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Orchid species diversity of Darjeeling Himalaya of India**Rajendra Yonzone^{1*}, D. Lama¹, R. B. Bhujel² and Samuel Rai³**¹, Department of Botany, St. Joseph's College, Darjeeling, (W.B.) - India², Taxonomy and Ethnobiology Research Laboratory, Cluny Women's College, Darjeeling, (W.B.) - India³, Darjeeling Krishi Vigyan Kendra, Uttar Banga Krishi Viswavidyalaya, Darjeeling, (W.B.) - India**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 Dooars 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 (Luckson, 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 *Epigénium* 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. fairrieianum* 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*, *Epigénium 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 cathartii*, *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*, *Anoetochilus 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 et al. 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 et al. 0050]	Epiphytic	Rambi, Teesta River sides, Fyangtar, Tarkhola forest	160-1200	May- Jun.
3	<i>Acanthephippium striatum</i> Lindl. [Rajendra et al. 0920]	Terrestrial	Forest areas in Damsang Gari, Kumsi - Kalimpong	700-1800	May- Jul.
4	<i>Acrochaene punctata</i> Lindl. [Rajendra et al. 0726]	Epiphytic	Forest areas in Lava, Nokdara, Kaffer -Kalimpong	1200-2200	Oct.- Nov.
5	<i>Aerides multiflorum</i> Roxb. [Rajendra et al. 0318]	Epiphytic	Samalbong, Suruk, Samthar Busty - Kalimpong; Siliguri	150-1200	Mar.- Jun.
6	<i>Aerides odoratum</i> Loureiro [Rajendra et al. 0844]	Epiphytic	Bagrakot - Kalimpong; Sukuna forest - Kurseong	150-700	May- Jul.
7	<i>Agrostophyllum brevipes</i> King & Pantling [Rajendra et al. 1181]	Epiphytic	27 th mile NHPC Project side, Algarah, Panbu - Kalimpong	400-1600	May- Jun.
8	<i>Agrostophyllum callosum</i> Rchb. f. [Rajendra et al. 0345]	Epiphytic	Forest areas in Lungshel, Lava, Nokdara, Algarah, Kaffer - Kalimpong	600-2200	Mar.- May
9	<i>Agrostophyllum myrianthum</i> King & Pantling [Rajendra et al. 1429]	Epiphytic	Kumsi, Teesta River sides - Kalimpong; Rambi - Kurseong	200-1600	Jul.- Aug.
10	<i>Agrostophyllum planicaule</i> (Wall. ex Lindl.) Rchb. f. [Rajendra et al. 0652]	Epiphytic	Kalijhora forest - Kurseong; Soureni - Mirik	500-2100	Jul.- Aug.
11	<i>Ania penangiana</i> (Hook. f.) Summerhayes [Rajendra et al. 0772]	Terrestrial	Forest areas in Algarah - Kalimpong; Lopchu - Darjeeling	700-1700	Feb.- Mar.
12	<i>Anoetochilus brevilabris</i> Lindl. [Rajendra et al. 1275]	Terrestrial	Forest areas in Lava - Kalimpong; Takdah - Darjeeling	1000-1900	Jun.- Sep.
13	<i>Anthogonium gracile</i> Lindl. [Rajendra et al. 0578]	Terrestrial	Dello Hill, forest areas in Lava, Samalbong - Kalimpong; Rimbik - Darjeeling	1200-2800	Aug.- Oct.
14	<i>Appendicula cornuta</i> Bl. [Rajendra et al. 1448]	Epiphytic	Birik forest - Kurseong; Kambal - Kalimpong	300-800	Aug.- Sep.
15	<i>Arundina graminifolia</i> (D. Don) Hochreutiner [Rajendra et al. 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 et al. 0248]	Epiphytic	Rambi, Kalijhora – Kurseong; Kumsi -Kalimpong; Sevoke - Siliguri	200-800	Mar.- May
17	<i>Biermannia bimaculata</i> (King & Pantling) King & Pantling [Rajendra et al. 1136]	Epiphytic	Bagrakote - Kalimpong; Teesta Bridge sides	300-700	Apr.- Jul.
18	<i>Bulbophyllum affine</i> Lindl. [Rajendra et al. 0066]	Epiphytic	Samalbong, Samthar - Kalimpong; Mungpoo	700-1900	May- Jun.

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

42	<i>Bulbophyllum scabratum</i> Rehb. f. [Rajendra et al. 0324]	Epiphytic	Lower Lungshel, Rachela forest - Kalimpong	1200- 1800	Apr.- May
43	<i>Bulbophyllum secundum</i> Hook. f. [Rajendra et al. 1621]	Epiphytic	Lopchu forest, Damsang Gari - Kalimpong	1500- 2100	Jun.- Jul.
44	<i>Bulbophyllum stenobulbon</i> Paris & Rehb. f. [Rajendra et al. 0870]	Epiphytic	Kalijhora - Kurseong; Guling forest	250-700	May- Jun.
45	<i>Bulbophyllum striatum</i> Griff.) Rehb. f [Rajendra et al. 1726]	Epiphytic	Today-Tangta forest -Kalimpong	1800- 2750	Oct.- Nov.
46	<i>Bulbophyllum triste</i> Rehb. f. [Rajendra et al. 0770]	Epiphytic	Samalbong-Sinjee, Godok forest - Kalimpong	1000- 1700	Feb.- Mar.
47	<i>Bulbophyllum thomsonii</i> Hook. f. [Rajendra et al. 1023]	Epiphytic	Neora Valley - Kalimpong Sukiapokhari - Darjeeling	800- 2100	Oct.- Dec.
48	<i>Bulbophyllum tortuosum</i> (Bl.) Lindl. [Rajendra et al. 1553]	Epiphytic	Bagrakote, Kalijhora - Kurseong	200-350	Mar.- Apr.
