

RECORDS OF THE BOTANICAL SURVEY OF INDIA VOLUME XVII—NO. 2.

REPORT ON A BOTANICAL TOUR TO BOMDI-LA, N. E. F. A. (May, 1955)

By

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Figs., I-3. Fig. I, (top left) Rhododendron niveum Hk. f. Fig. 2, (top right) Rhododendron arboreum Sm. Fig. 3, (bottom) Rhododendron griffithianum Wight.

REPORT ON A BOTANICAL TOUR

TO

BOMDI-LA, N.E.F.A.

INTRODUCTION.

The flora of the Eastern Himalayas, particularly of the regions of the Nepal and the Sikkim Himalayas, and that of the Khasia and Jaintia Hills in Assam, is fairly well known, mainly due to the strenuous and concerted efforts of such eminent botanists as Dr. Nathaniel Wallich, Sir Joseph Hooker, Sir George King, Sir David Prain, R. Pantling, I. H. Burkill and a few others. Very little information, however, is available of the botany of the North East Frontier Agencies (NEFA), particularly of the Kameng Division. The great value that can naturally be derived of the knowledge obtained from the flora of these hitherto unexplored Frontier Tracts was fully appreciated by our most beloved and highly esteemed Prime Minister and H. E. the Governor of Assam. They suggested, therefore, that preliminary botanical excursions be conducted in these regions to assess their potential natural wealth with a view to undertake detailed and intensive explorations at later stages for possible commercial exploitations by the State.

Under very favourable auspices, therefore, it was jointly decided by the Government of India and the Government of Assam that a botanical tour be undertaken to Bomdi-la, the headquarters of the Kameng Frontier Division of NEFA, by the Botanical Survey of India. Necessary permission was also accorded for a small party of five persons from the Industrial Section of the Indian Museum, Botanical Survey of India to visit the place for the collection of specimens from that area.

The party consisted of Shri K. S. Srinivasan, the Curator, Shri A. Basu, the Gallery Assistant, Shri B. P. Roy Chowdhury, the Artist, Shri S. Mondal, the Herbarium Duftry and Sri Baikunthanath Das, the Bearer. The visit to Bomdi-la was scheduled to be in the month of May, 1955.

Preparations

Pressure of time and difficulties in obtaining the necessary camp and field equipment, became the limiting factors of our expedition. It was only through the generous help of the Political Adviser, NEFA, that these difficulties could be surmounted in time and our thanks are due to him. H. E. the Governor of Assam gave our expedition every encouragement, for which we are most grateful.

Description of the Journey

We left Calcutta by Train on the morning of the 3rd May, 1955, reaching Rangapara North on the night of the 5th May at 9 p.m. The Assam Government had kindly

with dry aspects rather prominent. Many of the tall towering trees in the former areas were covered with a thick coat of leafy Jungermanniales, mosses and lichens, good indications of tropical monsoon forest types. Tree-ferns are not uncommon here and there in some of these forests. Beyond Sisini, Pinus excelsa Wall, is a gregarious tree, practically throughout, towering in slopes and ravines and standing picturesquely in more or less exposed forests. Generally, it was noticed that many of the areas of these forests were strikingly poor in the undergrowth or ground-cover, which is usually a characteristic of the tropical Rain-forest types. Again the large lianes and scramblers that one would normally expect were found to be rather scarce; in very favourable areas, especially about Bomdi-la and Bampu-la, bamboos and reeds were flourishing in extensive stretches, where Chimonobambusa callosa Nakai, was noted as the dominant form. Epiphytes were found to be surprisingly poor, even though we examined several huge felled tree-tops for possible epiphytes. Except for a few species of orchids and polypodiaceous ferns we did not come across those interesting forms that one normally expects to see in such forests. Possibly the time of our visit was not quite the best season for a rich and varied botanical harvest; we were led to this conclusion by the fact that most plants were only in leaf and in places large barren areas were in evidence. Further, in many areas of the district there has been much deforestation, and this has naturally brought in many changes particularly in herbaceous and low shrubby elements.

The outskirts of the forests, especially between Foot-hills and Sisini, consist of shrubby vegetation. Mussaenda frondosa Linn., with its very characteristic large white clayx-leaf, and Solanum torvum Swartz, deserve mention here. Species of Curcuma and Arisgema are also frequent as smaller herbaceous forms, the former sometimes covering larger areas. In more or less wet and shady situations throughout the region covered by us, we met with Begonia laciniata Roxb, a very profuse flowering herb in certain areas. In similar wet and shady situations, Impatiens radiata Hk.f. and occasionally Geranium nepalense Sweet were seen, though not as common as Begonia laciniata Roxb. Commelina obliqua Ham. with its attractively coloured leaves and bracts is common as a rambling or nearly climbing herbaceous plant in many moist situations; there, too, Streptolirion volubile Edgew, was also frequent. Rock cuttings with plenty of moisture and shade especially at Sisini harboured extensive patches of liverworts and club-mosses among which Marchantia polymorpha Linn., Targionia hypophylla Linn. and Selaginella caulescens Spreng. were common. Dumortiera hirsuta Reinw. was characteristic of the places where there was a gentle and constant flow or dripping of water. The liverworts were all found fruiting and in some cases in well advanced stages.

The forests themselves are composed of trees of varying height; some are lofty and attain 100 to 150 ft. in height. Among such trees are to be mentioned Pinus excelsa Wall.. Tsuga brunoniana Carr, Taxus baccata Linn. and Michelia excelsa Blume. Betula cylindrostachys Wall. is also a very characteristic large tree of these forests, though found to be smaller in height than the conifers just mentioned.

Among the trees between 30 to 50 ft. high may be mentioned Prunus nepalensis Ser., Cornus macrophylla Wall., Rhododendron griffithianum Wight. Rhododendron falconeri Hook. Acer hookeri Miq., and Acer campbellii Hook. Species of Rhododendron,

Daphniphyllum himalayense Muell., Maesa indica Wall. Cinnamomum sp. constitute the small trees or larger shrubs of these forests.

The forests consist of an admixture of the Evergreen and Deciduous trees, the dominance of one or the other type characterising the particular aspect of the forest in a particular area. The following are some of the Evergreen trees observed:

Pinus excelsa Wall. Tsuga brunoniana Carr. Taxus baccata Linn. Betula cylindrostachys Wall. Quercus lamellosa Smith. Pasania spicata (Smith). Oerst. Daphniphyllum himalayense Muell. Machilus kurzii King. Maesa indica Wall. Prunus nepalensis Ser. Cornus macrophylla Wall. Rhododendron griffithianum Wight. Rhododendron falconeri Hook. Rhododendron arboreum Sm. Cinnamomum sp. Ilex dipurena Wall.

The following are some of the Deciduous trees:

Acer campbellii Hk. f. & T. Acer hookeri Miq. Michelia excelsa Blume. Albizzia stipulata Boiv. Machilus odoratissima Nees. Quercus griffithii Hook.

Among the large woody climbers are to be mentioned:

Holboellia latifolia Wall. Clematis buchananiana DC. Capparis multiflora Hk.f. & T. Entada phaseoloides Linn.

Parthenocissus himalayana (Laws.) Planch was not uncommon, sometimes covering with its foilage the large trees over which it climbs.

Zanthoxylum oxyphyllum Edgew. and species of Smilax form the prickly climbing shrubs in these forests. Jasminum dispermum Wall. and Jasminum grandiflorum Linn. are also common as climbing plants.

In many places, the forests are more or less of the open type, with interrupted canopy and sparsely distributed large trees, permitting plenty of light to penetrate through. The undergrowth vegetation in such areas was also poor. But in favourable areas, a dense vegetation of under-shrubs was common. Strobilanthes agrestis Clarke and Plectranthus sp. are the dominant species in certain localities. In cool and shady

places, Ajuga macrosperma Wall., Urtica parviflora Roxb., Lecanthus wightii Wedd. and Pilea symmeria Wedd. were noticed. Urtica parviflora Roxb., Pilea symmeria Wedd. and Amarantus gangeticus Linn. were also noticed in the undergrowth near water courses; occasionally Disporum pullum Salisb. was noticed forming small thickets, with bunches of beautiful white flowers. Equisetum diffusum D. Don., though rare, was seen in crevices and sheltered places on the banks of mountain river courses.

In comparatively open areas, on dry ground, exposed to the full blaze of the sun, the following plants formed special communities:

Elsholtzia strobilifera Benth.
Rumex hastatus D. Don.
Crepis silhetensis Hk.f.
Gnaphalium luteo-album Linn.
var. multiceps. (Wall. ex DC.) Hk.f.
Anaphalis cinnamomea Clarke.
Anaphalis araneosa DC.
Conyza japonica Less.
Bidens biternata (Lour) Merr. & Sherff.

Sonchus oleraceus Linn., Sonchus arvensis Linn., Gerbera piloselloides Cass., Gynura pseudo-china DC. and Senecio densiflorus Wall. though occasional in similar dry localities, preferred slightly shady situations. Pteridium aquilinum (L) Kuhn. was noticed in nearly pure stands in very arid situations, in the neighbourhood of certain villages between Jabrang and Rupa.

It must, however, be mentioned here that the shrubby belts which came next to trees, were not clearly defined, for such belts contained also some trees of larger sizes. Similarly the bushy regions in several places also contained vacant spaces with stumps of dead trees, and the soil in such situations was practically barren; we cannot assign the real cause for such a condition, but the appearances were very striking and typical.

Nothing can exceed the richness and elegance of the varieties of Rhododendrons which displayed a profusion of splendid blossoms (Figs. 1—3). The red and purplish flowered species certainly are very pretty and ornamental. We first encountered Rhododendrons in large numbers while on our march from Sisini to Jabrang, particularly when within 3 to 4 miles from Jabrang. The forests were at first mixed. Gradually Rhododendrons prevailed until we were almost entirely surrounded by them. At the time of our visit, most of the Rhododendron trees were in full blossom. In several places, the forest floor was covered with a carpet of the flowers that had dropped down. Rhododendron forests extended beyond Jabrang for about 3 miles in the direction of Rupa. The dense heads of red or pink or white flowers give a delightful and colourful touch to the otherwise dull and monotonous scenery of these forests at that season. Beyond this belt, the Rhododendrons disappear, except for a few trees scattered, which in their isolation were not very impressive. At Bomdi-la, however, and in the forests about it, Rhododendrons came up again in large numbers.

Rhododendron niveum Hook. (Fig. 1) is perhaps the more widely distributed species in the area, together with Rhododendron grande Wight and Rhododendron arboreum Sm.

(Fig. 2). These species adorn the forests with their blossoms occurring as many-flowered dense heads, usually red or pink. Rhododendron dalhousiae Hook., Rhododendron griffithianum Wight. (Fig. 3) and Rhododendron falconeri Hook. bear larger flowers, which are white or with shades of light green or pink. The flowers are very fragrant.

The following are the species of Rhododendron we came across in these forests:

Rhododendron vaccinioides Hook.
Rhododendron grande Wight.
Rhododendron falconeri Hook.
Rhododendron arboreum Sm.
Rhododendron niveum Hook.
Rhododendron griffithianum Wight.
Rhododendron edgeworthii Hook.
Rhododendron dalhousige Hook.

Amid the striking flowers that enliven these forests, those of orchids (Figs. 4—7) deserve particular mention. As far as we could notice, two zones seem particularly well suited for the production of orchids, viz., the forests about Sisini and those about Bomdi-la. Of the species encountered by us, Dendrobium nobile Lindl. (Fig. 4) is decidedly the most elegant and attractive orchid with heavy bunches of beautiful flowers. This orchid was seen in favourable situations, especially on the way to Bomdi-la from Rupa, in large patches, perched on rocky cliffs, on thick mossy carpets. Another interesting, though not very attractive orchid, met by us is Galeola falconeri Hook. (Fig. 18). We collected two impressive specimens of the entire plant at Sisini, both specimens were large ones, the root-stock of which being as thick as a man's wrist, with their stems easily attaining a height of 5 to 5½ feet. Bulbophyllum collettii King & Prantl. is yet another interesting find in these forests.

The following are the species of orchids noticed during this tour:

Dendrobium nobile Lindl.
Dendrobium dalhousieanum Wall.
Bulbophyllum griffithii Reichb.
Bulbophyllum collettii King & Prantl.
Cirrhopetalum brevipes Hook. f.
Eria graminifolia Lindl.
Coelogyne corymbosa Lindl.
Otochilus alba Lindl.
Calanthe chloroleuca Lindl.
Stauropsis undulatus Benth.
Galeola falconeri Hook.
Paphiopedilum insigne (Wall.) Pfitz.
Ritaia himalaica King & Prantl.

