Revenue (1897) Department.

PRESS SERIES.

G.O., Nos 990-991

DATED 26th November

[Despatch Abstract.]

Stating that a letter will be despatched to the G. of India for obtaining a qualified Botanist from Engd for the future Administration of the Botanical Dept. in the Madras Presy.

Letter Requesting that the sanction of the Rt. Hon. the Secy. of State may be obtained to the appointment of a Botanist for the Madras Presy. and that his Lordship may be requested to select & appoint a [illegible] as early a date as possible

BACK PAPERS.

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FURTHER PAPERS.

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25-2 1327 '98	No 248	Rev	17-1-98				

Revenue (1897) Department.

CURRENT No.

17 SEP 97

From R. G. Bourne, Esqr. B.Sc. F.R.S.
ag: Superintendent Govt. Museums.

Order

No. 626

Dated 6th September 1897.

Received

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Enclosures

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SUBJECT.

Submitting remarks called for in para 2 of G.O. No. 91. Revenue, dated 15th February 1897 regarding the future administration of the Botanical Department.

BACK PAPERS.

BACK PAPERS.

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FURTHER PAPERS.

G.O.	No.	Department.	Date.

GOVERNMENT MUSEUM,

Pantheon Road, Egmore,

No. 62b

Madras, 6th September 1897.

From

J. S. Bourne, Esq., B.A., F.R.S.,
~~EDGAR THURSTON, Esq.,~~

ag SUPERINTENDENT,

Government Museum,

Madras,

To

The Secretary to Government,

Revenue Department.

SIR,

With reference to para 2 of G.O. No 91, Revenue, 15th February 1897, I have the honour to submit the following remarks.

2. Mr. Lawson and Mr. Ellroy Swaidu (late Herbarium keeper, Government Museum) having both died before I commenced the present investigation without having placed on record any general notes with regard to the collections, I have had to depend upon intrinsic evidence only for my information.

3. I gather that at one time or another all the specimens passed through Mr. Lawson's hands and that

ly returned to Madras Specimens of Species of which we had ample materials. I have now remitted the ... collections and have thereby greatly strengthened the ... materials in very many cases. I have however segregated at any rate as a temporary measure all Specimens of Species represented in Southern India from the other Indian and Extra-Indian Species. As this report has reference to the Botanical Survey of Southern India I shall speak only of the S. Indian Species. The ... collection consists of Specimens collected for us by Wight & W. Elliot, Drew, Clarkson, Beddome, Bidie and Lawson and of Specimens presented from the Herbaria of Kew, Calcutta, Poona, Peradeniya, C. B. Clarke, Gamble, Cameron, Bourdillon and others. There are also a large number of Specimens emanating from Aiyar & Rees sources which I have up to now been unable to localize. The number of Specimens added by Mr. Lawson particularly on the Nilgiris is very great indeed. In addition to the Sheets

Sheets of dried plants there is a collection of Seeds and fruits formed by Mr. Lawson which I have united with a similar collection made by Mr. Gamble which was transferred from the office of the Conservator of Forests, Central Circle to the Museum.

Mr. Lawson left a small collection of coloured drawings of plants chiefly orchids and balsams but no systematic collection of notes there are however short but valuable notes in his handwriting upon many of the Sheets bearing the Specimens themselves. His chief work is expressed in the arrangement of the herbarium ideally the bringing together what he considered to be Specimens of one and the same Species although described under various names. This determination of the Synonymy is of course a very important factor of all herbarium work I only wish to point out that the position of a particular Specimen in a particular cover may represent much labour.

a proof of this will follow very early

4. The list which I have prepared and which

I fear owing to my having had to expedite this report not as free from errors as I could wish. Shows:—

i- That a considerable number of species not hitherto recorded from S. India do occur;

ii- That a very large number of species which have been recorded from S. India are not represented in the herbarium -

of the former groups one or two only appear to be new species and undescribed, of the latter the great majority are gaps several of which I have already filled as the result of my recent tours while others will be easily filled by a good collector in the course of a series of tours in the Presidency. There are however many cases in which the absence of a species indicates that Mr Lawson had come to the conclusion that it was synonymous with some other species. I have not attempted to point these out as each case affords matter for critical work.

3. I am asked to suggest the nature and extent of the operations required to bring the botanical survey of S. India to completion. I need hardly point out that it is a work which cannot ever be said to be complete. A considerable amount remains however to be done before our knowledge of the S. Indian flora equals that of many other parts of India or of Ceylon.

In the first place the herbarium needs strengthening not only by the representation of species at present not represented at all but by the more ample representation of most of the other species, a great deal of work has to be done upon fresh materials and when the chief districts of the Presidency (I mean districts likely to vary botanically) have been each two or three times visited so as to secure flower, fruit etc it will be possible to commence a hand-book to the flora to carry out which to the end will however entail some work at the herbaria in Calcutta and Kew

6. I hope that I shall not be exceeding my instructions if I add one or two suggestions in -

continued

continuation of the Memorandum submitted by
Mr. Thurston and myself and printed in the
G. O. under reference.

K. Rangachari whom I appointed
herbarium keeper on the death of the late incumbent
took a first class in Botany at the Examination
for the Master of Arts in 1894. He has since been
a Schoolmaster at Anantapur where he devoted
his leisure to further botanical study and
accepted this appointment although on a
considerably lower salary on account of his love
of the subject. He has proved himself on the tours I
have recently taken a most admirable and critical
collector. I think that if the scheme proposed in the
above mentioned memorandum be adopted I might
gradually withdraw from all except a general control
and that he might eventually perform the duties
& draw the full salary of Government Botanist.

It has been arranged that an Assistant
Professor of Botany be appointed to the Presidency College
from the beginning of next year and I am to carry on
and extend the teaching of Botany. I venture to suggest
that the Botanical teaching should be deferred for say
a couple of years while I devote my whole attention to
the Survey by touring throughout the Presidency at
the end of which time I shall be glad to take furlough
which I am prepared to devote to the working out at
Kew of the various problems which have arisen, this
would I think put matters upon such a footing that
K. Rangachari could continue the work.

I have the honour to be,

Sir,

Your most obedient Servant

F. J. Bowles

Ag. Superintendent

Government Museum

$\frac{O}{18}$ 4,000—19-7-97.

6

Revenue (189) Department.

CURRENT No. 8144

From The Superintendent,
Govt. Central Museum
Madras.

Order No. 655

Dated 16th Septr 1897.

Received

Registered

Enclosures

Spare copies.

SUBJECT.

Forwg. a proof copy of the list of plants referred to in his letter No. 626 of the 6th inst.

Grue (a)
10-7

BACK PAPERS.

G.O.	No.	Department.	Date

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Proof
H. P. Bowden
16 Sept. 1897

7

LIST OF SPECIES OF PLANTS WHICH ARE SUPPOSED TO BE INDIGENOUS TO OR DENIZENS OF SOUTHERN INDIA.

? in front of a name merely denotes that there is no specimen *from Southern India* of the species in the Madras herbarium.

! in front of a name denotes that although not recorded from Southern India in the "Flora of British India," the species is shown by the herbarium to exist there.

DICOTYLEDONS "THALAMIFLORÆ."

1. Ranunculaceæ.

Clematis smilacifolia, Wall.
Gouriana, Roxb
Wightiana, Wall.
Naravelia zeylanica, DC.
Anemone rivularis, Ham.
Thalictrum pedunculatum, Edgw.
? Dalzellii, Hook.
javanicum, Bl.
foliolosum, DC
Ranunculus reniformis, Wall.
diffusus, DC.
Wallichianus, W. & A.

2. Dilleniaceæ.

Tetracera lævis, Vahl.
Aerotrema Arnottianum, Wight.
Dillenia ? indica, L.
bracteata, Wight.
pentagyna, Roxb.

3. Magnoliaceæ.

Michelia champaca, L.
nilagirica, Zenk.
Kadsura Wightiana, Arn.

4. Anonaceæ.

Uvaria narum, Wall.
zeylanica, L.
! Cyathocalyx zeylanicus, Champ.
Artabotrys odoratissimus, R Br. *Cult.*
zeylanicus, Hf. & T.
Cananga odorata, Hf. & T.
Unona pannosa, Dalz.
Lawii, Hf. & T.
viridiflora Bedd
Polyalthia longifolia, Benth *Cult.*
coffeoides Benth.
fragrans, Benth.
cerasoides, Benth.
korinti, Benth.
suberosa, Benth.
? rufescens, Hf & T.
Popowia Beddomeana, Hf. & T.
Pœcanthus malabaricus, Bedd.
Gonothalamus Thwaitesii, Hf & T.
wynaadensis, Bedd.
cardiopetalus, Hf & T.
Wightii, Hf. & T.
? travancoricus, Bedd.
Mitrephora Heyneana, Thw
grandiflora, Bedd.
Anona squamosa, L. *Nat.*
reticulata, L *Nat.*
Xylopia parvifolia, Hf. & T.
Miliusa indica, Lesch.
Wightiana Hf. & T.
velutina, Hf & T.
nilagirica, Bedd.
Saccopetalum tomentosum, Hf. & T.
Alphonsea lutea, Hf. & T.
zeylanica, Hf. & T.
madrasputana, Bedd.
Orophea unifora, Hf & T
zeylanica, Hf. & T.
Thomsoni, Bedd.
erythrocarpa, Bedd.
Bocagea Thwaitesii, Hf. & T.
Dalzellii, Hf & T.

5. Menispermaceæ.

Tinospora ? malabarica Miers.
cordifolia, Miers.
? Anamirta cocculus, W. & A.
Cissampelos fenestratum, Colebr.
Tiliacora racemosa, Colebr.
Cocculus macrocarpus, W. & A.
villosus DC.
leba, DC.
Stephania hernandifolia, Walp.
rotunda, Lour.
Cissampelos Pareira L.
Cyclea Burmanni, Miers.
peltata, Hf. & T.
Pachygone ovata, Miers.

6. Berberideæ.

Berberis nepalensis, Spr.
aristata, DC.

7. Nymphaceæ.

Nymphæa lotus, L.
stellata, Willd.
Nelumbium speciosum, Willd.

8. Papaveraceæ.

Papaver somniferum, L. *Cult.*
Argemone mexicana, L. *Nat.*

9. Fumariaceæ.

Fumaria parviflora, Lamk.
? officinalis.

10. Cruciferæ.

Nasturtium officinale, Br. *Cult.*
? indicum, DC.
Cardamine africana, L.
? subumbellata, Hk.
hirsuta, L.
Brassica nigra, Koch. *Cult.*
campestris, L. *Cult.*
juncea, Hf. & T. *Cult.*
Capsella bursa-pastoris, Mœnch. *Cult.*
Lepidium sativum, L. *Cult.*
Raphanus sativus, L. *Cult.*

11. Capparideæ.

Cleome monophylla, L.
tenella, L.
aspera, Koenig.
? Burmanni, W. & A.
felina, L.
viscosa, L.
chelidoni, L.
Gynandropsis pentaphylla, DC.
? Niebuhria linearis, DC.
Mærua arenaria, Hf. & T.
Crataeva religiosa, Forst.
Cadaba trifoliata, W. & A.
indica, Lamk.
Capparis spinosa, L.
grandiflora, Wall.
zeylanica, L.
? Heyneana, Wall.
divaricata, Lamk.
? aphylla, Roth.
diversifolia, W. & A.
Moonii, Wight.
Roxburghii, DC.
grandis, L.
? pedunculosa, Wall.
parviflora, Hf. & T.
sepiaria, L.
? floribunda, Wight.
horrida, L.
? acuminata, Willd.
olacifolia, Hf. & T.
tenera, Dalz.

13. Violaceæ.

Viola Patrini, DC.
distans, Wall.
serpens, Wall.
Ionidium suffruticosum, Ging.
travancoricum, Bedd.
Alsodeia zeylanica, Thw.

14. Bixineæ.

Cochlospermum gossypium, DC. *Planted.*
Bixa orellana, L. *Cult.*
Scolopia crenata, Clos.
Flacourtia inermis, Roxb.
montana, Grah.
cataphracta, Roxb.
Ramontchi, L'Herit.
sepiaria, Roxb.
Xylosma longifolium, Clos.
latifolium, Hf. & T.
Hydnocarpus Wightiana, Bl.
alpina, Wight.
octandra, Thw.

15. Pittosporeæ.

Pittosporum tetraspermum, W. & A.
nilgherense, W. & A.
floribundum, W. & A.
? dasycaulon, Miquel.

16. Polygaleæ.

Polygala arillata Hamilt.
javana, DC.
abyssinica, Fresen.
leptalea, DC.
persicariæfolia, DC.
? erioptera, DC.
elongata, Klein.
chinensis, L.
rosmarinifolia, W. & A.
ibirica, L.
telephioides, Willd.
Salomonia oblongifolia, DC.
Securidaca bracteata, A.W. Benn.
Xanthophyllum flavescens, Roxb.

18. Caryophylleæ.

? Saponaria vaccaria, L. *Weed of Cult.*
Silene gallica, L.
Cerastium indicum, W. & A.
vulgatum, L.

Stellaria paniculata, Edgw.
media, L.
? uliginosa, L.
Arenaria neelgerrensis, W. & A.
Sagina procumbens, L.
Spergula arvensis, L. *Weed of Cult.*
Drymaria cordata, Willd.
Polycarpon Loeflingiæ, Benth.
Polycarpæa corymbosa, Lamk.
? diffusa, W. & A.
? spicata, W. & A.

19. Portulaceæ.

Portulaca oleracea, L.
Wightiana, Wall.
quadrifida, L.
tuberosa, Roxb
suffruticosa, Wight.
? Talinum cuneifolium, Willd.

20. Tamariscineæ.

Tamarix gallica, L.
? dioica, Roxb.
ericoides, Rottl.

21. Elatineæ.

Elatine ? americana Arn.
? ambigua, Wight.
Bergia ammannioides, Roxb.
verticillata, Willd.

22. Hypericineæ.

Hypericum mysorense, Heyne.
Hookerianum, W. & A.
humifusum, L.
napaulense, Choisy.
japonicum, Thumb.
Cratoxylon polyanthum, Korth.

23. Guttiferæ.

Garcinia mangostana, L. *Cult.*
cambogia, Desrouss.
morella, Desrouss.
Wightii, T. Anders.
travancorica, Bedd.
xanthochymus, Hk.
ovalifolius, Hk. f.
Ochrocarpus longifolius, Bth. & Hk. f.
Calophyllum inophyllum, L.
tomentosum, Wight.
Wightianum, Wall.
Mesua ferrea, L.
Pœcilonеuron indicum, Bedd.
pauciflorum, Bedd.

24. Ternstræmiaceæ.

Ternstrœmia japonica, Thumb.
Eurya japonica, Thumb.
Gordonia obtusa, Wall.
Camellia theifera, Griff. *Cult.*

25. Dipterocarpeæ.

Dipterocarpus turbinatus, Gært.
Ancistrocladus Heyneanus, Wall.
Vatica Roxburghiana, Bl.
Shorea talura, Roxb.
robusta, Gært.
tumbuggaia, Roxb.
Hopea parviflora, Bedd.
longifolia, Dyer.
Wightiana, Wall.
? glabra, W. & A.
racophlœa, Dyer.
! Balanocarpus utilis, Bedd.
! erosa, Bedd.
Vateria indica, L.

26. Malvaceæ.

Malva verticillata, L.
Malvastrum ? tricuspidatum, A. Gray. *Introduced.*
spicatum, A. Gray. *Introduced.*
? Anoda hastata, L.
Sida humilis, Willd.
mysorensis, W. & A.
Schimperiana, Hochst.
spinosa, L.
carpinifolia, L.
rhombifolia, L.
cordifolia, L.
Wissadula ? rostrata, Planch. *Cult.*
? Leschenaultiana, Master. *Cult.*
Abutilon polyandrum, Schlecht.
? asiaticum, G. Don.
indicum, G. Don.
? graveolens, W. & A.
muticum, G. Don.
crispum, G. Don.
? neilgherrense, Munro.
Malachra capitata, L.
Urena lobata, L.
sinuata, L.
? repanda, Roxb.
Pavonia glechomifolia, A. Rich.
zeylanica, Cav.
odorata, Willd
Decaschistia trilobata, Wight.
crotonifolia, W. & A.

Hibiscus trionum, L.
surattensis L.
lanceatus, Roxb.
hirtus, L.
micranthus, L.
solandra, L'Her.
? canescens, Heyne.
collinus, Roxb
lunariifolius, Willd.
pandurœformis, Burm.
vitifolius, L.
cannabinus, L.
? sabdariffa, L. *Cult.*
ficulneus, L.
angulosus, Mast.
abelmoschus, L. *Cult.*
? rugosus, Mast.
esculentus, L. *Cult.*
tiliaceus, L.
rosa sinensis, L. *Cult.*
? mutabilis, L. *Cult.*
? syriacus, L. *Cult.*
Thespesia Lampas, Dalz.
populnea, Corr.
Gossypium herbaceum, L. *Cult.*
barbadense, L. *Cult.*
arboreum, L. *Planted.*
Kydia calycina, Roxb.
Adansonia digitata, L. *Cult.*
Bombax malabaricum, DC.
Eriodendron anfractuosum, DC.
Cullenia excelsa, Wight.

27. Sterculiaceæ.

Sterculia fœtida, L.
urens, Roxb.
? villosa, Roxb.
guttata, Roxb.
? nobilis, R. Br.
Balanghas, L.
colorata, Roxb.
alata, Roxb
populifolia, Roxb.
Heritiera littoralis, Dryand.
? papilio, Bedd.
Kleinhovia hospita, L.
Helicteres Isora, L.
? sacata, Colebr.
Pterospermum suberifolium, Lam.
? diversifolium, Bl.
rubiginosum, Heyne.
? acerifolium, Willd
? semisagittatum, Ham.
reticulatum, W. & A.
Heyneanum, Wall.
glabrescens, W. & A.
? obtusifolium, Wight.
Eriolæna Stocksii, Hf. & T.
Hookeriana W. & A.
? Candollei, Wall.
quinquelocularis, Wight.
Pentapetes phœnicea, L.
Melhania incana, Heyne.
? cannabina, Wight.
? Hamiltoniana, Wall.
Melochia corchorifolia, L.
velutina, Bedd.
Waltheria indica, L.
Abroma angusta, L.
Guazuma tomentosa, Kunth.
? Buettneria herbacea, Roxb
Leptonychia moacurroides, Bedd.

23. Tiliaceæ.

? Berrya ammonilla, Roxb.
Grewia columnaris, Sm.
emarginata, W. & A.
orientalis, L.
umbellata, Roxb
? heterotricha, Mast.
populifolia, Vahl.
excelsa Vahl.
salvifolia, Heyne.
orbiculata, Rottl.
tiliæfolia, Vahl.
? asiatica, L. *Cult.*
? scabrophylla, Roxb.
? carpinifolia, Juss.
pilosa, Lam
villosa, Willd.
multiflora Juss.
lævigata, Vahl.
? bracteata, Roth.
abutilifolia, Juss.
hirsuta, Vahl.
polygama, Roxb.
microcos, L
Erinocarpus Nimmoanus, Grah.
Triumfetta pilosa, Roth.
? glabra, W. & A.
rhomboidea, Jacq.
rotundifolia, Lam.
neglecta, W. & A.
Corchorus capsularis, L.
olitorius, L.
? triloculoris, L
? urticæfolius, W. & A.
fascicularis, Lam.
tridens, L.
acutangulus, Lam
Elæocarpus ? ganitrus, Roxb.
serratus, L
? robustus, Roxb.
cuneatus, Wight.
oblongus, Gærtn.
? amœnus, Thw.
tuberculatus, Roxb.