49	<i>Bulbophyllum umbellatum</i> Lindl. [Rajendra et al. 1086]	Epiphytic	Kurseong, Maneybhanjang - Darjeeling	1300- 2200	Mar.- May
50	<i>Bulbophyllum wallichii</i> (Lindl.) Rehb. f. [Rajendra et al. 1760]	Epiphytic	Takdah - Darjeeling; Neora Valley - Kalimpong	1500- 2900	Nov.- Dec.
51	<i>Bulbophyllum yoksumense</i> J.J. Smith [Rajendra et al. 1477]	Epiphytic	Tangta, Rachela forest - Kalimpong	1800- 2800	Sep.- Oct.
52	<i>Calanthe brevicornu</i> Lindl. [Rajendra et al. 0427]	Terrestrial	Forest areas in Rammam, Gorkhey, Lopchu - Darjeeling; Lava - Kalimpong	1400- 2700	May- Jul.
53	<i>Calanthe biloba</i> Lindl. [Rajendra et al. 0728]	Terrestrial	Forest areas in Charkhol, Kaffer - Kalimpong; Lopchu - Darjeeling	1200- 2900	Sep.- Dec.
54	<i>Calanthe puberula</i> Lindl. [Rajendra et al. 0816]	Terrestrial	Forest areas in Mim Tea Estate, Rammam - Darjeeling; Baggonra - Kurseong	1550- 3200	May- Aug.
55	<i>Calanthe sylvatica</i> (Thouars) Lindl. [Rajendra et al. 1415]	Terrestrial	Forest areas in Kaffer, Algarah - Kalimpong	300- 2400	Jul.- Oct.
56	<i>Calanthe yuksomnensis</i> S.Z. Lucksom [Rajendra et al. 0853]	Terrestrial	Forest areas of Mem Tea Estate, Sukiapokhari, Takdah - Darjeeling	1700- 2900	Apr.- Jun.
57	<i>Ceratostylis himalaica</i> Hook. f. [Rajendra et al. 1164]	Epiphytic	Mirik, Todey forest -Kalimpong	1200- 2100	Apr.- Jun.
58	<i>Ceratostylis subulata</i> Bl. [Rajendra et al. 1328]	Epiphytic	Panbu forest, Majitar - Kalimpong	400-800	May- Jul.
59	<i>Cheirostylis pabongensis</i> S.Z. Lucksom [Rajendra et al. 0211]	Terrestrial	Mangaldara, Kalimpong 8 th Mile	600- 1000	Feb.- Apr.
60	<i>Chiloschista parishii</i> Seidenfaden [Rajendra et al. 0203]	Epiphytic	Forest areas in Sukuna - Kurseong; Sepkhola, Najok - Kalimpong	800- 1900	Mar.- Apr.
61	<i>Chrysoglossum ornatum</i> Bl. [Rajendra et al. 0877]	Terrestrial	Forest areas in Charkhol - Kalimpong; Manaybhanjang - Darjeeling	1600- 2200	May- Jul.
62	<i>Cirrhopetalum sikkimense</i> King & Pantling [Rajendra et al. 1193]	Epiphytic	Pareng, Makum -Kalimpong	400-700	Apr.- Jun.
63	<i>Cleisostoma filiforme</i> (Lindl.) Garay [Rajendra et al. 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 et al. 0676]				
65	<i>Cleisostoma aspersum</i> (Rchb. f.) Garay [Rajendra et al. 1329]	Epiphytic	Panighatta - Kurseong; Samsing, Suruk-Yangmakum - Kalimpong	300-1600	Jun.-Aug.
66	<i>Cleisostoma racemiferum</i> (Lindl.) Garay [Rajendra et al. 0671]	Epiphytic	Nock Dara, Lungsel - Kalimpong	800-2100	Jul.-Sep.
67	<i>Cleisostoma subulatum</i> Bl. [Rajendra et al. 0658]	Epiphytic	Kalijhora - Kurseong; Najok forest - Kalimpong	250-900	Jul.-Aug.
68	<i>Coelogyne barbata</i> Lindl. ex Griff. [Rajendra et al. 0715]	Epiphytic	Rachela, Todey forest - Kalimpong	1600-2400	Sep.-Dec.
69	<i>Coelogyne corymbosa</i> Lindl. [Rajendra et al. 0308]	Epiphytic	Rimbik, Tiger Hill, Samanden forest - Darjeeling	1400-3300	Apr.-May
70	<i>Coelogyne cristata</i> Lindl. [Rajendra et al. 0217]	Epiphytic	Lava forest, Todey-Tangta - Kalimpong; Kurseong	1200-2700	Feb.-Apr.
71	<i>Coelogyne fimbriata</i> Lindl. [Rajendra et al. 1501]	Epiphytic	Relli-Pala, Kumsi forest - Kalimpong	800-2300	Sep.-Nov.
72	<i>Coelogyne flaccida</i> Lindl. [Rajendra et al. 0253]	Epiphytic	Relli, Neol forest - Kalimpong	300-1900	Mar.-Apr.
73	<i>Coelogyne fuscescens</i> Lindl. [Rajendra et al. 0186]	Epiphytic	Sangsay Bhalukhop, Samalbong-Sinjee - Kalimpong	700-2000	Oct.-Dec.
74	<i>Coelogyne raizadae</i> S.K. Jain & S. Das [Rajendra et al. 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 et al. 0195]	Epiphytic	Nock Dara, Todey-Tangta - Kalimpong; Lopchu forest - Darjeeling	1400-2800	Feb.-May.
76	<i>Coelogyne occultata</i> Hook. f. [Rajendra et al. 1201]	Epiphytic	Baggonra- Kurseong; Rachela forest - Kalimpong	1800-2900	Apr.-Jun.
77	<i>Coelogyne ovalis</i> Lindl. [Rajendra et al. 0145]	Epiphytic	Suruk, Samalbong Busty - Kalimpong; Lopchu forest - Darjeeling	800-1900	Oct.-Nov.
78	<i>Coelogyne pantlingii</i> S.Z. Lucksom [Rajendra et al. 0892]	Epiphytic	Sukiapokhari, Rammam - Darjeeling	2000-2600	Jun.-Jul.
