

**Orchid species diversity of Darjeeling Himalaya of India**Rajendra Yonzone^{1*}, D. Lama¹, R. B. Bhujel² and Samuel Rai³

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Abstract

Present paper deals with the diversity of Orchid species in Darjeeling Himalaya of India. A total of 311 Orchids species under 85 genera have been recorded from the region. Of them, 17 species with 6 genera are semi saprophytic, 77 species with 29 genera are terrestrial and the rest 217 species with 52 genera are epiphytic. 42 species found in the regions are medicinally important. This attempt is the first step to correct taxonomic identification to workout currently accepted botanical names, habitat, altitudinal ranges, phenology and locality of Orchid species occurring in Darjeeling Himalaya of India.

Key-Words: Orchid Species Diversity, Darjeeling Himalaya, India

Introduction

Orchids belong to the family Orchidaceae is considered to be the most highly evolved in the floral specialization and diversified form among the monocotyledons. In India, Orchids from 9% of our flora and are the largest and highly advanced botanical family of higher plants. It is estimated that at about 25,000-35,000 species with 800-1,000 genera are distributed throughout the world. About 1300 species with 140 genera of Orchid species are found in India with temperate Himalayas as their natural home (Yonzone and Kamran, 2008). They are mostly annual and perennial herbs and live either as epiphytes, lithophytic and terrestrial. They have attracted people because of their highly ornamental flowers. The flowers have every credible colours combination. The attractiveness of Orchid appreciation has a very long history in western and eastern cultures. Orchids are valued not only for their attractive flowers but many of them have been used for the therapeutic purpose (Handa, 1986).

Darjeeling is an important constituent of Eastern Himalaya, falling in Northern part of West Bengal of Eastern India and a well known place of tourist interest for its colourful natural greenery and paramount glistening background of snow peak, the Mountain Kanchanjunga, the silvery and shining slopes of which shall tempt one to forget the rest of the world behind, when standing in reality at the Phalut summit at 3600m altitude.

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The region is well known for its diverse range of vegetation and as one of the richest in India (Bhujel, 1996). The district is subdivided into four sub-divisions viz., Darjeeling sadar; Kalimpong, Kurseong and Siliguri (Fig. 1). The region lies between 26 31' and 27 31' north latitude and between 87 59' and 88 53' east longitude in the eastern Himalayan region of India. It is bordered by Sikkim in the north, Terai and Doars in the south, Bhutan in the east and Nepal in the west. The district has two topographical features. Darjeeling, Kurseong and Kalimpong form the hill areas whereas Siliguri is stationed at the foothill in a vast stretch of the plains. The shape of the district is triangular. The total area of the triangular shaped district is 3254.7 sq. km. which is 3.68 percent of the total areas of West Bengal state. The hilly region covers 2320 sq. km. and the remaining 934.7 sq. km. of the area falls in the Terai and plains. The altitudinal variations of the district range from 130m at Siliguri to 3636m at Sandakphu-Phalut with a sharp physiographic contrast between the plain and the mountainous regions. The region is rich in Orchid diversity and harbour a number of species. Present paper deals the Orchid species diversity and distribution of Darjeeling Himalaya and with their botanical name, habitat, place of occurrence, altitudinal ranges and flowering month.

Material and methods

The intensive field survey works was carried out during 2007-2011 covering all the seasons of the year in all parts of Darjeeling Himalaya including floral nurseries, farms and forest areas. Collected specimens

were made into standard mounted herbarium sheets following the procedure of (Jain and Rao, 1977). Authors have done photographs and sketch the some Orchid species from floral nurseries of the region. The relevant data from the field note books were then transferred to the labels of the herbarium sheets and computer. Normally, 2-3 specimens of each species in flowering or fruiting stage were collected and life form photographs were prepared. The specimens were identified and described with the help of Flora of British India (Hooker, 1872-1897); Orchids of Sikkim Himalaya (King and Pantling, 1898); Orchid flora of Arunachal Pradesh (Chowdhery, 1998); Orchids of India (Bose and Bhattacharya, 1999); Flora of Bhutan (Pearce and Cribb, 2002) and The Orchids of Sikkim and North East Himalaya (Lucksom, 2007) and specimens authentication done in CAL, BSI, Howrah. Finally all the Voucher specimens were deposited in the Herbarium of Department of Botany, St. Joseph's College, North Point, Darjeeling and Taxonomy and Ethnobiology Research Laboratory, Cluny Women's College, Kalimpong. All the species were arranged systematically as per their altitude wise distribution in the area with botanical names, habitat, local distribution and flowering month. Nomenclature has been checked with Flora of Bhutan, the Orchids of Bhutan.

Results and Discussion

During recent field studies in the Darjeeling Himalaya, 85 genera with 311 Orchid species diversity and distribution have been recorded from the regions. Of them, 17 species with 6 genera are semi saprophytic, 77 species with 29 genera are terrestrial and the rest 217 species with 52 genera are epiphytic (Fig. 2 and 3). The numbers of epiphytic are greater than terrestrial and semi saprophytic species. The total numbers of recorded species of each genus are 2 *Acampe* spp., 2 *Aerides* spp., 4 *Agrostophyllum* spp., 34 *Bulbophyllum* spp., 5 *Calanthe* spp., 2 *Ceratostylis* spp., 4 *Cleisostoma* spp., 16 *Coelogyne* spp., 2 *Cryptochilus* spp., 12 *Cymbidium* spp., 34 *Dendrobium* spp., 2 *Epigenium* spp., 17 *Eria* spp., 2 *Esmeralda* spp., 2 *Flickingeria* spp., 6 *Gastrochilus* spp., 7 *Goodyera* spp., 5 *Habenaria* spp., 5 *Herminium* spp., 2 *Ione* spp., 16 *Liparis* spp., 4 *Lusia* spp., 5 *Malaxis* spp., 2 *Neplelaphyllum* spp., 3 *Nervilia* spp., 9 *Oberonia* spp., 4 *Odontochilus* spp., 3 *Otochilus* spp., 2 *Panisia* spp., 5 *Paphiopedilum* spp., 8 *Peristylus* spp., 3 *Phaius* spp., 4 *Phalaenopsis* spp., 6 *Pholidota* spp., 8 *Platanthera* spp., 4 *Pleione* spp., 2 *Podochilus* spp., 2 *Satyrium* spp., 2 *Sunipia* spp., 2 *Thunia* spp., 2 *Trichotosia* spp., 4 *Vanda* spp., 4 *Zeuxine* spp. and the rest *Acanthephippium striatum*, *Acrochaene punctata*, *Ania*

penangiana, *Anoetochilus brevilabris*, *Anthogonium gracile*, *Appendicula cornuta*, *Arundina graminifolia*, *Ascocentrum ampullaceum*, *Biermannia bimaculata*, *Chrysoglossum ornatum*, *Chiloschista parishii*, *Cirrhopetalum sikkimense*, *Cleisostoma filiforme*, *Cleisocentron pallens*, *Crepidium maximowiczianum*, *Didymoplexis pallens*, *Diplomeris hirsuta*, *Eulophia spectabilis*, *Geodorum densiflorum*, *Gymnadenia orchidis*, *Herpysma longicaulis*, *Mastigion appendiculatum*, *Micropera obtusa*, *Mischobulbum megalanthum*, *Monomeria barbata*, *Ornithochilus difformis*, *Pelatantheria insectifer*, *Papilionanthe teres*, *Porpax elwesii*, *Pomatocalpa armigerum*, *Pteroceras teres*, *Rhynchostylis retusa*, *Rhomboda lanceolata*, *Saccolabiopsis pussila*, *Smitinandia micrantha*, *Spiranthes sinensis*, *Steriochilus hirtus*, *Tainia minor*, *Thelasis pygmaea*, *Tipularia josephi*, *Uncifera obtusifolia*, *Vandopsis undulata* possess single species distribution in the region (Table 1). 9 *Dendrobium* species like *Dendrobium chrysotoxum*, *D. crepidatum*, *D. cumulatum*, *D. devonianum*, *D. falconeri*, *D. jenkinsii*, *D. Lindleyi*, *D. ochreatum* and *D. pendulum* and 5 *Paphiopedilum* species like *Paphiopedilum villosum*, *P. venustum*, *P. hirsutissimum*, *P. insigne* and *P. fairrieanum* are found in the planted condition at Pine View and Holumba floral Nurseries of Kalimpong. Collectors have gathered these species from North East India (*Floral Nurserymen say*). Terrestrial Orchid species like *Goodyera procera* frequently found in marshy habitat. Epiphytic Orchid species like *Bulbophyllum* and *Dendrobium* found highest and equal number of species diversity and wide distribution and some of the species like *Bulbophyllum bisetum*, *B. cauliflorum*, *B. hirtum*, *B. leopardinum*, *Coelogyne corymbosa*, *C. cristata*, *C. raizadae*, *C. fuscescens*, *C. occultata*, *Cymbidium devonianum*, *Dendrobium chrysanthum*, *D. denudans*, *D. moschatum*, *Epigenium amplum*, *Eria lasiopetala*, *Pholidota articulata*, *Thunia alba* and *Vandopsis undulata* are frequently found in lithophytic habitat throughout the Darjeeling Himalayan regions.

The diversity of Orchid species are largely depends upon the altitudinal ranges of the regions. Altitudinally, the district Darjeeling can be classified into four different categories. (i) Tropical zone is 120-1000m high from the mean sea level and the temperature of this zone ranges from 30-35°C, night temperature range between 20-27°C and humidity 90-100% with rainfall of 2800-5000mm. The species available in this zone are *Nervilia plicata*, *Acampe rigida*, *Dendrobium farmeri*, *Diplomeris hirsuta* etc., and above this (ii) Sub-Tropical zone 1000-1800m from the sea level. Day temperature varies from 25-

30°C while night temperature 20-25°C. Winter day temperature varies between 19-25°C and night temperature 7-10°C. Orchid species of this zone are *Eria amica*, *Esmeralda cathcartii*, *Anthogonium gracile*, *Nervilia gammieana*, *Phalaenopsis taeniale*, *Malaxis acuminata* etc., and next to this zone is (iii) Temperate and Sub-Temperate zone is ranges from 1800-3500m from sea level. Summer temperature is ranges from 15-20°C and winter temperature 5-10°C. Orchid species of this zone is *Pleione humilis*, *Bulbophyllum eublepharum*, *Spiranthes sinensis*, *Satyrium nepalense* var. *nepalense* etc., and above this zone is (iv) Sub-Alpine zone which is above 3500m from mean sea level. Winter is very cool with snow bound region. Orchid species of this region is *Gymnadenia orchidis*, *Satyrium ciliatum* var. *ciliatum* etc. This statement indicates that altitudewise variation with topography, soil type largely influence the vegetation of the region.