It struck us that the season was not perhaps favourable for a large number of epiphytic and ground orchids to be represented in these forests. A proper appreciation of the orchid wealth of these forests can be had only when extensive searches are

made, all through the year, and at proper times. However, one thing impressed us, that the Nepal Himalayas, particularly in the vicinity of Kakani, presented very favourable spots for a very vast assemblage of orchids, some species of which are so abundant as to form conspicuous "forests", strikingly beautiful and wonderful. The Sikkim Himalayas, and the Khasia and Jaintia Hills in Assam are also noted for their orchid wealth. Being so, the NEFA region, contiguous to these territories, can be expected to harbour several more species than what was presented to us during the season of our visit to the place. Repeated attempts to discover the species therein are expected to yield very encouraging results.

Even with only a preliminary acquaintance with the forests of the Kameng Division, NEFA, we find that the flora of the area is botanically and economically interesting. This report is not aimed at giving a detailed account of these aspects, but a few sketchy notes are necessary even though not exhaustive.

Economic aspect

1. Timber Trees

The Timber Wealth of these forests is appreciable. A large number of trees of known economic value flourish in these forests. Among those that are of value for building and construction purposes, and for the making of doors and window frames and the like articles, are to be mentioned:

Michelia excelsa Blume.
Pinus excelsa Wall.
Viburnum erubescens Wall.
Engelhardtia spicata Blume.
Pasania spicata (Smith). Oerst.
Quercus lamellosa Smith.
Quercus griffithii Hook.
Lindera sp.
Machilus odoratissima Nees.
Machilus kurzii King.

and where much quality and fine workmanship is not required Maesa indica Wall, and Rhododendron arboreum Sm. The following are valuable for planking purposes also:

Michelia excelsa Blume.

Pinus excelsa Wall.

Acer campbellii Hk.f. & T.

Alibizzia stipulata Boiv.

Lindera sp.

Machilus kurzii King.

Engelhardtia spicata Blume.

Daphniphyllum himalayense Muell.

Prunus nepalensis Ser.

For furniture and cabinet work, Michelia excelsa Blume, Taxus baccata Linn., and to a certain extent Albizzia stipulata Boiv. offer good timbers. Acer hookeri Miq.,



Fig., 4. Dendrobium nobile Lindl.

Engelhardtia spicata Blume, Rhododendron falconeri Hook., Rhododendron arboreum Sm., Vaccinum nummularia Hk.f. & T. yield useful wood for making different kinds of utensils as spoons, laddles, plates and the like. For packing purposes and making of tea-boxes, Acer campbellii Hk.f. & T., Engelhardtia spicata Blume, Machilus odorutissimus Nees and Albizzia stipulata Boiv. can be advantageously used. Pinus excelsa Blume, Viburnum erubescens Wall., Vaccinum nummularia Hk.f. & T. and Daphniphyllum himalayense Muell. afford very good wood for carving purposes; for agricultural tmplements, dug-outs and turneries, Quercus griffthii Hook., Pinus excelsa Blume, Taxus baccata. Linn., Albizzia stipulata Boiv. yield good timbers; Cornus macrophylla Wall. is known to yield very good charcoal for gun-powder, and Betula cylindrostachys Wall. quality charcoal, considered best for locomotive purposes.

We saw an Industrial school run at Bomdi-la where we noticed Chap or Champa or Phul champa (Michelia excelsa Blume) and Jangli Akhrot (Daphniphyllum himalayense Muell.) used for furniture making, long-ching (Pinus excelsa Blume) for door and window frames and making platforms; Yearga (Elaeocarpus varunua Ham.) for wooden utensils such as spoons, plates, ash-trays, etc. For rough type of work Chipsing (Cinnamomum sp.) is often used.

The utility of the various timber trees of the forests is known to the local inhabitants of the place, as is well evidenced by the information which they were able to furnish us at out instance. According to the local information, the following are some of the valuable timber trees:

Karsing (Acer hookeri Miq.),
Sim sing Meto (Vaccinum nummularia Hk.f. & T.).
Shersumpasing (Ribes glaciale Wall.).
Jamkarmesing (Lindera sp.),
Akhrot or Okhar (Daphniphyllum himalayense Muell.).
Kauloh or
Maseh kauloh
Safed kauloh (Machilus odoratissimus Nees),
Kapashi (Acer campbellii Hk.f. & T.),
Phul champ (Michelia excelsa Bl., also Machilus sp.),
Ranee champ (Daphniphyllum himalayense Muell), also called by some as Okhar.
Bajrant (Quercus).
Aroopatty (Prunus nepalensis Ser).

2. Bamboos

The stretches of Bamboo forests in several areas offer yet another very valuable economic forest product. Different kinds of bamboos are largely employed in the Frontier Tracts for construction of living sheds, houses and camps, where the roofing, floor coverings, partition walls and enclosures are all done by split-bamboos and reeds plaited together.

3. Medicinal plants

The forests are also rich in several plant species of medicinal value. We collected some such medicinal plants, among which mention may be made of:

Berberis aristata DC.,
Plantago major Linn.,
Zanthoxylum oxyphyllum Edgew.,
Curculigo orchioides Gaertn.,
Valeriana hardwickii Wall.,
Lycopodium clavatum Linn.,
Drynaria quercifolia J. Smith.

Maesa indica Wall. occurs in places as dense vegetation, the leaves of which are well-known fish-poison. Taxus baccata Linn. is also an important medicinal species; the leaves of this tree contain volatile oils, tannic acid and gallic acids, and the leaves and fruits are medicinal and very poisonous to cattle. Several Liliaceous plants are known to be poisonous; the genus Paris is one of such poisonous plants. Paris polyphylla Sm. grows in these forests, and its medicinal properties can be explored. Aconitum palmatum D. Don. is seen in the NEFA area; though this particular Aconite has not gained recognition in Pharmacopoeias, the local people claim medicinal virtues for this species also, popularly known to them as Boa carpo. Equisetum debile Roxb. is a known medicinal plant, and is administered as a cooling medicine in Punjab; it is given in Gonorrhæa. Equisetum diffusum D. Don. noticed in these parts deserves investigation. Coriaria nepalensis Wall. is another species the leaves and seeds of which are poisonous.

4. Other economic plants

There are several other probable economic species also in these forests. Only a few of them are indicated here. The Fumitory (species of Corydalis) deserves mention here. Corydalis tuberosa and Corydalis fabaceae are officinal in Europe; their bitter acid roots are used as external application in indolent tumours; the chemical properties of the bitter roots are analogous to those of Morphia and Anarcotine. The Fumitory is well represented in Kashmir area, where at least 12 species are known, and some of them extend upto Sikkim. Corydalis govaniana Wall. from N.W. Himalayas and near Simla, is used as a tonic and anti-periodic. Corydalis ramosa Wall. occurring in the Kurram Valley in the Himalayas is also employed medicinally by the natives in the treatment of eye-diseases. Corydalis formosa roots are considered to be tonic, diuretic and alternative. In NEFA we came across Corydalis leptocarpa Hk.f. & T. (Fig. 16). In consideration of the medicinal values of the several species of this genus, the local species deserves attention.

The Ivy (Hedera nepalensis Koch was at one time highly valued in medicine. This species is common with other species of Araliaceae in these forests, such as Aralia pseudo-ginseng Benth., Macropanax oreophilum Miq. and others. These would also offer potential source of economic species. Similarly, the Gentians, which generally have bitter stems and roots and many species of which are of considerable medicinal value deserve exploitation. Gentiana quadrifaria Blume. (Fig. 29) is the species we came

across in this belt. So also the medicinal properties of Lobelia pyramidalis Wall., Myrsine semiserrata Wall. occurring in these parts, may be investigated. Artemesia vulgaris Linn. (Fig. 11) and Cannabis sativa Linn. (Fig. 38) which grow in a wild stage can be brought under systematic and extensive cultivation for their medicinal properties. Andromeda elliptica Sieb & Zuce. is another plant deserving consideration as also Aristolochia saccata Wall. The young leaves and buds of Andromeda elliptica Sieb & Zuce. (Fig. 21) are known to be poisonous, which property renders them useful as an insecticide.

Just as there are a good many medicinal plants, these forests also possess a number of dye and tan yielding species, such as Berberis aristata DC. (Fig. 12), Coriaria nepalensis Wall., Symplocos theaefolia Buch. Ham. ex. D. Don., Geranium nepalense Sw. (Fig. 14), Rubia cordifolia Linn. (Fig. 15), Engelhardtia spicata Blume, Taxus baccata Linn., etc. Several species of Galium also yield a dye, and in Europe it is known that the species Galium verum Linn. is extensively collected for its roots which yield a dye. Galium mollugo Linn. (Fig. 31) and Galium triflorum Mich. are seen in these forests, the economic aspects of which would seem merit consideration.

Valeriana hardwickii Wall. (Fig. 9) and Valeriana wallichii DC. (Fig. 10) yield roots of interest for perfumery and when dry can be used as incense. So also, Taxus baccata Linn, yields a gummy exudation which can constitute an incense.

There are oil-yielding plants, among which Camellia drupifera Lour (Fig. 20) may be referred to for possible exploitation. It has long ago been reported that this species would seem worthy of attention as an oil-seed bearing species, as it yields a non-drying oil of superior quality, and which is also known to be used medicinally in Cochin-China. Another species deserving attention is Brassica napus Linn. a species growing wild in NEFA. This species is known to be intensively cultivated in Japan for the valuable oil-seeds it yields. Taxus baccata Linn. the Yew, is also of value for the volatile oil its leaves contain. Cornus macrophylla Wall. is another species, which may deserve attention. Cornus sanguinea Linn. and Cornus mascula Linn. yield valuable commercial oils, a fact which would seem to suggest that the local species be also examined for probable oils of economic value. So also, the Thistles may be examined; species of Cnicus, especially Cnicus arvensis yields large quantities of oil from the tiny seeds. Cnicus argyracanthus DC. and Cnicus khasianus Clarke were collected by us from these areas, and these species should be investigated. For brevity sake, we do not propose to dilate any further on other well-known oil-yielding plants.

There are other plants that give economic products; mention may be made of plants yielding food-stuffs, spices (Cinnamomum tamala, Nees & Ebr. the Lavanga), gums and resins (Pinus excelsa Bl., Taxus baccata Linn. Albizzia stipulata Boiv), fibres (Urtica parviflora Roxb., Pilea symmeria Wedd.), turpentine, etc. (Tsuga brunoniana Carr., Pinus excetsa Bl.).

5. Ornamental plants

Such a brief survey of the economic plants of this area would be incomplete if some of the highly ornamental shrubs were left out. Many of them are great favourites

with gardeners; others should be introduced into our gardens. Deutzia staminea Br. (Fig. 22) and Spiraea bella Sims. are among the finest; many of the orchids that grow in these forests would soon be in great esteem if they were properly known.

Among other less important, yet interesting species, mention should be made of Begonia laciniata Roxb., a succulent herb of moist situations, common throughout these forests. It is claimed that the juice of this species as also of other species of the same genus is poisonous to leeches and may be used to kill them. We did not, however, have an opportunity to test the efficacy of this property of this interesting herb.

6. Phytogeographical notes

The flora of Kameng Division proved of considerable botanical interest from the phytogeograpgical and distribution point of view. In these tracks, we found several species, which are not mentioned in Hooker's Flora of British India, and among such plants we would mention Cayratia japonica (Thunb.) Gagnep, Cnicus khasianus Clarke, Erechithites valerianaefolia DC., Wahlenbergia prainiana Watt., Ritaia himalaica King and Prantl., Chimonobambusa callosa Nakai. We also noticed with interest that species, supposed to be restricted in habitat and confined to only a particular locality, are now extending into the North East Frontier Agencies. In this, we would make particular mention of Enkianthus deflexus Sehn and Bulbophyllum collettii King & Prantl. In other cases plants said to range from Bhutan or Sikkim towards the west in the Himalayas, were noticed in NEFA, much further east than as hitherto known. From these purely scientific aspects, the flora of NEFA proved of great interest to us.

Conclusion

Inspite of our misfortunes, our stay at Bomdi-la was not without pleasant experiences. We had much amusement when the droning air-craft, at scheduled times hovered round the hilly terrain of Bomdi-la, and came to the rescue of the officials and employees of the place, with provisions, vegetables and other food articles, which were dropped with or without parachutes. On two days during our stay at Bomdi-la we witnessed these operations, which as they amused the visitors, they made the inhabitants of the piace rejoice with a sense of great relief, as they could look to the "heavens" for their food to "descend". Some of the members of the party had also an opportunity to witness the "Posa Payment Celebrations" held at Bomdi-la, which was picturesque.

In concluding, it is our hope that even the very meagre information we at present possess of the Botany of NEFA will justify this account, however sketchy it may be; being presented to the Government of India, we do hope it will be of interest and value.

A systematic enumeration of the species collected, and a synopsis of the collections determined are also appended to this report.