79	<i>Coelogyne pempahesiana</i> H.J. Chowdhery [Rajendra et al. 1146]	Epiphytic	Todey-Tangta - Kalimpong, Holumba Nursery (endemic to Kalimpong)	1000-2900	Mar.-May
80	<i>Coelogyne prolifera</i> Lindl. [Rajendra et al. 0269]	Epiphytic	Nokdara, Todey, Kumsi forest	600-1900	Feb.-Apr.
81	<i>Coelogyne punctulata</i> Lindl. [Rajendra et al. 1496]	Epiphytic	Damsang Gari - Kalimpong; Rimbik - Darjeeling	1300-2200	Oct.-Dec.
82	<i>Coelogyne stricta</i> (D. Don) Schltr. [Rajendra et al. 1059]	Epiphytic	Sittong, Mungpoo - Kurseong; Nimbong - Kalimpong	600-1300	Feb.-Apr.
83	<i>Coelogyne viscosa</i> Reichb. f. [Rajendra et al. 0767]	Epiphytic	Godok-Todey forest - Kalimpong	500-1400	Feb.-Apr.
84	<i>Crepidium maximowiczianum</i> (King and Pantling) Szlach. [Rajendra et al. 0481]	Terrestrial	Forest areas of Kumsi, Ratay Makum - Kalimpong; Mungpoo	600-1100	Jun.-Aug.
85	<i>Cryptochilus lutea</i> Lindl. [Rajendra et al. 0411]	Epiphytic	Samalbong, Tangta, Rachela - Kalimpong; Megma - Darjeeling	1100-2900	Mar.-Jun
86	<i>Cryptochilus sanguinea</i> Wall. [Rajendra et al. 0872]	Epiphytic	Birch Hill - Darjeeling; Dhotray forest - Darjeeling	1600-2600	Jun.-Jul.
87	<i>Cymbidium aloifolium</i> (L.) Sw. [Rajendra et al. 0362]	Epiphytic	Relli, Suruk, Kalimpong 7 th Mile, Chitrey - Kalimpong	300-1600	Apr.-Jul.

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

	[Rajendra et al. 0861]		Kalimpong	2100	May
113	<i>Dendrobium eriiflorum</i> Griff. [Rajendra et al. 0718]	Epiphytic	Mangzing, Nimbong	800- 2000	Sep.- Nov.
114	<i>Dendrobium falconeri</i> Hook. [Rajendra et al. 1151]	Epiphytic	Holumba Floral Nursery - Kalimpong	1500- 2200	Apr.- Jun.
115	<i>Dendrobium farmeri</i> Paxton [Rajendra et al. 1140]	Epiphytic	Kalijhora forest - Kurseong	200- 1000	Mar.- May
116	<i>Dendrobium fimbriatum</i> Hook. [Rajendra et al. 1579]	Epiphytic	Kumsi forest, Algarah forest - Kalimpong	600- 1660	Apr.- may
117	<i>Dendrobium fimbriatum</i> var. <i>occulatum</i> Hook. [Rajendra et al. 0283]	Epiphytic	Suruk, Relli-Pala -Kalimpong	300- 1100	Mar.- May
118	<i>Dendrobium heterocarpum</i> Lindl. [Rajendra et al. 1081]	Epiphytic	Todey, Neora Valley-Kalimpong	1300- 2300	Feb.- Apr.
119	<i>Dendrobium jenkinsii</i> Wall. ex Lindl. [Rajendra et al. 1574]	Epiphytic	Holumba Floral Nursery - Kalimpong	1100- 1400	Apr.- May
120	<i>Dendrobium lindleyi</i> Steudel [Rajendra et al. 1120]	Epiphytic	Holumba Floral Nursery- Kalimpong	800- 1600	Feb.- Apr.
121	<i>Dendrobium longicornu</i> Lindl. [Rajendra et al. 0151]	Epiphytic	Lava, Lungshel, Gumbadara, Algarah - Kalimpong	1400- 3000	Aug.- Dec.
122	<i>Dendrobium moschatum</i> (Buchanan-Hamilton) Sw. [Rajendra et al. 0061]	Epiphytic	Relli-Pala, Samalbong forest - Kalimpong	500- 1300	May- Jul.
123	<i>Dendrobium nobile</i> Lindl. [Rajendra et al. 0421]	Epiphytic	8 th mile Kalimpong, Rimbik forest - Darjeeling	300- 2200	Apr.- Jun.
124	<i>Dendrobium nobile</i> Lindl. var. <i>virginialis</i> Hort. [Rajendra et al. 1585]	Epiphytic	Lava, Damsan Gari, Kaffer - Kalimpong; Takdah - Darjeeling	340- 1600	Apr.- Jun.
125	<i>Dendrobium ochreatum</i> Lindl. [Rajendra et al. 1571]	Epiphytic	Holumba Floral Nursery - Kalimpong	1000- 1100	Apr.- May
126	<i>Dendrobium pendulum</i> Roxb. [Rajendra et al. 1559]	Epiphytic	Holumba Floral Nursery - Kalimpong	1200- 1600	Mar.- Apr.
127	<i>Dendrobium porphyrochilum</i> Lindl. [Rajendra et al. 0475]	Epiphytic	Manaybhanjang, Rammam forest - Darjeeling	2000- 2700	May.- Jul.
128	<i>Dendrobium praecinctum</i> Rchb. f. [Rajendra et al. 1284]	Epiphytic	Todey-Tangta forest-Kalimpong	1100- 1900	Jun.- Jul.
129	<i>Dendrobium stuposum</i> Lindl. [Rajendra et al. 1314]	Epiphytic	Takdah - Darjeeling; Dabaipani	1400- 2300	May- Jul.
130	<i>Dendrobium sulcatum</i> Lindl. [Rajendra et al. 0998]	Epiphytic	Kumsi, Najok forest - Kalimpong	550- 1000	Apr.- May
131	<i>Dendrobium terminale</i> Parish & Rchb. f. [Rajendra et al. 1325]	Epiphytic	Lesh khola forest	300-800	Jun.- Sep.