After the relevant literature survey, 42 species found in the regions are medicinally important. Of these, 27 are epiphytic and the rest 15 are terrestrial. These are *Acampe papillosa*, *Aerides multiflorum*, *Aerides odoratum*, *Anoectochilus brevilabris*, *Arundina graminifolia*, *Calanthe sylvatica*, *Coelogyne punctulata*, *C. stricta*, *Cymbidium aloifolium*, *C. iridioides*, *C. longifolium*, *Gymnadenia orchidis*, *Dendrobium jenkinsii*, *D. amoenum*, *D. chrysanthum*, *D. chrysotoxum*, *D. densiflorum*, *D. fimbriatum*, *D. moschatum*, *D. nobile*, *Eria bambusifolia*, *E. pannea*, *Eulophia spectabilis*, *Geodorum densiflorum*, *Habenaria dentata*, *H. pectinata*, *Liparis odorata*, *Lusia trichorhiza*, *Malaxis acuminata*, *M. muscifera*, *Nervilia aragoana*, *N. plicata*, *Oberonia caulescens*, *Papilionanthe teres*, *Phaius tankervilleae*, *Pholidota articulata*, *P. imbricata*, *P. pallida*, *Vanda cristata*, *Rhynchostylis retusa*, *Satyrium nepalense* and *Pleione maculata*.

It is observed that the luxuriant growth and diversity of the Orchid species in the undisturbed sites of the study area and the meager development in distressed sites clearly indicates the change in the microclimatic conditions in habitat by anthropogenic activities.

The indiscriminate collections of Orchid species in commercial scales have almost wiped out the Orchids population in wild habitat, except for the tall tree epiphytes and terrestrial Orchids. The local collectors and floral nurseries and farms are responsible for this damage. The extension of agricultural lands, rapid deforestation and various developmental projects directly harm the natural population of Orchids in Darjeeling Himalaya. So it is needs to work out the

suitable conservation strategies and also to protect their survival in natural habitats.

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Table 1: List of Orchid species of Darjeeling Himalaya of India with habitat, place of occurrence, altitudinal ranges and flowering month.

Sl. No.	Botanical name of Orchid species with Voucher specimen	Habitat	Locality of their occurrence within Darjeeling Himalaya of India	Altitudinal range (m)	Flowering month
1	<i>Acampe papillosa</i> (Lindl.) Lindl. [Rajendra <i>et al.</i> 0709]	Epiphytic	Relli, Najok - Kalimpong; Rambi, Kalijhora forest - Kurseong; Sevoke - Siliguri	140-900	Jul.- Dec.
2	<i>Acampe rigida</i> Buchanan-Hamilton ex. J.E. Smith) P.F. Hunt. [Rajendra <i>et al.</i> 0050]	Epiphytic	Rambi, Teesta River sides, Fyangtar, Tarkhola forest	160- 1200	May- Jun.
3	<i>Acanthephippium striatum</i> Lindl. [Rajendra <i>et al.</i> 0920]	Terrestrial	Forest areas in Damsang Gari, Kumsi - Kalimpong	700- 1800	May- Jul.
4	<i>Acrochaene punctata</i> Lindl. [Rajendra <i>et al.</i> 0726]	Epiphytic	Forest areas in Lava, Nokdara, Kaffer -Kalimpong	1200- 2200	Oct.- Nov.
5	<i>Aerides multiflorum</i> Roxb. [Rajendra <i>et al.</i> 0318]	Epiphytic	Samalbong, Suruk, Samthar Busty - Kalimpong; Siliguri	150- 1200	Mar.- Jun.
6	<i>Aerides odoratum</i> Loureiro [Rajendra <i>et al.</i> 0844]	Epiphytic	Bagrakot - Kalimpong; Sukuna forest - Kurseong	150-700	May- Jul.
7	<i>Agrostophyllum brevipes</i> King & Pantling [Rajendra <i>et al.</i> 1181]	Epiphytic	27 th mile NHPC Project side, Algarah, Panbu - Kalimpong	400- 1600	May- Jun.
8	<i>Agrostophyllum callosum</i> Rchb. f. [Rajendra <i>et al.</i> 0345]	Epiphytic	Forest areas in Lungshel, Lava, Nokdara, Algarah, Kaffer - Kalimpong	600- 2200	Mar.- May
9	<i>Agrostophyllum myrianthum</i> King & Pantling [Rajendra <i>et al.</i> 1429]	Epiphytic	Kumsi, Teesta River sides - Kalimpong; Rambi - Kurseong	200- 1600	Jul.- Aug.
10	<i>Agrostophyllum planicaule</i> (Wall. ex Lindl.) Rchb. f. [Rajendra <i>et al.</i> 0652]	Epiphytic	Kalijhora forest - Kurseong; Soureni - Mirik	500- 2100	Jul.- Aug.
11	<i>Ania penangiana</i> (Hook. f.) Summerhayes [Rajendra <i>et al.</i> 0772]	Terrestrial	Forest areas in Algarah - Kalimpong; Lopchu - Darjeeling	700- 1700	Feb.- Mar.
12	<i>Anoetochilus brevilabris</i> Lindl. [Rajendra <i>et al.</i> 1275]	Terrestrial	Forest areas in Lava - Kalimpong; Takdah - Darjeeling	1000- 1900	Jun.- Sep.
13	<i>Anthogonium gracile</i> Lindl. [Rajendra <i>et al.</i> 0578]	Terrestrial	Dello Hill, forest areas in Lava, Samalbong - Kalimpong; Rimbik - Darjeeling	1200- 2800	Aug.- Oct.
14	<i>Appendicula cornuta</i> Bl. [Rajendra <i>et al.</i> 1448]	Epiphytic	Birik forest - Kurseong; Kambal - Kalimpong	300-800	Aug.- Sep.
15	<i>Arundina graminifolia</i> (D. Don) Hochreutiner [Rajendra <i>et al.</i> 0094]	Terrestrial	Dello Hill, forest areas in Relli, Kumsi - Kalimpong; Teesta River Valley	300- 1800	Jan.- Nov.
16	<i>Ascocentrum ampullaceum</i> (Roxb.) Schltr. [Rajendra <i>et al.</i> 0248]	Epiphytic	Rambi, Kalijhora – Kurseong; Kumsi -Kalimpong; Sevoke - Siliguri	200-800	Mar.- May
17	<i>Biermannia bimaculata</i> (King & Pantling) King & Pantling [Rajendra <i>et al.</i> 1136]	Epiphytic	Bagrakote - Kalimpong; Teesta Bridge sides	300-700	Apr.- Jul.
18	<i>Bulbophyllum affine</i> Lindl. [Rajendra <i>et al.</i> 0066]	Epiphytic	Samalbong, Samthar - Kalimpong; Mungpoo	700- 1900	May- Jun.

19	<i>Bulbophyllum apodum</i> Hook. f. [Rajendra <i>et al.</i> 1334]	Epiphytic	Teesta River sides (from Malli to Coronation Bridge)	300-600	May-Jul.
20	<i>Bulbophyllum bisetum</i> Lindl. [Rajendra <i>et al.</i> 0958]	Epiphytic	Samalbong, Kaffer, Hill Top - Kalimpong,	1200-2000	Sep.-Oct.
21	<i>Bulbophyllum careyanum</i> (Hook.) Sprengel [Rajendra <i>et al.</i> 1507]	Epiphytic	Suruk-Samthar, Gogok-Todey - Kalimpong; Latpanjar - Kurseong	1300-1650	Oct.-Jan.
22	<i>Bulbophyllum careyanum</i> (Hook.) Sprengel var. <i>sikkimense</i> S.Z. Lucksom [Rajendra <i>et al.</i> 0168]	Epiphytic	Soreksa, Samalbong Busty - Kalimpong	800-2100	Oct.-Nov.
23	<i>Bulbophyllum cauliflorum</i> Hook. f. [Rajendra <i>et al.</i> 1176]	Epiphytic	Algarah forest - Kalimpong; Sukiapokhari, Rimbik - Darjeeling	1600-2200	Apr.-Jul.
24	<i>Bulbophyllum cauliflorum</i> Hook. f. var. <i>sikkimense</i> N. Pearce & P.J. Cribb [Rajendra <i>et al.</i> 0354]	Epiphytic	Nokhdara, Lava, Algarah forest - Kalimpong	900-2200	Jun.-Aug.
25	<i>Bulbophyllum crassipes</i> Hook. f. [Rajendra <i>et al.</i> 0102]	Epiphytic	Suruk, Samalbong - Kalimpong Rambi, Mungpoo - Kalimpong	200-1000	Sep.-Oct.
26	<i>Bulbophyllum eublepharum</i> Rchb. f. [Rajendra <i>et al.</i> 1226]	Epiphytic	Sonada - Kurseong; Neora Valley - Kalimpong	1450-2500	May-Aug.
27	<i>Bulbophyllum gamblei</i> (Hook. f.) Hook. f. [Rajendra <i>et al.</i> 1171]	Epiphytic	Takdah, Rammam forest - Darjeeling	1400-2500	May-Aug.
28	<i>Bulbophyllum gracilipes</i> King & Pantling [Rajendra <i>et al.</i> 1158]	Epiphytic	Rambi - Kurseong; Bagrakot, Nimbong - Kalimpong	300-950	Oct.-Dec.
29	<i>Bulbophyllum guttulatum</i> (Hook. f.) N.P. Balakrishnan [Rajendra <i>et al.</i> 1457]	Epiphytic	Sittong, Mungpoo - Kurseong	650-1800	Jul.-Sep.
30	<i>Bulbophyllum helenae</i> (Kuntze) J.J. Smith [Rajendra <i>et al.</i> 0908]	Epiphytic	Mim forest, Todey-Tangta - Kalimpong	600-2100	May-Aug.
31	<i>Bulbophyllum hirtum</i> (J.E. Smith) Lindl. [Rajendra <i>et al.</i> 0156]	Epiphytic	Samalbong, Chuikhim, Algarah - Kalimpong	900-2000	Oct.-Dec.
32	<i>Bulbophyllum hymenanthum</i> Hook. f. [Rajendra <i>et al.</i> 0463]	Epiphytic	Rammam, Gorkhey - Darjeeling	1400-2800	May-Jun.
33	<i>Bulbophyllum khasyanum</i> Griff. [Rajendra <i>et al.</i> 1004]	Epiphytic	Algarah, Todey, Rachela - Kalimpong	1400-2500	Oct.-Dec.
34	<i>Bulbophyllum leopardinum</i> Lindl. [Rajendra <i>et al.</i> 1217]	Epiphytic	Kaffer, Lava - Kalimpong; Rimbik, Rammam - Darjeeling	1300-2400	Jun.-Aug.
35	<i>Bulbophyllum odoratissimum</i> (J.E. Smith) Lindl. [Rajendra <i>et al.</i> 0083]	Epiphytic	Algarah, Nokdara, Tangta - Kalimpong	1100-1900	Jul.-Aug.
36	<i>Bulbophyllum odoratissimum</i> (J.E. Smith) Lindl. var. <i>racemosum</i> N.P. Balakrishnan [Rajendra <i>et al.</i> 1633]	Epiphytic	Damsang Gari, Pedung - Kalimpong	1200-1450	Jun.-Jul.
37	<i>Bulbophyllum polyrhizum</i> Lindl. [Rajendra <i>et al.</i> 1103]	Epiphytic	Balasan - Kurseong; Majitar - Kalimpong	300-800	Mar.-Apr.
38	<i>Bulbophyllum reptans</i> (Lindl.) Lindl. [Rajendra <i>et al.</i> 0037]	Epiphytic	Lava, Todey-Tangta forest - Kalimpong; Kurseong	1600-2700	Oct.-Dec.
39	<i>Bulbophyllum rigidum</i> King & Pantling [Rajendra <i>et al.</i> 1348]	Epiphytic	Todey, Lava - Kalimpong; Takdah forest - Darjeeling	1600-2200	Jun.-Sep.
40	<i>Bulbophyllum rolfei</i> (Kuntze) Seidenfaden [Rajendra <i>et al.</i> 1686]	Epiphytic	Damsang Gari, Neora Valley - Kalimpong	1900-2900	Aug.-Sep.
41	<i>Bulbophyllum sarcophyllum</i> (King & Pantling) J.J. Smith [Rajendra <i>et al.</i> 0951]	Epiphytic	Nim forest - Kalimpong; Jalpahar	600-1400	Jun.-Sep.

