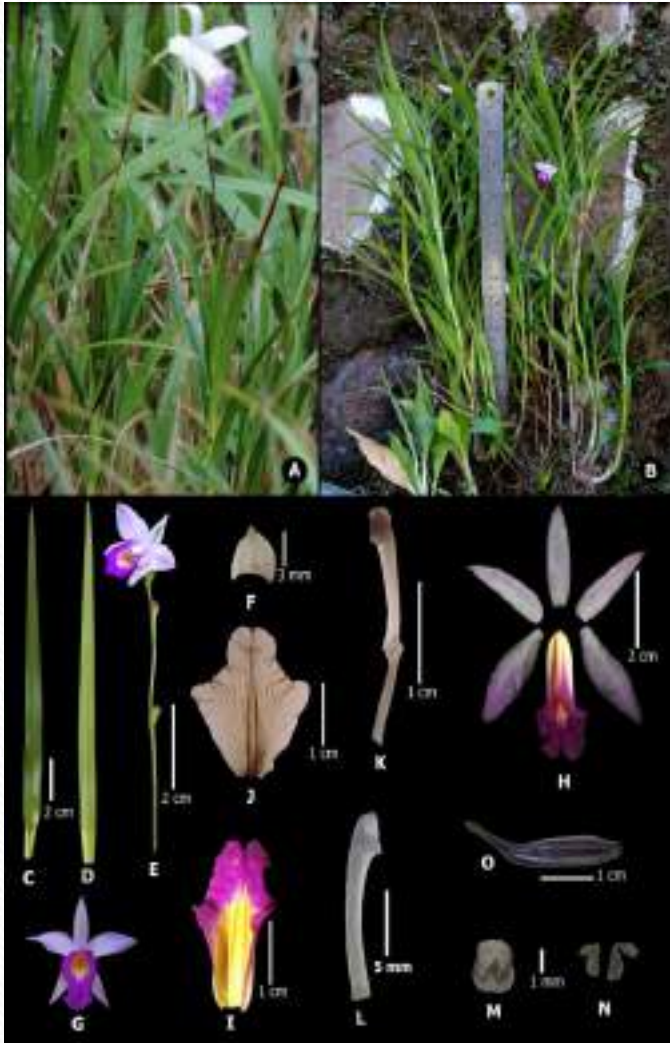


Phalaenopsis yingjiangensis



Zingiber stipitatum

Rediscoveries



Arundina graminifolia var.
revoluta



Pavonia arabica var.
massuriensis



Phanera nervosa

New records for North-east: 06 (Six)

Curcuma aurantiaca Zijp.

Curcuma latifolia Roscoe

Didymoplexis pallens Griff.

Nervilia punctata (Blume) Makina

Pterocymbium tinctorium (Blanco) Merr.

Sterculia rubiginosa Vent.

New record for A & N Islands: 03 (Three)

Ficus exasperata Vahl

Rhaphidophora eximia Schott

Thalassia hemprichii (Ehrenb.) Aschers

New record for Assam: 01 (One)

Zingiber roseum (Roxb.) Roscoe

New record for Gujarat

Genus: 01 (One)

Porteresia Tateoka

Species: 02 (Two)

Alysicarpus roxburghianus Thoth. & Pramanik

Porteresia coarctata (Roxb.) Tateoka

New record for Madhya Pradesh: 01 (One)

Cotula australis (Sieb. ex Spreng.) Hook.f.

New record for Meghalaya:02 (Two)

Globba rubromaculata J. Lal & D.M. Verma

Phalaenopsis deliciosa Rchb. F.

New record for Mizoram

Families: 02 (Two)

Lardizabalaceae and Juncaceae

Genera: 28 (Twenty eight)

- *Acalypha* L.
- *Aeschynomen* L.
- *Blepharis* Juss.
- *Carpinus* L.
- *Dolichos* L.
- *Holboellia* Wall.
- *Holmskioldia* Retz.
- *Juncus* L.
- *Lophatherum* Brongn.
- *Mastersia* Benth.
- *Nauclea* Korth.
- *Nephelophyllum* Blume
- *Oenothera* L.
- *Panax* L.
- *Peristrophe* Nees
- *Pterocarpus* Jacq.
- *Scirpus* L.
- *Smithianandia* Holtt.
- *Spiradiclis* Blume
- *Stellaria* L.
- *Stereochilus* Lindl.
- *Stictocardia* Hallier f.
- *Tecoma* Juss.
- *Teramnus* P. Br.
- *Ternstroemia* Mutis ex L.f.
- *Trichotosia* Blume
- *Valeriana* L.
- *Zahneria* Endl.

New records for Mizoram

Species: 65 (Sixty five)

Acalypha supera Forssk.

Aeschynomen indica L.

Blepharis maderaspatensis (L.) Heyne ex Roth

Brachiaria semiundulata (Hochst.) Stapf.

Bulbophyllum crassipes Hook.f.

