

Orchids of Yellapur taluk, Uttara Kannada district, Karnataka

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ABSTRACT

The paper enumerates 59 species of orchids collected from the Yellapur taluk, Uttara Kannada district of Karnataka state.

INTRODUCTION

Orchidaceae is a specialized family of monocots differing from other families in having gynostemium and labellum. It is represented by about 26000 species under 762 genera in the world (Mabberley, 2017). The orchids have flowers of ornamental value and are sought after for hybridization and setting as cut flowers. In India, the family is represented by about 1256 species under 155 genera (Singh et al., 2019), while Western Ghats support 307 species of orchids (Nayar, Beegam & Sibi, 2014). Cooke (1906) recorded 77 species of orchids in his Flora of Presidency of Bombay covering states of Gujarat, Maharashtra, Goa and Karnataka. From Karnataka, he included Uttara Kannada, Belagavi, and Dharwad district and recorded 49 species of orchids, out of which 33 are from Uttara Kannada district alone. Rao and Sridhar (2007) reported 176 species from Karnataka state. Anand Rao recorded 95 Wild orchids from Uttara Kannada district, mainly from Dandeli and Sirsi taluk areas. Sachin A. Punekar and P. Lakshminarasimhan recorded 30 genera belonging to 54 species of wild orchids from Anshi

National Park in the year 2011. In Karnataka the family has about 197 species (Sringshwara & Sanjappa, 2019). G.R. Rao in his study "Wild orchids of Sharavathi River Basin and parts of Uttara Kannada" has recorded 36 wild orchids from localities in Bhatkal, Honnavar, Joida and Siddapur taluks.

MATERIALS AND METHODS

Yellapur taluk is located in the Uttara Kannada district of Karnataka state. Being located in the central part of Western Ghats, it has evergreen and semi-evergreen forests. It receives the highest (3554.6 mm annual) rainfall during the monsoon season. It has an elevation ranging between 150 m to 600 m and is spread over 1313 km². It includes three semi-evergreen forests, i.e., Angoda to the north-west, Telgeri to the north-east, and Sahasarahalli to the south-east. During field surveys between 2019 to 2022, 59 wild orchid species were collected, photographed and identified with the help of flora (Hooker, 1875; Cooke, 1906; Gamble, 1928; Singh, 1988; Rao, 1998; Rao & Sridhar, 2007; Jalal, 2018). The specimens were pressed and dried as per the standard herbarium preparation methods (Rao & Jain, 1977) and deposited in the Herbarium of Karnatak Science College Dharwad (HKSCD).

RESULTS

The orchids collected from Yellapur Taluk have been enumerated in Table 1.

The specimens were collected by Shreyas Betageri and K. Kotresha. Collector number and date with localities are mentioned.