132	<i>Dendrobium transparens</i> Wall. ex Lindl. [Rajendra et al. 0417]	Epiphytic	Kalijhora, Bagrakot, Mem Tea Estate - Darjeeling	200- 1700	May- Jun.
133	<i>Didymoplexis pallens</i> Griff. [Rajendra et al. 0866]	Terrestrial	Samalbong forest, Relli-Pala River sides - Kalimpong	900- 1600	May- Jun.
134	<i>Diplomeris hirsuta</i> (Lindl.) Lindl. [Rajendra et al. 1333]	Terrestrial	Kalijhora forest, Coronation Bridge sides	200-900	Jun.- Aug.
135	<i>Epigenium amplum</i> (Lindl.) Summerhayes [Rajendra et al. 0721]	Epiphytic	Nim, Lungshel, Algarah, Sukiapokhari	1400- 2200	Sep.- Nov.
136	<i>Epigenium rotundatum</i> (Lindl.) Summerhayes [Rajendra et al. 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 et al. 0608]		Nokdara - Kalimpong		Aug.
138	<i>Eria amica</i> Rchb. f. [Rajendra et al. 0786]	Epiphytic	Kumsi, Panbu, Algarah forest - Kalimpong	500- 1600	Mar.- Jun.
139	<i>Eria biflora</i> Griff. [Rajendra et al. 1517]	Epiphytic	Najok-Sepkhola - Kalimpong	400-900	Sep.- Oct.
140	<i>Eria bractescens</i> Lindl. [Rajendra et al. 0897]	Epiphytic	Algarah - Kalimpong; Tinchulay, Dow Hill - Kurseong	400- 1700	May.- Jul.
141	<i>Eria clausa</i> King & Pantling [Rajendra et al. 0779]	Epiphytic	Rammam - Darjeeling; Neora Valley - Kalimpong	1100- 2600	Feb- May
142	<i>Eria coronaria</i> (Lindl.) Reichb. f. [Rajendra et al. 0175]	Epiphytic	Nimbong, Lungsel, Nokdara - Kalimpong	1000- 2300	Oct.- Dec.
143	<i>Eria discolor</i> Lindl. [Rajendra et al. 0513]	Epiphytic	Relli - Kalimpong; Kalijhora - Kurseong; Sevok - Siliguri	500- 1300	Jan.- Jun.
144	<i>Eria excavata</i> Lindl. [Rajendra et al. 0233]	Epiphytic	Relli, Teesta River side - Kalimpong	1000- 2200	Mar.- Jun.
145	<i>Eria bambusifolia</i> Lindl. [Rajendra et al. 0405]	Epiphytic	Sukiapokhari - Darjeeling; Godok-Todey - Kalimpong	1900- 2800	Oct.- Dec.
146	<i>Eria graminifolia</i> Lindl. [Rajendra et al. 1206]	Epiphytic	Toroyok - Kalimpong; Serikhola -Darjeeling	1800- 3450	May- Aug.
147	<i>Eria lasiopetala</i> (Willdenow) Ormerod [Rajendra et al. 0227]	Epiphytic	Rambi, Relli - Kalimpong; Kalijhora - Kurseong; Sevok forest - Siliguri	200-700	Mar.- Jul.
148	<i>Eria paniculata</i> Lindl. [Rajendra et al. 0342]	Epiphytic	Lungshel, Algarah forest - Kalimpong	700- 1600	Feb.- May
149	<i>Eria pannea</i> Lindl. [Rajendra et al. 1592]	Epiphytic	Kumsi forest, Kamble - Kalimpong	600- 1000	May- Jul.
150	<i>Eria pumila</i> Lindl. [Rajendra et al. 1307]	Epiphytic	Kalijhora forest - Kurseong; Sevoke forest - Siliguri	200-600	May- Aug.
151	<i>Eria spicata</i> (D. Don) Handel-Mazzetti [Rajendra et al. 0601]	Epiphytic	Lungshel, Kumsi, Nokdara forest - Kalimpong	400- 2300	Feb.- Aug.
152	<i>Eria stricta</i> Lindl. [Rajendra et al. 0043]	Epiphytic	Suruk, Samalbong, Chuikhim - Kalimpong	400- 1400	Jan.- Apr.
153	<i>Eria vittata</i> Lindl. [Rajendra et al. 1053]	Epiphytic	Todey-Tangta, Neora Valley - Kalimpong	1500- 2600	Feb.- Apr.
154	<i>Esmeralda cathartii</i> (Lindl.) Rchb. f. [Rajendra et al. 1067]	Epiphytic	Neora Valley, Sukiapokhari - Darjeeling	700- 2300	Mar.- Jun.
155	<i>Esmeralda clarkei</i> Rchb. f. [Rajendra et al. 0753]	Epiphytic	Lava, Todey forest -Kalimpong	1300- 2000	Sep.- Dec.
156	<i>Eulophia spectabilis</i> (Dennstedt) Suresh [Rajendra et al. 0839]	Terrestrial	Forest areas in Kumsi - Kalimpong; Sittong - Kurseong	600- 1100	Apr.- May
157	<i>Flickengeria fugas</i> Rchb. f. [Rajendra et al. 0508]	Epiphytic	Relli, Jholung, Kalijhora - Kurseong	200-900	Jun.- Jul.
158	<i>Flickengeria macraei</i> (Lindl.) Seidenfaden [Rajendra et al. 1293]	Epiphytic	Todey, Rachela, Sukiapokhari forest - Darjeeling	1600- 2800	Jun.- Jul.
159	<i>Gastrochilus acutifolius</i> (Lindl.) Kuntze [Rajendra et al. 1017]	Epiphytic	Kaffer - Kalimpong; Baggonra forest - Kurseong	1400- 2400	Oct.- Dec.
160	<i>Gastrochilus desypogon</i> (J.E. Smith) Kuntze [Rajendra et al. 1511]	Epiphytic	Sittong, Panbu forest - Kalimpong	600- 1400	Oct.- Nov.