42	<i>Bulbophyllum scabratum</i> Rchb. f. [Rajendra <i>et al.</i> 0324]	Epiphytic	Lower Lungshel, Rachel forest - Kalimpong	1200-1800	Apr.-May
43	<i>Bulbophyllum secundum</i> Hook. f. [Rajendra <i>et al.</i> 1621]	Epiphytic	Lopchu forest, Damsang Gari - Kalimpong	1500-2100	Jun.-Jul.
44	<i>Bulbophyllum stenobulbon</i> Paris & Rchb. f. [Rajendra <i>et al.</i> 0870]	Epiphytic	Kalijhora - Kurseong; Guling forest	250-700	May-Jun.
45	<i>Bulbophyllum striatum</i> Griff.) Rchb. f [Rajendra <i>et al.</i> 1726]	Epiphytic	Today-Tangta forest -Kalimpong	1800-2750	Oct.-Nov.
46	<i>Bulbophyllum triste</i> Rchb. f. [Rajendra <i>et al.</i> 0770]	Epiphytic	Samalbong-Sinjee, Godok forest - Kalimpong	1000-1700	Feb.-Mar.
47	<i>Bulbophyllum thomsonii</i> Hook. f. [Rajendra <i>et al.</i> 1023]	Epiphytic	Neora Valley - Kalimpong Sukiapokhari - Darjeeling	800-2100	Oct.-Dec.
48	<i>Bulbophyllum tortuosum</i> (Bl.) Lindl. [Rajendra <i>et al.</i> 1553]	Epiphytic	Bagrakote, Kalijhora - Kurseong	200-350	Mar.-Apr.
49	<i>Bulbophyllum umbellatum</i> Lindl. [Rajendra <i>et al.</i> 1086]	Epiphytic	Kurseong, Maneybhanjang - Darjeeling	1300-2200	Mar.-May
50	<i>Bulbophyllum wallichii</i> (Lindl.) Rchb. f. [Rajendra <i>et al.</i> 1760]	Epiphytic	Takdah - Darjeeling; Neora Valley - Kalimpong	1500-2900	Nov.-Dec.
51	<i>Bulbophyllum yoksumense</i> J.J. Smith [Rajendra <i>et al.</i> 1477]	Epiphytic	Tangta, Rachel forest - Kalimpong	1800-2800	Sep.-Oct.
52	<i>Calanthe brevicornu</i> Lindl. [Rajendra <i>et al.</i> 0427]	Terrestrial	Forest areas in Rammam, Gorkhey, Lopchu - Darjeeling; Lava - Kalimpong	1400-2700	May-Jul.
53	<i>Calanthe biloba</i> Lindl. [Rajendra <i>et al.</i> 0728]	Terrestrial	Forest areas in Charkhol, Kaffer - Kalimpong; Lopchu - Darjeeling	1200-2900	Sep.-Dec.
54	<i>Calanthe puberula</i> Lindl. [Rajendra <i>et al.</i> 0816]	Terrestrial	Forest areas in Mim Tea Estate, Rammam - Darjeeling; Baggonra - Kurseong	1550-3200	May-Aug.
55	<i>Calanthe sylvatica</i> (Thouars) Lindl. [Rajendra <i>et al.</i> 1415]	Terrestrial	Forest areas in Kaffer, Algarah - Kalimpong	300-2400	Jul.-Oct.
56	<i>Calanthe yuksomnensis</i> S.Z. Lucksom [Rajendra <i>et al.</i> 0853]	Terrestrial	Forest areas of Mem Tea Estate, Sukiapokhari, Takdah - Darjeeling	1700-2900	Apr.-Jun.
57	<i>Ceratostylis himalaica</i> Hook. f. [Rajendra <i>et al.</i> 1164]	Epiphytic	Mirik, Todey forest -Kalimpong	1200-2100	Apr.-Jun.
58	<i>Ceratostylis subulata</i> Bl. [Rajendra <i>et al.</i> 1328]	Epiphytic	Panbu forest, Majitar - Kalimpong	400-800	May-Jul.
59	<i>Cheirostylis pabongensis</i> S.Z. Lucksom [Rajendra <i>et al.</i> 0211]	Terrestrial	Mangaldara, Kalimpong 8 th Mile	600-1000	Feb.-Apr.
60	<i>Chiloschista parishii</i> Seidenfaden [Rajendra <i>et al.</i> 0203]	Epiphytic	Forest areas in Sukuna - Kurseong; Sepkhola, Najok - Kalimpong	800-1900	Mar.-Apr.
61	<i>Chrysoglossum ornatum</i> Bl. [Rajendra <i>et al.</i> 0877]	Terrestrial	Forest areas in Charkhol - Kalimpong; Manaybhanjang - Darjeeling	1600-2200	May-Jul.
62	<i>Cirrhopetalum sikkimense</i> King & Pantling [Rajendra <i>et al.</i> 1193]	Epiphytic	Pareng, Makum -Kalimpong	400-700	Apr.-Jun.
63	<i>Cleisostoma filiforme</i> (Lindl.) Garay [Rajendra <i>et al.</i> 0570]	Epiphytic	Relli, Najok - Kalimpong; Kalijhora - Kurseong	200-1600	Jul.-Aug.
64	<i>Cleisocentron pallens</i> (Cathcart ex Lindl.) N. Pearce & P.J. Cribb	Epiphytic	Forest areas in Kalijhora - Kurseong; Najok -Kalimpong	300-800	Jul.-Sep.

	[Rajendra <i>et al.</i> 0676]				
65	<i>Cleisostoma aspersum</i> (Rchb. f.) Garay [Rajendra <i>et al.</i> 1329]	Epiphytic	Panighatta - Kurseong; Samsing, Suruk-Yangmakum - Kalimpong	300-1600	Jun.-Aug.
66	<i>Cleisostoma racemiferum</i> (Lindl.) Garay [Rajendra <i>et al.</i> 0671]	Epiphytic	Nock Dara, Lungsel -Kalimpong	800-2100	Jul.-Sep.
67	<i>Cleisostoma subulatum</i> Bl. [Rajendra <i>et al.</i> 0658]	Epiphytic	Kalijhora - Kurseong; Najok forest - Kalimpong	250-900	Jul.-Aug.
68	<i>Coelogyne barbata</i> Lindl. ex Griff. [Rajendra <i>et al.</i> 0715]	Epiphytic	Rachela, Todey forest - Kalimpong	1600-2400	Sep.-Dec.
69	<i>Coelogyne corymbosa</i> Lindl. [Rajendra <i>et al.</i> 0308]	Epiphytic	Rimbik, Tiger Hill, Samanden forest -Darjeeling	1400-3300	Apr.-May
70	<i>Coelogyne cristata</i> Lindl. [Rajendra <i>et al.</i> 0217]	Epiphytic	Lava forest, Todey-Tangta - Kalimpong; Kurseong	1200-2700	Feb.-Apr.
71	<i>Coelogyne fimbriata</i> Lindl. [Rajendra <i>et al.</i> 1501]	Epiphytic	Relli-Pala, Kumsi forest - Kalimpong	800-2300	Sep.-Nov.
72	<i>Coelogyne flaccida</i> Lindl. [Rajendra <i>et al.</i> 0253]	Epiphytic	Relli, Neol forest -Kalimpong	300-1900	Mar.-Apr.
73	<i>Coelogyne fuscescens</i> Lindl. [Rajendra <i>et al.</i> 0186]	Epiphytic	Sangsay Bhalukhop, Samalbong-Sinjee -Kalimpong	700-2000	Oct.-Dec.
74	<i>Coelogyne raizadae</i> S.K. Jain & S. Das [Rajendra <i>et al.</i> 0821]	Epiphytic	Rimbik - Darjeeling; Baggonra, St. Marry's Hill - Kurseong	1800-2400	Apr.-Jun.
75	<i>Coelogyne nitida</i> (Wall. ex D. Don) Lindl. [Rajendra <i>et al.</i> 0195]	Epiphytic	Nock Dara, Todey-Tangta - Kalimpong; Lopchu forest - Darjeeling	1400-2800	Feb.-May.
76	<i>Coelogyne occultata</i> Hook. f. [Rajendra <i>et al.</i> 1201]	Epiphytic	Baggonra- Kurseong; Rachela forest - Kalimpong	1800-2900	Apr.-Jun.
77	<i>Coelogyne ovalis</i> Lindl. [Rajendra <i>et al.</i> 0145]	Epiphytic	Suruk, Samalbong Busty - Kalimpong; Lopchu forest - Darjeeling	800-1900	Oct.-Nov.
78	<i>Coelogyne pantlingii</i> S.Z. Lucksom [Rajendra <i>et al.</i> 0892]	Epiphytic	Sukiapokhari, Rammam - Darjeeling	2000-2600	Jun.-Jul.
79	<i>Coelogyne pempahesiana</i> H.J. Chowdhery [Rajendra <i>et al.</i> 1146]	Epiphytic	Todey-Tangta - Kalimpong, Holumba Nursery (endemic to Kalimpong)	1000-2900	Mar.-May
80	<i>Coelogyne prolifera</i> Lindl. [Rajendra <i>et al.</i> 0269]	Epiphytic	Nokdara, Todey, Kumsi forest	600-1900	Feb.-Apr.
81	<i>Coelogyne punctulata</i> Lindl. [Rajendra <i>et al.</i> 1496]	Epiphytic	Damsang Gari - Kalimpong; Rimbik -Darjeeling	1300-2200	Oct.-Dec.
82	<i>Coelogyne stricta</i> (D. Don) Schltr. [Rajendra <i>et al.</i> 1059]	Epiphytic	Sittong, Mungpoo - Kurseong; Nimbong - Kalimpong	600-1300	Feb.-Apr.
83	<i>Coelogyne viscosa</i> Reichb. f. [Rajendra <i>et al.</i> 0767]	Epiphytic	Godok-Todey forest -Kalimpong	500-1400	Feb.-Apr.
84	<i>Crepidium maximowiczianum</i> (King and Pantling) Szlach. [Rajendra <i>et al.</i> 0481]	Terrestrial	Forest areas of Kumsi, Ratay Makum - Kalimpong; Mungpoo	600-1100	Jun.-Aug.
85	<i>Cryptochilus lutea</i> Lindl. [Rajendra <i>et al.</i> 0411]	Epiphytic	Samalbong, Tangta, Rachela - Kalimpong; Megma - Darjeeling	1100-2900	Mar.-Jun
86	<i>Cryptochilus sanguinea</i> Wall. [Rajendra <i>et al.</i> 0872]	Epiphytic	Birch Hill - Darjeeling; Dhotray forest - Darjeeling	1600-2600	Jun.-Jul.
87	<i>Cymbidium aloifolium</i> (L.) Sw. [Rajendra <i>et al.</i> 0362]	Epiphytic	Relli, Suruk, Kalimpong 7 th Mile, Chitrey - Kalimpong	300-1600	Apr.-Jul.

