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* A Review of *
* FOREST WEALTH OF CHANDRAPUR *
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* PART I *
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A Review of
FOREST WEALTH OF CHANDRAPUR
(Maharashtra State)

By

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P R E F A C E

The revised "Wealth of India" volumes of C.S.I.R., New Delhi, the recent publication of the book "Medicinal Plants of India, Vol.I (1976) by I.C.M.R., New Delhi, the monograph "Bibliography of Investigated Indian Medicinal Plants (1950-75) by M.A. Iyengar plus several reviews, monographs, articles, etc. attests to a heightened interest in the field of natural products by the Scientific community. However, in the area of chemistry pertaining to the natural products, no treatise is complete enough which can evaluate the present state of our knowledge in this field. Several authors have made efforts to write highly specialised articles on subjects like alkaloids, flavones, wood phenolics, etc., but they cannot be of a comprehensive nature because of the vast accumulated literature and almost terrifying rate of its growth every year. I have little experience of writing review articles and as a modest contributor to the review literature of limited scope, I have made an effort to add little more to whatever that is already published.

This review is intended for workers who have interest in the field of natural products. It is hoped, this work will appeal to phytochemists, synthetic organic chemists, pharmacologists, pharmacognosists and their students. Hopefully, there will be industrialists, rural economists, and Government authorities connected with forests who will read this treatise with commercial interest.

The present review aims at presenting briefly the economic and medicinal uses of different types of forest vegetation available in Chandrapur region including their chemical constituents. By presenting survey of the relevant literature, I wish to assist the reader in his eventual further search and to facilitate the aquisition of the necessary data.

This work is not up-to-date. Most of the references date upto 1975, those which are more than fifteen years old are omitted.

The greater part of the review comprises briefly, a description of the medicinal and economic uses of well known species in each family. However, an attempt has been made

to provide the research worker with the names of species which have not been investigated but their tribal uses are known. It is possible, these species have no essential function at all. At present we do not know.

Literature citations are from Chemical Abstracts. This review includes two tables. Table I gives the important species available in Chandrapur along with their local names and their occurrence in an abbreviated form. The medical and economic uses of these species are catalogued in Table II. All the reference work has been done by Mrs. Vijaya S. Bhat, a job which is time consuming and tiresome.

The present work has been made possible by the whole hearted response of some of my colleagues in this field who eagerly waited for this work to come out in the present form. I shall be failing in my duty if I do not express my indebtedness to Dr. R.B. Mitra and Shri A.M. Lele for their valuable support to my effort in bringing out this review. I wish to thank the Director for permitting me to work on this scheme. Finally, I request readers to make up any omissions I have made by consulting original references.

December 26, 1977

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INTRODUCTION

Chandrapur District of the State of Maharashtra is situated at $78^{\circ} 51'$ - 81° east longitude and $20^{\circ} 51'$ - $18^{\circ} 40'$ north latitude in the Godavari basin. The Wainganga river passes through the middle of the District; touching Warsa, Armori, and Garhchiroli and it is joined near Aheri by Dina river. The new river thus formed is known Pranhita river near Sironch and it finally joins the river Godavari. The Chanda District is bordered on the eastern side by Bastar district of M.P. near Dechili. On the Western side near Sironcha lies Adilabad, the District of Andhra Pradesh.

Forests is an important sector in the economy of the Chanda District. A remarkable feature of these forests is their abundance. Forests cover about 56 percent of the District's total area. There are several dense forest reserves like Ikara, Porla, Bramhapuri, Kolsa, Taroba, Kanhargaon, Lakkarkote, Mulchera, Allapalli, Elgurtola, Jimalgatta, Koppela, Somanpalli, etc. in the district (See Appendix A).

The forest vegetation of the district is of mixed deciduous type. These forests can be divided into three layers. The first layer form the top canopy, particularly in Ikara, Kolsa, Jimalgatta and Taroba reserves. The most important produce of these forests is the world famous Sagaon (Teek). Ain, Bija, Bhirra, Chichwa, Chikunda, Dhavada, Kulu, Kalab, Lendia, Paral, Rohan, Semul, Sirisha, Takoli, Tendu, etc. are other important species of the trees available in these areas (See Appendix B).

The second layer of the forests is formed by a mixture of a number of small trees and shrubs. The commercially important forests produce of this layer are: Achar, Ahl, Amta, Anjan, Behera, Dikamali, Garari, Haldu, Indarjao, Kanta-kauchi, Palas, etc. (See Appendix C).