Bulbophyllum thomsonii Hook.f.

Carpinus viminea Wall. ex Lindl.

Cheirostylis griffithii Lindl.

Crepidium purpureum (Lindl.) Szlach.

Curcuma amada Roxb.

Curcuma prakasha S. Tripathi

Cyathea brunoniana (Wall. ex Hook.) Clarke & Baker

Dendrobium stuposum Lindl.

Dendrobium thyrsiflorum Rchb. f. ex Andre

Dendrobium wardianum Warner

Dendrobium williamsonii Day & Rchb.f.

Digitaria ischaemum (Schreb.) Muhl.

Digitaria violenscens Link

Diplazium dilatatum Blume

Dipteris wallichii (R. Br.) T. Moore

Dolichos trilobus L.

Epigenium naviculare (M.S. Balakr. & Chowdhury) Hynn. & Wadhwa

Eragrostis curvula (Schrad.) Nees

Gastrochilus obliquus (Lindl.) Kuntze

Habenaria reniformis (D. Don) Hook. f.

Holboellia latifolia Wall.

Holmskioldia sanguinia Retz.

Juncus effusus L.

Lopotherum gracile Brongn.

Maestersia assamica Benth.

Nauclea orientalis (L.) L.

Nephelophyllum cordifolium (Lindl.) Blume

Nephelophyllum pulcherum Blume var. *sikkimensis* Hook.f.

Oberonia caulescens Lindl.

Oberonia mucronata (D. Don) Ormerod & eidenf.

Oenothera rosea L' Her. ex. Aiton

Oplismenus burmanii (Retz.) P. Beauv.

Panax pseudoginseng Wall.

Parakaempferia synantha A.S. Rao & D.M. Verma

Peristrophe paniculata (Forssk.) Brummitt

Phreatia elegans Lidl.

Pterocarpus marsupium Roxb.

Scirpus wychurae Boeck.

Selaginella ciliaris (Retz.) Spring.

Selaginella vaginata Spring.

Setaria verticillata (L.) P. Beauv.

Smitinandia micrantha (Lindl.) Holtt.

Spiradiclis cylindrical Wall. ex Hook.f.

Stellaria media (L.) Vill.

Stellaria monosperma D.Don var. *paniculata* (Edgew) Majumadar

Stellaria wallichiana Benth. ex Haines

Stictocardia tiliifolia (Desr.) Hallier.f.

Streochillus hirtus Lindl.

Sunipia andersonii (King & Pantl.) P.F. Hunt

Tainia viridifusca (Hook.) Benth. ex Hook.f.

Tecoma stans (L.) Juss. ex Kunth

Teramnus flexilis Benth.

Ternstroemia japonica (Thunb.) Thunb.

Themeda arundinacea (Roxb.) A. Camus

Themeda caudata (Nees ex Hook. & Arn.) A. Camus

Trichotosia dasyphylla (E.C.Parish & Rchb.f.) Kraenzl.