88	<i>Cymbidium cochleare</i> Lindl. [Rajendra <i>et al.</i> 1011]	Epiphytic	Charkhol, Lava - Kalimpong; Takdah -Darjeeling	1500- 2200	Oct.- Dec.
89	<i>Cymbidium dayanum</i> Reichb. f. [Rajendra <i>et al.</i> 1471]	Epiphytic	Jaldhaka - Kalimpong; Lathpanjar, Mungpoo - Kurseong	500- 1000	Aug.- Nov.
90	<i>Cymbidium devonianum</i> Lindl. ex Paxton [Rajendra <i>et al.</i> 0349]	Epiphytic	Lungshel, Lava forest - Kalimpong; Toroyok Busty - Kurseong	1300- 2300	Apr.- Jul.
91	<i>Cymbidium iridioides</i> D. Don [Rajendra <i>et al.</i> 1745]	Epiphytic	Neora Valley, Todey forest - Kalimpong	1100- 2400	Oct.- Nov.
92	<i>Cymbidium longifolium</i> D. Don [Rajendra <i>et al.</i> 0724]	Epiphytic	Lava, Gumbadara, Algarah forest - Kalimpong	1700- 2300	Oct.- Dec.
93	<i>Cymbidium erythraeum</i> Lindl. [Rajendra <i>et al.</i> 1432]	Epiphytic	Lava, Neora Valley, Algarah - Kalimpong	1800- 2700	Aug.- Oct.
94	<i>Cymbidium hookerianum</i> Rchb. f. [Rajendra <i>et al.</i> 0291]	Epiphytic	Jarebuttee (Neora Valley), Todey - Kalimpong	2200- 2800	Mar.- May
95	<i>Cymbidium lancifolium</i> Hook. [Rajendra <i>et al.</i> 0796]	Terrestrial	Algarah forest, Majitar - Kalimpong	350- 2400	Mar.- Apr.
96	<i>Cymbidium lowianum</i> (Rchb. f.) Rchb. f. [Rajendra <i>et al.</i> 1094]	Epiphytic	Todey forest, Neora Valley - Kalimpong	1400- 2700	Mar.- May
97	<i>Cymbidium mastersii</i> Griff. ex Lindl. [Rajendra <i>et al.</i> 1773]	Epiphytic	Forest areas in Kaffer, Neora Valley - Kalimpong	1000- 2300	Oct.- Dec.
98	<i>Cymbidium bicolor</i> Lindl. [Rajendra <i>et al.</i> 0816]	Epiphytic	Samalbong-Sinjee, Suruk Busty - Kalimpong	300- 1500	Apr.- Jun.
99	<i>Dendrobium aduncum</i> Lindl. ex. Lindl. [Rajendra <i>et al.</i> 1286]	Epiphytic	Panighatta - Kurseong; Kumsi forest - Kalimpong	300-900	May- Jul.
100	<i>Dendrobium amoenum</i> Wall. ex Lindl. [Rajendra <i>et al.</i> 0376]	Epiphytic	Suruk, Samalbong Busty, Jaldhaka, Lesh Khola - Kalimpong;	300-800	May- Jun.
101	<i>Dendrobium anceps</i> Sw. [Rajendra <i>et al.</i> 0243]	Epiphytic	Sevoke - Siliguri; Kalijhora, Rambi Mongpoo - Kurseong	150-600	Mar.- May
102	<i>Dendrobium aphyllum</i> (Roxb.) C.E.C. Fischer [Rajendra <i>et al.</i> 0276]	Epiphytic	Suruk, Jholung, Kumsi - Kalimpong; Birik - Kurseong	300- 1800	Mar.- Jun.
103	<i>Dendrobium bicameratum</i> Lindl. [Rajendra <i>et al.</i> 0551]	Epiphytic	Lungshel Busty, Todey forest - Kalimpong	500- 2100	Jul.- Aug.
104	<i>Dendrobium candidum</i> Wall. ex Lindl. [Rajendra <i>et al.</i> 0457]	Epiphytic	Rammam, Gorkhey, Megma - Darjeeling; Rachel - Kalimpong	1000- 2600	May- Jun.
105	<i>Dendrobium cathcartii</i> Hook. f. [Rajendra <i>et al.</i> 0237]	Epiphytic	Rambi - Kurseong; Sevoke - Siliguri	150-800	Mar.- Sep.
106	<i>Dendrobium chrysanthum</i> Wall. ex Lindl. [Rajendra <i>et al.</i> 0687]	Epiphytic	Algarah, Lava, Nokdara, Todey forest - Kalimpong	800- 2200	Jul.- Oct.
107	<i>Dendrobium chrysotoxum</i> Lindl. [Rajendra <i>et al.</i> 1613]	Epiphytic	Holumba Floral Nursery - Kalimpong	1300- 1800	May- Jun.
108	<i>Dendrobium crepidatum</i> Lindl. & Paxton [Rajendra <i>et al.</i> 0801]	Epiphytic	Holumba Floral Nursery - Kalimpong	800- 1200	Apr.- May
109	<i>Dendrobium cumulatum</i> Lindl. [Rajendra <i>et al.</i> 1281]	Epiphytic	Holumba Floral Nursery - Kalimpong	350-600	Jun.- Jul.
110	<i>Dendrobium densiflorum</i> Lindl. [Rajendra <i>et al.</i> 0331]	Epiphytic	Suruk, Najok, Relli, Lopchu - Darjeeling	300- 2100	Apr.- Jul.
111	<i>Dendrobium denudans</i> D. Don [Rajendra <i>et al.</i> 0109]	Epiphytic	Mangzing, Nimbong, Samalbong	600- 1800	Sep.- Oct.
112	<i>Dendrobium devonianum</i> Paxton	Epiphytic	Holumba Floral Nursery -	800-	Apr.-

	[Rajendra <i>et al.</i> 0861]		Kalimpong	2100	May
113	<i>Dendrobium eriiflorum</i> Griff. [Rajendra <i>et al.</i> 0718]	Epiphytic	Mangzing, Nimbong	800- 2000	Sep.- Nov.
114	<i>Dendrobium falconeri</i> Hook. [Rajendra <i>et al.</i> 1151]	Epiphytic	Holumba Floral Nursery - Kalimpong	1500- 2200	Apr.- Jun.
115	<i>Dendrobium farmeri</i> Paxton [Rajendra <i>et al.</i> 1140]	Epiphytic	Kalijhora forest - Kurseong	200- 1000	Mar.- May
116	<i>Dendrobium fimbriatum</i> Hook. [Rajendra <i>et al.</i> 1579]	Epiphytic	Kumsi forest, Algarah forest - Kalimpong	600- 1660	Apr.- may
117	<i>Dendrobium fimbriatum</i> var. <i>occulatum</i> Hook. [Rajendra <i>et al.</i> 0283]	Epiphytic	Suruk, Relli-Pala -Kalimpong	300- 1100	Mar.- May
118	<i>Dendrobium heterocarpum</i> Lindl. [Rajendra <i>et al.</i> 1081]	Epiphytic	Todey, Neora Valley-Kalimpong	1300- 2300	Feb.- Apr.
119	<i>Dendrobium jenkinsii</i> Wall. ex Lindl. [Rajendra <i>et al.</i> 1574]	Epiphytic	Holumba Floral Nursery - Kalimpong	1100- 1400	Apr.- May
120	<i>Dendrobium lindleyi</i> Steudel [Rajendra <i>et al.</i> 1120]	Epiphytic	Holumba Floral Nursery- Kalimpong	800- 1600	Feb.- Apr.
121	<i>Dendrobium longicornu</i> Lindl. [Rajendra <i>et al.</i> 0151]	Epiphytic	Lava, Lungshel, Gumbadara, Algarah - Kalimpong	1400- 3000	Aug.- Dec.
122	<i>Dendrobium moschatum</i> (Buchanan-Hamilton) Sw. [Rajendra <i>et al.</i> 0061]	Epiphytic	Relli-Pala, Samalbong forest - Kalimpong	500- 1300	May- Jul.
123	<i>Dendrobium nobile</i> Lindl. [Rajendra <i>et al.</i> 0421]	Epiphytic	8 th mile Kalimpong, Rimbik forest - Darjeeling	300- 2200	Apr.- Jun.
124	<i>Dendrobium nobile</i> Lindl. var. <i>virginalis</i> Hort. [Rajendra <i>et al.</i> 1585]	Epiphytic	Lava, Damsan Gari, Kaffer - Kalimpong; Takdah - Darjeeling	340- 1600	Apr.- Jun.
125	<i>Dendrobium ochreatum</i> Lindl. [Rajendra <i>et al.</i> 1571]	Epiphytic	Holumba Floral Nursery - Kalimpong	1000- 1100	Apr.- May
126	<i>Dendrobium pendulum</i> Roxb. [Rajendra <i>et al.</i> 1559]	Epiphytic	Holumba Floral Nursery - Kalimpong	1200- 1600	Mar.- Apr.
127	<i>Dendrobium porphyrochilum</i> Lindl. [Rajendra <i>et al.</i> 0475]	Epiphytic	Manaybhanjang, Rammam forest - Darjeeling	2000- 2700	May.- Jul.
128	<i>Dendrobium praecinctum</i> Rchb. f. [Rajendra <i>et al.</i> 1284]	Epiphytic	Todey-Tangta forest-Kalimpong	1100- 1900	Jun.- Jul.
129	<i>Dendrobium stuposum</i> Lindl. [Rajendra <i>et al.</i> 1314]	Epiphytic	Takdah - Darjeeling; Dabaipani	1400- 2300	May- Jul.
130	<i>Dendrobium sulcatum</i> Lindl. [Rajendra <i>et al.</i> 0998]	Epiphytic	Kumsi, Najok forest - Kalimpong	550- 1000	Apr.- May
131	<i>Dendrobium terminale</i> Parish & Rchb. f. [Rajendra <i>et al.</i> 1325]	Epiphytic	Lesh khola forest	300-800	Jun.- Sep.
132	<i>Dendrobium transparens</i> Wall. ex Lindl. [Rajendra <i>et al.</i> 0417]	Epiphytic	Kalijhora, Bagrakot, Mem Tea Estate - Darjeeling	200- 1700	May- Jun.
133	<i>Didymoplexis pallens</i> Griff. [Rajendra <i>et al.</i> 0866]	Terrestrial	Samalbong forest, Relli-Pala River sides - Kalimpong	900- 1600	May- Jun.
134	<i>Diplomeris hirsuta</i> (Lindl.) Lindl. [Rajendra <i>et al.</i> 1333]	Terrestrial	Kalijhora forest, Coronation Bridge sides	200-900	Jun.- Aug.
135	<i>Epigenium amplum</i> (Lindl.) Summerhayes [Rajendra <i>et al.</i> 0721]	Epiphytic	Nim, Lungshel, Algarah, Sukiapokhari	1400- 2200	Sep.- Nov.
136	<i>Epigenium rotundatum</i> (Lindl.) Summerhayes [Rajendra <i>et al.</i> 0705]	Epiphytic	Lava, Nokdara, Algarah, Todey forest - Kalimpong	1500- 2600	Sep.- Nov.
137	<i>Eria acervata</i> Lindl.	Epiphytic	Kalijhora - Kurseong; Relli,	200-900	Jun.-