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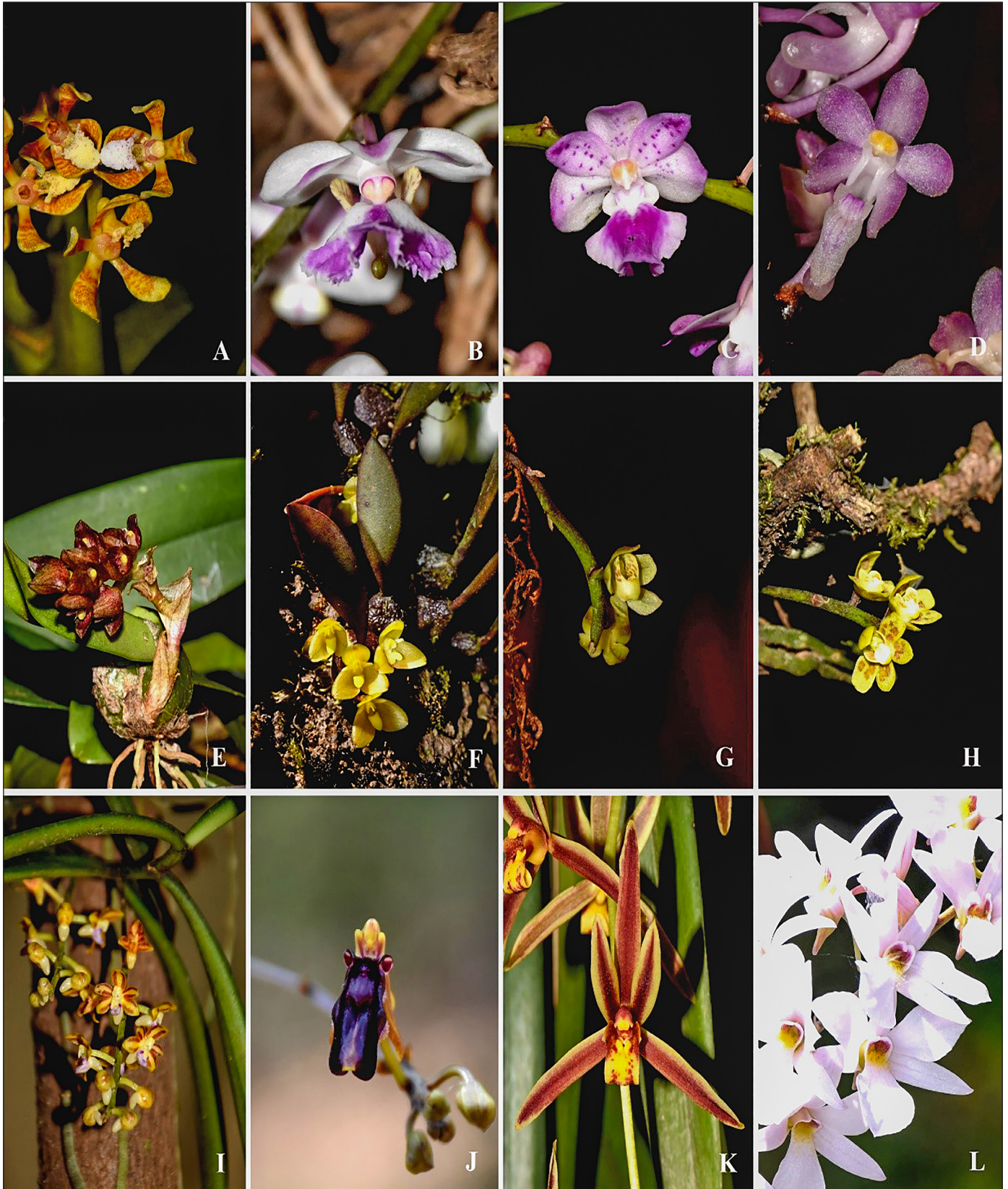


Plate 1. A. *Acampe ochracea* (Lindl.) Hochr. B. *Aerides crispum* Lindl. C. *Aerides maculosum* Lindl. D. *Aerides ringens* (Lindl.) C.E.C.Fisch. E. *Bulbophyllum sterile* (Lam.) Suresh F. *Bulbophyllum stocksii* (Benth. ex Hook.f.) J.J.Verm. G. *Chiloschista confusa* Mathew, M.J., Mathew, J., Salim, P.M. & Szlach. H. *Chiloschista glandulosa* Blatt. & McCann I. *Cleisostoma tenuifolium* (L.) Garay J. *Cottonia peduncularis* (Lindl.) Rchb.f. K. *Cymbidium bicolor* Lindl. L. *Dendrobium barbatulum* Lindl.