Elæocarpus rugosus, Roxb.
? monocera, Cav.
ferrugineus, Wight.
? glandulifer, Mast.
Munroi, Mast.

29. Lineæ.

Linum usitatissimum, L. *Cult.*
mysorense, Heyne.
Reinwardtia ? trigyna, Planch.
? tetragyna, Planch.
Hugonia mystax, L.
Erythroxylon monogynum, Roxb.
lanceolatum, Wight.
? lucidum, Moon
? obtusifolium, Thw.

30. Malpighiaceæ.

Hiptage Madablota, Gærtn.
parvifolia, W. & A.
Aspidopterys Roxburghiana, A. Juss.
canarensis, Dalz.
? cordata, A. Juss.
nutans, Hk. f.

31. Zygophyllæ.

Tribulus ? cistoides, L.
terrestris, L.
Fagonia arabica, L.

32. Geraniaceæ.

Geranium nepalense, Sweet.
Oxalis corniculata, L.
Biophytum sensitivum, DC.
? apodiscus, Turcz.
Reinwardtii, Walp.
? polyphyllum, Munro.
Averrhoa arambola, L. *Planted.*
bilimbi, L. *Nat.*
Impatiens Beddomei, Hk f.
modesta, Wight.
? crenata, Bedd.
orchioides, Bedd.
acaulis, Arn.
? scapiflora, Heyne.
? rivalis, Wight.
Demsonii, Bedd.
chinensis, L.
Gardneriana, Wight.
setosa, Hf. & T.
Kleinii, W. & A.
diversifolia, Wall.
ligulata, Bedd.
tenella, Heyne
inconspicua, Benth.
oppositifolia, L
? Lawii, Hf. & T.
tomentosa, Heyne.
? concinna, Hf.
latifolia, L.
Leschenaultii, Wall.
cuspidata.
lucida, Heyne.
verticillata, Wight.
Goughii, Wight.
Ballardii, Bedd.
? viscosa, Bedd.
parvifolia, Bedd.
balsamina, L.
scabriuscula, Heyne.
? pendula, Heyne.
? mysorensis Roth.
Mauroni, Wight.
? dasysperma, Wight.
flaccida, Arn.
Henslowiana, Arn.
fruticosa, DC.
Jerdoniæ, Wight.
auriculata, Wight.
viridiflora, Wight.
umbellata, Heyne.
viscida, Wight.
cordata, Wight.
grandis, Heyne.
campanulata, Wight.
travancorica, Bedd.
unguiculata, Wight.
elegans, Bedd.
maculata, Wight.
phœnicea, Bedd.
tamaciee, Bedd.
? leptura, Hf.
Wightiana, Bedd.
Hydrocera triflora, W. & A.

33. Rutaceæ.

Ruta graveolens, L. *Cult.*
Boenninghausenia albiflora, Reich. *Introd. in Ooty.*
? Peganum Harmala, L.
Evodia Roxburghiana, Benth.
? fraxinifolia, Hf.
Melicope indica, Wight.
Zanthoxylum ovalifolium, Wight.
? alatum, Roxb.
tetraspermum, W. & A.
Rhetsa, DC.
? Budrunga, Wall.
Toddalia aculeata, Pers
bilocularis, W. & A.
Acronychia laurifolia, Bl.
Glycosmis pentaphylla, Correa.

Murraya exotica, L.
Kœnigii, Spr.
Clausena wampi, Blanco. *Cult.*
indica, Oliv.
Willdenovii, W. & A.
Triphasia trifoliata, DC.
Limonia acidissima, L.
alata, W. & A.
Luvunga eleutherandra, Dalz.
Paramignya monophylla, Wight.
! armata, Oliv.
Atalantia monophylla, Correa.
racemosa, W. & A.
Ceylanica, Oliv.
! Roxburghiana, Hf.
missionis, Oliv.
Citrus medica, L.
aurantium, L.
decumana, L. *Cult.*
Feronia elephantum, Correa.
Ægle marmelos, Correa.

34. Simarubeæ.

Ailantus excelsa, Roxb.
malabarica, DC.
Samadera indica, Gærtn.
Suriana maritima, L.
Balanites Roxburghii, Planch.

35. Ochnaceæ.

Ochna squarrosa, L.
Wightiana, Wall.
! pumila, Ham
Gomphia angustifolia, Vahl.

36. Burseraceæ.

Boswellia serrata, Roxb.
Garuga pinnata, Roxb.
Balsamodendron ? mukul, Hk.
Berryi, Arn.
Protium caudatum, W. & A.
pubescens, W. & A.
Bursera serrata, Colebr.
Canarium commune, L.
strictum, Roxb.
Filicium decipiens, Thw.

37. Meliaceæ.

Turræa ? virens, L.
? villosa, Benn.
Naregamia alata, W. & A.
Munronia Wallichii, Wight.
Melia azadirachta, L. *Planted.*
* azedarach, L. *Cult.*
dubia, Cav.
Cipadessa fruticosa, Bl
Dysoxylum ? binectariferum, Hk.
malabaricum, Bedd.
Beddomei, Hiern.
Sandoricum indicum, Cav *Introduced.*
Aglaia odorata, Lour. *Cult.*
Roxburghiana, Miq.
! edulis, A. Grav.
minutiflora, Bedd.
Lansium anamalayanum, Bedd.
domesticum, Jack.
Amoora rohituka, W. & A.
? canarana, Bth. & Hk f.
? Lawii, Bth. & Hk. f.
Walsura ternata, Roxb.
piscidia, Roxb.
Heynea trijuga, Roxb.
Beddomea indica, Hook.
simplicifolia, Bedd.
Carapa moluccensis, Lam.
Soymida febrifuga, Adr. Juss.
Chickrassia tabularis, Adr. Juss.
Cedrela toona, Roxb.
Chloroxylon swietenia, DC.
Swietenia mahagoni, L. *Planted.*

38. Chailletiaceæ.

Chailletia gelonioides, Hk. f.

39. Olacineæ.

Xomenia americana, Willd.
Olax scandens, Roxb.
Wightiana, Wall.
! zeylanica, L.
Erythropalum populifolium, Mast.
Strombosia ceylanica, Gardn.
Anacolosa densiflora, Bedd.
Cansjera Rheedii, Gmel.
Opilia amentacea, Roxb
Gomphandra axillaris, Wall.
polymorpha, Wight.
Apodytes Benthamiana, Wight.
Beddomei, Mast.
Mappia, tomentosa, Miers.
fœtida, Miers.
? ovata, Miers.
? oblonga, Miers.
Miquelia dentata, Bedd.
Sarcostigma Kleinii, W. & A.
Natsatum herpeticum, Ham.

40. Ilicineæ.

Ilex malabarica, Bedd.
? Walkeri, Wight and Gardn.
denticulata, Wall.
? Gardneriana Wight.
Wightiana, Wall.

41. Celastrineæ.

Euonymus indicus, Heyne.
Gouglui, Wight.
crenulatus, Wall.
! Walkeri, Wight
dichotomus, Heyne.
serrathoides, Bedd
? paniculatus, Wight
angulatus, Wight.
Glyptopetalum zeylanicum Thw.
grandiflorum, Bedd.
Microtropis latifolia, Wight.
ramiflora, Wight.
? densiflora, Wight.
microcarpa, Wight.
ovalifolia, Wight
Lophopetalum Wightianum, Arn.
? Kokoona zeylanica, Thw.
Pleurostylia Wightii, W. & A.
Celastrus paniculata, Willd.
! stylosa, Wall.
Gymnosporia acuminata, Hf.
ovata, Wall
Rothiana, W. & A.
Heyneana, W. & A.
! rufa, Wall.
? Wallichiana Spreng.
emarginata, Roth.
montana Roxb.
Kurrimia paniculata, Wall.
? bipartita, Laws.
Elæodendron glaucum, Pers.
Hippocratea obtusifolia, Roxb.
Arnottiana, Wight.
? Grahami, Wight.
indica, Willd.
Salacia prinoides, DC.
Brunoniana, W. & A.
Roxburghii, Wall.
reticulata, Wight.
macrosperma, Wight.
oblonga, Wall.
! floribunda, Wight.

42. Rhamneæ.

Ventilago madraspatana, Gærtn.
calyculata, Tul.
Zizyphus jujuba, Lamk.
glabrata, Heyne.
nummularia, W. & A.
wynadensis, Bedd.
œnoplia, Mill
xylopyrus, Willd.
incurva, Roxb.
horrida, Roth.
rugosa, Lamk
Rhamnus dahuricus Pall.
Wightii, W. & A.
Scutia indica, Brongn.
Sageretia ? hamosa, Brongn.
oppositifolia, Brongn.
Colubrina asiatica, Brongn.
travancorica, Bedd.
Noltia africana, Reich.
Gouania microcarpa, DC.
leptostachya, DC.

43. Ampelideæ.

Vitis quadrangularis, Wall.
repens, W & A.
discolor, Dalz.
? Heyneana, Wall.
pallida, W. & A.
glauca, W & A.
gigantea, Bedd.
repanda, W. & A.
adnata, Wall.
Linnæi, Wall.
tomentosa Heyne.
? eriocladа, W & A.
? lanata, Roxb.
latifolia, Roxb.
indica, L.
Rheedei W & A.
setosa, Wall.
cuneosa, Wall.
? Roxburghii, W. & A.
himalayana, Brand.
? anamallayana, Bedd.
! mollissima, Wall.
araneosus, Dalz.
? elongata, Wall.
? auriculata, Roxb.
! capriolata, Don., Rodr.
tenuifolia, W. & A.
lanceolaria, Roxb.
? sulcata, Laws.
pedata, Vahl.
Leea macrophylla, Roxb.
? crenata, Laws.
aspera, Wall
sambucina, Willd.
integrifolia, Roxb.
robusta, Roxb.

44. Sapindaceæ.

Cardiospermum halicacabum, L.
canescens, Wall.
Hemigyrosa deficiens, Bedd.
canescens, Thw.
Erioglossum edule, Bl.
Allophyllus cobbe, Bl.
Schleichera trijuga, Willd.

Sapindus trifoliatus, L.
? bifoliolatus, Hiern.
Nephelium litchi, Camb. *Cult.*
Longana, Camb.
stipulaceum, Bedd.
Harpullia cupanioides, Roxb.
Dodonæa viscosa, L.
? Melianthus major, L. *Cult.*
Turpinia pomifera, DC.

45. Sabiaceæ.

? Sabia malabarica, Bedd.
Meliosma Wightii, Planch.
simplicifolia, Roxb.
! Wallichii, Planch.
Arnottiana, Wight.

46. Anacardiaceæ.

Rhus ! parviflora, Roxb.
mysorensis, Heyne.
Mangifera indica, L.
Anacardium occidentale, L. *Nat.*
Gluta travancorica, Bedd.
Buchanania latifolia, Roxb.
angustifolia, Roxb.
? lanceolata, Wight.
Solenocarpus indica, W. & A.
Odina Wodier, Roxb.
Semecarpus anacardium, L.
travancorica, Bedd.
auriculata, Bedd.
Holigarna Arnottiana, Hk. f.
ferruginea, March.
Grahamii, Hk. f.
Beddomei, Hk. f.
Nothopegia Colebrookiana, Bl.
? travancorica, Bedd.
aureo fulva, Bedd.
Spondias mangifera, Willd.
acuminata, Roxb.

43. Moringeæ.

Moringa pterygosperma, Gærtn. *Cult.*

"Calycifloræ."

49. Connaraceæ.

Rourea santaloides, W. & A.
Connarus monocarpus, L.
? Wightii, Hk. f.
Ritchiei, Hk. f.

50. Leguminosæ.

Rothia trifoliata, Pers.
Heylandia latebrosa, DC.
Crotalaria biflora, L.
glaucoides, W. & A.
hispida, Bth.
prostrata, Roxb.
humifusa, Grah.
evolvuloides, Wight.
hirsuta, Willd.
bifaria, L.
! alata, Hamilt.
rubiginosa, Willd.
pusilla, Heyne.
mysorensis, Roth.
triquetra, Dalz.
albida, Heyne.
nana, Burm.
linifolia, L.
? teeta, Roth.
calycina, Schrank.
! sessiliflora, L.
? chinensis, L.
speciosa, Heyne.
dubia, Grah.
? Priestleyoides, Bth.
! lutescens, Dalz.
peduncularis, Grah.
retusa, L.
sericea, Retz.
Leschenaultii, DC.
formosa, Grah.
barbata, Grah.
longipes, W. & A.
? salicifolia, Heyne.
lanata, Bedd.
verrucosa, L.
semperflorens, Vent.
Heyneana, Grah.
juncea, L.
obtecta, Grah
madurensis, Wight.
? subperfoliata, Wight.
fulva, Roxb.
pulcherrima, Roxb.
? linnlata, Heyne.
ramosissima Roxb.
paniculata, Willd.
medicaginea, Lamk.
Willdenoviana DC.
trifoliastrum, Willd.
Notonii, W. & A.
rigida, Heyne.
orixensis, Rottl.
laevigata, Lamk.
? clavata, W. & A.
striata, DC.
laburnifolia, L.
quinquefolia, L.

Crotalaria Grahamiana, W. & A.
? digitata, Hk.
Trifolium ! pratense, L.
repens, L.
procumbens ?
Parochetus communis, Hamilt.
Trigonella fœnum-græcum, L.
corniculata, L.
Melilotus ? parviflora. Desf.
Medicago sativa, L. *Cult.*
Cyamopsis psoraloides, DC.
Indigofera echinata, Willd.
linifolia, Retz.
cordifolia, Heyne.
glandulosa, Willd.
enneaphylla, L.
uniflora, Hamilt.
a-palathoides, Vahl.
pentaphylla, L.
tenuifolia, Rottl.
viscosa, Lamk.
pedicellata, W. & A.
trifoliata, L.
vestita, Baker,
trita, L.
subulata, Vahl.
? marginulata, Grah.
paucifolia, Delile.
parviflora, Heyne.
endecaphylla, Jacq.
hirsuta, L.
! argentea, L.
tinctoria, L.
Wightii, Grah.
pulchella, Roxb
mysorensis, Rottl.
Psoralea corylifolia, L
Millettia ? rubiginosa, W. & A.
splendens, W. & A.
! auriculata, Baker.
Mundulea suberosa, Bth.
Tephrosia calophylla, Bedd.
tinctoria, Pers.
spinosa, Pers.
? senticosa, Pers.
purpurea, Pers.
Hookeriana, W. & A.
villosa, Pers.
Sesbania aegyptiaca, Pers.
aculeata, Pers.
procumbens, W. & A.
grandiflora, Pers.
! Taverniera nummularia, DC.
Geissaspis cristata, W. & A.
tenella, Bth.
Zornia diphylla, Pers.
Stylosanthes mucronata, Willd.
Smithia sensitiva, Ait.
geminiflora, Roth.
! setulosa, Dalz.
gracilis, Bth.
capitata, Dalz.
pycnantha, Bth.
dichotoma, Dalz.
blanda, Wall.
Æschynomene indica, L.
aspera, L.
Ormocarpum sennoides, DC.
? Leptodesmia congesta, Bth.
Eleiotis scoria, DC.
Pycnospora hedysaroides, R. Br.
Pseudarthria viscida, W. & A.
Lourea vespertilionis, Desv.
Uraria picta, Desv.
crinita, Desv.
lagopoides, DC.
hamosa, Wall.
Alysicarpus monilifer, DC.
? hamosus, Edgw.
vaginalis, DC.
bupleurifolius, DC.
longifolius, W. & A.
ruzosus, DC.
? tetrazonolobus, Edgw.
pubescens, Law.
belgaumensis, Wight.
! Ougeinia dalbergioides, Bth.
Desmodium cephalotes, Wall.
pulchellum, Bth.
biarticulatum, Bth.
triquetrum, DC.
ormocarpoides, DC.
laxiflorum, DC.
Gardneri, Bth.
doldriforme, Bth.
scalpe, DC.
gangeticum, DC.
latifolium, DC.
? Wightii, Grah.
? diffusum, DC
! retroflexum. DC.
rufescens, DC.
polycarpum, DC
? parviflorum Baker.
triflorum, DC.
? reniforme, DC.
heterophyllum, DC.
? Rottleri, Baker.
parvifolium, DC.
gyrans, DC.
gyroides, DC.
wynaadensis, Bedd. MS.
Abrus precatorius, L.
! pulchellus, Wall.
? fruticulosus, Wall.
Cicer arietinum, L *Cult.*
Vicia hirsuta, Koch.
? sativa, L. *Cult.*
faba, L *Cult.*
Ervum lens, L. *Cult.*

Shuteria vestita, W. & A.
Dumasia villosa, DC.
Glycine javanica, L.
Teramnus labialis, Spr.
Mucuna monosperma, DC.
? atropurpurea, DC.
? gigantea, DC.
hirsuta, W. & A.
pruriens, DC.
Erythrina indica, Lam.
stricta, Roxb.
suberosa, Roxb.
? Galactia tenuiflora, W. & A.
Spatholobus Roxburghii, Bth.
Butea frondosa, Roxb.
! superba, Roxb.
Canavalia ensiformis, DC.
obtusifolia, DC.
Pueraria tuberosa, DC.
Phaseolus lunatus, L.
vulgaris, L.
adenanthus, Meyer.
? Grahamianus, W. & A.
semierectus, L.
trilobus, Ait.
aconitifolius, Jacq.
! grandis, Dalz. & Gibs.
mungo, L.
trinervius, Heyne.
calcaratus, Roxb.
Vigna catjang, Endl.
vexillata, Bth.
Wightii, Bth.
? pilosa, Baker.
? Pachyrhizus angulatus Rich. *Cult.*
Clitoria ternatea, L.
Dolichos lablab, L.
biflorus, L.
ciliatus, Klein.
falcatus, Klein.
Psophocarpus tetragonolobus, DC. *Cult.*
? palustris, Desv. *Cult.*
Atylosia Candollei, W. & A.
? gemmiflora, Dalz.
lineata, W. & A.
albicans, Btn.
! elongata, Benth.
rugosa, W. & A.
scarabæoides, Bth.
Cajanus indicus, Spr.
Dunbaria ferruginea, W. & A.
Heynei, W. & A.
? conspersa, Bth.
Cylista scariosa, Ait.
Rhynchosia rufescens, DC.
Heynei, W. & A.
nummularia, DC.
aurea, DC.
filipes, Bth.
suaveolens, DC.
cana, DC.
Beddomei, Baker.
cyanosperma, Bth.
minima, DC.
? velutina, W. & A.
viscosa, DC.
? sericea, Spanoghe.
? acutissima, Thw.
? densiflora, DC.
Flemingia strobilifera, R. Br.
! Chappar, Ham.
lineata, Roxb.
stricta, Roxb.
Grahamiana, W. & A.
congesta, Roxb.
Wallichii, W. & A.
vestita, Bth.
tuberosa, Dalz. *Introduced at Ooty.*
Dalbergia sissoo, Roxb.
latifolia, Roxb.
rubiginosa, Roxb.
congesta, Grah.
! confertiflora, Benth.
sympathetica, Nimmo.
tamarindifolia, Roxb.
lanceolaria, L.
volubilis, Roxb.
paniculata, Roxb.
monosperma, Dalz.
? spinosa, Roxb.
Pterocarpus indicus, Willd.
santalinus, L.
marsupium, Roxb.
Pongamia glabra, Vent.
Derris scandens, Bth.
? robusta, Bth.
uliginosa, Bth.
brevipes, Baker.
ovalata, Bedd.
Heyneana, Bth.
platyptera, Baker.
! sinuata, Thw.
ovalifolia, Bth.
Wightii, Baker.
Sophora tomentosa, L.
glauca, Lesch.
Wightii, Baker.
interrupta, Bedd.
Calpurnia aurea, Baker.
Ormosia travancorica, Bedd.
Cæsalpinia bonducella, Flem.
bonduc, Roxb.
nuga, Ait.
sappan, L.
pulcherrima, Swartz.
sepiaria, Roxb.
mimosoides, Lam.
? digyna, Rottl.
? Peltophorum ferrugineum, Benth. *Planted.*

Mezoneurum enucullatum, W. & A.
! emarginatum, W. & A.
Pterolobium indicum, A. Rich.
Pomeana elata, L
regia, Bojer. *Planted.*
Parkinsonia aculeata, L. *Planted.*
Wagatea spicata, Dalz.
Cassia fistula, L.
nodosa, Ham.
marginata, Roxb.
occidentalis, L.
sophera, L.
tora, L.
bicapsularis, L. *Introduced.*
tomentosa, L. *Introduced.*
auriculata, L.
obovata, Colld.
alata, L.
siamea, Lam.
montana, Heyne.
glauca, Lam.
absus, L.
pumila, Lam.
Kleinii, W. & A.
mimosoides, L.
Cynometra ramiflora, L.
travancorica, Bedd.
? cauliflora, L.
! malabarica, Bedd.
Hardwickia binata, Roxb.
pinnata, Roxb.
Saraca indica, L.
Tamarindus indica, L. *Cult.*
Humboldtia laurifolia Vahl.
unijuga, Bedd.
Brunonis, Wall.
Vahliana, Wight
alata, Lawson verb.
decurrens, Bedd. MS.
Bauhinia tomentosa, L.
acuminata, L.
racemosa, Lam.
malabarica, Roxb.
Vahlii, W. & A.
phœnicea, Heyne.
purpurea, L.
variegata, L.
anguina, Roxb.
tenuiflora, Watt.
Neptunia oleracea, Lour.
triquetra, Bth.
Xylia dolabriformis, Bth.
Entada scandens, Bth.
Adenanthera pavonina, L.
Prosopis spicigera, L.
Dichrostachys cinerea, W. & A.
Desmanthus virgatus, Willd.
Leucæna glauca, Bth.
Mimosa pudica, L.
rubricaulis, Lam.
hamata, Willd.
sepiaria, Bth.
Acrocarpus fraxinifolius, Wight.
Acacia farnesiana, Willd.
planifrons, W. & A.
arabica, Willd.
eburnea, Willd.
tomentosa, Willd.
leucophlæa, Willd.
suma, Kurz.
! catechu, Willd.
sundra, DC.
ferruginea, DC.
latronum, Willd.
soneuma, DC.
intsia, Willd.
pennata, Willd.
? Wightii, Baker.
Albizzia Lebbek, Bth.
odoratissima, Bth.
procera, Bth.
stipulata, Boivin.
amara, Boivin.
Pithecolobium dulce, Bth.
? gemmatum, Bth.
umbellatum, Bth.
bigeminum, Bth.
subcoriaceum, Thw.
Inga cynometroides, Bedd.