	[Rajendra <i>et al.</i> 0608]		Nokdara - Kalimpong		Aug.
138	<i>Eria amica</i> Rchb. f. [Rajendra <i>et al.</i> 0786]	Epiphytic	Kumsi, Panbu, Algarah forest - Kalimpong	500-1600	Mar.-Jun.
139	<i>Eria biflora</i> Griff. [Rajendra <i>et al.</i> 1517]	Epiphytic	Najok-Sepkhola - Kalimpong	400-900	Sep.-Oct.
140	<i>Eria bractescens</i> Lindl. [Rajendra <i>et al.</i> 0897]	Epiphytic	Algarah - Kalimpong; Tinchulay, Dow Hill - Kurseong	400-1700	May.-Jul.
141	<i>Eria clausa</i> King & Pantling [Rajendra <i>et al.</i> 0779]	Epiphytic	Rammam - Darjeeling; Neora Valley - Kalimpong	1100-2600	Feb.-May
142	<i>Eria coronaria</i> (Lindl.) Reichb. f. [Rajendra <i>et al.</i> 0175]	Epiphytic	Nimbong, Lungsel, Nokdara - Kalimpong	1000-2300	Oct.-Dec.
143	<i>Eria discolor</i> Lindl. [Rajendra <i>et al.</i> 0513]	Epiphytic	Relli - Kalimpong; Kalijhora - Kurseong; Sevok - Siliguri	500-1300	Jan.-Jun.
144	<i>Eria excavata</i> Lindl. [Rajendra <i>et al.</i> 0233]	Epiphytic	Relli, Teesta River side - Kalimpong	1000-2200	Mar.-Jun.
145	<i>Eria bambusifolia</i> Lindl. [Rajendra <i>et al.</i> 0405]	Epiphytic	Sukiapokhari - Darjeeling; Godok-Todey - Kalimpong	1900-2800	Oct.-Dec.
146	<i>Eria graminifolia</i> Lindl. [Rajendra <i>et al.</i> 1206]	Epiphytic	Toroyok - Kalimpong; Serikhola - Darjeeling	1800-3450	May-Aug.
147	<i>Eria lasiopetala</i> (Willdenow) Ormerod [Rajendra <i>et al.</i> 0227]	Epiphytic	Rambi, Relli - Kalimpong; Kalijhora - Kurseong; Sevok forest - Siliguri	200-700	Mar.-Jul.
148	<i>Eria paniculata</i> Lindl. [Rajendra <i>et al.</i> 0342]	Epiphytic	Lungshel, Algarah forest - Kalimpong	700-1600	Feb.-May
149	<i>Eria panna</i> Lindl. [Rajendra <i>et al.</i> 1592]	Epiphytic	Kumsi forest, Kamble - Kalimpong	600-1000	May-Jul.
150	<i>Eria pumila</i> Lindl. [Rajendra <i>et al.</i> 1307]	Epiphytic	Kalijhora forest - Kurseong; Sevok forest - Siliguri	200-600	May-Aug.
151	<i>Eria spicata</i> (D. Don) Handel-Mazzetti [Rajendra <i>et al.</i> 0601]	Epiphytic	Lungshel, Kumsi, Nokdara forest - Kalimpong	400-2300	Feb.-Aug.
152	<i>Eria stricta</i> Lindl. [Rajendra <i>et al.</i> 0043]	Epiphytic	Suruk, Samalbong, Chuikhim - Kalimpong	400-1400	Jan.-Apr.
153	<i>Eria vittata</i> Lindl. [Rajendra <i>et al.</i> 1053]	Epiphytic	Todey-Tangta, Neora Valley - Kalimpong	1500-2600	Feb.-Apr.
154	<i>Esmeralda cathartii</i> (Lindl.) Rchb. f. [Rajendra <i>et al.</i> 1067]	Epiphytic	Neora Valley, Sukiapokhari - Darjeeling	700-2300	Mar.-Jun.
155	<i>Esmeralda clarkei</i> Rchb. f. [Rajendra <i>et al.</i> 0753]	Epiphytic	Lava, Todey forest - Kalimpong	1300-2000	Sep.-Dec.
156	<i>Eulophia spectabilis</i> (Dennstedt) Suresh [Rajendra <i>et al.</i> 0839]	Terrestrial	Forest areas in Kumsi - Kalimpong; Sittong - Kurseong	600-1100	Apr.-May
157	<i>Flickengeria fugas</i> Rchb. f. [Rajendra <i>et al.</i> 0508]	Epiphytic	Relli, Jholung, Kalijhora - Kurseong	200-900	Jun.-Jul.
158	<i>Flickengeria macraei</i> (Lindl.) Seidenfaden [Rajendra <i>et al.</i> 1293]	Epiphytic	Todey, Rachela, Sukiapokhari forest - Darjeeling	1600-2800	Jun.-Jul.
159	<i>Gastrochilus acutifolius</i> (Lindl.) Kuntze [Rajendra <i>et al.</i> 1017]	Epiphytic	Kaffer - Kalimpong; Baggonra forest - Kurseong	1400-2400	Oct.-Dec.
160	<i>Gastrochilus desypogon</i> (J.E. Smith) Kuntze [Rajendra <i>et al.</i> 1511]	Epiphytic	Sittong, Panbu forest - Kalimpong	600-1400	Oct.-Nov.
161	<i>Gastrochilus calceolaris</i> (Buchanan-Hamilton ex J.E. Smith) D. Don [Rajendra <i>et al.</i> 0451]	Epiphytic	Rammam forest - Darjeeling; Toroyok Busty - Kurseong	1700-2300	Apr.-Jun.
162	<i>Gastrochilus distichus</i> (Lindl.) Kuntze [Rajendra <i>et al.</i>	Epiphytic	Alubari (Neora Valley), Todey -	1700-	Mar.-

	0303]		Kalimpong; Rimbik - Darjeeling	2600	May
163	<i>Gastrochilus inconspicuus</i> (Hook. f.) Kuntze [Rajendra <i>et al.</i> 0901]	Epiphytic	Seokbir Khani, Relli forest - Kalimpong	200-700	Jun.- Jul.
164	<i>Gastrochilus sonamii</i> S.Z. Luksom [Rajendra <i>et al.</i> 0740]	Epiphytic	Rammam forest, Neora Valley - Kalimpong	1800- 2600	Nov.- Dec.
165	<i>Geudorum densiflorum</i> (Lamarck) Schltr. [Rajendra <i>et al.</i> 0503]	Terrestrial	Relli River sides - Kalimpong	600- 1300	Jun.- Jul.
166	<i>Goodyera foliosa</i> (Lindl.) Bentham ex C.B. Clarke [Rajendra <i>et al.</i> 1407]	Semi Saprophytic	Forest areas in Kumsi, Todey - Kalimpong	900- 2600	Aug.- Sep.
167	<i>Goodyera fusca</i> (Lindl.) Hook. f. [Rajendra <i>et al.</i> 0701]	Semi Saprophytic	Forest areas in Lava, Neora Valley - Kalimpong	1900- 2300	Sep.- Oct.
168	<i>Goodyera hemsleyana</i> King & Pantling [Rajendra <i>et al.</i> 1388]	Semi Saprophytic	Forest areas in Kalpokhari (Border area of Nepal and India); Neora Valley - Kalimpong	1800- 2600	Jul.- Aug.
169	<i>Goodyera hispida</i> Lindl. [Rajendra <i>et al.</i> 1421]	Semi Saprophytic	Forest areas in Takdah- Kalimpong; Lava -Kalimpong	350- 2300	Jul.- Sep.
170	<i>Goodyera procera</i> (Ker Gawler) Hook. [Rajendra <i>et al.</i> 0761]	Terrestrial	Forest areas in Samalbong, Suruk-Samthar, Pudung, Kumsi - Kalimpong	400- 1100	Feb.- Apr.
171	<i>Goodyera schlechtendaliana</i> Rchb. f. [Rajendra <i>et al.</i> 0698]	Semi Saprophytic	Forest areas in Lava, Kaffer - Kalimpong; Takdah, Rimbik - Darjeeling	1400- 2400	Aug.- Sep.
172	<i>Goodyera vittata</i> (Lindl.) Bentham ex Hook. f. [Rajendra <i>et al.</i> 0617]	Semi Saprophytic	Forest areas in Todey -Tangta - Kalimpong	1600- 3100	Jul.- Sep.
173	<i>Gymnadenia orchidis</i> Lindl. var. <i>orchidis</i> [Rajendra <i>et al.</i> 0546]	Terrestrial	Sandakphu (Border area of Nepal and India)	3000- 4300	Jun.- Sep.
174	<i>Habenaria arietina</i> Hook. f. [Rajendra <i>et al.</i> 0621]	Terrestrial	Lava - Kalimpong; Manaybhanjang, Megma, Siri Khola, Sandakphu (Border area of Nepal and India)	1600- 3600	Jul.- Aug.
175	<i>Habenaria dentata</i> (Sw.) Schltr. [Rajendra <i>et al.</i> 0713]	Terrestrial	Forest areas in Algarah - Kalimpong; Soureni - Mirik	600- 1600	Sep.- Oct.
176	<i>Habenaria furcifera</i> Lindl. [Rajendra <i>et al.</i> 0656]	Terrestrial	Forest areas in Kumsi, Relli-Pala River sides - Kalimpong	600- 1100	Jul.- Sep.
177	<i>Habenaria pectinata</i> (J.E. Smith) D. Don [Rajendra <i>et al.</i> 0647]	Terrestrial	Dhotray, Manaybhanjang - Darjeeling	1500- 2400	Aug.- Sep.
178	<i>Habenaria stenopetala</i> Lindl. [Rajendra <i>et al.</i> 1364]	Terrestrial	Forest areas in Lava, Lopchu, Algarah -Kalimpong	300- 2300	Jul.- Sep.
179	<i>Herminium jaffreyanum</i> King & Pantling [Rajendra <i>et al.</i> 1682]	Terrestrial	Manaybhanjang, Tonglu, Meghma (Border area of Neapl and India)	2200- 3400	Jul.- Aug.
180	<i>Herminium lanceum</i> (Thunberg ex Sw.) Vuijk [Rajendra <i>et al.</i> 0597]	Terrestrial	Dello Hill, Forest areas in Algarah - Kalimpong; Dilaram - Kurseong	1100- 4200	Jul.- Oct.
181	<i>Herminium mackinnonii</i> Duthie [Rajendra <i>et al.</i> 0124]	Terrestrial	Dello Hill - Kalimpong, Manaybhanjang - Darjeeling	1100- 1600	Jul.- Aug.
182	<i>Herminium macrophyllum</i> (D. Don) Dandy [Rajendra <i>et al.</i> 1667]	Terrestrial	Kalpokhari, Bikhaybhanjang, Sandakphu (Border area of Nepal and India)	2750- 4000	Jun.- Aug.
183	<i>Herminium quinquelobum</i> King & Pantling [Rajendra <i>et al.</i> 1382]	Terrestrial	Manaybhanjang, Tonglu forest (Border area of Neapl and India)	1800- 2600	Jul.- Aug.