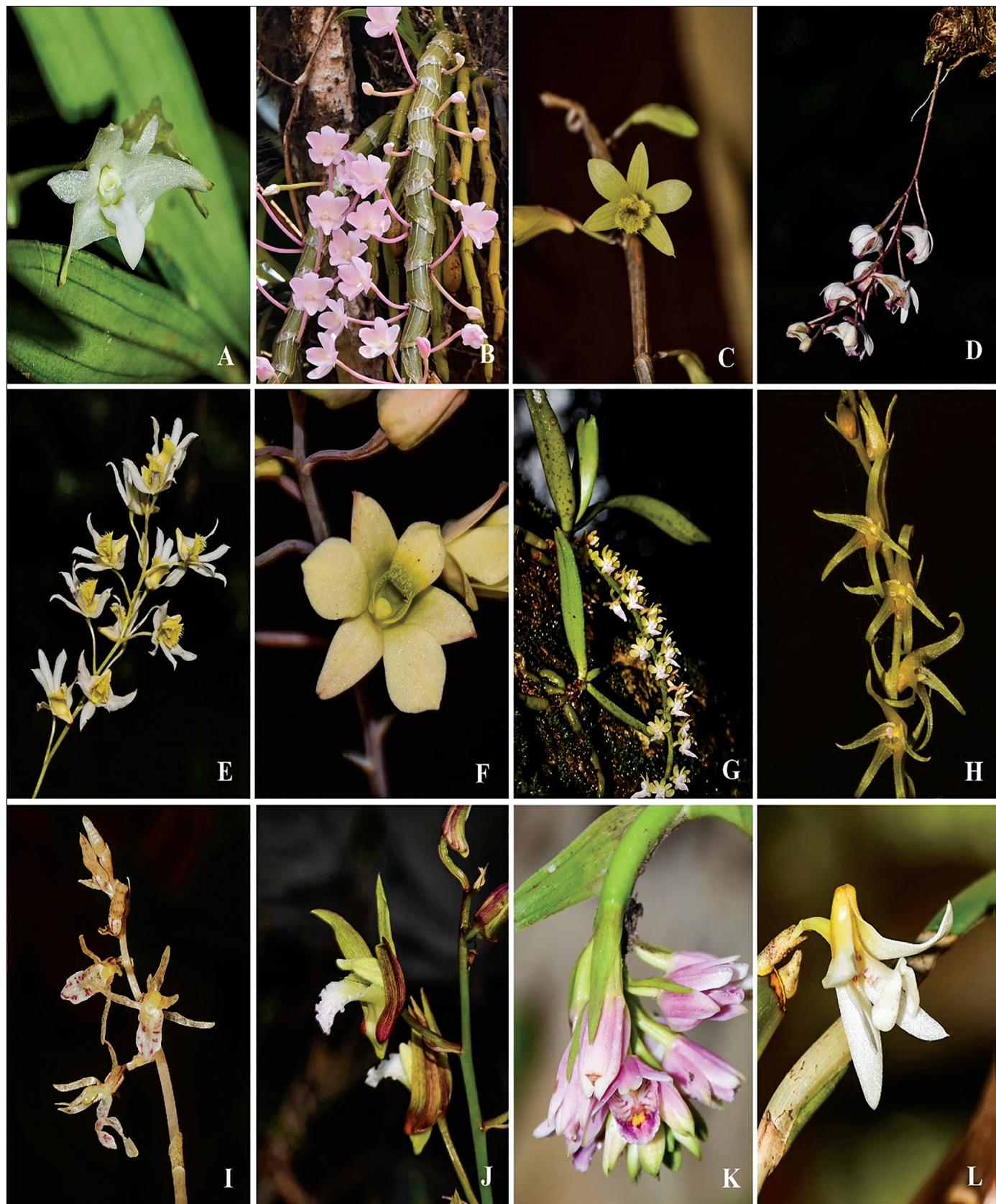


Plate 2. A. *Dendrobium herbaceum* Lindl. B. *Dendrobium lawianum* Lindl. C. *Dendrobium macrostachyum* Lindl. D. *Dendrobium microbulbon* A.Rich. E. *Dendrobium nanum* Hook.f. F. *Dendrobium ovatum* (L.) Kraenzl. G. *Diplocentrum congestum* Wight H. *Eria filiformis* (Wight) Rchb.f. I. *Epipogium roseum* (D.Don) Lindl. J. *Eulophia spectabilis* (Dennst.) Suresh K. *Eulophia densiflora* Lindl. L. *Flickingeria nodosa* (Dalzell) Seidenf.