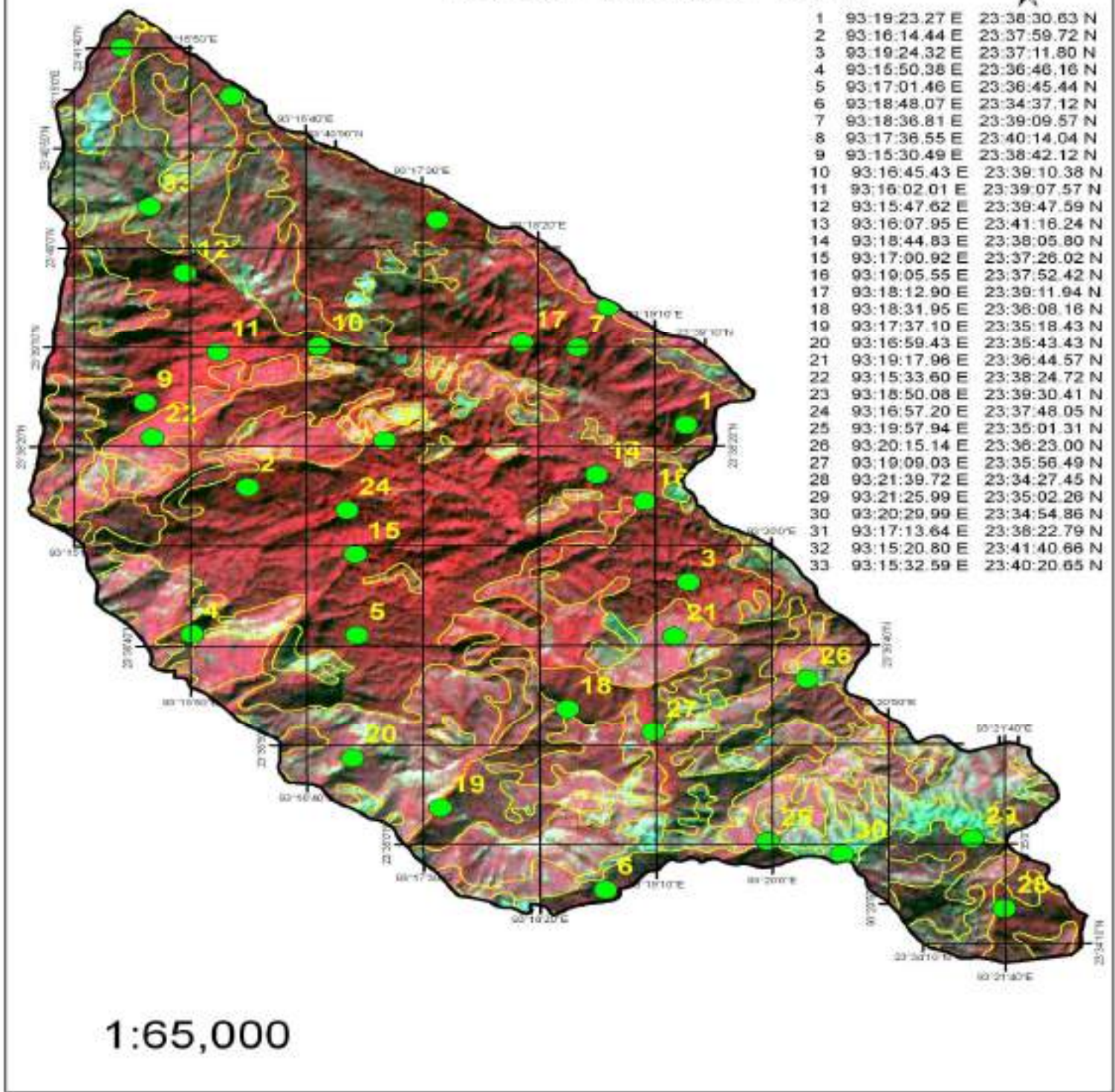
Valeriana hardwickii Wall.

Vanda pumila Hook.f.

Vittaria zosterifolia Willd.

Zahneria japonica (Thunb.) H.Y. Liu

Murlen National Park



1	93:19:23.27 E	23:38:30.63 N
2	93:16:14.44 E	23:37:59.72 N
3	93:19:24.32 E	23:37:11.80 N
4	93:15:50.38 E	23:36:46.16 N
5	93:17:01.46 E	23:36:45.44 N
6	93:18:48.07 E	23:34:37.12 N
7	93:18:36.81 E	23:39:09.57 N
8	93:17:36.55 E	23:40:14.04 N
9	93:15:30.49 E	23:38:42.12 N
10	93:16:45.43 E	23:39:10.38 N
11	93:16:02.01 E	23:39:07.57 N
12	93:15:47.62 E	23:39:47.59 N
13	93:16:07.95 E	23:41:16.24 N
14	93:18:44.83 E	23:38:05.80 N
15	93:17:00.92 E	23:37:26.02 N
16	93:19:05.55 E	23:37:52.42 N
17	93:18:12.90 E	23:39:11.94 N
18	93:18:31.95 E	23:36:08.16 N
19	93:17:37.10 E	23:35:18.43 N
20	93:16:59.43 E	23:35:43.43 N
21	93:19:17.96 E	23:36:44.57 N
22	93:15:33.60 E	23:38:24.72 N
23	93:18:50.08 E	23:39:30.41 N
24	93:16:57.20 E	23:37:48.05 N
25	93:19:57.94 E	23:35:01.31 N
26	93:20:15.14 E	23:36:23.00 N
27	93:19:09.03 E	23:35:56.49 N
28	93:21:39.72 E	23:34:27.45 N
29	93:21:25.99 E	23:35:02.26 N
30	93:20:29.99 E	23:34:54.86 N
31	93:17:13.64 E	23:38:22.79 N
32	93:15:20.80 E	23:41:40.66 N
33	93:15:32.59 E	23:40:20.65 N

Some RET plants conserved during the tenure



Trachycarpus takil



Hyphanea thebetica



Bentikia nicobarica



Hildegardia populinea



Ginkgo biloba



Fararia indica



Cycas beddomei



Pterocarpus santalinus



Albizia arundinacea



Albizia assamica



Eria lacei



Publications

Book: 01 (One)

Research papers/articles: 91 (Ninety one)

In International journals: 13 (Thirteen)

In Indian journals: 37 (Thirty seven)

Book chapter: 08 (Eight)

In Magazine: 30 (Thirty)

In News paper: 03 (Three)

A close-up photograph of a flame lily (Lilium aurantiacum) flower. The flower has bright yellow petals with a vibrant orange-red flame-like pattern. The stamens are long and yellow, extending outwards. The background is a soft-focus green, likely foliage. The text "Thank you" is written across the center of the flower in a pink, serif font with a drop shadow.

Thank you