184	<i>Herpysma longicaulis</i> Lindl. [Rajendra <i>et al.</i> 0985]	Semi Saprophytic	Forest areas in Charkhol near Kaffer - Kalimpong	1000-2200	Oct.-Feb.
185	<i>Ione bicolor</i> (Lindl.) Lindl. [Rajendra <i>et al.</i> 0131]	Epiphytic	Rimbik - Darjeeling; Lava, Algarah - Kalimpong	1500-2000	Oct.-Dec.
186	<i>Ione cirrhata</i> Lindl. [Rajendra <i>et al.</i> 0738]	Epiphytic	Damsang Gari, Algarah - Kalimpong	1600-1900	Oct.-Nov.
187	<i>Liparis bootanensis</i> Griff. [Rajendra <i>et al.</i> 1337]	Epiphytic	Todey, Lava - Kalimpong; Rimbik - Darjeeling	1300-2300	Jun.-Aug.
188	<i>Liparis cathcartii</i> Hook. f. [Rajendra <i>et al.</i> 0313]	Terrestrial	Forest areas of Neora Valley - Kalimpong	2000-2700	Apr.-Jul.
189	<i>Liparis cespitosa</i> (Lamarck) Lindl. [Rajendra <i>et al.</i> 0538]	Epiphytic	Lava, Todey - Kalimpong; Rimbik - Darjeeling	1800-2200	Jun.-Sep.
190	<i>Liparis cordifolia</i> Hook. f. [Rajendra <i>et al.</i> 1515]	Terrestrial	Forest areas in Takdah - Darjeeling	550-2200	Oct.-Nov.
191	<i>Liparis deflexa</i> Hook. f. [Rajendra <i>et al.</i> 1649]	Terrestrial	Forest areas in Algarah, Lava - Kalimpong	600-1500	Jul.-Aug.
192	<i>Liparis dongchenii</i> S.Z. Lucksom [Rajendra <i>et al.</i> 0593]	Terrestrial	Forest areas in Kumsi, Panbu - Kalimpong	600-1000	Jun.-Sep.
193	<i>Liparis duthiei</i> Hook. f. [Rajendra <i>et al.</i> 1321]	Epiphytic	Rambi, Relli River side - Kalimpong	400-1500	Jun.-Aug.
194	<i>Liparis gamblei</i> Hook. f. [Rajendra <i>et al.</i> 1259]	Terrestrial	Kumsi forest - Kalimpong	1600-2400	Jun.-Jul.
195	<i>Liparis nervosa</i> var. <i>nervosa</i> (Thunberg) Lindl. [Rajendra <i>et al.</i> 1116]	Terrestrial	Dello Hill, Algarah, Lava - Kalimpong; Takdah - Darjeeling	900-2300	Apr.-Jul.
196	<i>Liparis odorata</i> (Willdenow) Lindl. [Rajendra <i>et al.</i> 0587]	Terrestrial	Dello Hill, Kaffer - Kalimpong	800-1900	Jul.-Sep.
197	<i>Liparis plantaginea</i> Lindl. [Rajendra <i>et al.</i> 0665]	Terrestrial	Forest areas in Lava, Neora Valley, Todey - Kalimpong; Takdah - Darjeeling	1800-2400	Jul.-Sep.
198	<i>Liparis platyrachis</i> Hook. f. [Rajendra <i>et al.</i> 1705]	Epiphytic	Todey, Algarah forest - Kalimpong	1000-1300	Oct.-Nov.
199	<i>Liparis resupinata</i> Ridley [Rajendra <i>et al.</i> 0737]	Epiphytic	Lava forest, Algarah, Todey forest - Kalimpong	1600-2100	Oct.-Feb.
200	<i>Liparis resupinata</i> Ridley var. <i>ridleyi</i> King & Pantling [Rajendra <i>et al.</i> 0737]	Epiphytic	Lava forest, Algarah, Todey forest - Kalimpong	1600-2100	Oct.-Feb.
201	<i>Liparis somai</i> Hayata [Rajendra <i>et al.</i> 0969]	Epiphytic	Samalbong, Sangsay Bhalukhop - Kalimpong	800-1800	Aug.-Oct.
202	<i>Liparis viridiflora</i> (Bl.) Lindl. [Rajendra <i>et al.</i> 0944]	Epiphytic	Todey, Neora Valley - Kalimpong; Rammam forest - Darjeeling	1300-2100	Sep.-Dec.
203	<i>Lusia brachystachys</i> (Lindl.) Bl. [Rajendra <i>et al.</i> 1131]	Epiphytic	Mungpoo, Mamring Busty - Kurseong	1000-2000	Apr.-May
204	<i>Lusia filiformis</i> Hook. f. [Rajendra <i>et al.</i> 0369]	Epiphytic	Relli - Kalimpong; Kalijhora forest - Kurseong	300-1100	Apr.-Jun.
205	<i>Lusia trichorrhiza</i> (Hook.) Bl. [Rajendra <i>et al.</i> 0791]	Epiphytic	Kumsi, Samalbong, Nimbong - Kalimpong; Mungpoo	800-1300	Mar.-May
206	<i>Lusia zeylanica</i> Lindl. [Rajendra <i>et al.</i> 0398]	Epiphytic	Kalijhora, Tindharey - Kurseong; Kumsi - Kalimpong	300-800	Feb.-May
207	<i>Malaxis acuminata</i> D. Don [Rajendra <i>et al.</i> 0564]	Terrestrial	Dello Hill, forest areas in Lava - Kalimpong; Takdah, Lopchu - Darjeeling	800-2100	Jan.-Aug.

208	<i>Malaxis khasiana</i> (Hook. f.) Kuntze [Rajendra <i>et al.</i> 1663]	Terrestrial	Lava, Neora Valley - Kalimpong	1000-3000	Jun.-Jul.
209	<i>Malaxis muscifera</i> (Lindl.) Kuntze [Rajendra <i>et al.</i> 0633]	Terrestrial	Forest areas in Gairebas (Border area of Nepal and India); Birch Hill - Darjeeling; Rachel - Kalimpong	2000-2900	Jul.-Sep.
210	<i>Malaxis ophrydis</i> (Konig) Ormerod [Rajendra <i>et al.</i> 0525]	Terrestrial	Pudung, Dello hill, Forest areas of Kumsi - Kalimpong	800-1600	May-Jul.
211	<i>Malaxis purpurea</i> (Lindl.) Kuntze [Rajendra <i>et al.</i> 1678]	Terrestrial	Forest areas in Kumsi, Relli-Pala - Kalimpong	700-850	Jul.-Aug.
212	<i>Mastigion appendiculatum</i> (Rolfe) Garay, Hamer & Siegreist [Rajendra <i>et al.</i> 1508]	Epiphytic	Forest areas in Najok - Kalimpong; Latpanjar - Kurseong	700-1200	Oct.-Dec.
213	<i>Micropera obtusa</i> (Lindl.) T. Tang & F.T. Wang [Rajendra <i>et al.</i> 0675]	Epiphytic	Kalijhora - Kurseong; Sevoke - Siliguri; Relli-Pala - Kalimpong	200-800	Jul.-Sep.
214	<i>Mischobulbum megalanthum</i> T. Tang & F.T. Wang [Rajendra <i>et al.</i> 1076]	Terrestrial	Forest areas in Kalijhora	250-700	Mar.-Apr.
215	<i>Monomeria barbata</i> Lindl. [Rajendra <i>et al.</i> 1031]	Epiphytic	Lava forest, Neora Valley - Kalimpong	900-2500	Nov.-Feb.
216	<i>Nephelaphyllum cordifolium</i> Lindl. [Rajendra <i>et al.</i> 1221]	Terrestrial	Forest areas in Damsang Gari - Kalimpong	800-1600	Jun.-Aug.
217	<i>Nephelaphyllum pulchrum</i> Bl. var. <i>sikkimensis</i> Hook. f. [Rajendra <i>et al.</i> 1246]	Terrestrial	Relli River sides - Kalimpong	450-1400	Jun.-Jul.
218	<i>Nervilia aragona</i> Gaudichaud [Rajendra <i>et al.</i> 1568]	Terrestrial	Forest areas in Latpanjar - Kurseong; Kumsi - Kalimpong	400-1000	Apr.-May
219	<i>Nervilia gammieana</i> (Hook. f.) Schltr. [Rajendra <i>et al.</i> 0834]	Terrestrial	Kumsi forest - Kalimpong	800-1300	Apr.-Jun.
220	<i>Nervilia plicata</i> (Andrews) Schltr. [Rajendra <i>et al.</i> 1598]	Terrestrial	Forest areas in Kalijhora - Kurseong; Nimbong - Kalimpong	300-850	May-Jun.
221	<i>Oberonia acaulis</i> Griff. [Rajendra <i>et al.</i> 1489]	Epiphytic	Tangta, Godok-Todey - Kalimpong	900-1900	Sep.-Nov.
222	<i>Oberonia angustifolia</i> Lindl. [Rajendra <i>et al.</i> 0531]	Epiphytic	Lungshel-Suntalay, Dello Hill - Kalimpong	800-1800	Jun.-Jul.
223	<i>Oberonia caulescens</i> Lindl. [Rajendra <i>et al.</i> 1583]	Epiphytic	Damsang Gari, Lava forest - Kalimpong	1500-2700	Jun.-Aug.
224	<i>Oberonia emarginata</i> King & Pantling [Rajendra <i>et al.</i> 0921]	Epiphytic	Dello Hill, Todey forest - Kalimpong	1100-2000	Jun.-Sep.
225	<i>Oberonia ensiformis</i> (J.E. Smith) Lindl. [Rajendra <i>et al.</i> 1699]	Epiphytic	NHPC Project side, Najok forest - Kalimpong	450-700	Oct.-Nov.
226	<i>Oberonia falcata</i> King & Pantling [Rajendra <i>et al.</i> 1693]	Epiphytic	Forest areas of Kaffer, Lava - Kalimpong	1300-1800	Jul.-Oct.
227	<i>Oberobia mucronata</i> (D. Don) Ormerod & Seidenfaden [Rajendra <i>et al.</i> 0162]	Epiphytic	Charkhol, Relli - Kurseong; Kalijhora - Kurseong	300-900	Oct.-Nov.
228	<i>Oberonia recurva</i> Lindl. [Rajendra <i>et al.</i> 0221]	Epiphytic	Kalijhora, Relli, Gorubathan - Kalimpong; Sevoke - Siliguri	200-900	Oct.-Mar.
229	<i>Oberonia pachyrachis</i> Rchb. f. ex Hook. f. [Rajendra <i>et al.</i> 0733]	Epiphytic	Kalijhora, Rambli, Relli, Ratay-Makum forest - Kalimpong	300-800	Oct.-Dec.
230	<i>Odontochilus crispus</i> (Lindl.) Hook. f. [Rajendra <i>et al.</i> 1466]	Semi Saprophytic	Forest areas in Latpanjar, Baggonra - Kurseong	300-2800	Aug.-Oct.
231	<i>Odontochilus elwesii</i> C.B. Clarke ex Hook. f. [Rajendra <i>et al.</i> 0695]	Semi Saprophytic	Forest areas in Lava - Kalimpong; Samanden -	1900-2600	Aug.-Sep.