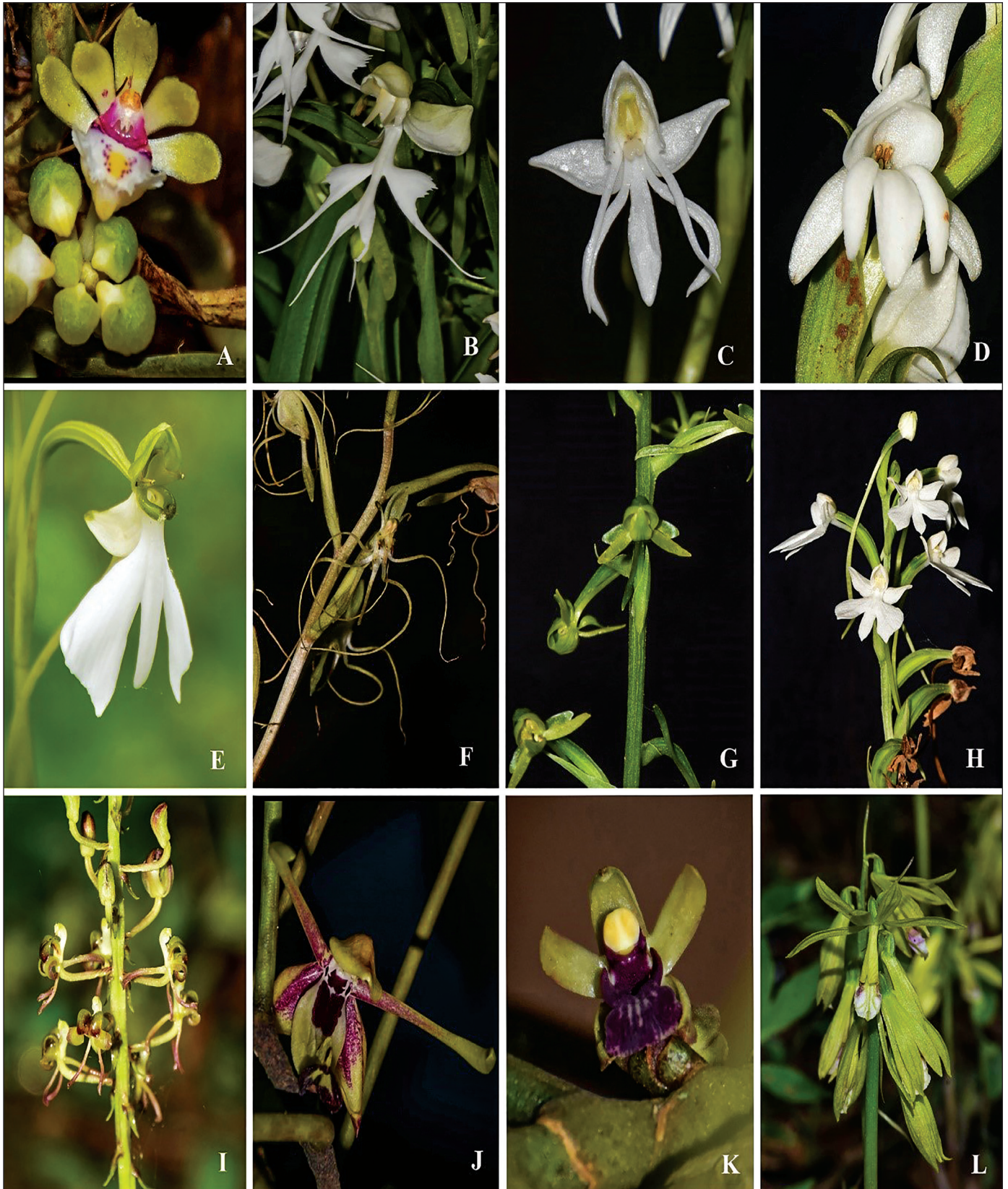


Plate 3. A. *Gastrochilus flabelliformis* (Blatt. & McCann) C.J.Saldanha B. *Habenaria crinifera* Lindl. C. *Habenaria grandifloriformis* Blatt. & McCann D. *Habenaria heyneana* Lindl. E. *Habenaria longicorniculata* J.Graham F. *Habenaria multicaudata* Sedgw. G. *Habenaria ovalifolia* Wight H. *Habenaria plantaginea* Lindl. I. *Liparis odorata* (Willd.) Lindl. J. *Luisia macrantha* Blatt. & McCann K. *Luisia zeylanica* Lindl. L. *Nervilia concolor* (Blume) Schltr.