161	<i>Gastrochilus calceolaris</i> (Buchanan-Hamilton ex J.E. Smith) D. Don [Rajendra et al. 0451]	Epiphytic	Rammam forest - Darjeeling; Toroyok Busty - Kurseong	1700- 2300	Apr.- Jun.
162	<i>Gastrichilus distichus</i> (Lindl.) Kuntze [Rajendra et al.	Epiphytic	Alubari (Neora Valley), Todey -	1700-	Mar.-

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

184	<i>Herpysma longicaulis</i> Lindl. [Rajendra et al. 0985]	Semi Saprophytic	Forest areas in Charkhol near Kaffer - Kalimpong	1000- 2200	Oct.- Feb.
185	<i>Ione bicolor</i> (Lindl.) Lindl. [Rajendra et al. 0131]	Epiphytic	Rimbik - Darjeeling; Lava, Algarah - Kalimpong	1500- 2000	Oct.- Dec.
186	<i>Ione cirrhata</i> Lindl. [Rajendra et al. 0738]	Epiphytic	Damsang Gari, Algarah - Kalimpong	1600- 1900	Oct.- Nov.
187	<i>Liparis bootanensis</i> Griff. [Rajendra et al. 1337]	Epiphytic	Todey, Lava - Kalimpong; Rimbik - Darjeeling	1300- 2300	Jun.- Aug.
188	<i>Liparis cathcartii</i> Hook. f. [Rajendra et al. 0313]	Terrestrial	Forest areas of Neora Valley - Kalimpong	2000- 2700	Apr.- Jul.
189	<i>Liparis cespitosa</i> (Lamarck) Lindl. [Rajendra et al. 0538]	Epiphytic	Lava, Todey - Kalimpong; Rimbik - Darjeeling	1800- 2200	Jun.- Sep.
190	<i>Liparis cordifolia</i> Hook. f. [Rajendra et al. 1515]	Terrestrial	Forest areas in Takdah - Darjeeling	550- 2200	Oct.- Nov.
191	<i>Liparis deflexa</i> Hook. f. [Rajendra et al. 1649]	Terrestrial	Forest areas in Algarah, Lava - Kalimpong	600- 1500	Jul.- Aug.
192	<i>Liparis dongchenii</i> S.Z. Lucksom [Rajendra et al. 0593]	Terrestrial	Forest areas in Kumsi, Panbu - Kalimpong	600- 1000	Jun.- Sep.
193	<i>Liparis duthiei</i> Hook. f. [Rajendra et al. 1321]	Epiphytic	Rambi, Relli River side - Kalimpong	400- 1500	Jun.- Aug.
194	<i>Liparis gamblei</i> Hook. f. [Rajendra et al. 1259]	Terrestrial	Kumsi forest - Kalimpong	1600- 2400	Jun.- Jul.
195	<i>Liparis nervosa</i> var. <i>nervosa</i> (Thunberg) Lindl. [Rajendra et al. 1116]	Terrestrial	Dello Hill, Algarah, Lava - Kalimpong; Takdah - Darjeeling	900- 2300	Apr.- Jul.
196	<i>Liparis odorata</i> (Willdenow) Lindl. [Rajendra et al. 0587]	Terrestrial	Dello Hill, Kaffer - Kalimpong	800- 1900	Jul.- Sep.
197	<i>Liparis plantaginea</i> Lindl. [Rajendra et al. 0665]	Terrestrial	Forest areas in Lava, Neora Valley, Todey - Kalimpong; Takdah - Darjeeling	1800- 2400	Jul.- Sep.
198	<i>Liparis platyrachis</i> Hook. f. [Rajendra et al. 1705]	Epiphytic	Todey, Algarah forest - Kalimpong	1000- 1300	Oct.- Nov.
199	<i>Liparis resupinata</i> Ridley [Rajendra et al. 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 et al. 0737]	Epiphytic	Lava forest, Algarah, Todey forest - Kalimpong	1600- 2100	Oct.- Feb.
201	<i>Liparis somai</i> Hayata [Rajendra et al. 0969]	Epiphytic	Samalbong, Sangsay Bhalukhop - Kalimpong	800- 1800	Aug.- Oct.
202	<i>Liparis viridiflora</i> (Bl.) Lindl. [Rajendra et al. 0944]	Epiphytic	Todey, Neora Valley - Kalimpong; Rammam forest - Darjeeling	1300- 2100	Sep.- Dec.
203	<i>Lusia brachystachys</i> (Lindl.) Bl. [Rajendra et al. 1131]	Epiphytic	Mungpoo, Mamring Busty - Kurseong	1000- 2000	Apr.- May
204	<i>Lusia filiformis</i> Hook. f. [Rajendra et al. 0369]	Epiphytic	Relli - Kalimpong; Kalijhora forest - Kurseong	300- 1100	Apr.- Jun.
205	<i>Lusia trichorrhiza</i> (Hook.) Bl. [Rajendra et al. 0791]	Epiphytic	Kumsi, Samalbong, Nimbong - Kalimpong; Mungpoo	800- 1300	Mar.- May
206	<i>Lusia zeylanica</i> Lindl. [Rajendra et al. 0398]	Epiphytic	Kalijhora, Tindharey - Kurseong; Kumsi - Kalimpong	300-800	Feb.- May
207	<i>Malaxis acuminata</i> D. Don [Rajendra et al. 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 et al. 1663]	Terrestrial	Lava, Neora Valley - Kalimpong	1000-3000	Jun.-Jul.
209	<i>Malaxis muscifera</i> (Lindl.) Kuntze [Rajendra et al. 0633]	Terrestrial	Forest areas in Gairebas (Border area of Nepal and India); Birch Hill - Darjeeling; Rachela - Kalimpong	2000-2900	Jul.-Sep.
210	<i>Malaxis ophrydis</i> (Konig) Ormerod [Rajendra et al. 0525]	Terrestrial	Pudung, Dello hill, Forest areas of Kumsi - Kalimpong	800-1600	May-Jul.