Finally, I would be failing in my duties, if I did not place on record my deep sense of gratitude to the various officials of NEFA administration and Government of Assam. To the Government of India and the Government of Assam, I am grateful for the opportunity given to visit the place. I am indebted to Capt. Har Mandar Singh, Political Adviser

to the Governor of Assam, for the help and advice he gave us; to Mr. R. S. Nag, Political Officer, Kameng Frontier Division, Bomdi-la, one of the most amiable and liberal of men we came across in the tour, and whose enthusiasm and interest was really most encouraging; to Shri T. A. Imti. the Assistant Political Officer, for his ready willingness to help in all our efforts and looking after our comforts while on our botanical mission to Bomdi-la; to the Superintendent, Indian Botanic Gardens, Sibpur, for help in the determination of the species and to Rev. Fr. Dr. H. Santapau, S.J., for the valuable advice and encouragement he gave throughout as Chief Botanist of the Botanical Survey of India, and for his kind criticism of this report.

CALCUTTA:

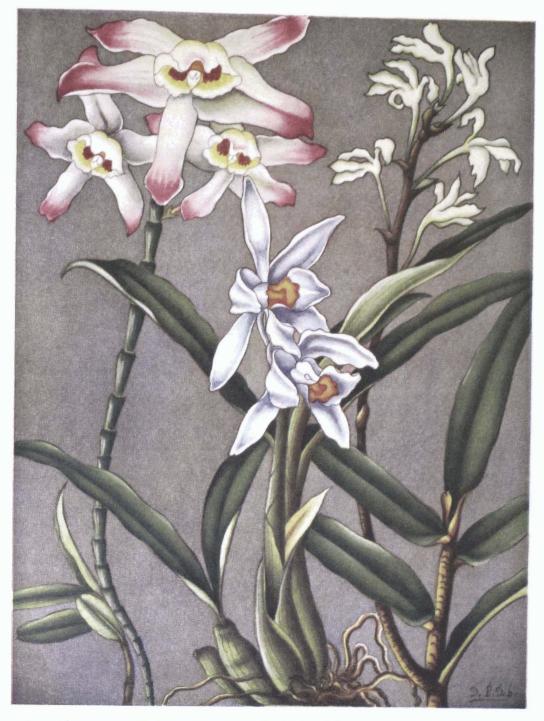
The 24th April 1956.

K. S. SRINIVASAN,

Curator,

Industrial Section, Indian Museum,

Calcutta.



Figs., 5-7. Fig. 5, (right) Stauropsis undulatus Benth. Fig. 6, (middle) Coelogyne corymbosa Lindl. Fig. 7, (left) Dendrobium dalhousieanum Wall.

Systematic enumeration of the species collected.

Ranunculaceae

Clematis buchananiana DC. Bomdi-la (NEFA), over 8000 ft. altitude Bomdi-la (Wandhedlaceae	
Clematis buchananiana DC. var. rugosa Bondi-la Berberidaceae Holboellia latifolia Wall. Bondi-la	Clematis buchananiana DC.	
Bomdi-la 13-5-1955 Ranunculus diffusus DC. Bomdi-la 12-5-1955 Aconitum palmatum D. Don. Bomdi-la 13-5-1955 Known locally as Boa Carpo and is considered as a remedy against fevers. Magnoliaceae Illicium manipurense Watt. ex King. Bomdi-la 12-5-1955 Michelia excelsa Blume Bomdi-la 16-5-1955 A very valuable timber tree seen in many forests in NEFA. Berberidaceae Holboellia latifolia Wall. Bomdi-la 14-5-1955 Mahonia nepaulensis DC. On the way from Sisini to Jabrang 7-5-1965 Berberis aristata DC. Rupa 9-5-1965 Berberis insignis Hk.f. & T. Bomdi-la Cocurrence of this species at NEFA gives it an extended distribution in the Eastern Himalayas, where it has so far been reported from E. Nepel, Sikidm and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la 16-5-1955 Corydalis leptocarpa Hk.f. & T.	Bomdi-la (NEFA), over 8000 ft. altitude	18-5-1955
Ranunculus diffusus DC. Bomdi-la Aconitum palmatum D. Don. Bomdi-la Known locally as Boa Carpo and is considered as a remedy against fevers. Magnoliaceae Magnoliaceae Illicium manipurense Watt. ex King. Bomdi-la Bomdi-la Bomdi-la A very valuable timber tree seen in many forests in NEFA. Berberidaceae Holboellia latifolia Wall. Bomdi-la Bomdi-la A very valuable timber tree seen in many forests in NEFA. Berberidaceae Holboellia latifolia Wall. Bomdi-la A very valuable timber tree seen in many forests in NEFA. Berberidaceae Holboellia latifolia Wall. Bomdi-la A very valuable timber tree seen in many forests in NEFA. Berberidaceae Holboellia latifolia Wall. Bomdi-la A very valuable timber tree seen in many forests in NEFA. Berberis aristata DC. Rupa 9-5-1955 Berberis aristata DC. Rupa 9-5-1955 Berberis insignis Hk.f. & T. Bomdi-la 14-5-1955 The occurrence of this species at NEFA gives it an extended distribution in the Eastern Himalayas, where it has so far been reported from E. Nepel, Sikidm and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la 16-5-1955 Corydalis leptocarpa Hk.f. & T.	Clematis buchananiana DC. var. rugosa	
Bomdi-la 12-5-1955 Aconitum palmatum D. Don. Bomdi-la 13-5-1955 Known locally as Boa Carpo and is considered as a remedy against fevers. Magnoliaceae Illicium manipurense Watt. ex King. Bomdi-la 12-5-1955 Michelia excelsa Blume Bomdi-la 16-5-1955 A very valuable timber tree seen in many forests in NEFA. Berberidaceae Hotboellia latifolia Wall. Bomdi-la 14-5-1955 Mahonia nepaulensis DC. On the way from Sisini to Jabrang 7-6-1965 Berberis aristata DC. Rupa 9-5-1955 Berberis insignis Hk.f. & T. Bomdi-la 14-5-1955 The occurrence of this species at NEFA gives it an extended distribution in the Eastern Himalayas, where it has so far been reported from E. Nepal, Sikkim and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la 16-5-1955 Corydalis leptocarpa Hk.f. & T.	Bomdi-la	13-5-1955
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Magnoliaceae Illicium manipurense Watt. ex King. Bomdi-la 12-5-1955 Michelia excelsa Blume Bomdi-la 16-5-1955 A very valuable timber tree seen in many forests in NEFA. Berberidaceae Holboellia latifolia Wall. Bomdi-la 14-5-1955 Mahonia nepaulensis DC. On the way from Sisini to Jabrang 7-5-1965 Berberis aristata DC. Rupa 9-5-1955 Berberis insignis Hk.f. & T. Bomdi-la 9-5-1955 Berberis insignis Hk.f. & T. Bomdi-la 14-5-1955 The occurrence of this species at NEFA gives it an extended distribution in the Eastern Himalayas, where it has so far been reported from E. Nepal, Sikkim and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la 16-5-1955 Corydalis leptocarpa Hk.f. & T.	Aconitum palmatum D. Don.	
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Illicium manipurense Watt. ex King. Bomdi-la	Magnoliaceae	
Michelia excelsa Blume Bomdi-la		
Bomdi-la	Bomdi-la	12 -5-1955
Berberidaceae Holboellia latifolia Wall. Bomdi-la 14-5-1955 Mahonia nepaulensis DC. On the way from Sisini to Jabrang 7-5-1955 Berberis aristata DC. Rupa 9-5-1955 Berberis insignis Hk.f. & T. Bomdi-la 9-5-1955 The occurrence of this species at NEFA gives it an extended distribution in the Eastern Himalayas, where it has so far been reported from E. Nepal, Sikkim and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la 16-5-1955 Corydalis leptocarpa Hk.f. & T.	Michelia excelsa Blume	
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Holboellia latifolia Wall. Bomdi-la 14-5-1955 Mahonia nepaulensis DC. On the way from Sisini to Jabrang 7-5-1965 Berberis aristata DC. Rupa Rupa 9-5-1955 Berberis insignis Hk.f. & T. Bomdi-la The occurrence of this species at NEFA gives it an extended distribution in the Eastern Himalayas, where it has so far been reported from E. Nepal, Sikkim and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la Bomdi-la 16-5-1955 Corydalis leptocarpa Hk.f. & T.		
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Mahonia nepaulensis DC. On the way from Sisini to Jabrang	Holboellia latifolia Wall.	
On the way from Sisini to Jabrang	Bomdi-la	14-5-1955
Berberis aristata DC. Rupa	Mahonia nepaulensis DC.	
Rupa	On the way from Sisini to Jabrang	7-5-19 5 5
Berberis insignis Hk.f. & T. Bomdi-la	Berberis aristata DC.	
Bomdi-la The occurrence of this species at NEFA gives it an extended distribution in the Eastern Himalayas, where it has so far been reported from E. Nepal, Sikkim and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la Corydalis leptocarpa Hk.f. & T.	Rupa	9-5- 1955
The occurrence of this species at NEFA gives it an extended distribution in the Eastern Himalayas, where it has so far been reported from E. Nepal, Sikkim and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la	Berberis insignis Hk.f. & T.	
Eastern Himalayas, where it has so far been reported from E. Nepel, Sikkim and Bhutan. Fumariaceae Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la		1 4- 5-1955
Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la	Eastern Himalayas, where it has so far been reported from E. Nepal, Sikkim	
Dactylicapnos scandens (Walp.) Hutchin. Bomdi-la	E	
Corydalis leptocarpa Hk.f. & T.		
40 Z 404P	Bomdi-la	16-5-1955
40 Z 404P	Corydalis leptocarpa Hk.f. & T.	
	• •	12-5-1955

Cruciferae

Cardamine hirsuta Linn.	
Bomdi-la	14-5-1955
Brassica napus Linn.	
Bomdi-la This species which is reported to be grown as an oil-seed crop in Japan, is found to grow in a wild state in the NEFA also. The cultivation of this species in this country would seem merit consideration for the oil the seeds yield.	13-5-1955
Capparidaceae	
capparis multiflora Hk.f. & T.	
Sisini	6-5-1955
Violaceae	
Viola hookeri T. Thoms.	
Bomdi-la	13-5-1955
Viola distans Wall.	
On rock cuttings and slopes of hills, all along the way from Sisini to Jabrang. Flowering.	7-5-1955
Polygalaceae	
Polygala sibirica Linn.	
Rupa	9-5-1955
Caryophyllaceae	
Cerastium vulgatum Linn.	
Rupa	9-5-1955
Drymaria cordata Willd.	
Bomdi-la At NEFA, it is gathered at an altitude above 8500 ft. which is of interest. This species has been claimed as useful as ground-cover for preventing soil erosion, particularly on steep slopes. The plants were noticed bearing tiny flowers during the season.	14-5-1955
Hypericaceae	
Hypericum hookerianum W. & A.	
Bomdi-la (NEFA) Locally this species is known as Ong Buja, and the local people of the hills claim that it is used as a tea-substitute.	13-5-1955

Ternstroemiaceae

Ternstroemiaceae			
Pyrenaria barringtoniaefolia Seem.			
On the way from Sisini to Jabrang		•	7-5 -1955
Camellia sinensis (Linn.) O. Kuntze.			
Bomdi-la Grows in a wild state in the forests about Bomdi-la at higher elevations	 i.	•	18-5-1955
Camellia drupifera Lour.			
Bomdi-la			1 8- 5-1955
Malvaceae			
Malva verticillata Linn.			
Rupa The leaves and tender shoots are boiled and eaten as spinach with rice		•	9-5-1938
Tiliaceae			
Elaeocarpus lanceaefolius Roxb.			16-5-1955
Bomdi-la		•	10-0-1900
Elaeocarpus sp. (varunua Ham.?).			
Bomdi-la		•	18-5-1955
Geraniaceae Geranium nepalense Sweet.			
On the way from Rupa to Bomdi-la			19-5-1955
The root yields a red colouring matter, used to colour medicinal oils.	, ,	·	
Impatiens tripetala Roxb.			0 5 1055
Sisini	•	•	6-5 -1955
Impatiens radiata Hk.f.			
On the way from Rupa to Bomdi-la	•	•	10-5-1955
Rutaceae			
Zanthoxylum oxyphyllum Edgew.			
Borndi-la	•	•	1 6- 5-1955
Skimmia laureola Hk.f.			
Bomdi-la			18-5-1955
Meliaceae			
Munronia sp.			
Bomdi-la			13-5-1955
Boiliui-ia			
Ilicaceae			
Ilex dipyrena Wall.			14-5-1955
Bomdi-la			14-0-1999
Ilex godajam Colebr.			** * ***
Bomdi-la			11-5-1955