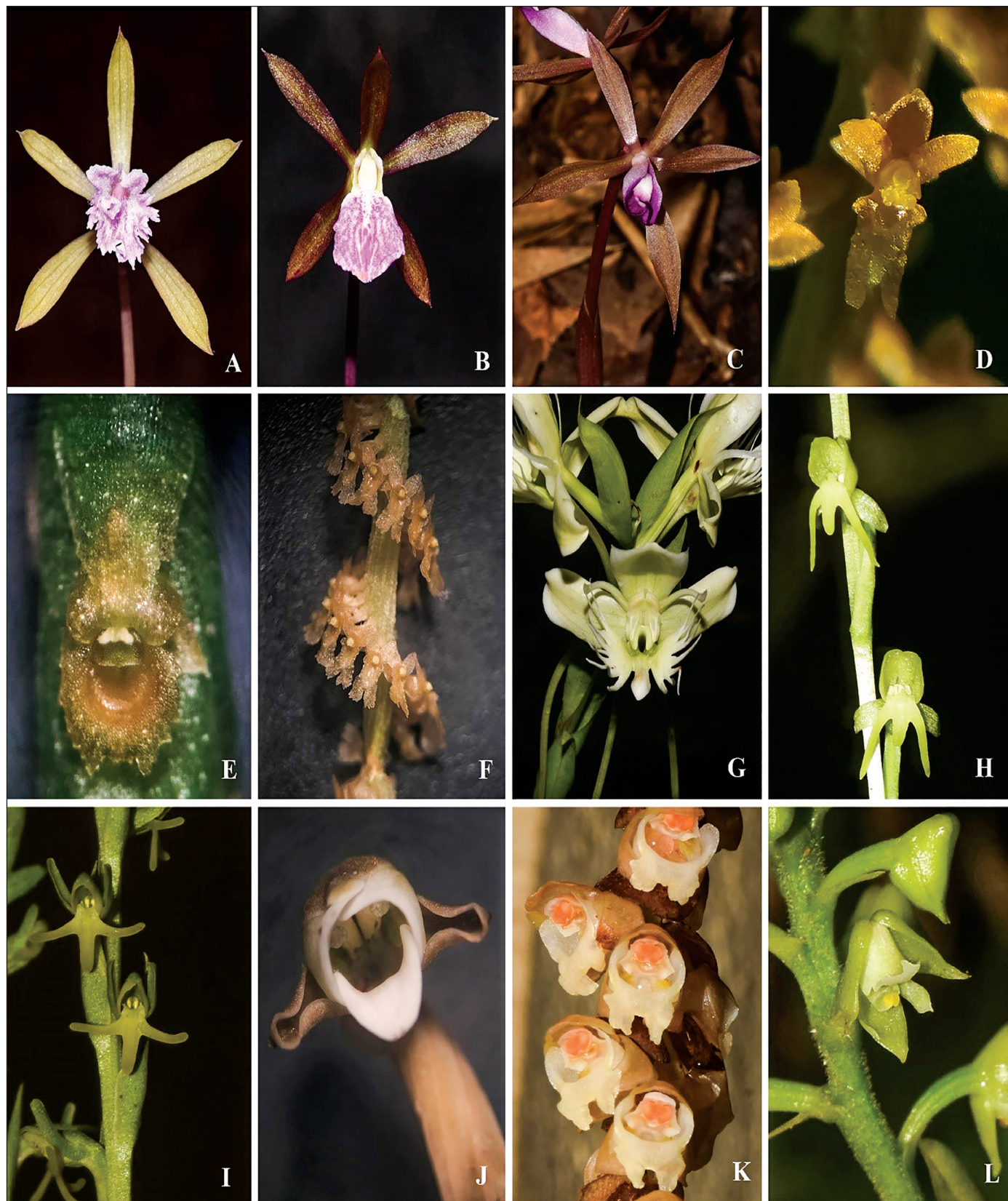


Plate 4. A. *Nervilia crociformis* (Zoll. & Mor.) Seidenf. B. *Nervilia infundibulifolia* Blatt. & McCann C. *Nervilia plicata* (Andrews) Schltr. D. *Oberonia falconeri* Hook.f. E. *Oberonia proudlockii* Lindl. F. *Oberonia verticillata* Wight G. *Pecteilis gigantea* (Sm.) Raf. H. *Peristylus aristatus* Lindl. I. *Peristylus densus* Lindl. J. *Peristylus plantagineus* (Lindl.) Lindl. K. *Pholidota imbricata* Hook. L. *Polystachya concreta* (Jacq.) Garay & H.R.Sweet