211	<i>Malaxis purpurea</i> (Lindl.) Kuntze [Rajendra et al. 1678]	Terrestrial	Forest areas in Kumsi, Relli-Pala - Kalimpong	700-850	Jul.-Aug.
212	<i>Mastigion appendiculatum</i> (Rolfe) Garay, Hamer & Siegreist [Rajendra et al. 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 et al. 0675]	Epiphytic	Kalijhora - Kurseong; Sevoke - Siliguri; Relli-Pala - Kalimpong	200-800	Jul.-Sep.
214	<i>Mischobulbum megalanthum</i> T. Tang & F.T. Wang [Rajendra et al. 1076]	Terrestrial	Forest areas in Kalijhora	250-700	Mar.-Apr.
215	<i>Monomeria barbata</i> Lindl. [Rajendra et al. 1031]	Epiphytic	Lava forest, Neora Valley-Kalimpong	900-2500	Nov.-Feb.
216	<i>Nephelaphyllum cordifolium</i> Lindl. [Rajendra et al. 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 et al. 1246]	Terrestrial	Relli River sides - Kalimpong	450-1400	Jun.-Jul.
218	<i>Nervilia aragona</i> Gaudichaud [Rajendra et al. 1568]	Terrestrial	Forest areas in Latpanjar - Kurseong; Kumsi - Kalimpong	400-1000	Apr.-May
219	<i>Nervilia gammieana</i> (Hook. f.) Schltr. [Rajendra et al. 0834]	Terrestrial	Kumsi forest - Kalimpong	800-1300	Apr.-Jun.
220	<i>Nervilia plicata</i> (Andrews) Schltr. [Rajendra et al. 1598]	Terrestrial	Forest areas in Kalijhora - Kurseong; Nimbong - Kalimpong	300-850	May-Jun.
221	<i>Oberonia acaulis</i> Griff. [Rajendra et al. 1489]	Epiphytic	Tangta, Godok-Todey - Kalimpong	900-1900	Sep.-Nov.
222	<i>Oberonia angustifolia</i> Lindl. [Rajendra et al. 0531]	Epiphytic	Lungshel-Suntalay, Dello Hill - Kalimpong	800-1800	Jun.-Jul.
223	<i>Oberonia caulescens</i> Lindl. [Rajendra et al. 1583]	Epiphytic	Damsang Gari, Lava forest - Kalimpong	1500-2700	Jun.-Aug.
224	<i>Oberonia emarginata</i> King & Pantling [Rajendra et al. 0921]	Epiphytic	Dello Hill, Todey forest - Kalimpong	1100-2000	Jun.-Sep.
225	<i>Oberonia ensiformis</i> (J.E. Smith) Lindl. [Rajendra et al. 1699]	Epiphytic	NHPC Project side, Najok forest - Kalimpong	450-700	Oct.-Nov.
226	<i>Oberonia falcata</i> King & Pantling [Rajendra et al. 1693]	Epiphytic	Forest areas of Kaffer, Lava - Kalimpong	1300-1800	Jul.-Oct.
227	<i>Oberonia mucronata</i> (D. Don) Ormerod & Seidenfaden [Rajendra et al. 0162]	Epiphytic	Charkhol, Relli - Kurseong; Kalijhora -Kurseong	300-900	Oct.-Nov.
228	<i>Oberonia recurva</i> Lindl. [Rajendra et al. 0221]	Epiphytic	Kalijhora, Relli, Gorubathan - Kalimpong; Sevoke - Siliguri	200-900	Oct.-Mar.
229	<i>Oberonia pachyrachis</i> Rehb. f. ex Hook. f. [Rajendra et al. 0733]	Epiphytic	Kalijhora, Rambli, Relli, Ratay-Makum forest -Kalimpong	300-800	Oct.-Dec.
230	<i>Odontochilus crispus</i> (Lindl.) Hook. f. [Rajendra et al. 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 et al. 0695]	Semi Saprophytic	Forest areas in Lava-Kalimpong; Samanden -	1900-2600	Aug.-Sep.

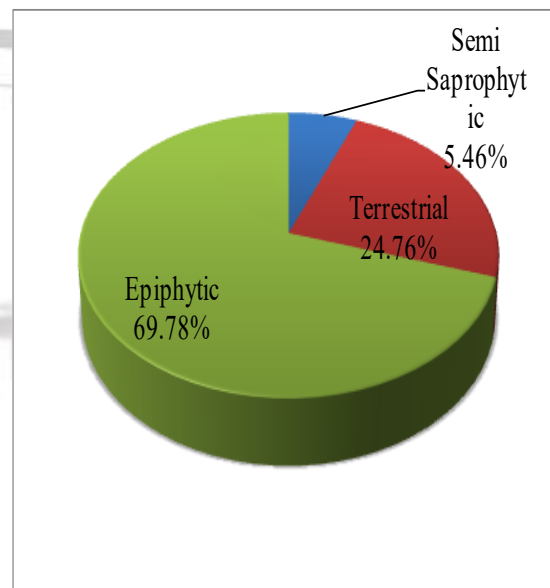
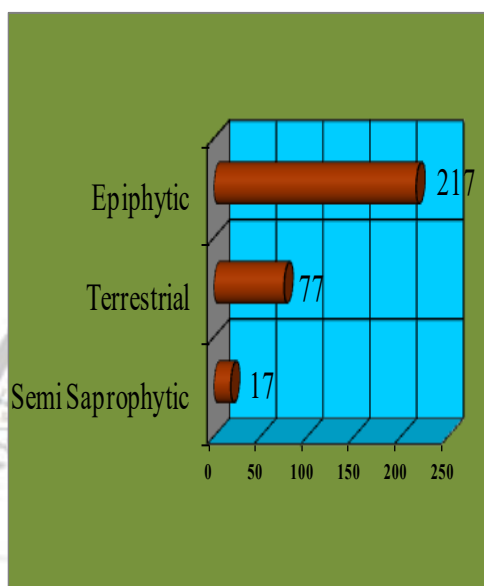
			Darjeeling		
232	<i>Odontochilus grandiflorus</i> (Lindl.) Benth & Hook. f. [Rajendra et al. 1266]	Semi Saprophytic	Forest areas in Damsang Gari - Kalimpong	900-1700	Jun.-Jul.