The trees are often loaded with the epiphytes like *Vanda tasselata* and parasites like *cassytha filiformis*, *Dendrophthoe falcata* and *viscum articulatum*, etc.

Bamboos and prickly thickets of canes are often met with in forest areas of Manekshagarh, Etapalli, Muramgaon, etc.

The undergrowth which forms the third layer of vegetation in the forest area is generally rich after the monsoon. In the deep interiors of the forests, the herbs, grasses, and a few undershrubs are frequently met with. (See Appendix D).

The forests are also rich in lianas and climbers like chilar, Gunja, Ukshi, Waghote, Kavatch, Shataori, etc. (See Appendix E).

In open countryside, trees like Am, Aonla, Bar, Bel, Imlil, Pimpal, Jamun, etc. are generally seen. (See Appendix F).

The Chanda District abounds in lakes, ponds and puddles, therefore, it is known as the Lake-District of Maharashtra and accordingly an interesting aquatic flora also is met with in this area. The common species recorded are from the marshy and water-logged areas (See Appendix G).

A floristic account of the forests of the Chanda District was lacking. Haines (1916) first mentioned some plants from the District. A few more plants were later added by Tiwari (1954, 1955 and 1963) and Tiwari et Maheshwari (1964). A general account of the vegetation of the forests of the South and East of Chanda division was presented by Agrawal (1957). Malhotra and Moorthy, Botanical Survey of India, Poona, surveyed the greater part of the area and published (1971) an exhaustive account of the flora of the District which forms the basis of this Chemical review.

The forests in Chanda have about 800 different species distributed amongst 540 genera and 115 families. [Besides these commercially important forests produce, grass of coarser varieties (15,000 M. Tonnes) and generally not used as fodder, are available. Again Chanda being mainly a rice growing area, rice mills pre-ponderate in the District and they number about 500. These rice mills produce rice bran and rice husk, which are not utilised adequately. Similarly, Oil seeds are the major crops available for industrial use in the District, the important among which are linseed, sesamum, and ground nut. Similarly, there are 2000 cubic meters of Khair trees. The anticipated production of secondary timber, fuel wood, waste grass, linseed straw, rice husk, rice bran, etc. may be approximately 3-5 lakh tons.] The largest number of species are from Acanthaceae, Asteraceae, Cyperaceae, Euphorbiaceae, Fabaceae, Malvaceae, and Rubiaceae.

The forests in Chanda have a vast industrial potential. Still no attempt has so far been made to assess these resources and chalk out a systematic plan for their optimum utilisation. It is a strange paradox that whilst immense potential in Chanda District goes waste, Maharashtra has to import items based on forest produce from abroad or from other Indian states. Complete and rational utilisation of the natural resources of the area, therefore, is absolutely necessary. It is with this intention that an effort has been made to gather all available information in literature about the commercially useful and medicinally important species of the Chanda District.

In this review ~~(to be published in parts)~~ families, genera and species are arranged according to the system of Bentham and Hooker. The families are arranged alphabetically. ~~But, occurrence and location are mentioned briefly. The~~ ~~characteristic features of each botanical family is described.~~ The main enumeration is on the Chemical constituents of the useful species of the Chanda District followed with necessary references. ~~No~~ Effort has been made to collect information on the medicinal properties of the well-known species, ~~since most~~ ^{from} ~~of which are found in~~ works like Chopra et al (1956), Dastur (1951) and Wealth of India (1948-1962). The less known species about which hardly any information is available in these works are only mentioned and left.

The forest reserves of the Chanda District

Aheri	Kamlapur	Somanpalli
Aksapur	Kanhargaon	Sondhu
Allapali	Karva	Sindhewahi
Ambela	Kattajhari	Sironcha
Arkapalli	Keslaghat	
Armori	Khatora	Talwara
Ashti	Khanderi	Tamura
	Kini	Taroba
	Kistapur	Telinela
Ballarpur	Kolsa	
Bamni	Koppela	Wadhara
Bhotajhari	Kothari	Wainganga
Bramhapuri	Korti	Warora
	Kotgul	Warsa
Chandrapur	Kurkhera	Wamanpalli
Chandur	Kukrel	Wirur
Chatgaon		
Chorampalli	Lakkarkote	
	Lohara	Yakalpur
Dechili		
Devadha	Maneshahgarh	
Dhaba	Manikgarh	
Dhanora	Markhanda	
	Maseli	
Elchill	Mersa casa	
Elgurtola	Mesa	
Etapalli	Mohri	
	Mosum	
	Mul	
Garlapeth	Mulchera	
Garhchiroli	Muramgaon	
Ghantachowki		
Ghorajhari	Nagbhir	
Ghondpipri	Naleshwar	
Ghot		
Gomni		
Guddinala	Pambhurna	
	Pandarpani	
Ikara	Pangri	
	Peepalkut	
	Porla	
Jamni		
Jhari	Ramdhegi	
Jimalgatta	Rajura	
Junana	Rajoli	
	Reghewahi	
	Reghri	
	Repanpalli	