Celastraceae

T 1 21 4 11 11	0014.			•						
Euonymus bullatus Wall. Bomdi-la		•			•	•				18-5-1955
Euonymus frigidus Wall. var. elongatus Bomdi-la	i. 	•							. 13,	/1 4- 5-1955
Euonymus griffithii Kurz. Bomdi-la							•			12-5-1955
Euonymus theaefolius Wall. Between Bomdi-la and Rupa. F	lowering									19-5-1955
Euonymus sp. Between Bomdi-la and Rupa			•		•		•			10-5-1955
	Vii	tace	2 P							
Parthenocissus himalayana (Laws.) Plan			40							
B omdi-la		•	•		•		٠	•	•	18-5-1955
Tetrastigma serrulatum Planch. On the way between Rupa and	Bomdi-la	١,								10-5-1955
Cayratia japonica (Thunb.) Gagnep. Sisini	 s not mer				Flora	of E	Britis		ia.	6-5-1955
	Sapi	n d a	cea	.						
Acer hookeri Miq. Bomdi-la This is known locally as Karsin		•			Ny for	mal	King	wood	Ien	13-5-1955
utensils.										
Acer campbellii Hk.f. & T.										
Bomdi-la Flowering. It is known locally planks and making tea-boxe								tree :	for	16-5-1955
Turpinia pomifera DC.(?)										
Bomdi-la					•	٠	•			16-5-1955
	Sal	o i a c	e a e							
Meliosma pungens Wall.										
Bomdi-la		•	•		•	•	•	•	•	16-5-1955
Coriaria nepalensis Wall.	Cori	aria	ı c e a	e						
Rupa	ly during k-moth.	the It is a	season also va	. The luable	plant as a t	is k an-yi	know leldir	n to ng pla	be int.	9-5-1955

Entada phuseoloides Linn.	
Beyond Sisini, on the way to Jabrang (Bompula camp)	7-5-1955
Indigofera dosua Ham.	
Rupa On very dry mountain slopes in quite exposed places, sometimes associated with Pteridium aquilinum (L) Kuhn. Flowering and fruiting during the season.	9-5-1955
Albizzia stipulata Boiv.	
Rupa I met with a tree in beautiful blossom, growing on the gravelly bank of the river Rupa-Narain at Rupa. The wood is useful for making tea-boxes and packing cases. Also used for planking and dug-outs, well-curbs, turnery articles, etc. The gum of the tree is also useful for sizing paper.	19-5-1955
Rosaceae	
Prunus nepalensis Ser. Bomdi-la	17-5-1955
Prunus sp.	
Bomdi-la	13-5-1955
Spiraea bella Sims.	
Bomdi-la	12 - 5-1 95 5
Spiraea sp.	
B omdi-la	12-5-1955
Neillia rubiflora D. Don.	
Bomdi-la	13-5-1955
Rubus calycinus Wall.	
Bomdi-la	12-5-1955
Rubus paniculatus Sm. Bomdi-la	12-5-1955
Rubus alpestris Blume. Jabrang The plant is known locally by the name Charchoreh, and is a fibre-yielding plant	8 -5-1955

Bomdi-la

for making ropes.

Rubus lineatus Reinw.		
Bomdi-la The fruits are edible. Locally known as Singnonmoon.	•	. 13-5-1955
Rubus macilentus Camb.		
On the way from Rupa to Bomdi-la	•	. 10-5-1955
Rubus ellipticus Smith.		
Rupa The fruit is edible and has the flavour of rasp-berry and considered to be the best wild fruits. Fruiting and flowering.	one o	. 9-5-1955 of
Rubus biflorus Ham.		
Bomdi-la	•	1 2- 5-1955
Rubus rosaefolius Smith.		
Between Rupa and Bomdi-la	•	. 10-5-1955
Fragaria indica Andr. Bomdi-la The plant was collected above 8500 ft. altitude. Watt reports that the indistraw-berry yields abundantly a very insipid fruit which, however, of much improved by cultivation.	_	
Potentilla fulgens Wall.		
Bomdi-la		. 14-5-1955
Potentilla kleiniana Wight.		
Between Rupa and Bomdi-la	•	. 10-5-1955
Docynia sp. Bomdi-la		. 14-5-1955
Eriobotrya petiolata Hk.f.		
Bomdi-la		16-5-1955
Pyrus pashia Ham. Rupa		19-5-1955
Pyrus microphylla Wall.		
Bomdi-la		13-5-1955
Photinia integrifolia Lindl.		
Bomdi-la		12-5-1955
Pourthiaea arguta Done.		
Bomdi-la	 The	18-5-1955

Saxifragaceae

Astilbe rivularis Ham.	
Bomdi-la	12-5-1955
Astilbe sp.	
Rupa	9-5-1955
Chrysosplenium nepalense D. Don.	
Bomdi-la	13-5-1955
Dichtoa febrifuga Lour.	
On the way between Rupa and Bomdi-la. The plant is locally known as Goorbishah. The plant has medicinal properties. [The roots and leafy tops are employed for treatment of malarial fevers.]	10-5-1955
Deutzia staminea Br.	
Rupa	9-5-1955
Ribes glaciale Wall.	
Bomdi-la Hooker mentions for the distribution of this species, Kashmir to Bhutan in temperate and alpine Himalayas. It is seen in NEFA also, east of Bhutan.	13-5-1955
Hamamelidaceae	
Corylopsis himalayana Griff.	
Jabrang	8-5-1955
Lythraceae	
Punica granatum Linn.	
Rupa	19-5-1955
Cucurbitaceae	
Thladiantha dubia Bunge.	
Sisini	6-5-1955
Begoniaceae	
Begonia laciniata Roxb.	
Between Sisini and Jabrang and near about Bomdi-la In most of the shady and moist situations, this species is seen growing abundantly and in flowering, sometimes covering large areas on slopes.	7-5-1955

Umbelliferae

Sanicula eur Rupa	opea Lir	n. 						·	•	•	•		٠	•	•	9-5- 1955
Chaerophylla Betwe	<i>ım s</i> p. en Rupa	and E	omdi-l	a										••		10-5-1955
Oenanthe th	omsoni (C. B . C l	arke.													
Bomdi	-la .		•	•	•	•	•	•	•	•	•	•	•	. •	•	1 4- 5-1955
Coriandrum	sativum	Linn														
	i-la videly cu lowering			nder	plant	t, wa	s co	llecte	d in	a w	ild s	tate	at Bo	omdi	-la.	13-5-1955
					A	r a l	iac	ea	e							
Atalia pseud	o-ginsen	g Benth														
Bomdi	-la .		•	•	•	•	•	•	•		•	•	•	•	•	14-5-1955
Helwingia h	imalaica	Hk.f. &	т.													
B omdi	i-la		•			٠	•		•	•		٠		•		16 - 5-195 5
Hepta pleuru:	m sp.															
pl	-la . st three ants wer en possi	e seen												all	the	3/16-5-1955
Brassaiopsis	hainla S	Seem.														
	i-la rgives i reastal			the	distr	ibuti	ion a	s fro	m N	ep a l	to B	hutar	ı. It	is s	een	18-5-1955
Macropanax	oreophil	um Mic	1.													
Bornd	-		•				•									18-5-1955
Hedera nepa	lensis K	och.														
Betwe Fruit ii	en Bomeng.	di-la &	Rupa	•	•				•	•	•	٠	•		٠	19-5-1955
Gamblea cil	iata Clar	ke.														
	ng . oker's F lows mu						epor	ted f	rom	Sikki	im a	t 10,0	000 f	t. Ţ	his	8-5-1955
					C	or	nac	eac	•							
Cornus macr	rophylla	Wall.			_		•	1	-							
Flowe	i-la . ring. T re eaten	he plar by the				• own	by	the 1	name	Gar	ncha	sing,	Th	e fr	uits	13-5-1955

Caprifoliaceae

Caprifoliaceae													
Viburnum erubescens Wall.													
Bomdi-la A good substitute timber for box-wood. The timber is valuable for carving, house posts, etc.	12-5-1955												
Lonicera macrantha DC.													
Bomdi-la	13 -5-1955												
Rubiaceae													
Myrioneuron nutans Wall.													
Between Sisini & Jahrang	7-5 -1955												
Ixora sp.													
Bomdi-la	12-5-1955												
Leptodermis griffithii Hk.f.													
Bomdi-la	18-5-1955												
Rubia cordifolia Linn.													
Rupa, Jahrang	8-5-1 955												
Very common. Flowering freely, Mojitoh. Its use as a red-dye yielding plant is well-known.													
Galium triflorum Mich.													
Bomdi-la	18-5-1955												
Galium mollugo Linn.													
Bomdi-la	12-5-1955												
Valerianaceae													
Valeriana wallichii DC.													
Bomdi-la	12-5-1953												
Valeriana hardwickii Wall.													
Bomdi-la	12-5-1955												
Valetiana sp													
Bomdi-la	12-5-1955												
Compositae													
Adenostemma sp.													
Bomdi-la	1 2 -5-1955												
Dichrocephaia latifolia DC.													
Sieini	6-5-1955												
2 BSI/56	4												

	iactis nepalensi	s Less															
	Bomdi-la		•	•	•	•	•			•	•	•	•				12-5-1955
Cong	yza japonica L	ess.															
	Bomdi-la	•	•	•	•	•	•	•	•	•	•	•	•	•	-	•	12-5-1955
Blun	nea aromatica	DC.															6-5-1953
	Sisini .	•	•	•	•	•	•	•	•	•	*	٠.	••	••	•	•	0-0-1800
Anap	ohalis cinnamo: Bomdi-la	mea C	larke														13-5-1955
Anar	ohalis araneosa	DC.															
•	Bomdi-la							•									13-5-1955
Gnap	ohalium luteo-a	lbum	Linn														
	Rupa On very dry,	much	ехр	osed	mot	ıntalı	n slo	pes.	•	.•	.•			٠.	٠,	• **•	9-5-1955
Gnap	halium luteo-a	lbum	Linn	. var	. mı	ıltice	ps. (Wall.	ex	DC.)	Hk.f						
	Rupa		•		٠	•			•		•	•	•		•		9-5-1955
Bider	ns biternata (L	our) N	lerr.	& S!	herfi	:. :											
	Rupa	•	•	•	•	•	٠		•	•	•	•	•	•	•		9-5-1953
Artemesia vulgaris Linn. Bomdi-la																	
	This species v								ector	ant a	nd a	nthel	mint:	c, is	wor	thy	13-5-1955
Gynu	This species v	eration							ector	ant a	nd a	nthel	mint:	c, is	wor	th <u>y</u>	13-5-1955
Gynu	This species v of conside	eratior a DC.	ı for	exte	nsiv	e cul	ltivat	ion.	ector.	ant a	nd a	nthel	mint:	c, is	wor	th <u>y</u>	13-5-1955 9/10-5-1955
	This species v of consider ra pseudo-chine	eratior a DC. betwo	ı for	exte	nsiv	e cul	ltivat	ion.	ector	ant a	nd a	nthel	mint	c, is	wor	thy	
	This species v of considera ra pseudo-chine At Rupa and	eratior a DC. betwo	ı for	exte	nsiv	e cul	ltivat	ion.	ector.	ant a	nd a	nthel	mint	c, is	wor	thy.	
Senec	This species v of considera pseudo-chine At Rupa and rio densiflorus v Bomdi-1a	eratior a DC. betwo	ı for	exte	nsiv	e cul	ltivat	ion.	ector.	ant a	nd a	nthel	· mint:	c, is	wor	th <u>y</u>	9/10-5-1955 12-5-1955
Senec	This species v of considera pseudo-chine At Rupa and rio densiflorus V Bomdi-la	eratior a DC. betwo	ı for	exte	nsiv	e cul	ltivat	ion.	·	ant a	nd a	nthel	mint:	c, is	wor	thy.	9/10-5-1955
Senec	This species v of considera pseudo-chine At Rupa and tio densiflorus v Bomdi-la tio sp. Bomdi-la	eration a DC. betwo	een l	exte	nsiv	e cul	ltivat	ion.	·	ant a	nd a	nthel	mint	c, is	wor	thy.	9/10-5-1955 12-5-1955
Senec	This species v of considera pseudo-chine At Rupa and rio densiflorus v Bomdi-la rio sp. Bomdi-la	a DC. betwo	een l	exte Rupa	&	Bomo	di-la			ant a	nd a	nthel	mint	c, is	wor	thy.	9/10-5-1955 12-5-1955
Senec Senec Cnicu	This species v of considera pseudo-chine At Rupa and rio densiflorus v Bomdi-la rio sp. Bomdi-la s argyracanthu Rupa	a DC. betwo	een l	exte Rupa	&	Bomo	di-la				nd a	nthel	mint	c, is	wor	thy.	9/10-5-1955 12-5-1955 13-5-1955
Senec Senec Cnicu	This species v of considera pseudo-chine At Rupa and rio densifiorus v Bomdi-la rio sp. Bomdi-la s argyracanthu Rupa On exposed ri	a DC. betwo	eed w	exte	& :	Bomo	ltivat di-la						mint	c, is	wor	thy.	9/10-5-1955 12-5-1955 13-5-1955
Senec Senec Cnicu	This species v of considera pseudo-chine At Rupa and rio densiflorus v Bomdi-la rio sp. Bomdi-la s argyracanthu Rupa On exposed ries khasianus Cl Bomdi-la	a DC. betwo	eed w	exte	& :	Bomo	ltivat di-la						mint	c, is	wor	thy	9/10-5-1955 12-5-1955 13-5-1955 9-5-1955