233	<i>Odontochilus lanceolatus</i> (Lindl.) Bl. [Rajendra et al. 0692]	Semi Saprophytic	Forest areas in Lava - Kalimpong; Rammam - Darjeeling	1800-2500	Sep.-Oct.
234	<i>Ornithochilus difformis</i> (Wall. ex Lindl.) Schltr. [Rajendra et al. 0557]	Epiphytic	Nokhdara, Lava, Kumsi - Kalimpong; Lopchu forest - Darjeeling	900-2300	Jun.-Sep.
235	<i>Otochilus albus</i> Lindl. [Rajendra et al. 0261]	Epiphytic	Lava, Algarah, Pedung - Kalimpong	900-2100	Mar.-Jun.
236	<i>Otochilus fuscus</i> Lindl. [Rajendra et al. 0692]	Epiphytic	Dello Hill, Suruk-Samthar - Kalimpong	700-2200	Dec.-Mar.
237	<i>Otochilus lancilabius</i> Seidenfaden [Rajendra et al. 0748]	Epiphytic	Algarah, Nokdara, Tangta forest - Kalimpong	900-2600	Nov.-Jan.
238	<i>Panisea demissa</i> (D. Don) Pfitzer. [Rajendra et al. 0730]	Epiphytic	Lopchu - Darjeeling; Lava, Rachela forest - Kalimpong	1900-3200	Oct.-Dec.
239	<i>Panisea uniflora</i> (Lindl.) Lindl. [Rajendra et al. 0718]	Epiphytic	Khalijhora, Pankhabari - Kurseong	300-1000	Mar.-Jun.
240	<i>Paphiopedilum fairrieanum</i> (Lindl.) Stein. [Rajendra et al. 1739]	Terrestrial	Pine View and Holumba Nursery - Kalimpong	1000-2300	Oct.-Dec.
241	<i>Paphiopedilum insigne</i> (Wall. ex Lindl.) Pfitzer [Rajendra et al. 1529]	Terrestrial	Pine View and Holumba Nursery - Kalimpong	1000-1700	Nov.-Jan.
242	<i>Paphiopedilum hirsutissimum</i> (Lindl. ex Hook.) Stein [Rajendra et al. 1109]	Terrestrial	Pine View and Holumba Nursery - Kalimpong	100-1900	Feb.-Apr.
243	<i>Paphiopedilum venustum</i> (Wall.) Pfitzer [Rajendra et al. 1539]	Terrestrial	Holumba Floral Nursery - Kalimpong	1000-2100	Jan.-Mar.
244	<i>Paphiopedilum villosum</i> (Lindl.) Pfitzer [Rajendra et al. 1546]	Terrestrial	Pine View Floral Nursery - Kalimpong	790-1200	Feb.-Mar.
245	<i>Pelatantheria insectifer</i> (Rchb. f.) Rolfe [Rajendra et al. 1484]	Epiphytic	Sevoke forest - Siliguri	150-900	Oct.-Nov.
246	<i>Papilionanthe teres</i> (Roxb.) Schltr. [Rajendra et al. 0491]	Epiphytic	Sevoke, NBU Campus - Siliguri; Sukuna - Kurseong	150-700	May-Jul.
247	<i>Peristylus affinis</i> (D. Don) Seidenfaden [Rajendra et al. 0630]	Terrestrial	Panbu, Algarah forest - Kalimpong	600-1900	Jun.-Aug.
248	<i>Peristylus constrictus</i> (Lindl.) Lindl. [Rajendra et al. 1251]	Terrestrial	Relli River side, Kumsi forest - Kalimpong	300-1700	Jun.-Aug.
249	<i>Peristylus fallax</i> Lindl. [Rajendra et al. 1401]	Terrestrial	Kalpokhari, Sandakphu forest (Border area of Nepal and India)	2500-3800	Jul.-Sep.
250	<i>Peristylus goodyeroides</i> (D. Don) Lindl. [Rajendra et al. 0496]	Terrestrial	Forest areas in Kumsi, Suruk - Kalimpong	400-1500	Jun.-Jul.
251	<i>Peristylus superanthus</i> J.J. Wood [Rajendra et al. 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 et al. 0626]	Terrestrial	Lamaydhura, Tonglu forest (Border area of Nepal and India)	2400-3600	Jul.-Oct.
253	<i>Peristylus parishii</i> Rchb. f. [Rajendra et al. 1231]	Terrestrial	Samalbong, Ratay Makum - Kalimpong	500-800	Jun.-Jul.
254	<i>Peristylus tipuliferus</i> (Parish & Rchb. f.) Mukherjee [Rajendra et al. 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 et al. 1036]		forest	1600	Apr.
256	<i>Phaius mishmensis</i> (Lindl. & Paxton) Rchb. f. [Rajendra et al. 1462]	Terrestrial	Forest areas of Takdah, Manaybhanjang - Darjeeling	1100- 2700	Sep.- Oct.
257	<i>Phaius tankervilleae</i> (Banks ex I' Heritier) Bl. [Rajendra et al. 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 et al. 1237]	Epiphytic	Guling, Jaldhaka, Lesh khola - Kalimpong	300-800	May- Sep.
259	<i>Phalaenopsis lobbii</i> (Rchb. f.) H.R. Sweet [Rajendra et al. 1088]	Epiphytic	Tarkhola - Kalimpong; Sukuna - Kurseong	250-700	Mar.- May
260	<i>Phalaenopsis mannii</i> Rchb. f. [Rajendra et al. 0806]	Epiphytic	Sukuna forest - Kurseong	150-900	Apr.- Jun.