51. Rosaceæ.

Parinarium indicum, Bedd.
travancoricum, Bedd.
Pygeum Wightianum, Bl.
Gardneri, Hk. f.
Rubus moluccanus, L.
ellipticus, Sm.
lasiocarpus, Sm.
racemosus, Roxb.
rosæfolius, Smith, *Cult.*
Fragaria indica, Andr.
nilgherrensis, Schld.
Potentilla Leschenaultiana, Ser.
? Kleiniana, W. & A.
? supina, L.
Alchemilla indica, Gardn.
Rosa ? involucrata, Roxb
Leschenaultiana, W. & A.
Eriobotrya japonica, Lindl. *Cult.*
Photinia Lindleyana, W. & A.
Notoniana, W. & A.
Cotoneaster buxifolia, Wall.

52. Saxifragaceæ.

Vahlia viscosa, Roxb.
oldenlandioides, Roxb.
Parnassia Wightiana, Wall.
mysorensis, Heyne.

53. Crassulaceæ.

? Tillæa pentandra, Royle.
Bryophyllum calycinum, Salisb.
Kalanchoe glandulosa, Hochst.
floribunda, W. & A.
grandiflora, W. & A.
laciniata, DC.

54. Droseraceæ.

Drosera Burmanni, Vahl.
indica, L.
peltata, Sm.

56. Haloragеæ.

Serpicula indica, Thw.
Myriophyllum ? indicum, Willd.
intermedium, DC.
Callitriche stagnalis, Scop.

57. Rhizophoreæ.

Rhizophora mucronata, Lam.
conjugata, L.
Ceriops Candolleana, Arn.
Kandelia Rheedii, W. & A.
Bruguiera gymnorhiza, Lamk.
? eriopetala, W. & A.
? caryophylloides, Bl.
malabarica, Arn.
Carallia integerrima, DC.
? Wehlea ceylanica, Baill.
Blepharistemma corymbosum, Wall.

58. Combretaceæ.

Terminalia catappa, L
belerica, Roxb.
chebula, Retz.
arjuna, Bedd.
tomentosa, Bedd.
paniculata, Roth.
Calycopteris floribunda, Lamk.
Anogeissus latifolia, Wall.
acuminata, Wall.
Lumnitzera racemosa, Willd.
Combretum decandrum, Roxb.
? acuminatum, Roxb.
ovalifolium, Roxb.
extensum, Roxb.
Quisqualis indica, L.
malabarica, Bedd.
Gyrocarpus Jacquini, Roxb.

59. Myrtaceæ.

Psidium guyava, L. *Cult.*
Rhodomyrtus tomentosa, Wight.
Eugenia malaccensis, L. *Cult.*
Munronii, Wight.
jambos, L. *Cult*
! macrocarpa, Roxb.
? Beddomei, Duthie.
hemisphærica, Wight.
læta, Ham.
cymosa, Lam.
Arnottiana, Wight.
Wightiana, Wight.
zeylanica, Wight.
montana, Wight.
? lissophylla, Thw.
Gardneri, Thw.
carvophyllæa, Wight.
! cordifolia, Wight. ?
? revoluta, Wight.
calophyllifolia, Wight.
? rubicunda, Wight.
malabarica, Bedd.
alternifolia, Wight.
! operculata, Roxb.
? Stocksii, Duthie.
jambolana, Lam.
? Heyneana, Wall.
? Josaana, Duthie.
floccosa, Bedd.
? codvensis, Munro.
calcadensis Bedd.
bracteata, Roxb.
Rottleriana, W. & A.
arsentea, Bedd.
Moorniana, Wight.
uniflora, L. *Nat.*
microphylla, Bedd.
? singampattiana, Bedd
Barringtonia speciosa, Forst.
racemosa, Bl.
acutangula, Gærtn.
Careya arborea, Roxb.

60. Melastomaceæ.

Osbeckia truncata, Dc.
cupularis, Don.
zeylanica, Willd.
hispidissima, Wight.
? gracilis, Bedd.
aspera, Bl.
glauca, Benth.
Wightiana, Benth.
Leschenaultiana, DC.
reticulata, Bedd.
octandra, DC.
sulcata, Cog.
wynadensis, C. B. Clarke.
Melastoma malabathricum, L.

Kendrickia Walkeri, Hk. f.
Sonerila tenera, Royle.
Brunonis, W. & A.
pedunculosa, Thw.
Arnottiana, Thw.
? amabilis, Triana.
travancorica, Bedd.
speciosa, Zenk.
grandiflora, Wall.
elegans, Wight.
versicolor, Wight.
axillaris, Wight.
Wallichii, Benn.
? scapigera, Dalz.
rotundifolia, Bedd.
? Brunoni, Hk. f.
Medinilla ? Beddomei, C. B. Clarke.
malabarica, Bedd,
Memecylon ? Wightii, Thw.
amabile, Bedd.
gracile, Bedd.
terminale, Dalz.
amplexicaule, Roxb
decanense, C. B Clarke.
Heyneanum, Bth.
angustifolium, Wight.
edule, Roxb.

61. Lythraceæ.

Ammannia peploides, Spr.
rotundifolia, Ham.
! tenuis, C. B Clarke.
rotala, F. Mull.
pentandra, Roxb
baccifera, L.
salicifolia Monti.
cordata, W. & A
lanceolata, Heyne.
multiflora, Roxb.
octandra, L.
Woodfordia floribunda, Salisb.
Pemphis acidula, Forst.
Lawsonia alba, Lamk.
Lagerstræmia indica, L.
parviflora, Roxb.
lanceolata, Wall.
flos-reginæ, Retz.
Sonneratia acida, L.
Punica granatum, L. *Cult.*

62. Onagraceæ.

Œnothera rosea, *Nat.*
? tetraptera, *Nat.*
Jussiæa repens, L.
suffruticosa, L.
Ludwigia parviflora, Roxb.
prostrata, Roxb.
Circæa alpina, L.
Trapa bispinosa, Roxb.

63, Samydaceæ.

Casearia graveolens, Dalz.
esculenta, Roxb.
? rubescens, Dalz,
tomentosa, Roxb.
wynadensis, Bedd.
Homalium zeylanicum, Bth.
travancoricum, Bedd.

64. Passifloreæ.

Passiflora Leschenaultii, DC,
fœtida, *Nat.*
ovalifolia, *Nat.*
Modecca ? Wightiana, Wall,
palmata, Lam.
populifolia, Blume.

65, Cucurbitaceæ.

Trichosanthes palmata, Roxb.
nervifolia, L.
cucumerina, L.
anguina, L.
lobata, Roxb
Gymnopetalum Wightii, Arn.
Lagenaria vulgaris, Seringe.
Luffa ægyptiaca, Mill.
Kleinii, W. & A.
Benincasa cerifera, Savi. *Cult.*
Momordica charantia, L.
dioica, Roxb.
cochinchinensis, Spr.
cymbalaria, Fenzl.
Cucumis trigonus, Roxb.
melo, L.
sativus, L.
Citrullus colocynthis, Schrad.
vulgaris, Schrad.
Cephalandra indica, Naud.
Cucurbita maxima, Duchesne.
moschata, Duchesne.
? pepo, DC.
Bryonia laciniosa, L.
Mukia scabrella, Arn.
leiosperma, Thw.
Zehneria Baueriana, Endl.
Hookeriana, Arn.
umbellata, Thw.
Melothria ! zeylanica, C. B. Clarke.
indica, Lour.
Rhynchocarpa fœtida, Schrad.
Corallocarpus epigæa, Hk. f.
Ctenolepis Garcini, Naud.
! Gynostemma pedata, Blume;
Zanonia indica, L.

66. Begoniaceæ.

Begonia cordifolia, Thw.
? fallax, DC.
integrifolia, Dalz.
? crenata, Dryand.
canarina, Miq.
subpeltata, Wight.
? trichocarpa, Dalz.
? albo-coccinea, Hk.
? floccifera, Bedd.
malabarica, Lamk.

67. Datiscaceæ.

Tetrameles nudiflora, R. Br.

63. Cacteæ.

? Opuntia Dillenii, Haw.

69. Ficoideæ.

Sesuvium portulacastrum, L.
Trianthema monogyna, L.
crystallina, Vahl.
pentandra, L.
decandra, L.
? Orygia decumbens, Forsk.
Mollugo hirta, Thunb.
spergula, L.
stricta, L.
cerviana, Seringe.
disticha, Seringe.
nudicaulis, Lamk.
Gisekia pharnaceoides, L.

70. Umbelliferæ.

Hydrocotyle javanica, Thunb.
conferta, Wight.
rotundifolia, Roxb.
asiatica, L.
Sanicula europæa, L.
Bupleurum plantaginifolium, Wight.
mucronatum, W. & A.
distichophyllum, W. & A.
Carum ? carui, L. *Cult.*
Roxburghianum, Bth.
copticum, Bth.
Pimpinella Heyneana, Wall.
Leschenaultii, DC.
Candolleana, W. & A.
monoica, Dalz.
! diversifolia, DC.
! tomentosa, Dalz.
! adscendens, Dalz.
Seseli indicum, W. & A.
Fœniculum vulgare, Gærtn.
Polyzygus tuberosus, Dalz.
Peucedanum graveolens, Bth.
? anamallayense, C. B. Clarke.
Heracleum Hookerianum, W. & A.
rigens, Wall.
sprengelianum, W. & A.
? pedatum, Wight.
Coriandrum sativum, L. *Cult.*
? Cuminum cyminum, L. *Cult.*
Daucus carota, L. *Cult.*

71. Araliaceæ.

Aralia malabarica, Bedd.
Pentapanax Leschenaultii, Seem.
? Panax fruticosum, L. *Cult.*
Polyscias acuminata, Seem.
Heptapleurum rostratum, Bedd.
racemosum, Bedd.
venulosum, Seem.
stellatum, Gærtn.
Willichianum, C. B. Clarke.
Brassaia capitata, C. B. Clarke.

72. Cornaceæ.

Alangium Lamarkii, Thw.
Marlea ?
Mastixia arborea, C. B. Clarke.
? pentandra, Bl.

"COROLLIFLORÆ."

73. Caprifoliaceæ.

Viburnum punctatum, Ham.
coriaceum, Bl.
hebanthum, W. & A.
erubescens, Wall.
Lonicera Leschenaultii, Wall.
ligustrina, Wall.

74. Rubiaceæ.

Anthocephalus cadamba, Miq.
Adina cordifolia, Hk. f.
Stephegyne parvifolia, Korth.
tubulosa, Hk. f.
Nauclea purpurea, Roxb.
missionis, Wall.
Hymenodictyon excelsum, Wall.
obovatum, Wall.
Wendlandia, ! tinctoria, DC.
glabrata, DC.
Notoniana, Wall.
? Lawii, Hk. f.
? angustifolia, Wight.

Dentella repens, Forst.
Argostemma courtallense, Arn.
Nertera Wightii, Arn.
Fergusonia zeylanica, Hk. f.
Hedyotis fruticosa, L.
purpurascens, Bedd.
stylosa, Br.
auricularis, Br.
primosa, W. & A.
ixoroides, Hk. f.
Heddomei, Hk. f.
buxifolia, Bedd.
Leschenaiana, Arn.
alboneivia, Bedd.
travancorica, Bedd.
hirsutissima, Bedd.
verticillaris, W. & A.
Lawsoniæ, W. & A.
viscida, Bedd.
auricularia, L.
cærulea, W. & A.
nitida, W. & A.
Oldenlandia corymbosa, L.
diffusa, Roxb.
Heynii, Br.
umbellata, L.
Wightii, Hk. f.
trinervia, Retz.
brachiata, Wight.
dichotoma, Koen.
Stocksii, Hk. f.
aspera, DC.
? erassis, DC.
stricta, L.
? shuteri, Hk. f.
paniculata, L.
biflora, L.
? alata, Koen.
nudicaulis, Roth.
Anotis, Leschenaultiana, W. & A.
? deepens, Hk. f.
? lancifolia, Dalz.
Rheedii, W. & A.
? Montholonii, Hk. f.
quadrilocularis, Thw.
? carnosa, Dalz.
fœtida, Dalz.
Wightiana, Wall.
monosperma, W. & A.
Ophiorrhiza mungos, L.
Harrisiana, Heyne.
Brunonis, W. & A.
grandiflora, Wight.
Roxburghiana, Wight.
eriantha, Wight.
hirsutula, Wight.
pectinata, Arn.
Mussænda ? tomentosa, Wight.
frondosa, L.
Acranthera grandiflora, Bedd.
anamallica, Bedd.
Adenosacme Lawii, Hk. f.
Webera corymbosa, Willd.
monosperma, W. & A.
lucens, Hk. f.
? canarica, Hk. f.
? uliginea, Hk. f.
Byrsophyllum tetrandrum, Hk. f.
Randia uliginosa, DC.
dumetorum, Lamk.
malabarica, Lamk.
densiflora, Bth.
! Gardneri, Thw.
ruculosa, Thw.
Candolleana, W. & A.
Gardenia lucida, Roxb.
gummifera, L.
latifolia, Ait.
turgida, Roxb.
Diplospora apiocarpa, Dalz.
sphærocarpa, Dalz.
? Sevyphiphora hydrophyllacea, Gærtn.
Guettarda speciosa, L.
Knoxia corymbosa, Willd.
mollis, W. & A.
? Heyneana, DC.
Wightiana, Wall.
Octotropis travancorica, Bedd.
Canthium didymum, Roxb.
umbellatum, Wight.
neilgherrense, Wight.
filiforme, Hk. f.
? travancoricum, Bedd.
Rheedii, DC.
angustifolium, Roxb.
parviflorum, Lamk.
Vangueria spinosa, Roxb.
Ixora ! acuminata, Roxb.
lanceolaria, Colebr.
! calycina, Thw.
Notoniana, Wall.
? Johnsoni, Hk. f.
! subsessilis, Wall.
polyantha, Wight.
elongata, Heyne.
? bracteata, Roxb.
parviflora, Vahl.
! cuneifolia, Roxb.
coccinea, L. *Cult.*
stricta, Roxb. *Cult.*
nigricans, Br.
Pavetta indica, L. *Cult.*
hispidula, W. & A.
brevifiora, DC.
? Brunonis, Wall.
? Wightii, Hk. f.
Coffea Wightiana, W. & A.
travancorensis, W. & A.
? arabica, *Cult.*
? liberica, *Cult.*
Morinda citrifolia, L.
tinctoria, Roxb.
umbellata, L.

Psychotria Thwaitesii, Hk. f.
congesta, W. & A.
? macrocarpa, Hk. f.
subintegra, W. & A.
truncata, Wall.
? Dalzellii, Hk. f.
elongata, Wight.
sarmentosa, Bl.
? madraspatana, Hk. f.
? divergens, Kurz.
? sulcata, Wall.
bisulcata, W. & A.
connata, Wall.
anamallayana, Bedd.
? Johnsoni, Hk. f.
nudiflora, W. & A.
Chasalia curviflora, Thw.
Geophila reniformis, Don.
Lasianthus Jackianus, Wight.
oblongifolius, Bedd.
Blumianus, Wight.
ciliatus, Wight.
strigillosus, Hk. f.
acuminatus, Wight.
parvifolius, Wight.
obovatus, Bedd.
truncatus, Bedd.
venulosus, Wight.
capitulatus, Wight.
erichotomus, Wight.
Saprosma indicum, Dalz.
fragrans, Bedd.
ceylanicum, Bedd.
corymbosum, Bedd.
Hamiltonia suaveolens, Roxb.
Hydrophyllax maritima, L.
Spermacoce ? stricta, L.
ocymoides, Burm.
hispida, L.
Rubia cordifolia, L.
Galium rotundifolium, L.
mollugo, L.

75. Valerianeæ.

Valeriana Hardwickii, Wall.
Hookeriana, W. & A.
Leschenaultii, DC.
Beddomei, C. B. Clarke.

76. Dipsaceæ.

Dipsacus Leschenaultii, Coult.

77. Compositæ.

Centratherum reticulatum, Bth.
mollie, Bth.
? courtallense, Bth.
? Ritchiei, Hk. f.
? tenue, Clarke.
! Hookeri, Clarke.
! Alenoon indicum, Dalz.
Vernonia ? malabarica, Hk. f.
Beddomei, Hk. f.
! Roxburgii, Less.
peninsularis, Clarke.
cinerea, Less.
conyzoides ?
divergens, Bth.
saligna, DC.
! Hookeriana, Arn.
Candolleana, W. & A.
anthelmintica, Willd.
salviæfolia, Wight.
indica, Clarke.
pectiniformis, DC.
arborea, Ham.
? travancorica, Hk. f.
Elephantopus scaber, L.
Adenostemma viscosum, Forst.
Ageratum conyzoides, L.
Dichrocephala latifolia, DC.
chrysanthemifolia, DC.
Cyathocline lyrata, Cass.
Granges madaraspatana, Poir.
Myriactis Wightii, DC.
Erigeron ? linifolius, Willd. *Garden weed*,
asteroides, Roxb.
alpinus, L.
Microglossa zeylanica, Bth.
Conyza viscidula, Wall.
stricta, Willd.
Blumea amplectens, DC.
bifoliata, DC.
Wightiana, DC.
neilgherrensis, Hk. f.
? barbata, DC.
lacera, DC.
hieracifolia, DC.
? laciniata, DC.
virens, DC.
membranacea, DC.
Jacquemontii, Hk. f.
? oxyodonta, DC.
? Malcolmii, Hk. f.
Belangeriana, DC.
? malabarica, Hk. f.
flexuosa, Clarke.
? spectabilis, DC.
Laggera flava, Benth.
alata, Schultz.
pterodonta, Bth.
aurita, Schultz.
Pluchea tomentosa, DC.
Epaltes divaricata, Cass.
? pygmæa, DC.