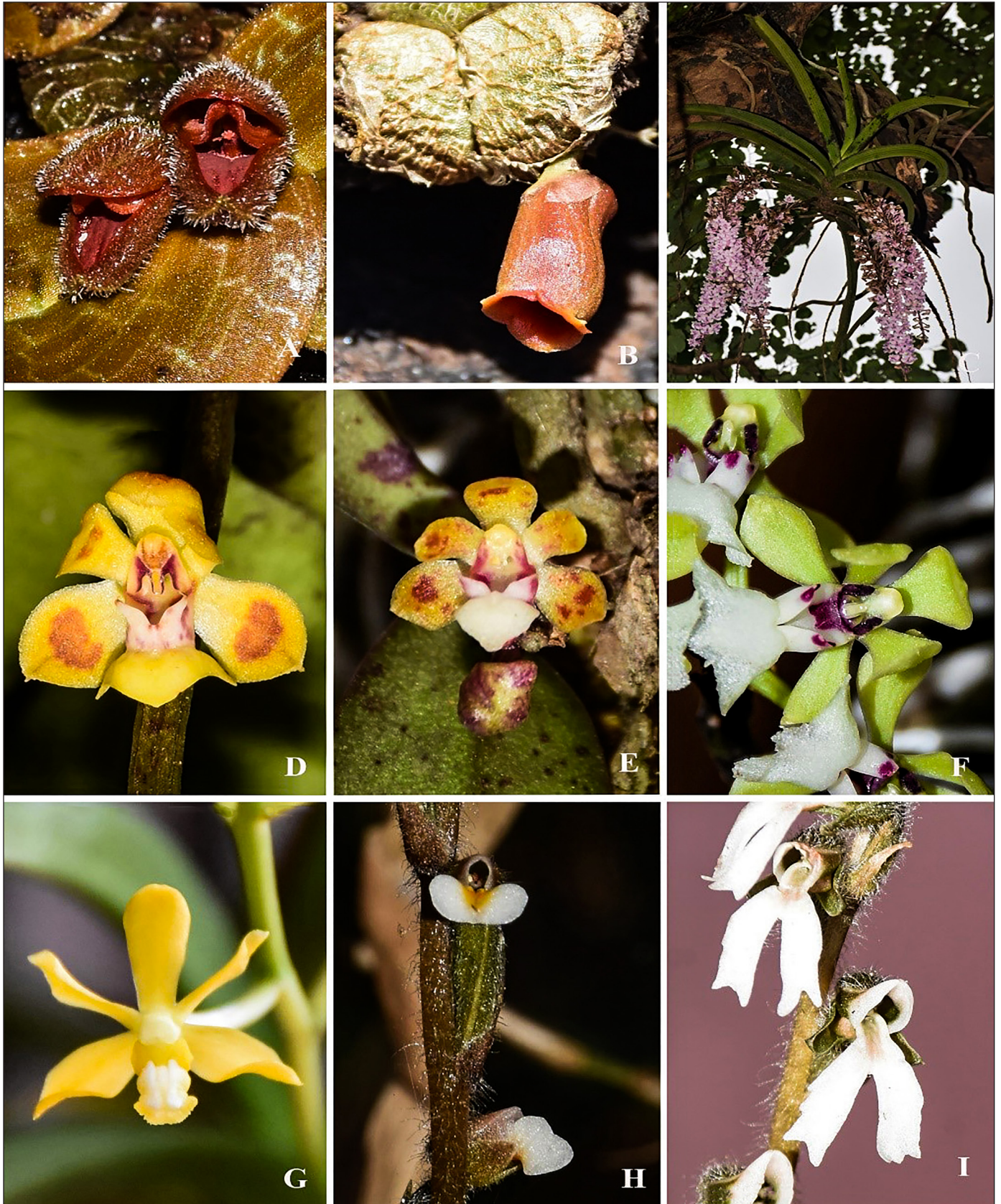


Plate 5. A. *Porpax jerdoniana* (Wight) Rolfe B. *Porpax reticulata* Lindl. C. *Rhynchostylis retusa* (L.) Blume D. *Smithsonia maculata* (Dalzell) C.J.Saldanha E. *Smithsonia straminea* C.J.Saldanha F. *Smithsonia viridiflora* (Dalzell) C.J.Saldanha G. *Vanda testacea* (Lindl.) Rchb.f. H. *Zeuxine gracilis* (Breda) Blume I. *Zeuxine longilabris* (Lindl.) Trimen

Table 1. Wild orchids collected from Yellapur taluk, Uttara Kannada district, Karnataka.