Gerbera piloselloid Between Ru On dry expe	pa & 1	Bomo								-		٠				10-5-195 5
Стеріs silhetensis . Rupa .	Hk.f.					•	•		•		•			•		9-5-1955
Lactuca sagittarioi	des Cla	arke.														
Rupa .		•	•		•	•	•		•							9-5-1955
Sonchus oleraceus Bomdi-la	Linn.	•									•					13-5-1955
Sonchus arvensis I Rupa	inn.	•		•	٠			•	•	•			•			9-5-1955
Erechithites valeri	anaefol	ia D	C.													
Sisini .		•	•	•							•		•		•	6-5-1955
					a											
					U a i	m p	a n u	Ha	c e a	е						
Lobelia pyramidali Between Bo			lupa				•			-	•	•				19-5-1955
Wahlenbergia prain Bomdi-la .	niana V	Vatt.		•												13-5-1955
Campanula sylvati	a Wali															
Rupa .					•				•	•	•	•			•	9-5-1955
					V :	3 C C	ini	асе	ae							
Agapetes auriculate	ı Hk.f.															
Sisini .	•			•		•	•	•	•	•		•		•		6-5-1955
Agapetes discolor (Clarke.															
Sisini .		•	•	•	•	•	•	•	•	•	•	•	•	•	•	6-5-1955
Vaccinum nummulo	ıria Hk	.f. &	т.													
Bomdi-la .	•	•	•	•	ě	•	•	•	•					•	•	12-5-1955
Vaccinum venosum	Wight.															18-5-1955
Bomdi-la	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	10-9-1999
Vaccinum dunaliani	ım Wig	ght.														
Bomdi-la	•		•					•	•	•	•	•	•	•		16-5-1955

Ericaceae

Gaultheria griffithiana Wight.											
Jabrang	8-5-1955										
Leucothoae griffithiana Clarke.											
B omdi-la	14- 5-1955										
Andromeda elliptica Sieb. & Zuce.											
Between Bomdi-la & Rupa	19-5-1955										
Andromeda formosa (D. Don.) Wall.											
Jabrang	8-5-1955										
Enkianthus deflexus Sehn.											
Jabrang Known from East-Nepal, Sikkim and Bhutan only. Its extension to NEFA (Jabrang) is very interesting.	8-5-1 95ā										
Rhododendron vaccinioides Hook.											
Bomdi-la This species is reported by Hooker in the Flora of British India from Sikkim Himalayas and Darjeeling. Its occurrence at Bomdi-la gives the species an extended distribution.											
Rhododendron grande Wight.											
Bomdi-la Sikkim and Bhutan are the places previously known for this species. It extends to NEFA also.	18-5-1955										
Rhododendron falconeri Hook.											
Jabrang This is known abundant from East-Nepal to Bhutan. Its extension into NEFA is interesting.											
Rhododendron arboreum Sm.											
Bomdi-la Known earlier from Kashmir to Bhutan and Khasia Mountains. Gives a continuous distribution by its occurrence in NEFA.	12-5-1955										
Rhododendron niveum Hook.											
Between Sisini and Jabrang Known from Sikkim Himalayas, extends into NEFA.	7-5-1935										
Rhododendron griffithianum Wight.											
Jabrang Known from Sikkim and Bhutan, extends into NEFA.	8-5-1955										

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2	14

Rhododendron edgeworthii Hook. Rupa Reported from Sikkim and Bhutan, extends into NEFA. Rhododendron dalhousiae Hook. Bomdi-la also between Sisini & Jabrang Reported earlier from Sikkim Himalayas and Bhutan. Monotropa uniflora Linn. Bomdi-la Primulaceae Primulaceae Primula mollis Hook. Between Rupa and Bomdi-la Sisini In shady places. Myrsinaceae Maesa indica Wall. Sisini In jungles, by the side of river courses, in shady localities. Myrsinaceae Mugia maerocarpa Wall. Rupa Fruiting. Styracaceae Symplocos sp. Bomdi-la Symplocos theaefolia Buch. Ham. ex D. Don. Bomdi-la Symplocos glomerata King. Bomdi-la Symplocos pyrifotia Wall. Symplocos pyrifotia Wall.	To both the state of the state														
Reported from Sikkim and Bhutan, extends into NEFA. Rhododendron dulhousiae Hook. Bomdi-la also between Sisini & Jabrang Reported earlier from Sikkim Himalayas and Bhutan. Monotropa ceae Monotropa uniffora Linn. Bomdi-la 18-5-1965 Primulaceae Primula mollis Hook. Between Rupa and Bomdi-la 10-5-1955 Lysimachia alternifolia Wall. Sisini 6-5-1955 In shady places. Myrsinaceae Maesa indica Wall. Sisini 6-5-1955 In jungles, by the side of river courses, in shady localities. Myrsinaceae Myrsinaceae Myrsinaceae Symplocos sp. Flowering and fruiting. Styracaceae Symplocos sp. Bomdi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. Bomdi-la 18-5-1955 Symplocos glomerata King. Bomdi-la 17-5-1955 Symplocos pyrifolia Wall. Symplocos pyrifolia Wall. Jabrang 17-5-1955	Rhododendron edgeworthii Hook.														
Rhododendron dalhousiae Hook. Bomdi-la also between Sisini & Jabrang Reported earlier from Sikkim Himalayas and Bhutan. Monotropa ceae Monotropa uniflora Linn. Bomdi-la 18-5-1965 Primulaceae Primulaceae Primula mollis Hook. Between Rupa and Bomdi-la 10-5-1955 Lysimachia alternifolia Wall. Sisini 6-5-1955 In shady places. Myrsinaceae Maesa indica Wall. Sisin 6-5-1955 In jungles, by the side of river courses, in shady localities. Myrsine semiserrata Wall. Jabrang 6-5-1955 Flowering and frutting. Ardisia macrocarpa Wall. Rupa 9-3-1955 Fruiting. Styracaceae Symplocos sp. Bomdi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. Bomdi-la 18-5-1955 Symplocos glomerata King. Bomdi-la 17-5-1955 Symplocos pyrifolia Wall. Jabrang 17-5-1955 Symplocos pyrifolia Wall. Jabrang 8-5-1955		9-5-1955													
Borndi-la also between Sisini & Jabrang Reported earlier from Sikkim Himalayas and Bhutan. Monotropa ceae Monotropa uniflora Linn. Borndi-la 18-5-1965 Primula ceae Primula mollis Hook. Between Rupa and Borndi-la 10-5-1955 Lysimachia alternifolia Wall. Sisini 6-5-1955 In shady places. Myrsinaceae Maesa indica Wall. Sisini 6-5-1955 In jungles, by the side of river courses, in shady localities. Myrsine semiserrata Wall. Jabrang 6-5-1955 Flowering and frutting. Ardisia macrocarpa Wall. Rupa 9-5-1955 Fruiting. Styracaceae Symplocos sp. Borndi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. Borndi-la 18-5-1955 Symplocos glomerata King. Borndi-la 17-5-1955 Symplocos pyrifolia Wall. Jabrang 8-5-1955	Reported from Sikkim and Diutan, extends into NECA.														
Monotropa ceae Monotropa uniflora Linn. Bomdi-la 18-5-1965 Primula ceae Primula mollis Hook. Between Rupa and Bomdi-la 10-5-1955 Lysimachia alternifolia Wall. Sisinl 6-5-1955 In shady places. Myrsinaceae Maesa indica Wall. Sisini 6-5-1955 In jungles, by the side of river courses, in shady localities. Myrsine semiserrata Wall. Jabrang Flowering and frutting. Ardisia macrocarpa Wall. Rupa 9-5-1955 Fruiting. Styracaceae Symplocos sp. Bomdi-la 18-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. Bomdi-la 18-5-1955 Symplocos glomerata King. Bomdi-la 17-5-1955 Symplocos pyrifolia Wall. Jabrang 17-5-1955															
Monotropa uniflora Linn. Bomdi-la		7-5 -1 9 55													
### ### ### ### ### ### ### ### ### ##	and the second s														
### Primulaceae Primula mollis Hook. Between Rupa and Bomdi-la 10-5-1955 Lysimachia alternifolia Wall. Sisini	Monotropaceae														
### Primula ceae Primula mollis Hook. Between Rupa and Bomdi-la 10-5-1955 Lysimachia alternifolia Wall. Sisinl 6-5-1955	Monotropa uniflora Linn.														
### Primula mollis Hook. Between Rupa and Bomdi-la	Bomdi-la	18-5-1965													
### Primula mollis Hook. Between Rupa and Bomdi-la	D=i-m-ulasasa														
Between Rupa and Bomdi-la															
Lysimachia alternifolia Wall. Sisini In shady places. Myrsinaceae Maesa indica Wall. Sisini Sisini In jungles, by the side of river courses, in shady localities. Myrsine semiserrata Wall. Jabrang Flowering and fruiting. Ardisia macrocarpa Wall. Rupa Fruiting. Styracaceae Symplocos sp. Bomdi-la Styracaceae Symplocos theaefolia Buch. Ham. ex D. Don. Bomdi-la Bomdi-la Symplocos glomerata King. Bomdi-la Symplocos pyrifolia Wall. Jabrang Symplocos pyrifolia Wall. Jabrang Symplocos pyrifolia Wall. Jabrang Symplocos pyrifolia Wall. Jabrang Se.5-1935		10-5-1955													
Sisini		10-0-1305													
Myrsinaceae Maesa indica Wall. Sisini		a 5 1055													
Maesa indica Wall. Sisini 6-5-1955 In jungles, by the side of river courses, in shady localities. Myrsine semiserrata Wall. Jabrang 6-5-1955 Flowering and fruiting. 6-5-1955 Ardisia macrocarpa Wall. 8-5-1955 Rupa 9-5-1955 Fruiting. Styracaceae Symplocos sp. 16-5-1955 Bomdi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. 18-5-1955 Symplocos glomerata King. 17-5-1955 Symplocos pyrifolia Wall. 17-5-1955 Symplocos pyrifolia Wall. 8-5-1955		6-9-1822													
Maesa indica Wall. Sisini 6-5-1955 In jungles, by the side of river courses, in shady localities. Myrsine semiserrata Wall. Jabrang 6-5-1955 Flowering and fruiting. 6-5-1955 Ardisia macrocarpa Wall. 8-5-1955 Rupa 9-5-1955 Fruiting. Styracaceae Symplocos sp. 16-5-1955 Bomdi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. 18-5-1955 Symplocos glomerata King. 17-5-1955 Symplocos pyrifolia Wall. 17-5-1955 Symplocos pyrifolia Wall. 8-5-1955	• •														
Sisini 6-5-1955 In jungles, by the side of river courses, in shady localities. Myrsine semiserrata Wall. Jabrang 6-5-1955 Flowering and fruiting. Ardisia macrocarpa Wall. Rupa 9-5-1955 Fruiting. Styracaceae Symplocos sp. Bomdi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. Bomdi-la 18-5-1955 Symplocos glomerata King. Bomdi-la 17-5-1955 Symplocos pyrifolia Wall. Jabrang 8-5-1955	Myrsinaceae														
In jungles, by the side of river courses, in shady localities. Myrsine semiserrata Wall. Jabrang 6-5-1955 Flowering and fruiting. Ardisia macrocarpa Wall. Rupa 9-5-1955 Fruiting. Styracaceae Symplocos sp. Bomdi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. Bomdi-la 18-5-1955 Symplocos glomerata King. Bomdi-la 17-5-1955 Symplocos pyrifolia Wall. Jabrang 8-5-1955															
Myrsine semiserrata Wall. Jabrang \$-5-1955 Flowering and fruiting. \$-5-1955 Ardisia macrocarpa Wall. \$-3-1955 Rupa \$-5-1955 Fruiting. \$-5-1955 Symplocos sp. \$-5-1955 Bomdi-la \$-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. \$-5-1955 Symplocos glomerata King. \$-5-1955 Symplocos pyrifolia Wall. \$-5-1955 Symplocos pyrifolia Wall. \$-5-1955		6-5-1955													
Jabrang															
Flowering and fruiting. Ardisia macrocarpa Wall. Rupa		8 -5-1955													
Rupa Fruiting. 9-5-1955 Styracaceae Symplocos sp.		• • • • • • • • • • • • • • • • • • • •													
Fruiting. Styracaceae Symplocos sp. Bomdi-la	Ardisia macrocarpa Wall.														
Styracaceae Symplocos sp.		9-5-1955													
Symplocos sp. 16-5-1955 Bomdi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. 18-5-1955 Bomdi-la 18-5-1955 Symplocos glomerata King. 17-5-1955 Symplocos pyrifolia Wall. 8-5-1955	Fruiting.														
Bomdi-la 16-5-1955 Symplocos theaefolia Buch. Ham. ex D. Don. 18-5-1955 Bomdi-la 18-5-1955 Symplocos glomerata King. 17-5-1955 Symplocos pyrifolia Wall. 48-5-1955	Styracaceae														
Symplocos theaefolia Buch. Ham. ex D. Don. Bomdi-la	Symplocos sp.														
Bomdi-la	Bomdi-la	16-5-1955													
Symplocos glomerata King. Bomdi-la	Symplocos theaefolia Buch. Ham. ex D. Don.														
Bomdi-la	Bomdi-la	18-5-1955													
Bomdi-la	Simplement of Ving														
Symplocos pyrifolia Wall Jabrang		17-5-1955													
Jabrang	Approximate and the second of														
Jabrang		. R_5_1035													
Flowering.	Jabrang Flowering.	0-0-1000													