Sphæranthus amaranthoides, Burm.
? africanus, L.
indicus, L.
Blepharispermum petiolare, DC.
subsessile, DC.
Anaphalis Beddomei, Hk. f.
oblonga, DC.
Notoniana, DC.
leptophylla, DC.
crispata, DC.
Wightiana, DC.
marcescens, Clarke.
brevifolia, DC.
neilgerriana, DC.
Gnaphalium luteo-album, L.
hypoleucum, DC.
indicum, L.
pulvinatum, Delile.
Helichrysum buddleioides, DC.
Wightii, Clarke.
! Cæsula axillaris, Roxb.
Vicoa auriculata, Cass.
Pulicaria Wightiana, Clarke.
! angustifolia, DC.
Carpesium cernuum, L.
Lagascea mollis, Cav.
Chrysogonum heterophyllum, Bth.
Arnottianum, Bth.
Xanthium strumarium, L.
Siegesbeckia orientalis, L.
Flaveria australasica, Hk. f.
Eclipta alba, Hassk.
Sclerocarpus africanus, Jacq.
Blumvillea latifolia, DC.
Wedelia calendulacea, Less.
urticæfolia, DC.
biflora, DC.
• Spilanthes acmella, L.
Guizotia abyssynica, Cass
Synedrella nodiflora, Gærtn.
Glossocardia linearifolia, Cass.
Bidens pilosa, L.
decomposita, Clarke.
Cosmos caudatus, or sulphureus.
Gloxsogyne pinnatifida, DC.
Galinsoga parviflora, Cav. *Introduced.*
Tridax procumbens, L.
! Achillea millifolium, L.
! Cotula anthemoides, L.
Centipeda orbicularis, Lour.
? Sphæromorphæa Russeliana, DC.
Artemisia parviflora, Roxb.
vulgaris, L.
Sieversiana, Willd., *Cult*
Gynura nitida, DC.
lycopersicifolia, DC.
? pseudo-china, DC.
Emilia sonchifolia, DC.
flammea, Cass.
Walkeri, Hk. f.
Notonia grandiflora, DC.
Walkeri, Clarke.
• Senecio zeylanicus, DC.
nilgherrensis, DC.
lavandulæfolius, DC.
Saxatilis, Wall.
polycephalus, Clarke.
Lessonianus, Clarke.
ludens, Clarke.
Hohenackeri, Hk. f.
? tenuifolius, Burn.
Edgeworthii, Hk. f.
Dalzellii, Clarke.
? Gibsoni, Hk f.
belgaumensis, Clarke.
araneosus, DC.
corymbosus, Wall.
! Bumalia, Ham.
scandens, Don.
candicans, DC.
Echinops echinatus, DC.
cornigerus DC.
Cnicus Wallichii, DC.
Silybum marianum, Gærtn.
Trichelepis radicans, DC.
amplexicaulis, Clarke.
glaberrima, DC.
? angustifolia, DC.
Volutarella divaricata, Bth.
Centaurea melitensis, L. *Introduced.*
? calcitrapa, L. *Introduced.*
Carthamus tinctorius, L.
Dicoma tomentosa, Cass.
Picris hieracioides, L.
Crepis japonica, Bth.
fuscipappa.
acaulis, Hk. f.
Hypochæris glabra, L.
Taraxacum officinale Wigg.
Lactuca Heyneana D C.
scariola, L.
hastata, DC.
Sonchus asper, Vill.
oleraceus L.
arvensis L.
Launæa asplenifolia, DC.
nudicaulis, Less.
pinnatifida, Cass.

79. Goodenovieæ.

Scævola Kœnigii, Vahl.
? lobelia, L.

80. Campanulaceæ.

Lobelia ? trigona, Roxb.
? trialata, Ham.
zeylanica, L.
! rosea, Wall.

Lobelia
nicotianæfolia, Heyne.
? excelsa, Leschen.
Cephalostigma Scamperi, Hochst.
flexuosum, Hk f & T.
Wahlenbergia gracilis, DC.
Sphenoclea zeylanica, Gærtn.
Campanula colorata, Wall
Aitchisoni Wall.
fulgens, Wall.

81. Vaccinieæ.

Vaccinium nilgherrense, Wight.
Leschenaultii, Wight.
Bourdillonii, Lawson Herb, Sp n.

82. Ericaceæ.

Gaultheria fragrantissima, Wall.
Rhododendron arboreum, Sm.

86. Plumbagineæ.

Plumbago zeylanica, L.
rosea, L. *Cult.*

87. Primulaceæ.

Lysimachia Leschenaultii, Duby.
deltoides, Wight.
Anagallis arvensis, L.
Centunculus tenellus, Duby.

88. Myrsineæ.

Mæsa indica, Wall.
? dubia, Wall.
Myrsine capitellata. Wall.
Embelia ribes, Burm.
? alnata. Bedd
robusta, Roxb.
viridiflora, Schff.
Gardneriana, Wight.
Ardisia ! paniculata, Roxb.
? courtallensis, Wight
ampiexicaulis, Bedd.
polycephala, Wall.
pauciflora, Heyne.
rhomboidea, Wight.
humilis, Vahl.
Antistrophe serratifolia, Hk.
! Ægiceras majus, Gaertr.

89. Sapotaceæ.

! Chrysophyllum. Roxburghii, G. Don.

Sideroxylon tomentosum, Roxb.
Isonandra ? villosa, Wight
Candolleana, Wight.
Perrottetiana, Wight.
lanceolata, Wight.
! Wightiana, DC.
Dichopsis elliptica, Bth.
Bassia latifolia, Roxb.
longifolia, L.
malabarica, Bedd.
Mimusops elengi, L.
Roxburghiana, Wight.
hexandra, Roxb.
* Achras sapota, *L. Cult.*

90. Ebenaceæ.

Maba nigrescens, Dalz.
buxifolia, Pers.
Diospyros pruriens, Dalz.
montana, Roxb.
embryopteris, Pers.
foliosa, Wall
ovalifolia, Wight.
ebenum, Koen.
assimilis, Bedd.
sylvatica, Roxb.
microphylla, Bedd.
chloroxylon, Roxb.
ocarpa, Thw.
? tupru, Hamlt.
! tomentosa, Roxb.
melanoxylon, Roxb.
insignis, Th.
Candolleana, Wight.
nilagirica. Bedd.
? affinis. Thw.
! aneulata Dalz.
orixensis, Wight.

91. Styraceæ.

Symplocos spicata, Roxb.
obtandra, Bedd.
? monantha, Wight.
anamallayana, Bedd.
microphylla, Wight.
macrocarpa, Wight
Gardneriana, Wight.
? Hohenackeri, Clarke.
? Beddomei, Clarke.
foliosa, Wight.
rosea, Bedd.
acuminata, Bedd.
pulchra, Wight.
obtusa, Wall.
pendula, Wall.
? sessilis, Clarke.

92. Oleaceæ.

Jasminum sambac, Ait.
pubescens, Wild.
Rottlerianum, Wall.
malabaricum, Wight.
arborescens, Roxb
Roxburghianum, Wall.
cordifolium, Wall.
! anastomosans, Wall.
! adenophyllum, Wall.
sessiliflorum, Vahl
angustifolium, Vahl.
Ritchiei, Clarke.
? Wightii, Clarke.
rigidum, Zenk.
trichotomum, Heyne.
auriculatum, Vahl.
brevilobum, DC.
flexile, Vahl.
calophyllum, Wall.
humile, L.
! grandiflorum, L.
Nyctanthes arbor-tristis, L.
Schrebera swietenioides, Roxb.
! gamblei, Lawson, Herb, sp.n.
Linociera malabarica, Wall.
Wightii, Clarke.
! purpurea, Vahl.
leprocarpa, Thw.
intermedia, Wight.
Olea glandulifera; Wall.
dioica, Roxb.
polygama, Wight.
Ligustrum Walkeri, Dene.
Roxburghii, Clarke.
neilgherrense, Wight.
Perrottetii, DC.
Decaisnei, Clarke.
Myxopyrum smilacifolium, Bl.

93. Salvadoraceæ.

Salvadora persica, L.
Azima tetracantha, Lam.

94. Apocynaceæ.

Chilocarpus atro-viridis, Bl.
Carissa carandas, L.
spinarum, DC.
paucinervia, DC.
macrophylla, Wall.
? suavissima, Bedd.
Rauwolfia serpentina, Benth.
densiflora, Bth.
? decurva, Hk. f.
? micrantha, Hk. f.
? Beddomei, Hk f.
? canescens, L. *Nat.*
Hunteria corymbosa, Roxb.
Cerbera odollam, Gærtn.
Vinca pusilla, Murr.
rosea, L. *Nat.*
Plumeria acutifolia, Poir.
Ellertonia Rheedii, Wight.
Alstonia scholaris, Br.
venenatus. Br.
nerifolia, Don., Prod
Holarrhena antidysenterica, Wall.
Tabernæmontana dichotoma, Roxb.
Heyneana, Wall.
coronaria, Br.
Parsonsia spiralis, Wall.
Vallaris Heynei, Spr.
Wrightia tinctoria, Br.
tomentosa, Roem & Sch.
? Strophanthus Wightianus, Wall.
Beaumontia ! grandiflora, Wall.
? Jerdoniana, Wight.
Chonemorpha macrophylla, Don.
Aganosma caryophyllata, Don.
cymosa, Don.
Anodendron paniculatum, DC.
Ichnocarpus frutescens, Br.

95. Asclepiadeæ.

Hemidesmus indicus, Br.
Cryptolepis Buchanani, R. & S.
grandiflora, Wight.
Cryptostegia grandiflora, Br.
Brachylepis nervosa, W. & A.
Ulteria salicifolia, Bedd.
? Streptocaulon Kleinii, W. & A.
? Decalepis Hamiltonii, W. & A.
Secamone emetica, Br.
Toxocarpus ? Roxburghii, W. & A.
Kleinii, W. & A.
? concanensis, Hk. f.
Oxystelma esculentum, Br.
Calotropis gigantea, Br.
Asclepias curassavica, L. *Introduced.*
Pentatropis microphylla, W. & A.
Daemia extensa, Br.
Holostemma Rheedei, Wall.
Cynanchum alatum, W. & A.
pauciflorum, Br.
callialata, Ham.
Sarcostemma brevistigma, W. & A.
Brunonianum, W. & A.
? intermedium, Dene.
Gymnema sylvestre, Br.
hirsutum, W. & A.
tingens, W. & A.
montanum, Hk. f.
? elegans, W. & A.
? Marsdenia Brunoniana, W. & A.
! Pergularia minor, Andr., *Cult.*

Tylophora fasciculata, Ham.
macrantha, Hk. f.
aphisia, Dene.
cupparidifolia, W. & A.
? pauciflora, W. & A.
? zeylanica, Dene.
tenuis, Bl.
molissima, Wight.
? rotundifolia, Hain.
? Dalzelii, Hk f.
asthmatica, W. & A.
Cosmostigma racemosum, Wight.
Dregea volubilis, Bth.
Heterostemma Tanjorense, W. & A.
? Oianthus Beddomei, Hk. f,
Hoya pauciflora, Wight,
Wightii, Hk. f.
ovalifolia, W & A.
pendula, Wight.
Leptadenia reticulata, W. & A.
Brachystelma, ? maculatum, Hk. f.
? volubile, Hk. f.
Beddomei, Hk.f.
Ceropegia pusilla, Wight.
? spiralis, Wight.
fimbrifera Bedd.
? bulbosa, Roxb.
? juncea, Roxb.
elegans, Wall.
mysorensis, Wight.
tuberosa, Roxb.
? candelabrum, L.
? Elliottii, Hk f.
? acuminata, Roxb.
intermedia, Wight.
Thwaitesii, Hk.
hirsuta, W. & A.
ciliata, Wight.
Decaisneana, Wight.
brevicollis, Hk. f.
ensifolia, Bedd.
? albiflora, Hk. f.
? Beddomei, Hk. f.
Caralluma adscendens, Br.
attenuata, Wight.
? fimbriata, Wall.
Boucerosia umbellata, W. & A.
crenulata, W. & A.
? diffusa, Wight.
Hitchinia, Dene.
? pauciflora, Wight.

96. Loganiaceæ.

! Mitreola oldenlandioides, Wall.
Mitrasacme alsinoides, Br.
polymorpha, Br.
Buddlea asiatica, Lour.
Fagræa obovata, Wall.
Strychnos colubrina, L.
? Dalzellii, Clarke.
? Rheedei, Clarke.
? Beddomei, Clarke.
! cinnamomifolia, Thw,
nux-vomica, L.
potatorum, L.
! Gærtnera Kœnigii, Wight.
Gardneria ovata, Wall.

97. Gentianaceæ.

Exacum Perrottetii, Griseb.
bicolor, Roxb.
atropurpureum, Bedd.
courtallense, Arn.
Wightianum, Arn.
! zeylanicum, Roxb.
pedunculatum, L.
sessile, L.
? Lawii, Clarke.
? petiolare, Griseb.
Hoppea dichotoma, Willd.
fastigiata, Clarke.
Enicostema littorale, Bl.
Erythræa Roxburghii, Don.
Canscora diffusa, Br.
decurrens, Dalz.
paniculata, Dalz.
sessilifolia, R. & Sch.
decussata, R. & Sch.
perfoliata, Lamk.
Wallichii, Clarke.
Gentiana quadrifaria, Bl.
? Pleurogyne minor, Bth.
Swertia alata, Clarke.
corymbosa, Wight.
? trichotoma, Wall.
decussata, Nimmo.
Beddomei, Clarke.
Halenia Perrottetii, Griseb.
Limnanthemum cristatum, Griseb.
indicum, Thw.
aurantiacum, Dalz.

98. Hydrophyllaceæ.

Hydrolea Zeylanica, Vahl.

100. Borragineæ.

Cordia myxa, L.
obliqua, Willd.
monoica, Roxb.
Rothii, R. & Sch.
? Perrottetii, Wight.
! Macleodii, Hk. f. & T,
fulvosa, Wight.
? octandra, DC.

Ehretia lævis, Roxb.
ovalifolia, Wight.
Wightiana, Wall.
buxifolia, Roxb.
Coldenia procumbens, L.
Rhabdia lycioides, Mart.
Tournefortia ? Heyneana, Wall.
reticosa, Wight.
? Wightii, Clarke.
Heliotropium zeylanicum, Lamb.
supinum, L.
ovalifolium, Forsk.
Rottleri, Lehm.
paniculatum, Br.
strigosum, Willd.
? bracteatum, DC.
marifolium, Retz.
scabrum, Retz.
indicum, L.
curassavicum, L. *Introduced.*
Trichodesma indicum, Br.
ampexicaule, Roth.
zeylanicum, Br.
Cynoglossum furcatum, Wall.
denticulatum, DC.
Paracaryum cœlestinum, Bth.
? malabaricum, Clarke.

101. Convolvulaceæ.

Erycibe paniculata, Roxb.
Rivea ornata, Chois.
hypocrateriformis, Chois.
Argyreia ? tiliæfolia, Wight.
speciosa, Sweet.
? involucrata, Clarke.
bracteata, Chois.
pomacea, Chois.
sericea, Dalz.
? Leschenaultii, Chois.
nellyckerya, Chois.
? malabarica, Chois.
hirsuta, Arn.
pilosa, Arn.
? Lawii, Clarke.
? Chossyana, Wight.
cymosa, Sweet.
cuneata, Ker.
? fulgens, Chois.
Lettsomia aggregata, Roxb.
? mysorensis, Clarke.
! bella, Clarke.
elliptica, Wight.
Ipomœa bona-nox, L.
muricata, Jacq.
? grandiflora, Lamk.
coccinea, L.
? quamoclit, L. *Nat.*
hederacea, Jacq.
purpurea, Lamk.
? lacinnata, Clarke.
dissecta, Willd.
? uniflora, R. & S.
? calycina, Bth.
barlerioides, Bth.
digitata, L.
pentaphylla, Jacq.
Batatas, Lam.
? pileata, Roxb.
Wightii, Chois.
? bracteata, Wight.
pes-tigridis, L.
eriocarpa, Br.
? Stocksii, Clarke.
angustifolia, Jacq.
tridentata, Roth.
chryseides, Ker.
reniformis, Chois.
rumicifolia, Chois.
? obscura, Ker.
sepiaria, Koen.
Beladamboe, R. & S.
aquatica, Forsk.
staphylina, R. & S.
campanulata, L.
cymosa, R. & S.
turpethum, Br.
biloba, Forsk
vitifolia, Sweet.
? kentrocaulos, Clarke.
Sinuta orbega. *Introduced.*
palmata, Forsk.
? dasysperma, Jacq.
? aggregata.
Lepistemon ! Wallichii, Chois.
? Flavescens, Blums. *Introduced.*
Hewittia bicolor, Wight.
Convolvulus Rottlerianus, Chois.
arvensis, L.
flavus, Willd.
parviflorus, Vahl.
Evolvulus alsinoides, L.
Porana paniculata, Roxb.
racemosa, Roxb.
malabarica, Clarke.
Breweria cordata, Bl.
evolvuloides, Chois.
? Neuropeltis racemosa, Wall.
Cressa cretica, L.
Cuscuta reflexa, Roxb.
hyalina, Roth.
? chinensis, Lamk.

102. Solanaceæ.

Solanum nigrum, L.
? vagum, Heyne.
verbascifolium, L.
pubescens, Willd.

Solanum bigeminatum, Nees.
? læve, Dunal.
denticulatum, Bl.
giganteum, Jacq.
ferox, L.
lasiocarpum, Bl.
Wightii, Nees.
torvum, Swartz.
indicum, L.
melongena, L. *Cult.*
xanthocarpum, Schrad.
trilobatum, L.
Lycopersicum esculentum, Miller.
Physalis minima, L.
peruviana, L.
Capsicum frutescens, L.
minimum, Roxb.
? grossum, Willd. *Cult.*
Withania somnifera, Dunal.
Nicandra physaloides, Gærtn.
Datura stramonium, L.
? fastuosa, L.
? metel, L.
Nicotiana tabacum, L.
? plumbaginifolia, Viv.