Scientific name	Habitat	Flowering	Collection details	Endemic	Status
<i>Acampe ochracea</i> (Lindl.) Hochr.	E	December-January	Kaiga-Kadra ghat, 0025/18-12-2021	-	O
<i>Acampe praemorsa</i> (Roxb.) Blatt. & McCann	E	December-April	Khalgatagi Road, 0027/22-01-2022	-	C
<i>Aerides crispum</i> Lindl.	E	May-June	Arbail Ghat, 0098/28-05-2022	***	R
<i>Aerides maculosum</i> Lindl.	E	May-August	Yellapur, 0156/05-06-2022	***	C
<i>Aerides ringens</i> (Lindl.) C.E.C.Fisch.	E	March in Yellapur	Yellapur, 0107/13-06-2022	-	O
<i>Bulbophyllum sterile</i> (Lam.) Suresh	E	January-March	Kaiga-Kadra ghat, 0038/05-01-2022	***	C
<i>Bulbophyllum stocksii</i> (Benth. ex Hook.f.) J.J.Verm.	E	December-February	Kaiga-Kadra ghat, 0023/05-12-2021	***	C
<i>Chiloschista confusa</i> Mathew, M.J., Mathew, J., Salim, P.M. & Szlach.	E	April-May	Kaiga-Kadra ghat, 0069/21-04-2022	***	R
<i>Chiloschista glandulosa</i> Blatt. & McCann	E	January-February	Kaiga-Kadra ghat, 0037/11-01-2022	***	R
<i>Cleisostoma tenuifolium</i> (L.) Garay	E	June-August	Kaiga-Kadra ghat, 0120/29-06-2022	-	O
<i>Cottonia peduncularis</i> (Lindl.) Rchb.f.	E	February-April	Angoda, 0030/27-12-2022	-	O
<i>Crepidium versicolor</i> (Lindl.) Susil K. Singh, D.K.Agarwala & Jalal	T	June-August	Angoda/Arbail ghat, 0115/29-06-2022	-	O
<i>Cymbidium bicolor</i> Lindl.	E	April-May	Kaiga-Kadra ghat, 0154/09-05-2022	-	C
<i>Dendrobium barbatulum</i> Lindl.	E	February-March	Idgundi road, 0040/03-02-2022	***	R
<i>Dendrobium herbaceum</i> Lindl.	E	October-November	Magod falls road, 0016/07-11-2021	*	R
<i>Dendrobium lawianum</i> Lindl.	E	March-April	Angoda, 0063/27-03-2022	***	C
<i>Dendrobium macrostachyum</i> Lindl.	E	May-June	Angoda, 0090/11-05-2-22	-	C
<i>Dendrobium microbulbon</i> A.Rich.	E	Nov-Mar	Kaiga Ghat, 0019/05-12-2021	***	R
<i>Dendrobium nanum</i> Hook.f.	E	August-November	Angoda, 0011/07-11-2021	***	R
<i>Dendrobium ovatum</i> (L.) Kraenzl.	E	November-March	Angoda/Arbail ghat, 0022/23-11-2021	**	O
<i>Diplocentrum congestum</i> Wight	E	May-June	Arbail ghat, 0102/01-06-2022	***	O
<i>Epipogium roseum</i> (D.Don) Lindl.	Mh	May	Arbail ghat, 0056/15-05-2022	-	O
<i>Eria filiformis</i> (Wight) Rchb.f.	E	July-August	Angoda, 0131/27-07-2022	***	R
<i>Eulophia densiflora</i> Lindl.	T	July-August	Khalgatagi Road, 0117/29-06-2022	-	O
<i>Eulophia spectabilis</i> (Dennst.) Suresh	T	May-July	Arbail ghat, 0099/28-05-2022	-	O
<i>Flickingeria nodosa</i> (Dalzell) Seidenf.	E	June-August.	Angoda/Arbail ghat, 0092/19-05-2022	***	O
<i>Gastrochilus flabelliformis</i> (Blatt. & McCann) C.J.Saldanha	E	September-November	Angoda/Kaiga ghat, 0165/28-10-2021	***	R
<i>Habenaria crinifera</i> Lindl.	T	July-August	Kadra, 0156/25-07-2022	-	R
<i>Habenaria grandifloriformis</i> Blatt. & McCann	T	June-August	Magod falls Road, 0116/29-06-2022	**	C
<i>Habenaria heyneana</i> Lindl.	T	July-August	Magod falls Road, 0129/27-07-2022	***	R