261	<i>Phalaenopsis taenialis</i> (Lindl.) E.A. Christenson & Pradhan [Rajendra et al. 0446]	Epiphytic	Kumsi - Kalimpong; Rammam forest -Darjeeling	1000- 2800	Apr.- May
262	<i>Pholidota articulata</i> Lindl. [Rajendra et al. 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 et al. 0887]	Epiphytic	Samalbong, Yangmakum - Kalimpong	400- 1200	Apr.- Aug.
264	<i>Pholidota imbricata</i> Hook. [Rajendra et al. 0487]	Epiphytic	Samalbong-Relli - Kalimpong; Kalijhora - Kurseong	300- 1200	Apr.- Aug.
265	<i>Pholidota pallida</i> Lindl. [Rajendra et al. 1301]	Epiphytic	Samalbong, Relli - Kalimpong; Kalijhora, Lathpanjar - Kurseong	800- 1100	Jun.- Oct.
266	<i>Pholidota recurva</i> Lindl. [Rajendra et al. 1453]	Epiphytic	Todey forest - Kalimpong	600- 2000	Aug.- Sep.
267	<i>Pholidota rubra</i> Lindl. [Rajendra et al. 1731]	Epiphytic	Forest areas in Algarah, Lava - Kalimpong	900- 2200	Oct.- Dec.
268	<i>Platanthera bakeriana</i> (King & Pantling) Kranzlin [Rajendra et al. 1367]	Terrestrial	Megma, Tumbling, Phalut forest (Border area of Nepal and India)	2200- 3400	Jul.- Aug.
269	<i>Platanthera biemanniana</i> (King & Pantling) Kranzlin [Rajendra et al. 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 et al. 0660]	Terrestrial	Manaybhanjang, Rimbik - Darjeeling; Neora Valley - Kalimpong	1900- 2800	Jul.- Sep.
271	<i>Platanthera cumminsiana</i> (King & Pantling) Renz. [Rajendra et al. 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 et al. 0628]	Terrestrial	Megma (Border area in Nepal and India) Samanden forest - Darjeeling	2400- 2900	Jul.- Aug.
273	<i>Platanthera exelliana</i> Soo [Rajendra et al. 1681]	Terrestrial	Sandakphu, Phalut (Border area of Nepal and India)	3000- 4200	Jun.- Aug.
274	<i>Platanthera leptocaulon</i> (Hook. f.) Soo [Rajendra et al. 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 et al. 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 et al. 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 et al. 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 et al. 1504]	Epiphytic	Pankhabari forest - Kurseong	500-1800	Oct.-Nov.
279	<i>Pleione praecox</i> (J.E. Smith) D. Don [Rajendra et al. 0181]	Epiphytic	Lava, Todey - Kalimpong; Sukiapokhari - Darjeeling	1800-2400	Sep.-Dec.
280	<i>Podochilus cultratus</i> Lindl. [Rajendra et al. 1442]	Epiphytic	Dudhay - Kurseong; Panbu - Kalimpong	300-1700	Aug.-Sep.
281	<i>Podochilus khasianus</i> Hook. f. [Rajendra et al. 1355]	Epiphytic	Kaffer, Godok-Todey - Kalimpong	1000-2000	Jul.-Sep.
282	<i>Pomatocalpa armigerum</i> (King & Pantling) T. Tang & F.T. Wang [Rajendra et al. 1402]	Epiphytic	Forest areas in Sukuna, Kalijhora - Kurseong	200-700	Aug.-Sep.
283	<i>Porpax elwesii</i> (Rchb. f.) Rolfe [Rajendra et al. 1519]	Epiphytic	Suruk Busty - Kalimpong; Latpanjar - Kurseong	500-1800	Oct.-Dec.
284	<i>Pteroceras teres</i> (Bl.) Holttum [Rajendra et al. 0915]	Epiphytic	Guling, Panbu forest - Kalimpong	300-1100	Jun.-Aug.
285	<i>Rhynchostylis retusa</i> (L.) Bl. [Rajendra et al. 0519]	Epiphytic	Samalpong, Bagrakote - Kalimpong; Sevoke - Siliguri	150-900	Jun.-Jul.
286	<i>Rhomboda lanceolata</i> (Lindl.) Ormerod [Rajendra et al. 1436]	Terrestrial	Forest areas of Damsang Gari - Kalimpong	1100-2100	Aug.-Sep.
287	<i>Saccolabiopsis pussila</i> (Lindl.) Seidenfaden & Garay [Rajendra et al. 1090]	Epiphytic	Sevoke - Siliguri; Gorubathan - Kalimpong	200-500	Feb.-Mar.
288	<i>Satyrium ciliatum</i> var. <i>ciliatum</i> (Lindl.) Hook. f. [Rajendra et al. 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 et al. 0642]	Terrestrial	Maneybhanjang-Darjeeling; Lava, Algarah - Kalimpong	1700-3500	Aug.-Oct.
290	<i>Smitinandia micrantha</i> (Lindl.) Holttum [Rajendra et al. 0387]	Epiphytic	Sukuna, Panighatta - Kurseong; Sevoke - Siliguri	150-1100	Apr.-Jun.
291	<i>Spiranthes sinensis</i> (Persoon) Ames. [Rajendra et al. 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 et al. 0439]	Epiphytic	Serikhola, Dhotray - Darjeeling	1800-2500	May-Jun.
293	<i>Sunipia intermedia</i> (King & Pantling) P.F. Hunt [Rajendra et al. 0341]	Epiphytic	Lungshel - Kalimpong; Dow Hill - Kurseong	1300-2100	Apr.-Jun.
294	<i>Sunipia scariosa</i> Lindl. [Rajendra et al. 0855]	Epiphytic	Lakpatar - Darjeeling; Todey - Kalimpong	1000-1900	May-Jun.
295	<i>Tainia minor</i> Hook. f. [Rajendra et al. 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 et al. 0681]	Epiphytic	Forest areas in Neol, Kumsi, Yangmakum - Kalimpong	250-900	Aug.-Sep.
297	<i>Thunia alba</i> (Lindl.) Rchb. f. [Rajendra et al. 0074]	Epiphytic	Suruk, Pudung - Kalimpong	600-1800	Jun.-Aug.

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