103. Scrophularineæ.

Celsia coromandeliana, vahl.
Linaria ramosissima, Wall.
? Antirrhinum orontium, L. *Escape.*
Sutera glandulosa, Roth.
Mazus ! rugosus, Lour.
? surculosus, Don.
Lindenbergia urticæfolia, Lehm.
Adenosma ? Malabaricum, Hk.f.
capitatum, Bth.
Stemodia viscosa, Roxb.
Limnophila ? Roxburghii, Don.
conferta, Bth.
? diffusa, Benth.
gratissima, Bl.
hirsuta, Bth.
hypericifolia, Bth.
polystachya, Bth.
? sessiliflora, Bl.
? heteroyphylla, Bth.
racemosa, Benth.
gratioloides, Br.
Herpestis monniera, H.B & K.
? Hamiltoniana, Benth.
floribunda, Br
Dopatrium nudicaule, Ham.
junceum, Ham.
lobelioides, Benth.
Artanema sesamoides, Benth.
Torenia cordifolia, Roxb.
asiatica, L.
vagans, Roxb.
hirtella, Hk.
? bicolor, Dals.
Vandellia crustacea, Benth.
? hirsuta, Benth.
scabra, Benth.
erecta, Benth.
! nummulariifolia, Don.
! sessiliflora, Benth.
pedunculata, Bth.
Ilysanthes hyssopioides, Benth.
parviflora, Benth.
? minima, Benth.
? rotundifolia, Benth.
Bonnaya brachiata, Link.
reptans, Spr.
veronicæfolia, Spr.
? oppositifolia, Spr.
tenuifolia, Spr.
Microcarpæa muscosa, Br.
? Pephidium humifusum, Del.
Glossostigma spathulatum, Arn.
? Scoparia dulcis, L.
Veronica anagallis, L.
! agrestis, L.
Buchnera hispida, Ham.
Striga ? orobanchoides, Bth.
densiflora, Benth.
lutea, Lour.
euphrasioides, Bth.
? masuria, Bth.
Rhamphicarpa longiflora, Bth.
Centranthera hispida, Br.
procumbens, Bth.
humifusa, Wall.
Sopubia delphinifolia, Don.
trifida, Ham.
Micrargeria Wightii, Bth
Pedicularis Perrottetii, Bth.
zeylanica, Bth.

104. Orobanchaceæ.

Æginetia indica, Roxb.
pedunculata, Wall.
Christisonia tubulosa, Bth.
? subacaulis, Gardn.
bicolor, Gardn.
neilgherrica, Gardn.
Orobanche ? cernua, Lœff.
nicotianæ, Wight.
? indica, Ham.

105. Lentibularieæ.

Utricularia stellaris, L.
flexuosa, Vahl.
? exoleta, Br.
? arcuata, Wight.
adnata, Wight.

Utricularia cœrulea, L.
reticulata, Sm.
scandens, Benj.
? hirta, Klein.
? bifida, L.
? Wallichiana, Wight.
racemosa, Wall.
orbiculata, Wall.

106. Gesneraceæ.

Æschynanthus Perrottetii, DC.
Didymocarpus Rottleriana, Wall.
tomentosa, Wight.
? lyrata, Wight.
ovalifolia, Wight.
missionis, Wall.
repens, Bedd.
? Chirita hamosa, Br.
Klugia Notoniana, DC.
! Rynchoglossum obliquum, Bl.
Jerdonia indica, Wight.
Epithema carnosum, Bth.
Isanthera permollis, Nees.

107. Bignoniaceæ.

Millingtonia hortensis, L. *Cult.*
Oroxylum indicum, Vent.
Dolichandrone Rheedii, Seem.
crispa, Seem.
falcata, Seem.
arcuata, Clarke.
Heterophragma Roxburghii, DC.
Stereospermum chelonoides, DC.
suaveolens, DC
xylocarpum, Wight.
Pajanelia Rheedii, DC.

108. Pedalineæ.

Martynia diandra, Glox. *introd.*
Pedalium murex, L.
Sesamum indicum, DC.
laciniatum, Klein.
prostratum, Retz.

109. Acanthaceæ.

Thunbergia fragrans, Roxb.
tomentosa, Wall.
alata, Bojer, *Cult.*
Hawtayneana, Wall.
mysorensis, T. Anders.
Wightiana, T. Anders.
Elytraria crenata, Vahl.
Nelsonia campestris, Br.
Ebermaiera glauca, Nees.
zeylanica, Nees.
Cardanthera uliginosa, Ham.
balsamica, Bth.
verticillata, Bth.
? pinnatifida, Bth.
Hygrophila ? polysperma, T. Anders.
serpyllum, T. Anders.
salicifolia, Nees.
quadrivalvis, Nees.
? incana, Nees.
spinosa, T. Anders.
? Nomaphila stricta, Nees.
Calophanes ? nagehana, Nees.
littoralis, T. Anders.
vagans, Wight.
Ruellia prostrata, Lamk.
patula, Jacq.
Petalidium barlerioides, Nees.
Phaylopsis parviflora, Willd.
Dædalacanthus roseus, T. Anders.
! purpurescens, T. Anders.
montanus, T. Anders.
Hemigraphis dura, T. Anders.
! hirta, T. Anders.
? venosa, Clarke.
latebrosa, Nees.
Stenosiphonium diandum, Wight.
? confertum, Nees.
? setosum, T. Anders.
Russelianum, Nees.
parviflorum, T. Anders.
Strobilanthes foliosus, T. Anders.
Kunthianus, T. Anders.
gossypinus, T. Anders.
canaricus, Bedd.
cuspidatus, T. Anders.
Lawsoni, Gamble (Lawson Herb).
consanguineus, Clarke.
Jeyporensis, Bedd.
barbatus, Nees.
heteromallus, T. Anders.
Wightianus, Nees.
pulneyensis, Clarke.
neilgherrensis, Bedd.
Perrottetianus, Nees.
Zenkerianus, T. Anders.
? Warreensis, Dalz.
ciliatus, Nees.
? adenophorus, Bedd.
decurrens, Nees.
caudatus, T. Anders.
tristis, T. Anders.
! anceps, Nees.
! asperimus, Nees.
! trifidus, Nees.
lupulinus, Nees.
Heyneanus, Nees.
microcephalus, Bth.
micranthus, Wight.
papillosus, T. Anders.
! Hookeri, Nees.

Strobilanthes Andersoni, Bedd.
luridus, Wight.
Bolamputtensis, Bedd.
asper, Wight.
sessilis, Nees.
? Dupeni, Bedd.
perfoliatus, T. Anders.
! extensus, Nees.
? Newii, Bedd.
! coloratus, T. Anders.
sexennis, Nees.
homotropus, Nees.
violaceus, Bedd.
gracilis, Bedd.
rubicundus, T. Anders.
amabilis, Clarke.
Calacanthus Dalzelliana, T. Anders.
Blepharis asperrima, Nees.
hœrhaaviæfolia, Beri.
molluginifolia, Pers.
? Acanthus ilicifolius, L.
Barleria prionitis, L.
cuspidata, Heyne.
buxifolia, L.
Mysorensis, Roth.
noctiflora, L.
longiflora, L.
tomentosa, Roth.
involucrata, Nees.
! vestita, T. Anders.
pilosa, Wall.
Lawii, T. Anders.
montana, Nees.
Gibsoni, Dalz.
cristata, L.
courtallica, Nees.
strigosa, Willd.
nitida, Nees.
? Neuracanthus Neesianus, Clarke.
Crossandra undulæfolia, Salsb.
Asystasia coromandeliana, Nees.
chelonoides, Nees.
violacea, Dalz.
crispata, Bth.
travancorica, Bedd.
Eranthemum malabaricum, Clarke.
Andrographis paniculata, Nees.
subspathulata, Clarke.
? elongata, T. Anders.
ovata, Bth.
? alata, Nees.
? stenophylla, Clarke.
? Wightiana, Arn.
? macrobotrys, Nees.
viscosula, Nees.
Neesiana, Wight.
? stellulata, Clarke.
lineata, Nees.
lobelioides, Wight.
echioides, Nees.
? glandulosa, Nees.
? Rothii, Clarke.
serpyllifolia Wight.
? Beddomei, Clarke.
Haplanthus verticillaris, Nees.
tentaculatus, Nees.
Gymnostachyum febrifugum, Bth.
! zeylanicum, Arn. and Nees.
polyanthum, Wight.
canescens, T. Anders.
lanifolium, T. Anders.
Diotacanthus grandis, Benth.
albiflorus, Benth.
Lepidagathis cristata, Willd.
! Hamiltoniana, Wall.
mitis, Dalz.
! spinosa, Wight.
? pungens, Nees.
? diffusa, Clarke.
cuspidata, Nees.
scariosa, Nees.
hyalina, Nees.
! zeylanica, Nees.
! Walkeriana, Nees.
fasciculata, Nees.
Monothecium aristatum, T. Anders.
Justicia montana, Wall.
betonica, L.
nilgherrensis, Wall.
? trinervia, Vahl.
glauca, Rottl.
tranquebarensis, L.
? salsoloides, T. Anders.
gendarussa, L.
wynaadensis, Wall.
glabra, Koen.
? micrantha, Wall.
diffusa, Willd.
simplex, Don.
procumbens, L.
Adhatoda vasica, Nees.
? Beddomei, Clarke.
Rhinacanthus communis, Nees.
Dianthera leptostachya, Benth.
Echolium Linneanum, Kurz.
Graptophyllum hortense, Nees, *Cult.*
Rungia asperensis, T. Anders.
Wightiana, Nees.
læta, Clarke.
latior, Nees.
! longifolia, Nees and Arn.
? crenata, T. Anders.
apiculata, Bedd.
repens, Nees.
parviflora, Nees.
Dicliptera ? parvibracteata, Nees.
? Beddomei, Clarke.
zeylanica, Nees.
cuneata, Nees.
? micrantha, Nees.
? leonotis, Dals
! Roxburghiana, Nees.

Peristrophe bicalyculata Nees.
? undulata, Nees.
montana, Nees.
? tinctoria, Nees, *Cult.*

111. Verbenaceæ.

Lantana Indica, Roxb.
? crenulata Otto.
? trifolia, L *Nat.*
Lippia nodiflora, Rich
! geminata, H B.K.
Bouchea hyderabadensis, Wall.
Stachytarpheta indica, Vahl.
! mutabilis.
Priva leptostachya, Juss
Verbena bonariensis, L. *Nat.*
Callicarpa lanata, L.
? macrophylla, Vahl.
Tectona grandis, L.
Premna ? corymbosa Rottl.
coriacea, Clarke.
? villosa, Clarke.
! integrifolia L.
tomentosa, Willd.
? integerrima, Wight.
latifolia, Roxb
Wightiana, Schauer.
? rhytisodia, Wight.
Gmelina arborea, L.
asiatica, L.
Vitex trifolia, L
negundo, L.
altissima, L.
alata, Heyne.
pubescens, Vahl.
leucoxylon, L
Clerodendron inerme, Gærtn.
! philomoides, L.
! nutans, Wall.
serratum, Spreng.
infortunatum, Gærtn.
siphonanthus, Bl.
Symphorema involucratum, Roxb.
polyandrum, Wight.
Sphenodesma paniculata, Clarke.
? unguiculata, Sch.
Avicennia officinalis, L.

112. Labiatæ.

Ocimum canum, Sims.
basilicum, L.
gratissimum, L
adscendens, Willd.
sanctum, L
Geniosporum ? elongatum, Benth.
prostratum, Benth.
Acrocephalus capitatus, Benth
Moschosma polystachyum, Benth.
Orthosiphon diffusus, Benth.
? pallidus, Royle.
tomentosus, Benth.
rubicundus, Benth.
comosus, Wight.
stamineus, Benth.
Plectranthus ? pulnevensis, Hk. f.
! nervosens, Benth.
? Walkeri, Arn.
rivularis, Wight.
? Stocksii, Hk. f.
Wightii, Benth.
nilghericus, Benth.
nepetæfolius, Benth.
menthoides, Benth.
incanus, Link.
? subincisus, Benth.
coleoides, Benth.
? urticifolius, Hk f.
? fruticosus, Wight.
Coleus ? spicatus, Benth.
barbatus, Benth.
aromaticus, Benth, *Cult.*
? parviflorus, Benth.
malabaricus, Benth.
Anisochilus carnosus, Wall.
scaber, Benth.
? crioccphalus, Benth.
? Wightii, Hk f.
? pumeluatus, Benth.
dysophylloides, Benth.
? plantagineus, Hf. f.
suffruticosus, Wight.
sericeus, Benth.
? robustus, Hk. f.
Hyptis suaveolens, Poit.
Lavandula Burmanni, Benth.
Pogostemon paniculatus, Benth.
? Gardneri, Hk. f.
pleetranthoides, Desf.
parviflorus, Benth.
patchouli, Pell
paludosus, Benth.
Wightii, Benth.
mollis, Benth.
rotundatus, Benth.
? vestitus, Benth
atropurpureus Benth.
speciosus, Benth.
travancoricus Bedd.
Dysophylla myosuroides, Benth.
? rugosa, Hk. f.
auriculata, Bl.
quadrifolia, Benth.
? cruciata, Benth.
stellata, Benth.
gracilis Dalz.
Colebrookia oppositifolia, Gr.
Elsholtzæ cristata, Willd, *Introduced.*

Mentha viridis, L. *Escape.*
Micromeria ? capitellata, Benth.
b flora, Benth.
Calamintha umbrosa, Benth.
Salvia plebeia, Br.
! Nepeta ruderalis, Hamilt.
Scutellaria discolor, Coleb.
violacea, Heyne.
rivularis, Wall.
Brunella vulgaris, L.
Anisomeles Heyneana, Benth.
ovata, Br.
malabarica, Br.
! Leonurus sibiricus, L.
Leucas urticæfolia, Br.
? nepetæfolia, Benth.
lanata, Benth.
? chinensis, Br.
montana, Spr.
! mollissima, Wall.
? procumbens, Desf.
biflora, Br
marrubioides, Desf.
angularis, Benth
pubescens, Benth.
suffruticosa, Benth
rosmarinifolia, Benth.
helianthemifolia, Desf.
lanceæfolia, Desf.
! stelligera, Wall.
eriostoma, Hk. f.
lamnifolia, Desf.
vestita, Benth.
hirta, Spr
ciliata, Benth.
? stricta, Benth.
Martinicensis, Br.
cephalotes, Spr.
! zeylanica, Br.
diffusa, Benth.
? Wightiana, Benth.
aspera, Spr.
linifolia, Spr.
Leonotis nepetæfolia, Br.
Gomphostemma ! strobilinum, Wall.
eriocarpum, Benth.
Teucrium tomentosum, Heyne.
Wightii, Hk. f
! Ajuga macrosperma, Wall.

113. Plantaginæ.

Plantago major, L.

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114. Nyctagineæ.

Boerhaavia repens, L.
? crispa, Heyne.
repanda, Willd.
? verticillata, Poir.
Pisonia aculeata, L.
alba, Spanoghe, *Cult.*

116. Amarantaceæ.

Celosia argentea, L.
cristata, L.
? pulchella, Moq.
? polygonoides, Retz.
Banalia bicolor, Moq.
Allmania nodiflora, Br.
albida, Br.
Digera arvensis, Forsk.
Amarantus spinosus, L.
paniculatus, L. *Cult.*
caudatus, L. *Cult*
gangeticus, L. *Cult.*
hypochondriacus, L.
? caturus, Heyne.
viridis, L.
? blitum, L.
polygamus, L.
Cyathula prostrata, Bl
Pupalia atropurpurea, Moq.
orbiculata, Wight.
lappacea, Moq.
Psilotrichum ? nudum, Moq.
calycostatum, Moq.
! Psilostachys sericea, Hk. f
Nothosæma brachiata, Wight.
Ærua javanica, Juss.
lanata, Juss
Wightii, Hk. f.
Monsonia, Mart.
Achyranthes ! aquatica, Br.
aspera, L
bidentata, Bl.
Alternanthera sessilis, Br.
Gomphrena globosa, L.

117. Chenopodiaceæ.

Chenopodium album, Linn.
? murale, Linn.
ambrosioides, Linn.
? Spinacia oleracea, Linn. *Cult.*
Atriplex hortensis, Linn. *Cult.*
repens, Roth
? Kochia Indica, Wight.
Arthrocnemum Indicum, Moq.
? glaucum, Ung.
Salicornia brachiata, Roxb.
Suæda ? monoica, Forsk.
nudiflora, Moq.
maritima, Dumort
? Halimodon recurvum, Bunge.
Basella rubra, Linn.

119. Polygonaceæ.

Polygonum plebejum, Br.
? tomentosum, Willd.
glabrum, Willd.
minus, Huds.
? stagninum, Ham.
barbatum, Linn.
? hydropiper, L.
flaccidum, Meissn.
alatum, Ham.
sphærocephalum, Wall.
chinense, Linn.
strigosum, Br.
pedunculare, Wall.
! rude, Meissn.
Fagopyrum esculentum, Moench. *Cult.*
! cymosum, Meisan, *Nat.*
Rumex ? nigricans, H K.F.
nepalensis Spreng.
vesicarius, L. *Cult.*
! acetosella, L.

120. Podostemonaceæ.

? Terniola ramosissima, Wedd.
Podostemon dichotomus, Gardn.
algæformis, Benth.
! Hookerianus, Wedd.
? Johnsoni, Wedd.
olivaceus, Gardn.
selaginoides, Benth.

123. Aristolochiaceæ.

Bragantia Wallichii, Br.
Aristolochia bracteata, Retz.
indica, Linn.
Roxburghiana, Klotzsch.

124. Piperaceæ.

! Houttuynia caudata, Thunb.
Piper ? guleatum, Cas.
trichostachyon, Cas.
longum, Linn.
? chava, Hunter.
? Betle, Linn. *Cult.*
? hapnium, Ham.
brachystachyum, Wall.
? Schmidtii, Hook.
nigrum, Linn.
attenuatum, Ham.
sylvestre, Lamk.
hymenophyllum, Miq.
argyrophyllum, Miq.
Wightii, Miq.
subpeltatum, Willd.
Peperomia Thomsoni, Hook.
Wightiana, Miq.
dindigulensis, Miq.
? portulacoides, A.
reflexa, A.

125. Chloranthaceæ.

? Chloranthus brachystachyus, Blume.

126. Myristiceæ.

Myristica laurifolia, Hook.
malabarica, Lamk.
magnifica, Beddome.
Farquhariana, Wall.
attenuata, Wall.
! Beddomei, King.

128. Laurineæ.

Cryptocarya ? Wightiana, Thwaites.
Stocksn, Meissn.
Apollonias Arnottii, Nees.
Beilschmiedia ! fagifolia, Nees.
Wightii, Benth.
Cinnamomum zeylanicum, Breyn.
! multiflorum, Wight.
sulphuratum, Nees
Wightii, Meissn
macrocarpum, Hk. f.
? gracile, Hook.
? Perrottetii, Meissn.
Machilus macrantha, Nees.
Phœbe lanceolata, Nees.
paniculata, Nees.
Alseodaphne semecarpifolia, Nees.
Actinodaphne salicina, Meissn.
campanulata, Hook.
lanata, Meissn.
madraspatana, Beddome.
Hookeri, Meissn.
! elegans, Thw.
hirsuta, Hook.
Litsæa tomentosa, Herb.
sebifera, Pers
ligustrina, Nees.
? venulosa, Meisan.
? polyantha, Juss.
coriacea, Heyne.
? glabrata, Wall.
oleoides Meissn.
Stocksn, Hook.
? Beddomei, Hook.
Wightiana, Wall.
zeylanica, C & Fr.
Cassytha filiformis, Linn.

129. Proteaceæ.

Helicia nilagirica, Beddome.
robusta, Wall
travancorica, Beddome.

130. Thymelæaceæ.

Lasiosiphon eriocephalus, Dene.
? Gyrinops Walla, Gærtn.

131. Elæagnaceæ.

Elæagnus latifolia, Linn.

132. Loranthaceæ.

Loranthus Wallichianus, Schultz.
? intermedius, Wight.
obtusatus, Wall.
Hookerianus, Wight & Arn.
Wightii, Hook.
scurrula, Linn.
cordifolius, Wall.
tomentosus, Heyne.
bracteatus, Heyne.
recurvus, Wall.
cuneatus, Heyne.
longiflorus, Desrouss.
elasticus, Desrouss.
neelgherrensis, Wight & Arn.
memecylifolius, Wight & Arn.
? sarcophyllus, Wall.
? lageniferus, Wight.
? trigonus, Wight.
loniceroides, Linn.
capitellatus, Wight.
Viscum monoicum, Roxb.
? verruculosum, Wight.
orientale, Willd.
orbiculatum, Wight.
capitellatum, Sm.
? ramosissimum, Wall.
angulatum, Heyne.
articulatum, Burm.
japonicum, Thunb.