Oleaceae

						0			•							
Jasminum dispermi	ım W	all.														
Bomdi-la . Common.	•	1	•	•	1	1	٠	•	•	•	•	•	•	•	•	1 8-5- 1955
Jasminum grandiflorum Linn.																
Bomdi-la			•	•	•		•		•			•	•	•	•	18-5-1955
Osmanthus suuvis King.																
Bomdi-la	•			•		•	•	•	•		•	•	•	•	•	18-5-1955
Olea dentata Wall.																
Bomdi-la							•					•	•	•		16-5-1955
Ligustrum robustum	ı B lu	me.														
Rupa .		•		•	•	•	•	•	•		•	•		•	•	9-5-195 5
Ligustrum myrsinite	es Dc	ne.														
Bomdi-la			•	•		•	•	•	•		٠	•	•			12-5-1955
Ligustrum sp.																
Bomdi-la		•			•	•		•	•	•	•	٠	•		•	12-5-1955
					Asc	lep	ia	d a c	eae	•						
Alstonia sp.																
Rupa .		•					•									9-5-1955
Trachelospermum a	xillaτ	e Hk.	f.													
Bomdi-la	•						•									16-5-1955
					Αı	оос	y n a	асе	аe							
Hoya linearis Wall.						•	•									
Between Sisir	ni & .	Jabra	ng	•								•				7-5-1955
					L	oga	n i a	cea	a e							
Buddleia macrostaci	ıya B	Benth.				_										
Bomdi-la		•		•		•			•						•	12-5-1955
Buddleia paniculata	Wall	l.														
Rupa .																9-5-1955
This species becoming wards of frequentl	rear Bhu	er in tar. a	Sikk t NE	tim a	and I	Bhuta	an. '	The	occur	rence	e of	this	speci	es ea	st_	
Buddleia asiatica Lo	our.															
Sisini .	•	•	•		•	•	•		•		٠	•				6-5-19 55

Gentianaceae

					G	e n t	ian	ac	e a e							
Gentiana quadrifar	ia Blui	me.														
B omdi-la		•	•	•	•	•	•				•		٠	٠		14-5-195
					В	ora	gin	2 C	eae							
Cynoglossum sp.							_									
Bomdi-la			•												-	12-5-195
Cynoglossum furcat	um W	all.														
Bomdi-la	•				•						•					12-5-195
				S	cre	o n h	u l s	ria	a c e	a e						
Verbascum thapsus	Linn.			_		.										
Rupa .								•								9-5-195
Mimulus nepalensis	Benth	١.														
Bomdi-la Flowering.	٠	•	•	٠	•		٠	•	٠	•	•	•	•	•		18-5-195
Mazus rugosus Lou	г.															
Sisini . Flowering.		•	•	•	٠	•	•	•	•	•	•	•	•	•	•	6-5-195
Hemiphragma heter	ophylli	$_{im}$	Wall	١.												
Bomdi-la Flowering fre	ely.	•	٠	•	•	•	•	•	•	•	•	•	•	•	•	14-5-195
Veronica javanica E	lume.															
Bomdi-la Flowering.		•	٠	-	•	•	•	•	•		•	•	•	•	٠	1 2-5-19 5
					A	can	tha	асе	аe							
Strobilanthes agrest	is Clarl	ke.														
Bomdi-la This species e under-s	xtends hrubs i	eas	stwa: ungle	rds b es.	eyon	d Bh	iutan	and	is se	en a	t NE	FA.	Corr	nmon	as	12-5-1955
						Lal	h # a	4 0 0								
Till and an undivided and and	77					Lai	OIZL	iae	•							
Plactranthus coetsa Bomdi-la	лат. ·							•					•		•	13-5-1955
Plectranthus sp.																10 5 105
Bomdi-la	٠		•	•	•	•	•	٠	•	•	•	•		•	•	12-5-1955
Elsholtzia strobilifer	a Be n	th.														12-5-1955
Bomdi-la	•	•	•	•	٠	•	•	٠	•	•	•	•	•	•	•	12-3-1955

Calamintha umbrosa Benth.										
Sisini					•	•	•	•		6-5-1955
Ajuga macrosperma Wall.										
Between Sisini and Ja		٠								7-5-19 55
In shady and moist sit	uations.									
		Plan	tagir	nacea	e					
Plantago major Linn.			_							
Bomdi-la					•	•	•	•		12-5-1955
		Ama	ırant	aceae	,					
Amarantus gangeticus Linn.										
Sisini	• •	•			•	•	•	•	• •	6-5-1955
		Pol	ygon	aceae	!					
Polygonum posumbu Ham.										
Sisini		•			•	•	•	•		6-5-1955
Polygonum alatum Ham.										
Sisini										6-5-1955
Polygonum capitatum Ham.										
Rupa		_								9-5-1955
Flowering.										
Polygonum paniculatum Blui	me									
Bomdi-la										13-5-1955
Locally the plant is k		the nai	me Koch	iomah, a	nd is	stated	to 1	oe us	ed for	
making jelly (?)).									
Polygonum molle Don.										
Rupa		•		• •	•	٠	•	•		9-5-1955
Rumex hastatus Don.										
Rupa					•					19-5-1955
		Arist	alaci	hiace	9 P					
Aristolochia saccata Wall.	•				u 0					
Bomdi-la		•			•	•	•			18-5-195 5
		L	aura	ceae						
Cinnamomum sp.										
B omdi-la		•			•	•	-	•		16 - 5-1955
Cinnamomum tamala Nees &										
On the way to Jabran	g we saw	v a mod	lerate si	zed tree	felled,				stump	
remaining and th	е рагк ра	artiy pe	eled off.		•	•	•	•		7-5-1955
Machilus edulis King.										
Bomdi-la		. ***	1		:					16-5-1955
Reported earlier from into NEFA.	ii dikkim	ı nıma	iayas n	ear Dar	jeeling	. Ext	ends	eas	twards	

REPORT ON A BOTANICAL TOUR TO BOMDI-LA, N.E.F.A.	31
Machilus odoratissima Nees. Bomdi-la	12-5-1955
Machilus kurzii King. Between Rupa and Bomdi-la	
	10-5-1955
Actinodaphne sp. Bomdi-la Locally known as Sisi Lala and its wood used for planks.	17-5-1955
Litsaea elongata Wall.	
Bomdi-la	18-5-1955
Lindera sp. Bomdi-la	. 13-5-1955
Thymeleaceae Daphne cannabina Wall.	
Between Rupa and Bomdi-la	10-5-1955
Elaeagnaceae	
Elaegnus umbellata Thunb.	
Rupa	19-5-1955 xtends
Euphorbiaceae	
Phyllanthus parvifolius Ham.	
Rupa	19-5-1955
Daphniphyllum himalayense Muell.	
Bomdi-la	13/16-5-1955
Mercurialis laiocarpa Sieb. et Zucc.	
Bomdi-la	12-5-1955
Urticaceae	
Tragia sp.	
Bomdi-la	12-5-1955
Cannabis sativa Linn.	
Bomdi-la Plenty, seen growing wild between Rupa and Jabrang.	13-5-1955
Urtica parviflora Roxb.	
Bomdi-la, Sisini	6-5-1955

5

2 BSI/56

Ficus	<i>sp.</i> Bomdi-la								•			÷						18-5-1955
Pilea	symmeria \ Bomdi-la	Wedd.	•		•		•					•						1 2 -5-1955
Lecan	ithus wighti B omdi-la	i We	dd.		•						•							13-5-1955
Elato	stema lineol Sisini	atum	Wig	ght.														6-5-1955
Elato	stema platyj Sisini	phylli	um \	Wedd			•									•,		6-5-1955
Elato	stema obtus Bomdi-la	um V	Vedd	l.			•							,				1 8 -5-1955
Enge	lhardtia spio Bo mdi-la	cata 1	B1.				•	gla: · etu					٠					17-5-1956
Betu	la alnoides 1	Ham.					D	eıu	пас	ea	е							
	Borndi-la		•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	14-5-1955
Betu	Bomdi-la a Here and istical	and o	n th	e wa	ivitie					ge tr		with	the	bark:	s, ch	aract	er-	12-5-1955
Que1	cus griffithii Rupa All along			in m	any	place	s. <i>I</i>	Abun	d a nt	near	Rup	•a.						9~5-1955
Quer	cus lanugin Rupa	osa I	Oon.		•	•	•		•									9-5-1955
Quei	cus lamello: Bomdi-la	sa Sn	ni th .	٠			•								•	•		16-5-1955
Pasa	nia spicata Bomdi-la	(Smi	th) (Derst				•	•	•	•			•				18-5-1955
							S	ali	ca	c e a	e							
Sali	r sp. Bomdi-la									•								14-5-1955

Coniferae

	•											
Taxus baccata Linn.												
Bomdi-la	•	•	•			•			•			18-5-1955
Pinus excelsa Wall.												
Rupa	•	•	•	•	•	•		•	•	٠		9-5-1955
Tsuga brunoniana Carr.												
Jabrang Locally known as Devaloh, is sa oil is used for burning purp	id to oses.	yiel	dal	kind	of	turpe:	ntine	and	resir	ı. T	he	8-5-1955
	0 r	e h i	d a	cea	е							
Dendrobium nobile Linds.												
Between Bomdi-la and Rupa . On rocks with mossy felt, plenty	and	flow	ering	hea	vily	·.	•		•		•	19-5-1955
Dendrobium dalhousicanum Woll.												
Jabrang Common.	•		•		•	•	•	٠		•	•	6-5- 1955
Bulbophyllum griffithii Reichb.												
Bomdi-la	hills	only		•	•	•	•	٠	•	•		1 8-5- 1955
Bulbophyllum collettii King & Prantl.												
Bomdi-la			•			•	•			•		16 -5-1955
Cirrhopetalum brevipes Hk f												
Bomdi-la Known from Sikkim Himalayas	near	Dar	jeelir	ng.	•	•	•	•	٠	•	•	1 8-5-19 65
Eria graminifolia Lindl.												
Bomdi-la Known at Sikkim Himalayas.	•	•	•	•		٠	٠	•	•	•	•	13-5-1955
Coelogyne corymbosa Lindl.												
Jabrang			•	•		•	•		•	•	٠	8- 5-1955
Otochilus alba Lindl.												
Sisini	•	•	•	•	•	•	•	.4	•	•	•	8-5-195 5
Calanthe chloroleuca Lindl.												
Bomdi-la Known from Sikkim Himalayas.	•	•	•		•	•	•			•	•	13-5-1 95 5
Stauropsis undulatus Benth.												
Jabrang			•	•	•		٠	,			*	8-5-1 9 5 7