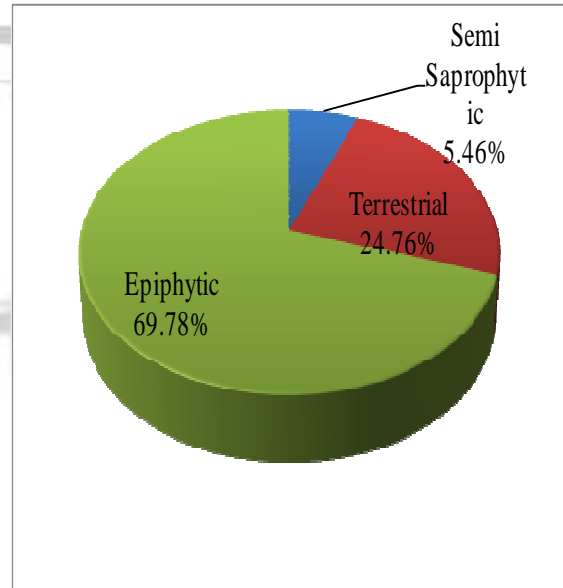
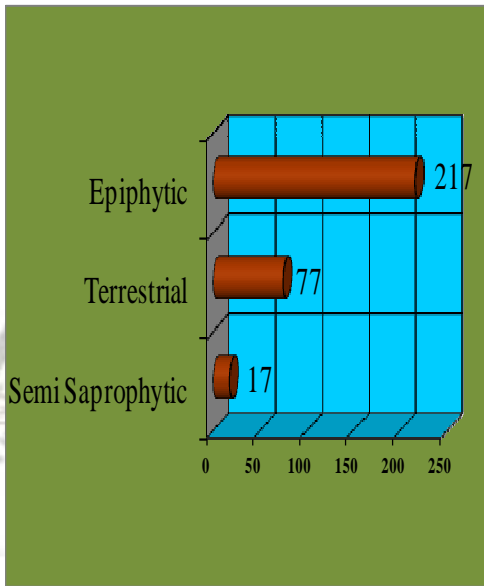
			Darjeeling		
232	<i>Odontochilus grandiflorus</i> (Lindl.) Bentham & Hook. f. [Rajendra <i>et al.</i> 1266]	Semi Saprophytic	Forest areas in Damsang Gari - Kalimpong	900-1700	Jun.-Jul.
233	<i>Odontochilus lanceolatus</i> (Lindl.) Bl. [Rajendra <i>et al.</i> 0692]	Semi Saprophytic	Forest areas in Lava - Kalimpong; Rammam - Darjeeling	1800-2500	Sep.-Oct.
234	<i>Ornithochilus difformis</i> (Wall. ex Lindl.) Schltr. [Rajendra <i>et al.</i> 0557]	Epiphytic	Nokhdara, Lava, Kumsi - Kalimpong; Lopchu forest - Darjeeling	900-2300	Jun.-Sep.
235	<i>Otochilus albus</i> Lindl. [Rajendra <i>et al.</i> 0261]	Epiphytic	Lava, Algarah, Pedung - Kalimpong	900-2100	Mar.-Jun.
236	<i>Otochilus fuscus</i> Lindl. [Rajendra <i>et al.</i> 0692]	Epiphytic	Dello Hill, Suruk-Samthar - Kalimpong	700-2200	Dec.-Mar.
237	<i>Otochilus lancilabius</i> Seidenfaden [Rajendra <i>et al.</i> 0748]	Epiphytic	Algarah, Nokdara, Tangta forest - Kalimpong	900-2600	Nov.-Jan.
238	<i>Panisea demissa</i> (D. Don) Pfitzer. [Rajendra <i>et al.</i> 0730]	Epiphytic	Lopchu - Darjeeling; Lava, Rachela forest - Kalimpong	1900-3200	Oct.-Dec.
239	<i>Panisea uniflora</i> (Lindl.) Lindl. [Rajendra <i>et al.</i> 0718]	Epiphytic	Khalijhora, Pankhabari - Kurseong	300-1000	Mar.-Jun.
240	<i>Paphiopedilum fairrieanum</i> (Lindl.) Stein. [Rajendra <i>et al.</i> 1739]	Terrestrial	Pine View and Holumba Nursery - Kalimpong	1000-2300	Oct.-Dec.
241	<i>Paphiopedilum insigne</i> (Wall. ex Lindl.) Pfitzer [Rajendra <i>et al.</i> 1529]	Terrestrial	Pine View and Holumba Nursery - Kalimpong	1000-1700	Nov.-Jan.
242	<i>Paphiopedilum hirsutissimum</i> (Lindl. ex Hook.) Stein [Rajendra <i>et al.</i> 1109]	Terrestrial	Pine View and Holumba Nursery - Kalimpong	100-1900	Feb.-Apr.
243	<i>Paphiopedilum venustum</i> (Wall.) Pfitzer [Rajendra <i>et al.</i> 1539]	Terrestrial	Holumba Floral Nursery - Kalimpong	1000-2100	Jan.-Mar.
244	<i>Paphiopedilum villosum</i> (Lindl.) Pfitzer [Rajendra <i>et al.</i> 1546]	Terrestrial	Pine View Floral Nursery - Kalimpong	790-1200	Feb.-Mar.
245	<i>Pelatantheria insectifer</i> (Rchb. f.) Rolfe [Rajendra <i>et al.</i> 1484]	Epiphytic	Sevoke forest - Siliguri	150-900	Oct.-Nov.
246	<i>Papilionanthe teres</i> (Roxb.) Schltr. [Rajendra <i>et al.</i> 0491]	Epiphytic	Sevoke, NBU Campus - Siliguri; Sukuna - Kurseong	150-700	May-Jul.
247	<i>Peristylus affinis</i> (D. Don) Seidenfaden [Rajendra <i>et al.</i> 0630]	Terrestrial	Panbu, Algarah forest - Kalimpong	600-1900	Jun.-Aug.
248	<i>Peristylus constrictus</i> (Lindl.) Lindl. [Rajendra <i>et al.</i> 1251]	Terrestrial	Relli River side, Kumsi forest - Kalimpong	300-1700	Jun.-Aug.
249	<i>Peristylus fallax</i> Lindl. [Rajendra <i>et al.</i> 1401]	Terrestrial	Kalpokhari, Sandakphu forest (Border area of Nepal and India)	2500-3800	Jul.-Sep.
250	<i>Peristylus goodyeroides</i> (D. Don) Lindl. [Rajendra <i>et al.</i> 0496]	Terrestrial	Forest areas in Kumsi, Suruk - Kalimpong	400-1500	Jun.-Jul.
251	<i>Peristylus superanthus</i> J.J. Wood [Rajendra <i>et al.</i> 1372]	Terrestrial	Megma, Tonglu forest (Border area of Nepal and India)	2500-3200	Jul.-Aug.
252	<i>Peristylus nematocaulon</i> (Hook. f.) M.L. Banerji & P. Pradhan [Rajendra <i>et al.</i> 0626]	Terrestrial	Lamaydhura, Tonglu forest- (Border area of Nepal and India)	2400-3600	Jul.-Oct.
253	<i>Peristylus parishii</i> Rchb. f. [Rajendra <i>et al.</i> 1231]	Terrestrial	Samalbong, Ratay Makum - Kalimpong	500-800	Jun.-Jul.
254	<i>Peristylus tipuliferus</i> (Parish & Rchb. f.) Mukherjee [Rajendra <i>et al.</i> 0582]	Terrestrial	Dello Hill, Neora Valley - Kalimpong; Tonglu - Darjeeling	1200-2800	Jul.-Sep.
255	<i>Phaius flavus</i> (Bl.) Lindl.	Terrestrial	8 th mile Kalimpong, Kumsi	550-	Mar.-

	[Rajendra <i>et al.</i> 1036]		forest	1600	Apr.
256	<i>Phaius mishmensis</i> (Lindl. & Paxton) Rchb. f. [Rajendra <i>et al.</i> 1462]	Terrestrial	Forest areas of Takdah, Manaybhanjang - Darjeeling	1100- 2700	Sep.- Oct.
257	<i>Phaius tankervilleae</i> (Banks ex I' Heritier) Bl. [Rajendra <i>et al.</i> 0811]	Terrestrial	Samalbong, Pudung - Kalimpong; Kurseong, Mirik	600- 1800	Apr.- May
258	<i>Phalaenopsis deliciosa</i> Rchb. f. subsp. <i>hookeriana</i> (Gruss & Rrollke) E.A. Christenson [Rajendra <i>et al.</i> 1237]	Epiphytic	Guling, Jaldhaka, Lesh khola - Kalimpong	300-800	May- Sep.
259	<i>Phalaenopsis lobbii</i> (Rchb. f.) H.R. Sweet [Rajendra <i>et al.</i> 1088]	Epiphytic	Tarkhola - Kalimpong; Sukuna - Kurseong	250-700	Mar.- May
260	<i>Phalaenopsis mannii</i> Rchb. f. [Rajendra <i>et al.</i> 0806]	Epiphytic	Sukuna forest - Kurseong	150-900	Apr.- Jun.
261	<i>Phalaenopsis taenialis</i> (Lindl.) E.A. Christenson & Pradhan [Rajendra <i>et al.</i> 0446]	Epiphytic	Kumsi - Kalimpong; Rammam forest -Darjeeling	1000- 2800	Apr.- May
262	<i>Pholidota articulata</i> Lindl. [Rajendra <i>et al.</i> 0393]	Epiphytic	Samalbong - Kalimpong; Kalijhora - Kurseong	300- 1600	Apr.- Jul.
263	<i>Pholidota articulata</i> var. <i>griffithii</i> (Hook. f.) King and Pantling [Rajendra <i>et al.</i> 0887]	Epiphytic	Samalbong, Yangmakum - Kalimpong	400- 1200	Apr.- Aug.
264	<i>Pholidota imbricata</i> Hook. [Rajendra <i>et al.</i> 0487]	Epiphytic	Samalbong-Relli - Kalimpong; Kalijhora - Kurseong	300- 1200	Apr.- Aug.
265	<i>Pholidota pallida</i> Lindl. [Rajendra <i>et al.</i> 1301]	Epiphytic	Samalbong, Relli - Kalimpong; Kalijhora, Lathpanjar - Kurseong	800- 1100	Jun.- Oct.
266	<i>Pholidota recurva</i> Lindl. [Rajendra <i>et al.</i> 1453]	Epiphytic	Todey forest - Kalimpong	600- 2000	Aug.- Sep.
267	<i>Pholidota rubra</i> Lindl. [Rajendra <i>et al.</i> 1731]	Epiphytic	Forest areas in Algarah, Lava - Kalimpong	900- 2200	Oct.- Dec.
268	<i>Platanthera bakeriana</i> (King & Pantling) Kranzlin [Rajendra <i>et al.</i> 1367]	Terrestrial	Megma, Tumbling, Phalut forest (Border area of Nepal and India)	2200- 3400	Jul.- Aug.
269	<i>Platanthera biermanniana</i> (King & Pantling) Kranzlin [Rajendra <i>et al.</i> 1369]	Terrestrial	Chetrey, Tonglu, Kalpokhari (Border area of Nepal and India); Neora Valley - Kalimpong	2500- 3200	Jul.- Aug.
270	<i>Platanthera clavigera</i> Lindl. [Rajendra <i>et al.</i> 0660]	Terrestrial	Manaybhanjang, Rimbik - Darjeeling; Neora Valley - Kalimpong	1900- 2800	Jul.- Sep.
271	<i>Platanthera cumminsiana</i> (King & Pantling) Renz. [Rajendra <i>et al.</i> 1375]	Terrestrial	Megma, Sandakphu, Kalpokhari forest (Border area of Nepal and India)	2800- 3500	Jul.- Aug.
272	<i>Platanthera edgeworthii</i> (Hook. f. ex Collett) R.K. Gupta [Rajendra <i>et al.</i> 0628]	Terrestrial	Megma (Border area in Nepal and India) Samanden forest - Darjeeling	2400- 2900	Jul.- Aug.
273	<i>Platanthera exelliana</i> Soo [Rajendra <i>et al.</i> 1681]	Terrestrial	Sandakphu, Phalut (Border area of Nepal and India)	3000- 4200	Jun.- Aug.
274	<i>Platanthera leptocaulon</i> (Hook. f.) Soo [Rajendra <i>et al.</i> 0613]	Terrestrial	Dello Hill - Kalimpong; Manaybhanjang, Kalpokhari forest (Border area of Nepal and India)	1800- 3600	Jul.- Aug.
275	<i>Platanthera stenantha</i> (Hook. f.) Soo [Rajendra <i>et al.</i> 1394]	Terrestrial	Forest areas of Kaiyakatay (Border area of Nepal and India)	1900- 3300	Jul.- Sep.