133. Santalaceæ.

Thesium Wightianum, Wall.
Santalum album, Linn.
Osyris arborea, Wall.
Scleropyrum Wallichianum, Arn.

134. Balanophoreæ.

Balanophora indica, Wall.

135. Euphorbiaceæ.

1. Euphorbia ? pychostegia, Boiss.
elegans, Spreng.
cristata, Heyne.
? longistyla, Boiss.
? coccinea, Roth.
? Wightiana, H. f.
atoto, Forst.
? linearifolia, Roth.
hypericifolia, L.
pilulifera, L.
rosea, Retz
orrigioloides, Boiss.
thymifolia, Burm.
microphylla, Heyne.
Tirucalli, Linn.
nerriifolia, L.
? antiquorum, L.
? tortilis, Rottler
? trigona, Haworth.
? fusiformis, Ham.
helioscopia, L.
? peltata, Roxb.
dracunculoides, Lamk.
Rothiana, Spreng.
Bojeri, Hk f. *Introduced.*
Sarcococca pruniformis, Lindl.
Bridelia retusa, Spreng
? montana, Willd.
stipularis, Blume.
! fomentosa, Blume.
! dasycalyx, Kurz.
Cleistanthus collinus, Benth.
patulus, Muell.
Actephila excelsa, Muell.
Acyneia baccæformis, A. Juss.
Phyllanthus longipes, Muell
? suberosus, Wight.
! Thwaitesianus, Muell.
reticulatus, Poir.
emblica, L.
polyphyllus, Willd.
Lawii, Grah.
? Nemorum, Russell.
madera-patensis, L
Rheedi, Wight.
urinaria, L.
simplex, Retz
Macrei, Muell
? Leschenaultii, Muell.
? missionis, H. and f.
Niruri, L.
debilis, Herb Ham
? rotundifolius, Klein.

Zingiber ? casumunar, Roxb.
Costus speciosus, Smith.
Elettaria cardamomum, Maton.
Alpinia ? galanga, Sw.
? Allughas, Rosc.
? malaccensis, Rosc.
? aquatica, Rosc.
Clinogyne virgata, Benth
Phrynium ? capitatum, Willd.
Canna indica, L.
Musa ? superba, Roxb.
? sapientum, Linn *Cult.*
paradisiaca, L. *Cult.*
! rosacea, Jacq.

150. Hæmodoraceæ.

Pelosanthes ? neilgherriensis, Wight.
? courtallensis, Wight.
? Ophiopogon intermedius, Don, Prod.
Sanseviera Roxburghiana, Schult.

151. Irideæ.

Belamcanda chinensis, Leman.

152. Amaryllideæ.

Hypoxis aurea, Lour.
Curculigo Finlaysoniana, Wall.
orchioides, Gært.
Crinum asiaticum, Linn.
? deflexum, Ker.
? ensifolium, Roxb.
? pratense, Herb.
latifolium, Linn.
Pancratium ? triflorum, Roxb
? longiflorum, Roxb.

153. Taccaceæ.

? Tacca pinnatifida.

154. Dioscoreaceæ.

Dioscorea dæmona, Roxb. tomentosa, Heyne.
pentaphylla, Linn.
? Wightii, Hook, f.
oppositifolia, L.
? Wallichii, Hook, f.
? Hamiltoni, Hook, f.
Trichopus zeylanicus, Gært.

155. Roxburghiaceæ.

Stemona tuberosa, Lour.
? minor, Hook. fil.

156. Liliaceæ.

Smilax aspera, Linn.
zeylanica, Linn.
? Wightii, A. De.
? prolifera, Roxb.
Asparagus ? caputatus, Baker.
? Rottleri, Baker.
? subulatus, Steudel.
asiaticus, Linn.
racemosus, Willd.
? hevissimus, Steud.
? gonoclados, Baker.
? Dracæna terniflora, Roxb.
Chlorophytum ? Heyneanum, Wall.
? tuberosum, Baker.
? attenuatum, Baker.
? Malabaricum, Baker.
orchidastrum, Lindl.
laxum, Br.
Urginia Indica, Kunth.
? coromandeliana, Hook, f.
? Wightiana, Hook, f.
? congesta, Wight.
? polyphylla, Hook, f.
Scilla indica, Baker.
Lilium neilgherrense, Wight.
? Iphigenia indica, Kunth.
? Gloriosa superba, Linn.
? Disporum Leschenaultianum, Don.

157. Pontederiaceæ.

Monochoria hastæfolia, Presl.
vaginalis, Presl.

158. Philydraceæ.

159. Xyrideæ.

Xyris indica, Linn.
anceps, Lamk.
schœnoides, Mart.
pauciflora, Willd.

160. Commelinaceæ.

Pollia sorzogonensis, Endl.
Commelina ? nudiflora, Linn.
? subulata, Roth.
salicifolia, Roxb.
Hasskarlii, Clarke.
benghalensis, Linn.
hirsuta, Clarke.

Commelina ? glabra, Clarke.
? Forskalæi, Vahl.
clavata, Clarke.
persicariæfolia, Wight.
attenuata, Kœn.
obliqua, Ham.
paleata, Hassk.
? undulata, Br.
Kurzii, Clarke.
? ensifolia, Br.
! Suffruticosa, Bl.
Aneilema ? glaucum, Thw.
scapiflorum, Wight.
lineolatum, Kunth.
? esculentum, Wall.
dimorphum, Dalz.
spiratum, Br. Prod.
? pauciflorum, Wight.
nudiflorum, Br. Prod.
? sinicum, Lindl.
giganteum, Br. Prod.
ochraceum, Dalz.
lanuginosum, Wall.
Kœnigii, Wall
paniculatum, Wall.
vaginatum, Br. Prod.
montanum, Wight
ovalifolium, Hook. f.
scaberrimum, Kunth.
? Forrestia mollis, Hassk
Cyanotis papilionaceæ, Schultes.
? vaginata, Wight.
crinita, Schultes.
tuberosa, Schultes.
Wightii, Clarke.
arachnoidea, Clarke.
pilosa, Schultes.
villosa, Schultes
fasciculata Schultes.
? kewensis Clarke.
axillaris, Rœm.
? cucullata, Kunth.
Floscopa scandens, Lour.

161. Flagellarieæ.

? Flagellaria Indica, Linn.

162. Juncaceæ.

Juncus glaucus, Ehrh.
prismatocarpus, Br. Prod.
? Luzula campestris, Dc.

163. Palmeæ.

? Areca catechu, Linn.
? Pinanga Dicksonii, Blume.
Beatuckia Coddapannah, Berry.
? Arenga Wightii, Griff.
Caryota urens, Linn.
Phœnix sylvestris, Roxb.
farinifera, Roxb.
humilis Royle.
? Corypha umbraculifera, Linn.
Calamus ? Thwaitesii, Beccari.
? Viminalis, Wild.
pseudotenuis, Becc. mss.
! tenuis, Roxb.
rotang, Linn.
? Brandisii, Becc. mss.
? travancoricus Bedd. mss.
? Rheedei, Griff.
Huegelianus, Mart.
? Gamblei, Becc. mss.
? Borassus flabellifer, Linn.
Cocos nucifera Linn.

164. Pandaneæ.

Pandanus fas laris, Lam.

165. Typhaceæ.

Typha angustata, Chaub.

166. Aroideæ.

Cryptocoryne ciliata, Fisch ex Schott.
? Walkeri, Schott.
? consobrina Schott.
? Wightii, Schott.
spiralis, Fisch.
? Roxburghii, Schott.
Pistia stratiotes, Linn.
Arisœma tortuosum, Schott.
? neglectum Schott.
Leschenaultii, Blume.
? Wightii, Schott.
Typhonium trilobatum, Schott.
? divaricatum, Dene.
Theriophonum ? crenatum, Blume.
? Wightii, Schott.
? infaustum, V. E. Br.
? Amorphophallus campanulatus Blume.
? dubius, Blume.
? Synantherias sylvatica, Schott.
Ariopsispeltata, Nimmo.
Remusatia vivipara, Schott.
Colocasia antiquorum, Schott.
Alocasia ? montana, Schott
? indica, Schott. *Cult.*
? macrorrhiza, Schott.
? Raphidophora pertusa, Schott.
? Lasia heterophylla, Schott.
? Anaphyllum, Wightii, Schott.
Pothos scandens, Linn.
? Thomsoniana, Schott.
? Acorus calamus, Linn.

167. Lemnaceæ.

Lemna ? minor, Linn.
? paucicostata, Hegelm.
? gibba, Linn.
? polyrrhiza, Linn.
? Wolfia arrhiza Wimm.

168. Triurideæ.

Sciaphila janthina, Thw.

169. Alismaceæ.

Alisma ? plantago, Linn.
reniforme, Don. Prod.
Limnophyton obtusifolium, Mig.
Sagittaria guayanensis, Humb. Bonpl. & Kunth.

170. Naiadeceæ.

Aponogeton monostachyon, Linn.
crisp, Thunb.
Potamageton indicus, Roxb.
Ruppia rostellata, Koch.
? Zannichellia palustris, Linn.
Naias ? major, All. fl.
? graminea, Del.
? minor, All. fl.
? falciculata, A. Braun.
? Cymodocea isœtifolia, Aschers.

171. Eriocauleæ.

Eriocaulon setaceum, Linn.
robustum, Steud.
! atratum, Kœrn.
? melaleucum, Marl.
Brownianum, Mart.
? Sieboldianum, Sieb.
? minutum, Hook, f.
sexangulare, Linn.
quinquangulare, Linn.
? trilobum, Ham.
? Thwaitesei, Kœrn.
? collinum, Hook, f.

172. Cyperaceæ.

Kyllinga triceps, Rottb.
? cylindrica, Nees.
melanosperma, Nees.
brevifolia, Rottb.
monocephala, Rottb.
Pyoreus stramineus, C. B. Clarke.
? Sanguinolentus, Nees.
nitens, Nees.
pumilus, Nees.
capillaris, Nees.
polystachyus, Beauv.
ferrugineus, C. B. Clarke.
sulcinux, C. B. Clarke.
angulatus, Nees.
puncticulatus, Nees.
? albomarginatus, Nees.
Juncellus alopecuroides, C. B. Clarke.
pygmæus, C. B Clarke.
brevicatus, C. B Clarke.
Cyperus cephalotes, Vahl.
? platystylis, Br. Prod.
castaneus, Willd.
cuspidatus, H. B. & K.
difformis, Linn.
haspan, Linn.
flavidus, Retz.
tenerillæ, Poir.
! niveus, Retz.
? leucocephalus, Retz.
arenarius, Retz.
? diffusus, Vahl.
compressus, Linn.
aristatus, Rottb.
Iria, Linn.
distans, Linn.
nutans, Vahl.
? elusinoides, Kunth.
pilosus, Vahl.
? procerus, Rottb.
? bulbosus, Vahl.
? articulatus, Linn.
? ægetiformis, Roxb.
corymbosus, Rottb.
? tegetum, Roxb.
? Zollingeri, Steud.
rotundus, Linn.
? stoloniferus, Retz.
? Fenzlianus, Steud.
subcapitatus, C. B. Clarke.
tuberosus, Rottb.
exaltatus, Retz.
dactylatus, Roxb.
? esculentus, Linn.
? elatus, Linn.
platyphyllus, Roem.
Mariscus Dregeanus, Kunth.
? bulbosus, C. B. Clarke.
? paniceus, Vahl.
cyperinus, Vahl.
? pictus, Nees.
? tenuifolius, Schrad.
? Sieberianus, Nees.
? ischnos, C. B. Clarke.
? squarrosus, C. B. Clarke.
albescens, Gaud.
microcephalus, Prosl.
Courtoisia cyperoides, Nees.

Eleocharis plantaginea, Br. Prod.
fistulosa, Schultes.
spiralis, Br. Prod.
atropurpurea, Kunth.
capitata, Br. Prod.
ovata, Br. Prod.
! palustris, Br. Prod.
acicularis, Br. Prod.
chætaria, Roem.
subvivipara, Boeck.
Eleocharis, tetraquetra, Nees.
Fimbristylis tetragona, Br. Prod.
acuminata, Vahl.
pauciflora, Br., Prod.
Kingii, C. B. Clarke, mss.
subtrabeculata, C. B. Clarke.
Schœnoides, Vahl.
dipsacea, Benth.
dichotoma, Vahl.
diphylla, Vahl.
æstivalis, Vahl.
ferruginea, Vahl.
spathacea, Roth.
argentea, Vahl.
sericea, Br. Prod.
? tenera, Roem.
? monticola, Steud.
quinquangularis, Kunth.
miliacea, Vahl.
globulosa, Kunth.
pentaptera, Kunth.
complanata, Link.
junciformis, Kunth.
Fimbristylis ? nigrobrunnea, Thw.
monostachya, Hassk.
tristachya, Thw.
Bulbostylis barbata, Kunth.
capillaris, Kunth.
puberula, Kunth.
Scirpus fluitans, Linn.
supinus, Linn.
erectus, Poir.
articulatus, Linn.
mucronatus, Linn.
maritimus, Linn.
? littoralis, Schrad.
grossus, Linn.
subcapitatus, Thw.
? isolepis, Boeck.
squarrosus Linn.
Fiurena ! pubescens, Kunth.
glomerata, Linn.
? uncinata, Kunth.
umbellata, Rottb.
Lipocarpha argentea, Bf.
spinacelata, Kunth.
Rhynchospora Wallichiana, Kunth.
? aurea, Vahl.
? glauca, Vahl.
Hypolytrum ? latifolium, L. C. Reich.
Wightianum, Boeck.
Scleria lithosperma, Sw., Prod.
corymbosa, Roxb.
tessellata, willd.
caricina, Benth.
? hebecarpa, Nees.
? elata, Thw.
oryzoides, Presl.
? melanostoma, Boeck.
! sumatrensis, Retz.
! levis, Retz.
Carex nubigena, D. Don.
? brunnea, Thumb.
phæota, Spreng.
! cruciata, Wahl.
filicina, Nees.
Lindleyana, Nees.
? leucantha, Arn.
baccans, Nees.
? myosurus, Nees.
Walkeri, Arn.
speciosa, Kunth.
? maculata, Boott.
! Jackiana, Boott.
? breviculmis, Br. Prod.
ligulata, Nees.

173. Gramineæ.

Paspalum scrobiculatum, Linn.
compactum, Roth.
? distichum, Linn.
sanguinale, Lamk.
ternatum, Hook, f.
longiflorum, Retz.
Royleanum, Nees.
? pedicellare, Trin.
Perrottetti, Hook, f.
Eriochloa polystachya, H. B. & K.
Isachne Kunthiana, W. & A.
australis, Br. Prod.
miliacea, Roth.
dispar, Trin.
Walkeri, W. & A.
Gardneri, Benth.
Panicum Isachne, Roth.
flavidum, Retz.
punctatum, Burm.
? paspaloides, Pers.
crus-galli, Linn.
colonum, Linn.
prostratum, Lamk.
villosum, Lamk.
? javanicum, Poir.
ramosum, Linn.
setigerum, Retz.
distachyum, Linn.
? semiverticillatum, Rottl.
? remotum, Retz.
? auritum, Presl.

Panicum interruptum, Willd.
indicum, Linn.
? myosuroides, Br. Prod.
curvatum, Linn.
? canaliculatum, Nees.
nodosum, Kunth.
? æquiglume, Hook, f.
! ovalifolium, Poir.
miliaceum, Linn.
miliare, Lamk.
? psilopodium, Trin.
? typhoideum, Schult.
? humile, Nees.
maximum Jacq. *Cult.*
repens, Linn.
proliferum, Lam.
? subæquiglume, Trin.
! antidotale, Retz.
montanum, Roxb.
plicatum, Lamk.
? trigonum, Retz.
pilipes, Nees and Arn.
patens, Linn.
? longipes, W. & A
uncinatum, Raddi.
Chamaeraphis spinescens, Poir.
Spinifex squarrosus, Linn.
Axonopus compressus, Beauv.
! Tricholæna Wightii, Nees & Arn.
Oplismenus undulatifolius, Beauv.
compositus, Beauv.
Burmanni, Beauv.
Arundinella avenacea, Munro.
? mesophylla, Nees.
nervosa, Nees.
setosa, Trin.
! agrostides, Trin.
! tenella, Nees ex Steud.
Metzn, Hochst.
? villosa, Arn.
? brasiliensis, Raddi.
fuscata, Nees.
? capillaris, Hook, f.
leptochloa, Hook, f.
Lawsoni, Hook, f.
Setaria italica, Beauv. *Cult.*
glauca, Beauv.
? intermedia, Roem.
verticellata, Beauv.
? viridis, Beauv.
Forbesiana, Hook, f.
Pennisetum typhoideum, Rich.
alopecuroides, Steud.
? setosum, Rich
cenchroides, Rich.
? Cenchrus biflorus, Roxb.
? Stenotaphrum glabrum, Trin.
Oryza sativa, Linn. *Cult.*
? granulata, Nees.
Leersia hexandra, S. W., Prod.
Hygrorhiza aristata, Nees.
Trachys mucronata, Pers.
Tragus racemosus, Scop.
Lophopogon ornithocephala, Steud.
Perotis latifolia, Ait.
Zoysia pungens, Willd.
Coix lachryma-Jobi, Linn.
Polytoca ? semiteres, Benth.
barbata, Stapf, mss.
Zea mays, Linn. *Cult.*
Dimeria pusilla, Thw.
? Hohenackeri, Hochst.
ornithopoda, Trin.
Imperata arundinaceæ, Cyrill.
Spodiopogon albidus, Benth.
Pollinia ? articulata, Trin.
argentea, Trin.
? fimbriata, Hack.
? phæothrix, Hack.
Cumingii, Nees.
? ciliata, Trin.
Saccharum officinarum, Linn. *Cult.*
spontaneum, Linn.
? aurantiaceum, Retz.
? fuscum, Roxb.
Ischæmum aristatum, Linn.
? rugosum, Salisb.
? pilosum, Hack
? commutatum, Hack.
muticum, Linn.
ciliare, Retz.
? marginatum, Forst.
hirtum, Hack.
laxum, Br.
? Eremochloa muricata, Hack.
Pogonatherum saccharoideum, Beauv.
? crinitum, Trin.
Apocopis ? Wightii, Nees ex Steud.
? pallida, Hook, f.
Arthraxon lanceolatus, Hochst
? spathaceus, Hook, f.
ciliaris, Beauv.
microphyllus, Hochst.
? Thelepogon elegans, Roth.
Aplada varia, Hack.
Rottboellia compressa, Linn.
myurus, Benth.
exaltata, Linn.
? perforata, Roxb.
Manisuris granularis, Linn.
Ophiurus corymbosus, Gærtn.
? Coelachne Stocksii, Hook. f.
Andropogon ? foveolatus Del.
? longipes, Hack.
pumilus, Roxb.
ischæmum, Linn.
? pseudischæmum, Nees.
pertusus, Willd.
? Foulkesii, Hook, f.
? intermedius, Br. Prod.