Galeola falconeri Hook.												
Sisini We collected two impressive and in one of the thick forests	. The	e pla	nts v	vere	larg	e un	d th	e ro	ot-stc	ock v	ini vas	6-5-1955
as thick as a man's wrist, th	ie stei	n atta	ainin,	gal	reigh	t of	5 to	5 <u>1</u> ∪	r 6 fe	et.		
Paphiopedilum insigne (Wall.) Pfitz.												
Bomdi-la	•	•	•	•	•	٠	•	•	•	•	•	14-5-1955
Ritaia himalaica King & Prantl.												
Sisini	1 the	Flora	of l	Britis	sh In	dia.	•	•	٠	•	٠	6-5-1955
	S	ita	m i i	nea	e							
Cautleya spicata Baker.												
Between Rupa and Bomdi-la	•	•		•	•	•	•	•	•	•		10-5-1955
	Hae	m o	d o r	a c	eae							
Ophiopogon wallichianus Hook.												
Jabrang				• *	•	٠		•	,	•		8-5-1955
Ophiopogon intermedius Don.												
B omdi-la	•	•	•	•	•	•		•	•		•	12-5-1955
	A m a	ary!	llid	lac	eae	•						
Curculigo orchioides Gaertn.		·										
Sisini	•	•	•	•	•	•	•	•	•	•	•	6-5-1955
]	Lili	a c e	ае								
Smilax rigida Wall.												
Bomdi-la	•	•				•			•		•	12-5-1955
Smilax parviflora Wall.												
Bomdi-la	•		•	•								13-5-1955
Smilax minutiflora A. DC.												
Bomdi-la			: .		<i>:</i> .	•						13-5-1955
Locally known as Drumen. To outside as a remedy agains									and	ap p l	ied	
Polygonatum nervulosum Baker.												
Jabrang												8-5-1955
Polygonatum punctatum Royle.							•	-	•	•	•	
Bomdi-la	_											13-5-1955
	•	•	•	•	•	•	•	•	•	•	•	1.,-,,-1333
Streptopus simplex D. Don. Bomdi-la												0
	•	•	•		٠	•	٠	•	•	•	•	13-5-1955

Smilacina pallida Royle. Bomdi-la			 . 14-5-1955
Smilacina fusca Wall. Bomdi-la			 . 14-5-1955
Tupistra aurantiaca Wall. Between Rupa and Bomdi-la			 . 19-5-1955
Lilium giganteum Wall. Rupa to Bomdi-la		• • •	. 10-5-1955
Disporum pullum Salisb. Rupa			 . 9-5-1955
Paris polyphylla Sm. Between Rupa and Bomdi-la			 . 10-5-1955
C o m m	elinaceae		
Commelina obliqua Ham. Sisini			 . 6-5- 1955
Streptolirion volubile Edgew. Sisini	• • •		 . 6-5-1955
Δ.			
Arisaema cuspidatum (Roxb.) Engler.	aceae		
Bomdi-la			 . 12-5-1955
Arisaema consanguineum Schott. Rupa to Bomdi-la			 . 10-5-1955
Сур	eraceae		
Carex filicina Nees. Bomdi-la			 . 12-5-1955
Gra	mineae		
Chimonobambusa callosa Nakai. Bomdi-la			 . 18-5-1955
Bambusa sp. Bomdi-la			 . 18-5-1955

PTERIDOPHYTA

Pteridaceae

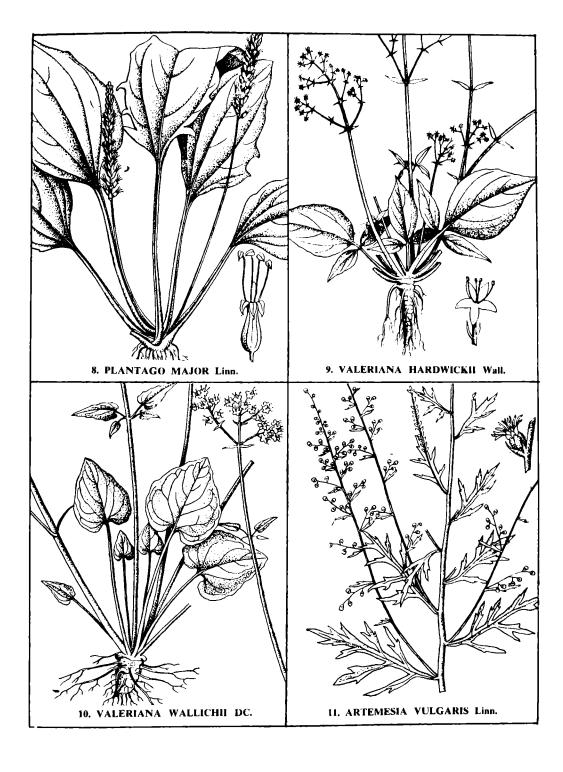
Monachosorum subdi Bomdi-la	gitatum 	Kuhn.							٠						1 8- 5-1955
Pteridium aquilinum Sisini .	(L) Kuh	u.			•						٠			•	6-5-1955
Coniogramme javani Bomdi-la	ca Fée.		•												13-5-1955
				A:	spi	dia	c e a	ı e							
Aspidium aculeatum	Sm. var	setos	um \	Vall.											
Bomdi-la Very common.		•	•	•	•	•	•	•	•	٠	٠	•	٠	•	14-5-1955
Polystichum squarros Bomdi-la A very hardy				š.			•	•							1 2-5 -1955
Polystichum falcatun Bomdi-la	ι (L.F.)] 		•							•	•	•	•		12-5-1955
Polystichum aculeatu Bomdi-la	m (L) S	chott.					,					•			12-5-1955
Dryopteris hirtipes C Bomdi-la	. Chr.			,						•	•				13-5-1955
				A s	ple	nia	асе	аe							
Asplenium nidus Lim	n.														
Sisini .		•	•	•	•	٠	•			•		٠			6-5-1955
Asplenium laciniatun Sisini Grown as orna						•	•	•	•						6-5-1955
Asplenium ensiforme Jabrang	Wall.							,							8-5-1955
			1	P o 1	y n	o d i	ace	ae							
Polypodium excavatu Between Bome	-		ld.										,		19-5-1955
Pleopeltis thunbergia Bomdi-la	na Kauli	f.		•	ı						·	·	,	•	-
		•	•	•	•	•	•	•	•	•	•	•			16-5-1955

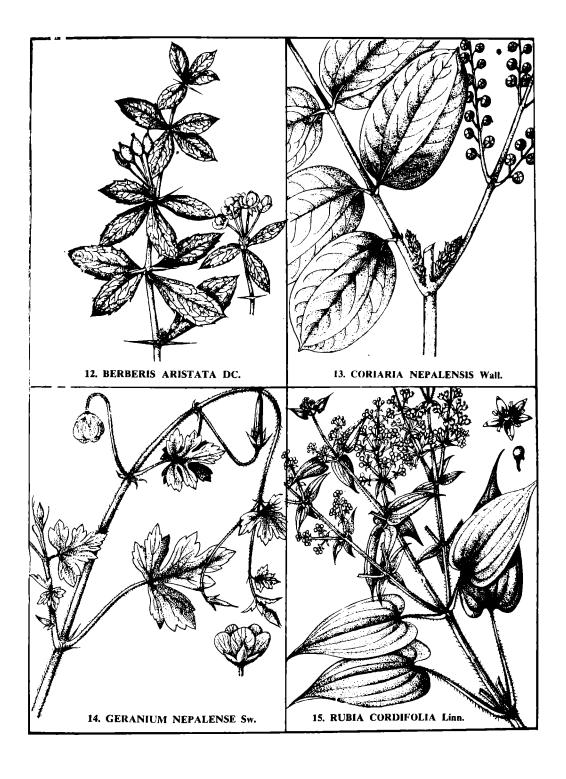
Drynaria quercifolia Bomdi-la	J. Smith														16-5-19 55
Crypsinus griffithianu Bomdi-la	s Copela	nd.													13-5-1955
Loxogramme involut	u Presl.		·	·			٠	•	•	•	•	•	•	•	10-0-1500
Bomdi-la	• •	•	٠	٠	•		٠	•		•	•	•	•	•	13-5-19 55
Cyclophorus flocculos	us (Don.)) C.	Chr.												
Bomdi-la	• •	•	٠	•	•	٠	٠	•	•	•	•	•	•	•	11 -5 -1955
				V i	tta	r i a	се	2 e							
Vittaria elongata Sw. Bomdi-la	• •														12-5-1955
				1	оро	. 4 4	• • •								
Lycopodium clavatum	ı Linn.			Lyc	o p o	941	асч	ae							
Bomdi-la	•	•	•	•	•	•	•	•	•	•	•	٠			14-5-1955
			1	Sel	a g i i	nel	l a c	e a	e						
Selaginella caulescens Jabrang															8-5-1955
Equisetum diffusum l Between Sisini On the banks rocks and	and Jal	cou	_		uis ravel				in		e, in	cre	vic e s	of	7-5-195 5
				В	RYO	PH	YTA								
			I	Маг	c h a	nt	i a c	e a c	е						
Marchantia polymorp Sisini .							•								6-5-1955
Marchantia sp. Sisini .															6-5-1955
															
Dumortiera hirsuta R Sisini .	einw. Bi.						•								6-5-1955
				Та	rgi	on:	асе	ае							
Targionia hypophylla Sisini													٠		6-5-1955
					LIC	HEN	IES								
				P a	rm e	lia	ce:	a e							
Parmelia sp. On trunks of t	rees and	also	on d	ігу го	cky f	aces	at m	nany	plac	es.					
The state of the															
) 3 H	cav	e a	•							

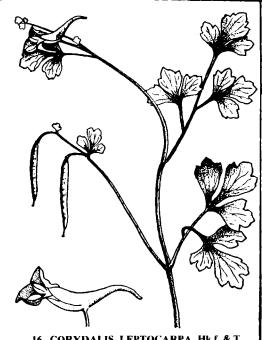
KAMENG DIVISION (NEFA)

Synopsis of the Collections determined

Classificatio n '		F.	milie	8				Gen	era.				Specie	'В	
I. CRYPTOGAMAE					12					22					27
(i) Thallophyta	2			2		,			2					2	
(ii) Bryophyta	2			2					3					4	
(iii) Pteridophyta				8					17					21	
(I) Filicione .	5			 		14					18				.,
(2) Lycopodinae .	2			ļ 		2					2				
(3) Equisctione	1										1				
						1	••		٠٠	••	1		•••	••	••
II. PHANEROGAMAE .					74	٠٠			'	193	••				264
(i) Gymnospermae .				1					3					3	
(1) Coniferae .	1					3					3				
(ii) Angiospermae .				73					190					261	
(A) Monocotylae .			9					28					3 6		
(B) Dicotylae .			64					162					225		
(a) Polypetalae .							72					95			
(1) Thalamiflorac	13	32				22					26				
(2) Discissorae .	9					14					21				
(3) Calyciflorae.	10		١			36					48				١.,
(b) Gamopetalae .		21					64					92			
(c) Monochlamydae .		11					26					38			
TOTALS .	 				86					215					291



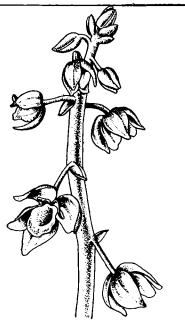




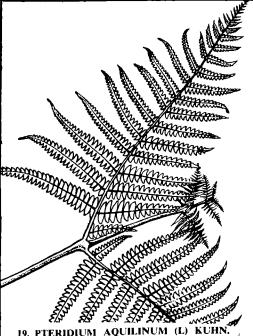
16. CORYDALIS LEPTOCARPA Hk.f. & T.



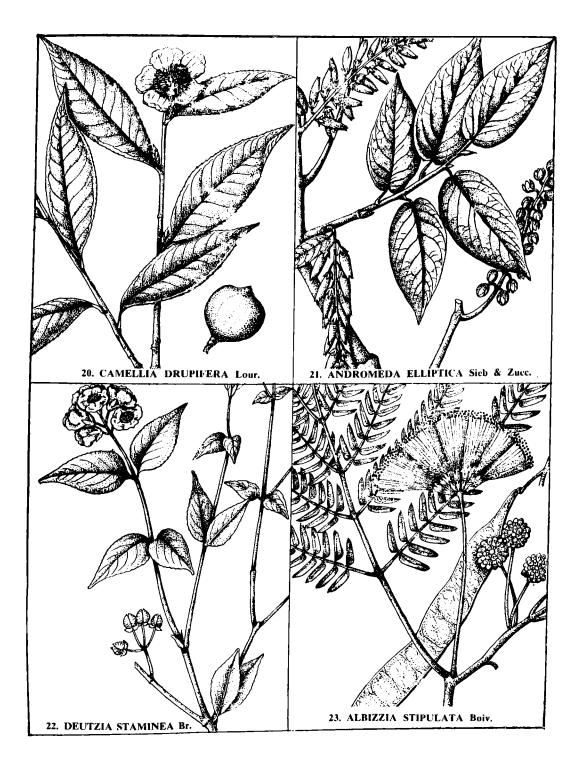
17. MYRSINE SEMISERRATA Wall.