<i>Habenaria longicorniculata</i> J.Graham	T	July-August	Angoda/Arbail ghat, 0140/14-08-2022	-	C
<i>Habenaria ovalifolia</i> Wight	T	July-August	Khalgatagi Road, 0124/15-07-2022	***	R
<i>Habenaria multicaudata</i> Sedgw.	T	September	Magod falls, 0164/11-09-2022	***	R
<i>Habenaria plantaginea</i> Lindl.	T	Septemembr-October	Khalgatagi Road, 0157/29-09-2022	-	R
<i>Liparis odorata</i> (Willd.) Lindl.	T	August-September	Arbail ghat, 0150/02-09-2022	-	O
<i>Luisia macrantha</i> Blatt. & McCann	E	January-March	Arbail ghat/Kaiga ghat, 0043/28-01-2022	***	O
<i>Luisia zeylanica</i> Lindl.	E	May-June	Kadra, 0081/29/04/2022	-	O
<i>Nervilia concolor</i> (Blume) Schltr.	T	May	Arbail ghat, 0100/28-05-2022	-	C
<i>Nervilia crociformis</i> (Zoll. & Mor.) Seidenf.	T	May-June	Angoda/Arbail/Kaiga, 0104/06-06-2022	-	C
<i>Nervilia infundibulifolia</i> Blatt. & McCann	T	May-June	Angoda, 0095/26-05-2022	-	C
<i>Nervilia plicata</i> (Andrews) Schltr.	T	May-June	Khalgatagi Road, 0119/30-06-2022	-	R
<i>Oberonia falconeri</i> Hook.f.	E	August-October	Arbail ghat, 0008/15-11-2021	-	O
<i>Oberonia proudlockii</i> King & Pantl.	E	January-February	Angoda, 0051/10-02-2022	***	R
<i>Oberonia verticillata</i> Wight	E	July-September	Arbail ghat/Angoda, 0135/06-08-2022	***	O
<i>Pecteilis gigantea</i> (Sm.) Raf.	E	September-october	Kanoor, 0158/15-09-2022	-	O
<i>Peristylus aristatus</i> Lindl.	T	August-September	Kaiga-Kadra ghat, 0145/26-08-2022	-	R
<i>Peristylus densus</i> (Lindl.) Santapau & Kapadia	T	August-September	Magod falls road, 0138/14-08-2022	-	R
<i>Peristylus plantagineus</i> (Lindl.) Lindl.	T	August-September	Angoda/Arbail ghat, 0137/14-08-2022	-	C
<i>Pholidota imbricata</i> Hook.	E	June-August	Angoda/Arbail ghat, 0122/08-07-2022	-	C
<i>Polystachya concreta</i> (Jacq.) Garay & H.R.Sweet	E	August-October	Angoda, 0126/16-07-2022	-	C
<i>Porpax jerdoniana</i> (Wight) Rolfe	E	June-July	Kanoor, 0112/21-06-2022	***	C
<i>Porpax reticulata</i> Lindl.	E	April-May	Kanoor/Angoda, 0112/21-06-2022	-	O

...contd.

<i>Rhynchosytilis retusa</i> (L.) Blume	E	May-June	Angoda/Magod falls, 0094 /26-05-2022	-	O
<i>Smithsonia maculata</i> (Dalzell) C.J.Saldanha	E	April-May	Kanoor, 0086/30-05-2022	***	R
<i>Smithsonia straminea</i> C.J.Saldanha	E	April-June	Kaiga-Kadra ghat, 0067/10-04-2022	***	C
<i>Smithsonia viridiflora</i> (Dalzell) C.J.Saldanha	E	April-May	Angoda, 0083/30-04-2022	***	R
<i>Vanda testacea</i> (Lindl.) Rchb.f.	E	April-May	Khalgatagi Road, 0080/28-04-2022	-	O
<i>Zeuxine gracilis</i> (Breda) Blume	T	January-February	Angoda, 0049/20-01-2022	-	R
<i>Zeuxine longilabris</i> (Lindl.) Trimen	T	December-February	Magod falls road, 0049/10-02-2022	-	C

E.- Epiphytic, T.- Terrestrial, Mh.- Mycoheterotropic, R.- Rare, O.- Occasional, C.- Common, *- Endemic to India, **- Endemic to Western & Eastern Ghats, ***- Endemic to Western Ghats.

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