Eleocharis plantaginea, Br. Prod.
fistulosa, Schultes.
spiralis, Br. Prod.
atropurpurea, Kunth.
capitata, Br. Prod.
ovata, Br. Prod.
! palustris, Br. Prod.
acicularis, Br. Prod.
chætaria, Roem.
subvivipara, Boeck.
Eleocharis, tetraquetra, Nees.
Fimbristylis tetragona, Br. Prod.
acuminata, Vahl.
panciflora, Br., Prod.
Kingii, C. B Clarke, mss.
subtrabeculata, C. B. Clarke.
Schœnoides, Vahl.
dipsacea, Benth.
dichotoma, Vahl.
diphylla, Vahl.
æstivalis, Vahl.
ferruginea, Vahl.
spathacea, Roth.
argentea, Vahl.
sericea, Br. Prod.
? tenera, Roem.
? monticata, Steud.
quinquangularis, Kunth.
miliacea, Vahl.
globulosa, Kunth.
pentaptera, Kunth.
complanata, Link
junciformis, Kunth.
Fimbristylis ? nigrobrunnea, Thw.
monostachya, Hassk.
tristachya, Thw.
Bulbostylis barbata, Kunth.
capillaris, Kunth.
puberula, Kunth.
Scirpus fluitans, Linn.
supinus, Linn.
erectus, Poir.
articulatus, Linn.
mucronatus, Linn.
maritimus, Linn.
? littoralis, Schrad.
grossus, Linn.
subcapitatus, Thw.
? isolepis, Boeck.
squarrosus Linn.
Fiurena ! pubescens, Kunth.
glomerata, Linn.
? uncinata, Kunth.
umbellata, Rottb.
Lipocarpha argentea, Bf.
spuacelata, Kunth.
Rhynchospora Wallichiana, Kunth.
? aurea, Vahl.
? glauca, Vahl.
Hypolytrum ? latifolium, L. C. Reich.
Wightianum, Boeck.
Scleria lithosperma, Sw., Prod.
corymbosa, Roxb.
tessellata, willd.
caricina, Benth.
? hebecarpa, Nees.
? elata, Thw.
orizoides, Presl.
? melanostoma, Boeck.
! sumatrensis, Retz.
! levis, Retz.
Carex nubigena, D. Don.
? brunnea, Thumb.
phaeota, Spreng.
! cruciata, Wahl.
filicina, Nees
Lindleyana, Nees.
? leucantha, Arn.
baccans, Nees.
? myosurus, Nees.
Walkeri, Arn.
speciosa, Kunth.
? maculata, Boott.
! Jackiana, Boott.
? breviculmis, Br. Prod.
ligulata, Nees.

173. Graminæ.

Paspalum scrobiculatum, Linn.
compactum, Roth.
? distichum, Linn.
sanguinale, Lamk.
ternatum, Hook, f.
longiflorum, Retz.
Royleanum, Nees.
? pedicellare, Trin.
Perrottetti, Hook. f.
Eriochloa polystachya, H. B. & K.
Isachne Kunthiana, W. & A.
australis, Br. Prod.
miliacea, Roth.
dispar, Trin.
Walkeri, W. & A.
Gardneri, Benth.
Panicum Isachne, Roth.
flavidum, Retz.
punctatum, Burm.
? paspaloides, Pers.
crus-galli, Linn.
colonum, Linn.
prostratum, Lamk.
villosum, Lamk.
? javanicum, Poir.
ramosum, Linn.
setigerum, Retz.
distachyum, Linn.
? semiverticillatum, Rottl.
? remotum, Retz.
? auritum, Presl.

Panicum interruptum, Willd.
indicum, Linn.
? myosuroides, Br. Prod.
curvatum, Linn.
? canaliculatum, Nees.
nodosum, Kunth.
? æquiglume, Hook, f.
! ovalifolium, Poir.
miliaceum, Linn.
miliare, Lamk.
? psilopodium, Trin.
? typhoideum, Schult.
? humile, Nees.
maximum Jacq. *Cult.*
repens, Linn.
proliferum, Lam.
? subæquiume, Trin.
? antidotale, Retz.
montanum, Roxb.
plicatum, Lamk.
? trigonum, Retz.
pilipes, Nees and Arn.
patens, Linn.
? longipes, W. & A
unciuatum, Raddi.
Chamæraphis spuriscens, Poir.
Spinifex squarrosus, Linn.
Axonopus compressus, Beauv.
! Tricholæna Wightii, Nees & Arn.
Ophismenus undulatifolius, Beauv.
compositus, Beauv.
Burmanni Beauv.
Arundinella avenacea, Munro.
? mesophylla, Nees.
nervosa Nees.
setosa, Trin.
! agrostides Trin.
! tenella, Nees ex Steud.
Metzii, Hochst.
? villosa, Arn.
? brasiliensis, Raddi.
fuscata, Nees.
? capillaris, Hook, f.
leptochloa, Hook, f.
Lawsoni, Hook, f.
Setaria italica, Beauv. *Cult.*
glauca, Beauv.
? intermedia, Roem.
verticillata, Beauv.
? viridis, Beauv.
Forbesiana Hook. f
Pennisetum typhoideum, Rich.
alopecuroides, Steud.
? setosum, Rich
cenchroides, Rich.
? Cenchrus biflorus, Roxb.
? Stenotaphrum glabrum, Trin.
Oryza sativa, Linn. *Cult.*
? granulata, Nees.
Leersia hexandra, S. W., Prod.
Hygroluza aristata, Nees.
Trachys mucronata, Pers.
Tragus racemosus, Scop.
Lopholenis ornithocephala, Steud.
Perotis latifolia, Ait.
Zoysia pungens, Willd.
Coix lachryma—Jobi, Linn.
Polytoca ? semiteres, Benth.
barbata, Stapf, mss.
Zea mays, Linn. *Cult.*
Dimeria pusilla, Thw.
? Hohenackeri, Hochst.
ornithopoda, Trin.
Imperata arundinaceæ, Cyrill.
Spodiopogon albidus, Benth.
Pollinia ? articulata, Trin.
argentea, Trin
? fimbriata, Hack.
? phœothrix, Hack.
Cumingi, Nees.
? ciliata, Trin.
Saccharum officinarum, Linn. *Cult.*
spontaneum, Linn.
? aurum linaceum, Retz.
? fuscum, Roxb.
Ischœmum aristatum, Linn.
? rugosum, Salisb.
? pilosum, Hack
? commutatum, Hack.
muticum, Linn.
ciliare, Retz.
? murinum, Forst.
hirtum, Hack.
laxum, Br.
? Eremochloa muricata, Hack.
Pogonatherum saccharoideum, Beauv.
? crinitum, Trin.
Apocopis ? Wightii, Nees ex Steud.
? pallida, Hook. f.
Arthraxon lanceolatus, Hochst
? spathaceus, Hook, f.
ciliaris, Beauv.
microphyllus, Hochst.
? Thelepogon elegans, Roth.
Aplada varia, Hack
Rottboellia compressa, Linn.
myurus, Benth.
exaltata, Linn.
? perforata, Roxb.
Manisuris granularis, Linn.
Ophiurus corymbosus Gaertn.
? Celestachne Stocksii, Hook. f.
Andropogon ? forcolatus, Del.
? longipes, Hack
pumilus, Roxb.
ischæmum, Linn.
? pseudischæmum, Nees.
pertusus, Willd.
? Foulkesii, Hook. f.
? intermedius, Br. Prod.

Andropogon ? montanus, Roxb.
? micranthus, Kunth.
? Schimdii, Hook. f.
halepensis, Host
saccharum, Roxb. *Cult.*
? Stapfii, Hook. f.
? serratus, Thunb
squarrosus, Linn.
Lawsonii, Hook. f.
gryllus, Linn.
scoparius, Nees.
serricatus, Retz.
verticillatus, Roxb.
? asper, Heyne
? Wightianus, Steud
? zeylanicus, Nees ex Steud.
monticola, Schult.
? Hackelii, Hook. f.
? venustus, Hook. f.
carinatus, Linn.
annulatus, Forsk
contortus, Linn.
bullarieus, Hack.
? Ritchiei, Hook. f.
oliganthus, Hochst, ex Steud.
? polystachyos, Roxb.
? Iwarancusa, Jones.
schenanthus, Linn.
nardus, Linn.
hirtus, Linn.
filipendulus, Hochst.
Anthistiria imberbis, Retz.
ciliata, Linn.
tremula, Nees ex Steud.
cymbaria, Roxb.
? gigantea, Cav.
Iselema Wightii, Anderss.
laxum, Hack.
? anthephoroides, Hack.
Pseudanthistiria umbellata, Hook. f. *Introd.*
Anthoxanthum odoratum, Linn.
Aristida adscensionis, Linn.
setacea, Retz.
hystrix, Linn. f.
? mutabilis, Trin and Rupr.
? funiculata, Trin and Rupr.
! Heteropholis Schenoides, Host.
Garnotia ? Schmidii, Hook. f.
? tenuiculmis, Stapf. mss.
scoparia, Stapf. mss.
structa, Bromen.
? arundinacea, Hook. f.
coimbatorensis, Thw.
Polypogon monspeliensis, Desf.
Sporobolus diander, Beauv
indicus Br., Prod.
? minutiflorus, Link.
! virginicus, Kunth.
tremulus, Kunth.
? speciosus, Kunth
orientalis, Kunth.
piliferus, Kunth.
coromandelianus, Kunth.
Agrostis alba, Linn *Introd.*
? peninsularis, Hook. f.
? canina, Linn. *Introd.*
Calamagrostis ? pilosula, Hook. f.
? Schmidii, Hook. f.
Zenkeria elegans, Trin.
? Coelachne pulchella, Br., Prod.
Avena ! pratensis, Linn.
aspera, Munro.
? polyneura, Hook. f.
Microchloa setacea, Br. Prod.
Gracilea ? natans, Kunth.
? Royleana, Hook. f.
? Enteropogon melicoides, Nees.
Tripogon ? capillatus, Jaub and Spach.
? pauperculus, Stapf.
? Wightii, Hook. f.
? lisboæ, Stapf.
? Jacquemontii, Stapf.
bromoides, Roth.
! filiformis, Nees ex Steud.
Cynodon dactylon, Pers.
Chloris incompleta, Roth.
? teneila, Roxb.
! villosa, Pers
virgata, S W.
barbata, S W.
polystachya, Roxb.
? montana, Roxb.
Wightiana, Nees.
Eleusine indica, Gaertn.
brevifolia, Br.
? verticillata, Roxb.
ægyptiaca, Desf.
Dinebra arabica, Jacq
Leptochloa ? uniflora, Hochst.
? polystachya, Benth.
filiformis, Roem.
chinensis, Nees
? obtusiflora, Hochst.
? Dichætaria Wightii, Nees.
? Pommereulla cornucopiæ, Linn, fil.
Pappophorum elegans, Nees.
? Arundo donax, Linn.
? Paraxmites karka, Trin.
Elytrophorus articulatus, Beauv.
Eragrostis ? phleoides, Stapf.
ciliata, Nees.
aspera, Nees.
ciliaris, Link.
tenella, Roem.
interrupta, Beauv.
amabilis, W. & A.
stenophylla, Hochst.
? elegantula, Steud.
! elongata, Jacq.
? tremula, Hochst.

Eragrotis major, Host.
! minor, Host.
? Rottleri, Stapf.
? Willdenoviana, Nees.
? tenuifolia, Hochst.
pilosa, Beauv.
nigra, Nees.
? cynosuroides, Beauv.
bifaria, Wight, Steud.
? coromandelina, Trin.
? brachyphylla, Stapf.
Myriostachya Wightiana, Hook. f.
Halopyrum mucronatum, Stapf.
? Diplachne fusca, Beauv.
Centotheca lappacea, Desv.
? Streptogyna crinita, Beauv.
Æluropus villosus, Trin.
Briza media, Linn. *Introd.*
Maxima, Linn.
Poa annua, Linn.
Glyceria tonglensis, Clarke. *Nat.*
Bromus asper, Murray.
Brachypodium sylvaticum, Beauv.
Lepturus ? Roxburghianus, Steud.
 Orpetium thœmum, Trin.
Triticum vulgare, Linn. *Cult.*
Hordeum vulgare, Linn. *Cult.*
Arundinaria ? Walkeriana, Munro.
Wightiana, Nees.
? densifolia, Munro.
Bambusa tulda, Roxb.
? nana, Roxb. *Cult.*
? vulgaris, Schrad. *Cult.*
aurundinacea, Willd.
Oxytenanthera Thwaitesii, Munro.
monostigma, Bedd.
? Bourdillonii, Gamb.
Dendrocalamus strictus, Nees.
Teinostachyum ? Griffithii, Munro.
? Wightii, Bedd.
Ochlandra ? Rheedii, Benth.
? Beddomei, Gamble.
? travancorica, Benth.
? Brandisii, Gamble.
? setigera, Gamble.

Drawn up by A. G. Bourne from the herbarium as left by the late M. A. Lawson.

September 1897.

GOVERNMENT MUSEUM,

PANTHEON ROAD, EGMORE,

No. 655

Madras, 15th Sept. Dec 1897.

17 SEP 97

From

~~A. S. Bourne, Esqr. Dy. S.R.S.,~~
~~EDGAR THURSTON, Esq.,~~

ag. SUPERINTENDENT.

To

The Secretary to Government,
Revenue Department.

SIR,

I have the honour to enclose a proof copy of the list of plants referred to in my No. 626 of the 6th instant.

I have the honour to be,

Sir,

Your most obedient Servant,

A. S. Bourne

ag. *Superintendent,*
Government

F/4 500—22-7 97.

Revenue (1897) Department

From

R. S. Bourne Esqr D.Sc. F.R.S.,
Acting Superintendent Govt. Museum.

No 655

Dated - 16th September 1897.

Received

Registered

Enclosure — one.

Subject

Enclosing a proof copy of the list of plants referred to in his No 628 of 2nd Inst.

0
18 4,000—19-7-97.

Revenue (189) Department.

CURRENT No. 8153

From The Govt. of India,
R. & A. Dept.

Order

No. 2632-1 R. M.

Dated 14th Sept. 1897

Received

Registered

Enclosures

Spare copies.

SUBJECT.

Enquiring when the
Govt. of India may
expect to receive the
further communicati
promised on the subje
of the Botanical Dep

There northwards th...

BACK PAPERS.

G.O.	No.	Department.	Date

FURTHER PAPERS.

G.O.	No.	Department.	Date.

10

No. 2632-1-Rev.

FROM

E. MACONOCHIE, Esq., I.C.S.,

Offg. Under-Secretary to the Government of India,

To

The Secretary to the Government of Madras.

Simla, *the* 14th September 1897.

Department of Revenue and Agriculture.

(Eco: Pro:)

SIR,

I am directed to invite a reference to your letter No. 647 dated the 28th July 1897, and to enquire when the Government of India may expect to receive the further communication promised on the subject of the Botanical Department, Madras Presidency.

I have the honour to be,

Sir,

Your most obedient servant,

E Maconochie

Offg: Under-Secretary.

B. B. D.

of. Thence northwards &c.

[G. 26]
1,000—8-5-97.

Revenue Department.

C. Nos 7796, 8144 and 8153 of 97

H. E. THE GOVERNOR.
THE HON'BLE Sir Henry BLISS, K.C.I.E.
THE HON'BLE MR. GROSE, C.I.E.

SUBJECT.

appointment of a Govt Botanist

FOR ORDERS.

To the Secy to Govt
Educational Dept
for favour of communication

We at first proposed to get out a Botanist from England for Rs 400 - 50 - 600, & the Secy. told us that as it was we could not be got for that salary.

Mr Thurston & Bourne then proposed that instead of getting out a new Botanist from Home, we should let Dr Bourne (Prof. of Biology, Pres. Coll., on Rs 950) undertake the duties of Botanist in addition to his duties as a Professor, paying him Rs 300 a month. Mr Thurston observed that after Dr Bourne had spent a year in the Herbarium to the Central Museum, it might be considered whether it was necessary to get out a Botanist from Home. This proposal was accepted by Govt &c.

In February last, when submitting proposals to the Govt of India for the separation of the Cinchona from the Botanical Dept and the appointment of Mr Standen as Director of the Cinchona Plantations, it was intimated to the Supreme Govt in the letter under G.O. Confd. No 91 dy 15th February 1897 that a tentative scheme for carrying on the botanical work by the Professors or Bourne of the Pres. College had been adopted in this Presy and that the question of the appointment of a Botanist and the conduct of the botanical Survey of Southern India would be considered and finial proposals submitted

of. Thence northwards. H.

submitted on receipt of detailed information as to the stage in which the late Mr Lawson had left that work and the nature and extent of the operations required to bring it to completion, in para 2 of the above G.O., the Supt. Govt Central Museum, who was at the time understood to be engaged in arranging the herbarium and in examining the notes which Mr Lawson had left on record was requested to submit an early report on the subject and this report Dr Bourne, the Offg Supt, now submits with his letter in ref. 7796 of 97.

2. Its circulation for orders was held over pending the receipt of the proof of the Herbarium list which Dr Bourne had promised to send in separately. This list has since been received and will be found stitched with ref. 8144 of 97. A reminder from the Govt of India (ref. 8153 of 97) asking enquiring when the proposals of this Govt on the subject

Dr Bourne now reports that a great deal of work remains to be done to complete the Botanical Survey of Southern India, that Rangachari who is now Herbarium-keeper may be left in charge of it & may eventually become Botanist for R 300 a month, having supervised Dr B & helped at first Dr B, & that the teaching of Botany at the Presidency College should be commenced for 2 years, during which Dr B will devote his whole time to Botanical survey, & after which he will take four months.

This amounts to a proposal that Dr Bourne shall be relieved of all his duties as a Professor, that the Botanical Survey which is only part of the Botanist's work shall be prosecuted at a cost of R 450 a month; that the question whether we should get out a Botanist shall be postponed for an indefinite time till it is seen whether Rangachari is fit for the place or not; & that the Botanical teaching at the Pres. Coll (to which Dr B has no claim whatever in preference) shall not be commenced for 2 years at least.

This seems to me inadmissible. Even if the D.P.I. approves of it, he need not be asked his opinion. Our only alternative is to leave Dr Bourne this professorial work & get out a Botanist from England. The Secy of State has

how as we cannot get a professor for R 400-50-600 with free quarters. The saving will be C miles for Mr Standen taking the Director's place & dispensing with Mr Hooper is about R 650. I think we may offer R 500-50-700 with free quarters for a Botanist. If a good Botanist cannot be secured for that sum, we must ask the Secy of State how much it is necessary to pay.

JS
15/10/97

I have nothing to say to the contrary, but would suggest that as Dr Bourne is so very sketchy in his proposals, it might be best to discuss them by a personal conference with him & the D.P.I.

BS
17/10/97

I am entirely opposed to Dr Bourne's proposals.

I agree with the Hon. Mr Ibbetson that a Botanist should be got out, — offering the salary proposed by Mr Ibbetson. (I think there is a note where we found Mr Thiselton in England.)

There can be no objection to the conference suggested by the Hon. Sir H. Biss, but no amount of talking would induce me to alter Dr Bourne's views.

H.H.R. 19.11.97

subject may be expected is also submitted herewith for information.

3. In this present report, Dr Bourne premises by pointing out that both Mr Lawson and the Herbarium Asst having died without leaving any general notes, he had to depend upon intrinsic evidence for his information. He then proceeds to describe what he has been doing in the arrangement of the Herbarium which appears to consist of the specimens collected by all the eminent Anglo-Indian botanists and of the contributions made by others in India and elsewhere. Mr Lawson's contributions as might have been expected were mainly from the District of the Nilgiris and a small collection of coloured drawings, with notes chiefly of Orchids and Balsams is spoken of as valuable & unexaggerated.