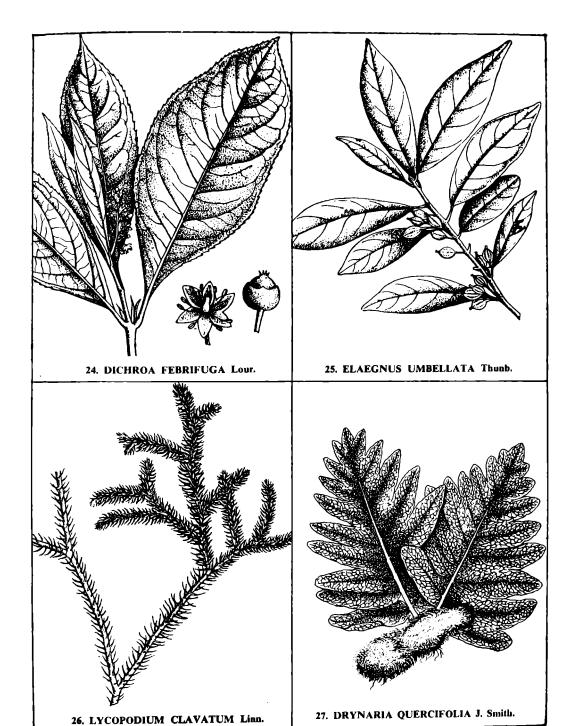


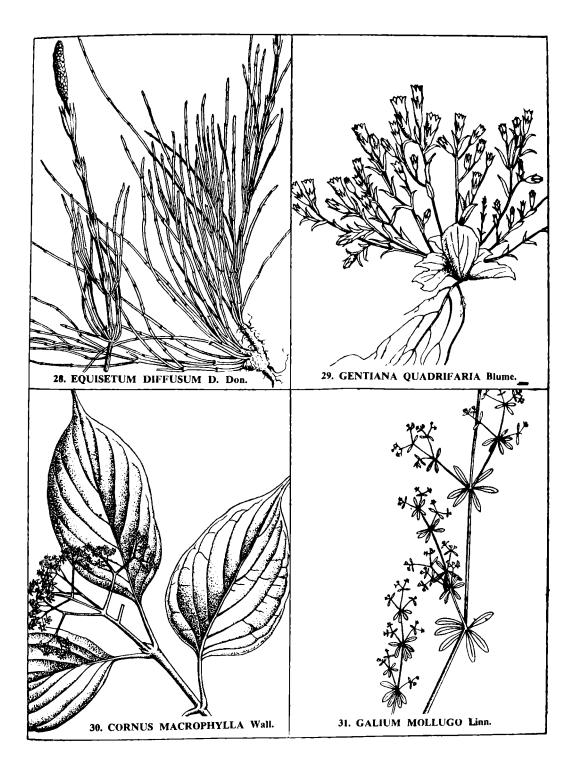
18. GALEOLA FALCONERI Hk. f.

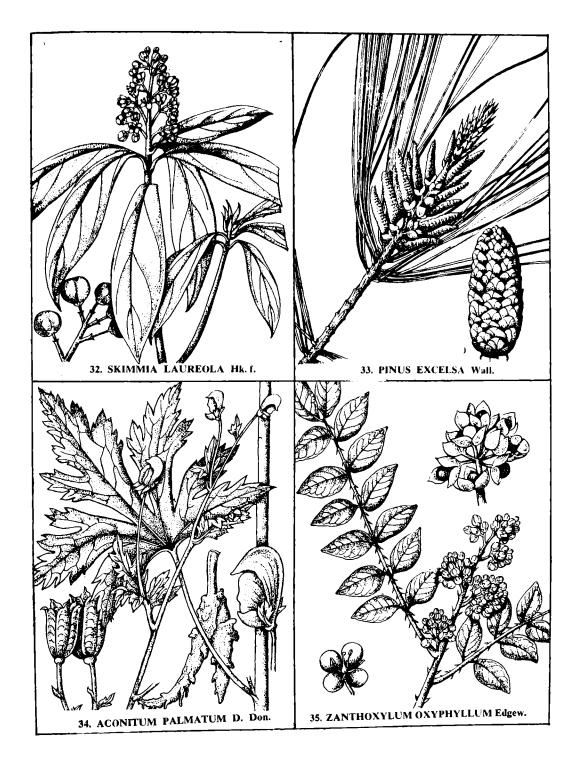


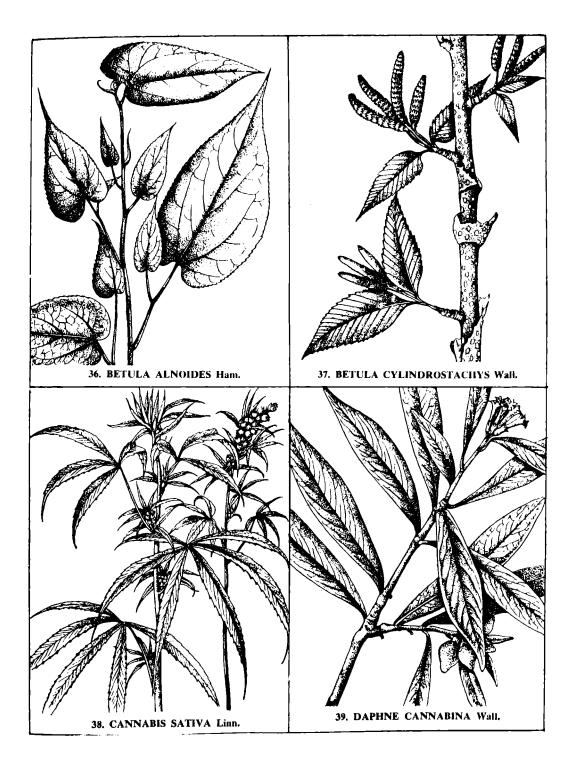
19. PTERIDIUM AQUILINUM (L) KUHN.











List of Agents for the sale of Government of India Publications as on 7-12-56—contd.

DHUBRI (ASSAM)— The Students Library (R).

ERNAKULAM— Bharat Stores. Probhat Book House (R).

FEROZEPORE— Euglish Book Depot.

GUNTUR— Bharat Book Centre, Globe Traders,

GORAKHPUR (U. P.)— Halchal Sahitya Mundir (R),

GWALIOR— M. B. Jain & Brothers. Saraswati Sadan (Loyal Book Depot). *Supdt., Ptg. & Sty. (M.B.).

HOSHIARPUR— Universal Book Stores.

HYDERABAD (DN.)—

*Director, Govt. Press (Publication Bureau).
Hyderabud Book Depot.
Peoples' Book House, Nizamabad Road.
swaraj Book Depot, 1368, Lakri-ka-pul.

HANAMKONDA— Deccan Book Stall,

INDORE— Rupayama Rampur Wala Buildings. Shri Indore Book Depot, 33, Mahatma Gandhi Road. Wadhwa & Co., 56, Mahatma Gandhi Road.

JAIPUR CITY— Garg Book Co., Tripolia Bazar. Rajasthan Pustak Mandir, Tripolia Bazar "Goot, Ptg. & Sty. Depti., Rajasthan. Vani Mandir, Sawai Mansingh Highway.

JAMMU (TAWI)— Jūrishna General Stores, Itaghu Nath Bazar, Students' Stores, Raghu Nath Bazar,

JAMSHEDPUR— Amar Kitab Ghar, Diagonal Road, P. B. No. 78.

JAMNAGAR— Swadeshi Vastu Bhandar.

JODHPUR—
Dwarka Dass Bathl.
Kitab Ghar, Sojati Gate.
Chopra Brothers, Tripolia Bazar.
Mahesh Book House (R).

JUBBULPORE—
Modern Book House, Jawaharganj.

JULLUNDUE CITY—
Hazooria & Sons, Mai Hiran Gate.
Jain General House.
University Publishers.
International Book & News Co., G. T. Road (R).

KANPUR— Advani & Co. Sahitya Niketan. Universal Book Stall, The Mall.

KARNAL— Malhotra & Co.

KHANDWA—
The Suresh Trading Co.

KHURJA— Bharati Mandir, 31-C, Nai Basti.

KOLHAPUR— Maharashtra Grantha Bhander (R).

KODARMA— The Bhagwatl Press, P. O. Thumsitelaiya, KOTTAYAM—
The Vidyarthi Mittram Book Depot, P. B. No. 8.

KUMTA— S. V. Kamat.

KAPASAU (RAJABTHAN)— Namdhar Brothers (E).

KURNOOL— Fineland Agencies (Regd.).

KOZUIKODE--K. P. Brothers (II).

LUCKNOW—
Balkrishna Book Co., Ltd., Hazratgan).
Brittah Book Depot, 84, Hazratgan).
Law Book Agency, 29-4, Kachery Boad.
Ram Advani, Hazratgan).
Universal Publishers Ltd., Plaza Bldgs.
Upper India Publishing House Ltd., Literature Palace,
Soochna Sahitya Depot (State Book Depot, U. P.).

LUDHIANA— Loyall Book Depot. Mohindra Brothers (R).

IADRAS—
Accounts Test Institute, P. O. 760, Egmore,
C. Subhish Chetty & Co., Triplicane,
Higginbothams.
R. Krishnamurty, Mount Road,
Presidency Book Supplies, 8, Pycrofts, Triplicane,
*Supdt., Gost. Press, Mount Road.
Varadhachary & Co.
Simham Publishing Co.

MADURAI— E. M. Gopal Krishna Kone, North Chitra Street. Viveka Nanda Press, 48, West Masi Street.

MANDSAUR-Sikhwal News Agency.

MANGALORE— U. R. Shenoy & Sons, Car Street.

MASULIPATNAM— Triveni Publishers. M. Seshachalam & Co.

MERRUT— Hind Chitra Press. Loyall Book Depot, Chilpi Tank. Universal Book Depot. Prakaah Educational Stores.

MORADABAD— National Book Depot.

MYSORE—
H. Venkataramiah & Sons, New Statue Circle.
J. Nanu Mal & Sons, Lansdown Bidge.
Chandra Stores, Now Statue Circle (E).

NAGPUR—
*Suptt., Govt. Ptg. (M. P.).
New Book Depot, Modi No. 3, SitabuldiWestern Book Depot.

NAINITAL— Consul Book Depot.

EW DEIMIAjmeri Gate Paper & Sty. Mart., 1/8B, Block, Ajmeri Gate
Extn.
Amrit Book Co., Connaught Circus.
Bhawnani & Sons, Connaught Place.
Contral Naws Agency, Connaught Circus.
Empire Book Depot, 278, Aliganj, Loddi Road.
English Book Stores, 1'c Block, Connaught Circus.
Faqir Chand Marwoh & Sons, Khan Market.
Jain Book Agency, Connaught Place.
Luxni Book Store (R),
Hind Book House (R).
Jayna Book Depot, Bank Street, Karol Bagh.
Navjug Traders, Original Road, Karol Bagh.
Oxford Book & Statlonery Co., Scindla House.

(111)

List of Agents for the sale of Government of India Publications as on 7-12-56--concld.

NEW DELHI—contd.

Ram Krishna & Sons (of Lahore), 13/13, Connaught Place.

Baj Book Depot, 1, Bengali Maj Market.

Barawast Book Depot, 15, Lady Hardinge Road.

Sikh Publishing House Ltd., 70/0, Connaught Place.

Mchra Brothers, 50-0, Kaikhil.

Suneja Book Centre, 24/90, Connaught Circus.

Taneja Book & Stationery Mart, Baisina Road,

United Book Agency, 47 Amritkaur Market, Paharganj.

Venus Sales Corp. (R), Karol Bagh New Delhil.

ONGOLE— Shri D. Sreekrishnamurty, Prop. Abiyudaya Book Circulating Co.

PATHANKOT— The Krishna Book Depot,

PATIALA-Jain & Co., Bazar Shah Nashin.
*Supdt., Bhupendra State Press.

PALGHAT— Bhri V. K. Ramalingam, Vadakkanthara (R).

PATNA-ATNA—
Book Centre, Near B. N. College.
Pahuja Brothers, Rajendra Path (R).
Scientific Book Co. (R).
Novelty & Co. (R).
"Supdt., Govt. Printing, Bihar.
J. N. P. Agarwala & Co., Padri-ki-Havell.
Lakahmi Trading Co., Padri-ki-Havelf.
Moti Lal Banars).

OONA—
Deccan Book Stall, Ferguson College Square Road,
Imperial Book Depot, 266, Main Street.
International Book Service, Deccan Gymkhana,
N. B. Bladerao, 602 Shauwar Peth.
Baka Book Agency.

PUDUKKATTAI— P. N. Swamlnatha Siyam & Co., East!Main Street,

HAJKOT — Mohan Lal Dossabhai Shah.

RAIPUR— Kasimud-Din & Sons, Gole Bazar (R).

ROORKEE (U. P.)— Cambridge Book Depot (R).

RANCHI-Ideal Book Stores, Main Road.

REWASupdt., Govt. State Emporium, V. P.

BAGAR (M. P.)— Students Book Depot (R).

SECUNDERABAD (DN.)— Hindustan Diary Publishers.

SHILLONG —

*Supdt., Assam Sectt. Press.
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