276	<i>Pleione hookeriana</i> (Lindl.) B.S. Williams [Rajendra <i>et al.</i> 0469]	Epiphytic	Ghorkhey, Sandakphu, Kalpokhari (Border area of Nepal and India)	2100-3600	May-Jul.
277	<i>Pleione humilis</i> (J.E. Smith) D. Don [Rajendra <i>et al.</i> 0296]	Epiphytic	Chetray, Kalpokhari forest (Border area of Nepal and India); Neora Valley - Kalimpong	1800-3300	Feb.-Apr.
278	<i>Pleione maculata</i> (Lindl.) Lindl. [Rajendra <i>et al.</i> 1504]	Epiphytic	Pankhabari forest - Kurseong	500-1800	Oct.-Nov.
279	<i>Pleione praecox</i> (J.E. Smith) D. Don [Rajendra <i>et al.</i> 0181]	Epiphytic	Lava, Todey - Kalimpong; Sukiapokhari - Darjeeling	1800-2400	Sep.-Dec.
280	<i>Podochilus cultratus</i> Lindl. [Rajendra <i>et al.</i> 1442]	Epiphytic	Dudhay - Kurseong; Panbu - Kalimpong	300-1700	Aug.-Sep.
281	<i>Podochilus khasianus</i> Hook. f. [Rajendra <i>et al.</i> 1355]	Epiphytic	Kaffer, Godok-Todey - Kalimpong	1000-2000	Jul.-Sep.
282	<i>Pomatocalpa armigerum</i> (King & Pantling) T. Tang & F.T. Wang [Rajendra <i>et al.</i> 1402]	Epiphytic	Forest areas in Sukuna, Kalijhora - Kurseong	200-700	Aug.-Sep.
283	<i>Porpax elwesii</i> (Rchb. f.) Rolfe [Rajendra <i>et al.</i> 1519]	Epiphytic	Suruk Busty - Kalimpong; Latpanjar - Kurseong	500-1800	Oct.-Dec.
284	<i>Pteroceras teres</i> (Bl.) Holttum [Rajendra <i>et al.</i> 0915]	Epiphytic	Guling, Panbu forest - Kalimpong	300-1100	Jun.-Aug.
285	<i>Rhynchostylis retusa</i> (L.) Bl. [Rajendra <i>et al.</i> 0519]	Epiphytic	Samalpong, Bagrakote - Kalimpong; Sevoke - Siliguri	150-900	Jun.-Jul.
286	<i>Rhomboda lanceolata</i> (Lindl.) Ormerod [Rajendra <i>et al.</i> 1436]	Terrestrial	Forest areas of Damsang Gari - Kalimpong	1100-2100	Aug.-Sep.
287	<i>Saccolabiopsis pussila</i> (Lindl.) Seidenfaden & Garay [Rajendra <i>et al.</i> 1090]	Epiphytic	Sevoke - Siliguri; Gorubathan - Kalimpong	200-500	Feb.-Mar.
288	<i>Satyrium ciliatum</i> var. <i>ciliatum</i> (Lindl.) Hook. f. [Rajendra <i>et al.</i> 1411]	Terrestrial	Sandakphu, Kalpokhari, Tonglu, Megma (Border area of Nepal and India)	2300-4300	Aug.-Oct.
289	<i>Satyrium nepalense</i> var. <i>nepalense</i> D. Don [Rajendra <i>et al.</i> 0642]	Terrestrial	Maneybhanjang-Darjeeling; Lava, Algarah - Kalimpong	1700-3500	Aug.-Oct.
290	<i>Smitinandia micrantha</i> (Lindl.) Holttum [Rajendra <i>et al.</i> 0387]	Epiphytic	Sukuna, Panighatta - Kurseong; Sevoke - Siliguri	150-1100	Apr.-Jun.
291	<i>Spiranthes sinensis</i> (Persoon) Ames. [Rajendra <i>et al.</i> 0116]	Terrestrial	Forest areas in Tumbling (Border area of Nepal and India); Manaybhanjang, Dello Hill, Lava - Kalimpong	1100-2900	Jul.-Sep.
292	<i>Steriochilus hirtus</i> Lindl. [Rajendra <i>et al.</i> 0439]	Epiphytic	Serikhola, Dhotray - Darjeeling	1800-2500	May-Jun.
293	<i>Sunipia intermedia</i> (King & Pantling) P.F. Hunt [Rajendra <i>et al.</i> 0341]	Epiphytic	Lungshel - Kalimpong; Dow Hill - Kurseong	1300-2100	Apr.-Jun.
294	<i>Sunipia scariosa</i> Lindl. [Rajendra <i>et al.</i> 0855]	Epiphytic	Lakpatar - Darjeeling; Todey - Kalimpong	1000-1900	May-Jun.
295	<i>Tainia minor</i> Hook. f. [Rajendra <i>et al.</i> 0851]	Semi Saprophytic	Forest areas in Mem Tea Estate, Sukiapokhari -Darjeeling; Algarah - Kalimpong	1700-2300	May-Jun.
296	<i>Thelasis pygmaea</i> (Griff.) Bl. [Rajendra <i>et al.</i> 0681]	Epiphytic	Forest areas in Neol, Kumsi, Yangmakum - Kalimpong	250-900	Aug.-Sep.
297	<i>Thunia alba</i> (Lindl.) Rchb. f. [Rajendra <i>et al.</i> 0074]	Epiphytic	Suruk, Pudung - Kalimpong	600-1800	Jun.-Aug.

298	<i>Thunia bracteata</i> (Roxb.) Schltr. [Rajendra <i>et al.</i> 0933]	Epiphytic	Hill Top, Dello Hill, Pudung, Kumsi - Kalimpong	900- 1400	Aug.- Sep.
299	<i>Tipularia josephi</i> Rchb. f. ex Lindl. [Rajendra <i>et al.</i> 0636]	Semi Saprophytic	Forest areas in Gairibas, Kalpokhari (Border area of Nepal and India)	1900- 3100	Jul.- Sep.
300	<i>Trichotosia dasyphylla</i> (Parish & Rchb. f.) Kranzlin [Rajendra <i>et al.</i> 0883]	Epiphytic	Samalbong, Nimbong - Kalimpong	800- 1200	Apr.- Jun.
301	<i>Trichotosia pulvinata</i> (Lindl.) Kranzlin [Rajendra <i>et al.</i> 1361]	Epiphytic	Chibo Busty, Majitar - Kalimpong,	400-800	Jul.- Sep.
302	<i>Uncifera obtusifolia</i> Lindl. [Rajendra <i>et al.</i> 0927]	Epiphytic	Sonadah - Kurseong; Lava - Kalimpong; Sukiapokhari - Darjeeling	1000- 2200	Aug.- Sep.
303	<i>Vanda alpina</i> Lindl. [Rajendra <i>et al.</i> 1211]	Epiphytic	Kumsi forest - Kalimpong	800- 1800	Jun.- Jul.
304	<i>Vanda cristata</i> Lindl. [Rajendra <i>et al.</i> 0434]	Epiphytic	Lungshel, Samalbong-Sinjee Busty - Kalimpong; Dow Hill - Kurseong	700- 1900	Apr.- Jun.
305	<i>Vanda cristata</i> var. <i>multiflora</i> Hort. [Rajendra <i>et al.</i> 0381]	Epiphytic	Samalbong, Samthar - Kalimpong; Teesta Valley	700- 1300	Apr.- Jun.
306	<i>Vanda pumila</i> Hook. f. [Rajendra <i>et al.</i> 1127]	Epiphytic	Kalijhora forest - Kurseong	360-750	Apr.- May
307	<i>Vandopsis undulata</i> (Lindl.) J.J. Smith [Rajendra <i>et al.</i> 0337]	Epiphytic	Nokdara, Lava -Kalimpong; Rimbik - Darjeeling	1800- 2400	Apr.- May
308	<i>Zeuxine affinis</i> (Lindl.) Bentham ex Hook. f. [Rajendra <i>et al.</i> 1777]	Semi Saprophytic	Forest areas in Kaffer, Lava - Kalimpong	1600- 2100	Oct.- Jan.
309	<i>Zeuxine flava</i> (Wall. ex Lindl.) Trimen [Rajendra <i>et al.</i> 1187]	Semi Saprophytic	Forest areas in Lava - Kalimpong	800- 2100	Mar.- May
310	<i>Zeuxine goodyeroides</i> Lindl. [Rajendra <i>et al.</i> 0690]	Semi Saprophytic	Forest areas of Neora Valley - Kalimpong; Takdah - Darjeeling	1400- 2300	Sep.- Oct.
311	<i>Zeuxine reflexa</i> King & Pantling [Rajendra <i>et al.</i> 1562]	Semi Saprophytic	Forest area in Algarah, Damsang Gari - Kalimpong	1000- 1400	Mar.- May





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Fig. 2 and 3. Availability of Orchid species in Darjeeling Himalaya