4. Owing to the re for sending in an early reply the reference made to him

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Govt, the list of the Herbarium plants prepared by Dr Bourne is reported to be not as free from errors as he could wish but the conclusion that he has arrived at after an examination of all the plants is that while "a considerable number of species not recorded from S. India do occur in the Herbarium, a very large number so recorded is not represented at all therein. Some of the gaps have already been filled in by Dr Bourne himself while the others, he thinks, "will be easily filled by a good Collector in the course of a series of tours in the Presidency"

5 As regards the question specially referred to him for report, viz what the nature and extent of the operations required to bring the botanical survey of Southern India to completion are, the information furnished by Dr Bourne seems to be rather meagre. He says that the work can never be said to be complete

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and that a considerable amount remains to be done "before our knowledge of the S. Indian flora equals that of many other parts of India or Ceylon". He thinks that the Herbarium needs strengthening not only by filling up the gaps already referred to above but also by the addition of new Species from the chief districts of the Presy, that for this purpose each of the districts concerned will have to be visited two or three times and that then only it will be possible to commence a handbook, in the preparation of which the officer entrusted with the work will have to spend some time in the herbaria at Calcutta and Kew.

6 The suggestions which Dr Bourne now makes for the future conduct of botanical work in the Presy (in addition to those contained in the joint memo drawn up by him and Mr Thurston and printed at pp 3 to 6 of G.O. Coupl. No 91 Rev: dated 16th Feby 1897) are briefly as follows:

follows – viz:-

(1) that if the scheme proposed by him and Mr Thurston be approved, his Herbarium Asst. K. Rangachari, a First Class graduate (M.A.) in Botany and "a very admirable and critical Collector", who has devoted and is devoting much attention to the Study of botany should be kept in direct charge of the work

(2) that he (Dr Bourne) might be allowed to gradually withdraw from all except a general control

(3) that Rangachari might eventually be entrusted with the duties and allowed to draw the full Salary of the Govt Botanist

(4) that from the beginning of next year when an Asst Professor of Zoology would be appointed for the Pres. College, the teaching of Botany in the College should be deferred for about two years and he (Dr Bourne) allowed to complete the botanical survey of the Pres.

He adds that at the end of these two years he will be taking furlough and

- As Geology Lect
Dem Inform

and then he will be prepared to go to Kew and there work out "the various problems which have arisen"

7. Under the scheme originally drawn up by Dr Bourne and Mr Thurston, Dr Bourne was to have been appointed Govt Botanist in addition to his duties as Professor of Botany in the Pres. College (Zoology being separated by the appointment of a separate Professor or Asst Professor for its teaching), he (Dr Bourne) was to have been given an extra pay of Rs 300 for the additional work and he was to have made his tours for the collection of specimens during vacation time. The suggestions now made therefore seem to materially alter the original proposals. In the first place Dr Bourne now asks for two full years, without professorial duties, to complete the botanical survey of the Pres. and to put the Herbarium in working order after that time he thinks the work may be entrusted to Rangachari

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his own work in addition to that of Professor of Botany consisting merely in the general supervision of Rangachari's work. If the Govt is prepared to favourably view Dr Bourne's proposals, the first point for consideration seems to be whether it will be advisable to defer the teaching of Botany for two years in the Pres. College. The late Mr Lawson when discharging the duties of both Govt. Botanist and Director of the Govt Cinchona Plantations was able to survey only a very small part of Travancore during a period of eight years and the time two years now asked for by Dr Bourne to completely survey the whole of Southern India including Mysore and Hyderabad is not it is submitted too much. Rangachari if eventually appointed Govt Botanist (under the general supervision of Dr Bourne) would be drawing only a maximum salary of Rs 300, the salary at first proposed by this Govt for a Botanist from England being Rs 400-50-600 with free quarters and that considered necessary

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And apparently for the further period Dr Bourne if furlough I submit no objection on this point

Director of Public Instruction will be consulted on this point

Ille
24/8/97

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necessary by the New authorities and the Secy of State being at least Rs 450 rising to Rs 750 with house. The remarks made by the Secy of State in connexion with the proposals made by this Govt were as follows for the separation of the appointments of Govt Botanist and Director of the Govt Cinchona Plantations were " If the Botanist is not "to be Director and if you cannot "find a competent native for the "post of botanist, then it will be "necessary for you to reconsider "the emoluments of the post as Mr "Thiselton Dyer reports that he "cannot find a competent candi- "date on the terms proposed in "the Madras Govts Letter No 4 dy "13th July 1895 for the Office of Govt "Botanist at Madras". The Secy of State thus contemplated the possibility of appointing a native for the Botanist's work. If, therefore, Bourne can be conveniently relieved of this professorial duties for a period of two years there does not appear to be any objec-

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to accepting his present proposals and informing the Govt of India accordingly.

Brifly the present proposals are.

(1) That for two years after Mr Thurston's return Dr Bourne should be allowed to devote his whole time to Botanical work assisted by Rangachari

(2) After that period Dr Bourne wishes to take furlough & Rangachari will continue the work as Govt Botanist in India.

(3) The work of teaching Botany is to be deferred till Dr Bournes return from furlough.

(4) After his return from furlough Dr Bourne will be engaged in teaching Botany while Superviser Rangachari's work.

Before the Govt arrives at any decision I submit, the permanent views of Public Instruction & Duncan should be consulted.

24.9.97

REVENUE DEPARTMENT.

Current No.

From

Dated 189 .

FOR ORDERS.

Govt first proposed to appoint a Botanist when ~~proposing~~ considering the revision of the Chinchona Department. India x then (vide para. 7 of letter on page 5 of G.O., No. 91 dated th 15th Feb. 97) urged a whole time Botanist who should be a thoroughly competent man, to be appointed for 5 years. Mr Thurston however urged that the herbarium wanted putting in order and jointly with Dr. Bourne proposed the scheme which is set out below on the ground that under it necessary preliminary work would be best done so that if Dr Bourne was not able to go on with it, a man coming out new from Europe though a stranger would be able to get to work with comparatively little difficulty. This proposal was approved tentatively by Government and is the arrangement now existing. The main features of the scheme are;

(1) that Dr Bourne should undertake the duties of Government Botanist in addition to his duties at the Presidency College;

(2) that native graduates ~~were to~~ should be appointed there to teach Zoology and Geology and, that Dr Bourne ~~was~~ should finally ~~to~~ teach only Botany;

(3) that Dr Bourne ~~was to~~ should remain principally at Madras at work at the herbarium &c;

(4) that Dr Bourne ~~was to~~ should be paid Rs 30 xxx a month in addition to his Pres. College pay the whole cost of the Botanist to be

Rs 1020 per annum.

In modification of this Dr Bourne now proposes; ~~to~~

1. that Rangachari his assistant, should be appointed Govt. Botanist;
2. that as it has been arranged to ~~teach~~ appoint an Asst. Professor of Zoology at the Pres. College from next year, he is to carry on and to extend the teaching of Botany. He does not say what is to become of Geology. He proposes however to defer the teaching of Botany at the College for two years while he devotes himself to touring, giving his whole time to the survey. At the end of the two years he wants to take furlough, and work out at Kew the various problems which have arisen. This would put the matter on such a basis that Rangachari could continue the work

a Lecturer in Geology has already been appointed.

The ~~question~~ proposal amounts to the abolition of the Professorship of Botany for a somewhat indefinite time. In what capacity Dr Bourne is to work for two years does not appear.

The question which now arises is how the Botanical Survey of Madras which India states to have been elsewhere finished satisfactorily can be best carried out here. The herbarium is only one result but that on which Mr Thurston seems to have fixed his gaze. It is not the chief object of the survey. I submit that the finding, examination, classification, and the proper publication of the results will take the full time of a botanist thoroughly trained in the latest science for the full term of five years. If the thing is worth doing at all it should be

REVENUE DEPARTMENT.

Current No.

From

Dated 189 .

FOR ORDERS.

done well, and it seems necessary therefore to get a really competent man from England who will work at the matter con amore since Dr Bourne seems really to prefer his Professorship

25-9-17. Ed Dept

So far as the teaching of Botany is concerned, any proposals which affect that, should be referred in order that the opinion of the G.O.P. may be taken. 8-10-17

29/9/17

In draft:

9/10/17.

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D 1,000—8-4-97.

REVENUE DEPARTMENT.

re appointment of a Govt Botanist

No.

From Dr Bourne

Dated 189 .

FOR ORDERS.

Recirculated to the
Hon Mr J G Cox etc
1. with reference to Sir
H Blake's suggestion
of a conference & the
note thereon
2. & to the Hon Sir H Blake KCMG

I don't object how Conference such as the Hon Sir H Blake proposes, but I think there is enough in Dr Bourne's letter to warrant consideration of the question of a conference as held, & Mr Cox & Dr Bourne asked to attend the next meeting of Council.

JG
22/11/97

C. 19/11/97.

Is it whether Hon members want a conference held on 20, & at what time & place

MH
18-11-97

JG 19.11.97

If my hon Colleagues are clear as to this, a conference unnecessary

HS
22/11/97

Officers

FOR ORDERS.

Rd. the Governor
(for approval of the letter to India) ans[illegible]
[illegible]

A.S.H
25.11.97

12

Read Again.
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1897. Current, ICULTURE

ac

G.O., No. 9908/2[illegible]

Dr. Bourne[illegible]
it clear that there is st[illegible]
field for botanical researc[illegible] Right
Presidency. The Government is[illegible] in ob-
unable to accept Dr. Bourne's sug[illegible] the
as to the futur[illegible] conduct of the bot.
-ical survey as this course would involve
the indefinite postponement of the
question of obtaining a competent bo-
tanist from England & would delay the
commencement of botanical teaching at
the Presidency College for two years
at least.

2. In these circumstances His Excel-
lency the ~~the~~ Governor in Council re-
solves to adhere to the original in-
tention of this Government to obtain a
qualified botanist from England . In
view of the difficulty experienshould
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3. The fo[illegible]on Botany at the Presidency
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To The Su[illegible]ill be at Madras. It will
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A.S.H
Dec. 9-12-97
Despatch
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at as early a date as possible.

1897.

DEPARTMENT OF REVENUE AND AGRICULTURE.

From

The Government of Fort St. George.

Recd.	1897.	*Enclosures*
Regd.		*Spare copies*

Letter, No. 991, 26th November 1897.

NOVEMBER.

REQUESTING that the sanction of the Right Hon'ble the Secretary of State may be obtained to the appointment of a botanist for the Madras Presidency, and that His Lordship may be requested to select and appoint a suitable person for the place at as early a date as possible.

REVENUE DEPARTMENT.

From

G. S. FORBES, Esq., I.C.S.,
Ag. Secretary to the Government of Madras,

To

The SECRETARY to the GOVERNMENT of INDIA,
Department of Revenue and Agriculture,

Dated Fort St. George, 26th November 1897.

Sir,

In continuation of Mr. Stokes' letter, No. 647, Revenue, dated 28th July 1897, and with reference to Mr. Maconochie's reminder No. 2632-1—K.W., dated 14th September 1897, I am directed to address the Government of India further on the subject of the appointment of a Government botanist for this Presidency.

Miscellaneous.

2. In paragraph 4 of Mr. Stokes' letter No. 92, Revenue, dated 15th February 1897, it was stated that His Excellency the Governor in Council had, as an experimental measure, entrusted the duties of the Government botanist to Dr. Bourne, Officiating Superintendent of the Government Central Museum, and it was also stated that His Excellency the Governor in Council would devote further consideration to the subject on the receipt of a report from Dr. Bourne on the results of his examination of the herbarium and of the late Mr. Lawson's notes. This report has now been received, and it is clear therefrom that the botanical survey of this Presidency is still far from complete and that its satisfactory prosecution would engross a large portion of the undivided time and labour of a qualified officer. The work cannot be entrusted therefore to Dr. Bourne as a permanent arrangement, unless he is at the same time relieved of the professorial duties which he will resume on Mr. Thurston's approaching return from furlough.

His Excellency the Governor in Council is unable to recommend any such course, and accordingly, after careful consideration, has resolved to revert to the original proposal of this Government to obtain a competent botanist from England. In view of the difficulty experienced by the Right Hon'ble the Secretary of State in obtaining a qualified candidate for the appointment on the salary originally offered, viz., Rs. 400 per mensem, rising by annual increments of Rs. 50 to Rs. 600 per mensem, with free quarters, His Excellency the Governor in Council has reconsidered this matter and would propose to fix the pay of the appointment at Rs. 500 per mensem rising by annual increments of Rs. 50 to Rs. 700 per mensem, with free quarters. As stated in the Revenue despatch of this Government to the Right Hon'ble the Secretary of State, No. 4, dated 13th July 1895, the officer selected should be given to understand that he will be under the general control of the Superintendent of the Government Museum at Madras, and in addition to his ordinary duties as botanist and the superintendence

of the portion of the botanical survey of India which appertains to this Presidency, he may be required to lecture on Botany at the Presidency College and to examine on that subject for the Madras University. His head-quarters will be at Madras. It will also be necessary for him to pass the same test in Tamil as officers of the Forest department appointed from England.

3. I am to request, therefore, that the sanction of the Right Hon'ble the Secretary of State may be obtained to the present proposal, and that His Lordship may be requested to select and appoint a suitable person for the appointment at as early a date as possible.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) G. S. FORBES,
Ag. Secretary to Government.

Exd. Shaik Karim.

69 Copies.

Government {1897} of Madras.

REVENUE.

Fd. / Regd. } 1897. Enclosures / Spare copies

G.O., No. 990, 26th November 1897.

NOVEMBER.

Botanist.

Stating that a letter will be despatched to the Government of India for obtaining a qualified — from England for the future administration of the Botanical department in the Madras Presidency.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—again G.O., No. 91, Revenue, dated 15th February 1897.

Read—also the following letter from A. G. Bourne, Esq., D.Sc. F.R.S., Acting Superintendent, Government Museum, Madras, to the Secretary to Government, Revenue Department, dated 6th September 1897, No. 626:—

With reference to paragraph 2 of G.O., No. 91, Revenue, dated 15th February 1897, I have the honour to submit the following remarks.

2. Mr. Lawson and Abboye Naidu (late herbarium keeper, Government Museum) having both died before I commenced the present investigation without having placed on record any general notes with regard to the collections, I have had to depend upon intrinsic evidence only for my information.

3. I gather that at one time or another all the specimens passed through Mr. Lawson's hands and that he only returned to Madras specimens of species of which he had ample materials. I have now re-united the collections and have thereby greatly strengthened the material in very many cases. I have, however, segregated, at any rate as a temporary measure, all specimens of species represented in Southern India from the other Indian and Extra-Indian species. As this report has reference to the botanical survey of Southern India, I shall speak only of the South Indian species. The collection consists of specimens collected for it by Wight, W. Elliot, Drew, Cleghorn, Beddome, Bidie and Lawson and of specimens presented from the Herbaria of Kew, Calcutta, Poona, Peradeniya, C. B. Clarke, Gamble, Cameron, Bourdillon and others. There are also a large number of specimens emanating from two or three sources which I have up to now been unable to localize. The number of specimens added by Mr. Lawson particularly from the Nilgiris is very great indeed. In addition to the sheets of dried plants there is a collection of seeds and fruits formed by Mr. Lawson which I have united with a similar collection made by Mr. Gamble which was transferred from the office of the Conservator of Forests, Central Circle, to the Museum.

Mr. Lawson left a small collection of coloured drawings of plants chiefly orchids and balsams, but no systematic collection of notes; there are, however, short but valuable notes in his handwriting upon many of the sheets bearing the specimens themselves. His chief work is expressed in the arrangement of the herbarium itself, the bringing together what he considered to be specimens of one and the same species although described under various names. This determination of the synonomy is, of course, a very important factor of all herbarium work; I only wish to point out that the position of a particular specimen in a particular cover may represent much labour.

4. The list which I have prepared and which is, I fear, owing to my having had to expedite this report, not as free from errors as I could wish, shows—

(i) that a considerable number of species not hitherto recorded from Southern India do occur;

(ii) that a very large number of species which have been recorded from Southern India are not represented in the herbarium.

Of the former group one or two only appear to be new species and undescribed; of the latter the great majority are gaps several of which I have already filled as the result of my recent tours while others will be easily filled by a good collector in the course of a series of tours in the Presidency. There are, however, many cases in which the absence of a species indicates that Mr. Lawson had come to the conclusion that it was synonomous with some other species. I have not attempted to pick these out as each case affords matter for critical work.

I am asked to suggest the nature and extent of the operations required to bring the botanical survey of Southern India to completion. I need hardly point out that it is a work which cannot ever be said to be complete. A considerable amount remains, however, to be done before our knowledge of the South Indian flora equals that of many other parts of India or of Ceylon.

In the first place the herbarium needs strengthening not only by the representation of species at present not represented at all, but by the more ample representation of most of the other species, a great deal of work has to be done upon fresh material and when the chief districts of the Presidency (I mean districts likely to vary botanically) have been each two or three times visited so as to secure flower, fruit, &c., it will be possible to commence a hand-book to the flora to carry out which to the end will, however, entail some work at the herbaria in Calcutta and Kew.

6. I hope that I shall not be exceeding my instructions if I add one or two suggestions in continuation of the memorandum submitted by Mr. Thurston and myself and printed in the Government Order under reference.

K. Rangachari, whom I appointed herbarium keeper on the death of the late incumbent, took a first class in Botany at the examination for the Master of Arts in 1894. He has since been a schoolmaster at Anantapur, where he devoted his leisure to further botanical study and accepted this appointment, although on a considerably lower salary on account of his love of the subject. He has proved himself on the tours I have recently taken a most admirable and critical collector. I think that if the scheme proposed in the above-mentioned memorandum be adopted I might gradually withdraw from all except a general control and that he might eventually perform the duties and draw the full salary of Government Botanist.

It has been arranged that an Assistant Professor of Zoology be appointed to the Presidency College from the beginning of next year and I am to carry on and extend the teaching of Botany. I venture to suggest that the botanical teaching should be deferred for, say, a couple of years while I devote my whole attention to the survey by touring throughout the Presidency at the end of which time I shall be glad to take furlough which I am prepared to devote to the working out at Kew of the various problems which have arisen; this would, I think, put matters upon such a footing that K. Rangachari could continue the work.

Read—letter from the Acting Superintendent, Government Museum, dated 16th September 1897, No. 655.

Abstract.—Enclosing a proof copy of the list of plants referred to in his No. 626 of the 6th instant.

Read—also the following letter from E. Maconochie, Esq., I.C.S., Officiating Under Secretary to the Government of India (Department of Revenue and Agriculture), to the Secretary to the Government of Madras, Revenue Department, dated Simla, the 14th September 1897, No. 2632-1—K. W.:—

I am directed to invite a reference to your letter, No. 647, dated the 28th July 1897, and to enquire when the Government of India may expect to receive the further communication promised on the subject of the Botanical Department, Madras Presidency.

Order—No. 990, Revenue, dated 26th November 1897.

Miscellaneous.

Dr. Bourne's report makes it clear that there is still an ample field for botanical research in this Presidency. The Government is, however, unable to accept Dr. Bourne's suggestions as to the future conduct of the botanical survey, as this course would involve the indefinite postponement of the question of obtaining a competent botanist from England and would delay the commencement of botanical teaching at the Presidency College for two years at least.

2. In these circumstances, His Excellency the Governor in Council resolves to adhere to the original intention of this Government to obtain a qualified botanist from England. In view of the difficulty experienced by the Right Hon'ble the Secretary of State in finding a competent expert for the salary offered, viz., Rs. 400—50—600 per mensem, with free quarters, His Excellency the Governor in Council resolves to fix the pay of the proposed appointment at Rs. 500—50—700 per mensem, with free quarters.

3. The following letter will be despatched to the Government of India.

(True Extract.)

(Signed) G. S. FORBES,
Ag. Secretary to Government.

To the Superintendent, Government Central Museum.
Copy to Educational Department (with copy of letter to India).

Exd. Shaik Karim.

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O. No. DATED.

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