Appendix 'B'

The top canopy of the forest reserves of the
Chanda District

Alibizia lebbeck	Lagerstroemia parviflora
A. Odoratissima	Mitragyna parvifolia
Anogeissus latifolia	Soymida febrifuga
Bombax ceiba	Sterculia urens
Chloroxylon swietenia	Stereospermum suaveolens
Dalbergia lanceolaria	Tectona grandis, etc.
Diospyros melanoxylon	

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Appendix 'C'

The Second layer of the forest reserves of the
Chanda District

Adina cordifolia	G. tiliaefolia
Bridelia retusa	Helicteris isora
Butea monosperma	Holarrhena antidysenterica
Capparis grandis	Indigofera cassioides
Clerodendrum serratum	Lantana camara
Cleistanthus collinus	Leea edgeworthii
Dodonaea viscosa	L. macrophylla
Desmodium pulchellum	Moghania strobilifera
Eriolaena hookeri	Pavetta indica
Erythroxylon monogynum	Woodfordia fruticosa, etc.
Flacourtia indica, etc.	
Gardenia gummifera	
G. resinifera	
Garuga pinnata	
Grewia abutilifolia	

Appendix 'D'

The undergrowth in forest area of the
Chanda District

Albelmoschus manihot	Hedyotis coerulea
Abutilon indicum	Heteropogon contortus
Acalypha indica	Hybanthus enneaspermus
Achyranthus aspera	Indigofera linifolia
Ageratum conyzoides	Lindernia ciliata
Alysicarpus vaginalis	L. Crustacea
Ammania baccifera	Lepidagathis cristata
A. multiflora	Lipocarpa chinensis
Andrographis paniculata	L. triceps
Blumea membranacea	Mitrasacme alsinoides
Bothriochloa pertusa	Mollugo pentaphylla
Centotheca lappacea	Oplismenus compositus
Chrysopogon falvus	Orthosiphon pallidus
Coldenia procumbens	Osbeckia zeylanicum
Corchorus aestuans	Pavonia zeylanica
Costus speciosus	Perotis indica
Crotalaria hirsuta	Phyla nodiflora
C. hirta	Rhynchosia aurea
C. pusilla	R. minima
C. ramosissima	Sida Cordata
Curculigo orghioides	Uraria picta
Cyanotis cristata	Urena lobata
Cymbopogon martinii	Urgenia indica
Cyperus iria	Vernonia cinerea
C. rotundus	Veteveria Zizanioides
Dactyloctenium aegyptium	Walthera indica
Desmodium gangeticum	Xanthium strumarium
Eleusine indica	Zornia gibbosa, etc.

Appendix 'E'

The Lianas and Climbers of the forest reserves
of the Chanda District

Abrus precatorius	Galactia tenuifolia
Ampelocissus latifolia	Hemidesmus indicus
Arstolochia indica	Ichnocarpus frutescens
Atylosia Scarabaeoides	Mucuna prurita
Calycopteris floribunda	Phanera vahlii
Cissampelos pareira	Symphorema polyandrum
Cryptolepis buchanani	Teramnus labialis
Derris scandens	Ventilago denticulata, etc.
Dioscorea pentaphylla	

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Appendix 'F'

The trees and shrubs of the open countryside
of the Chanda District

Ailanthus excelsa	Ficus benghalensis
Azadirachta indica	F. religiosa
Bauhinia variegata	Hibiscus lampas
Calotropis gigantea	Mangifera indica
Capparis zeylanica	Millingtonia hortensis
Cassia auriculata	Moringa oleifera
C. siamia	Pelliphorum pterocarpum
Casuarina equisetifolia	Tamarindus indica
Delonix regia	Terminalia tomentosa
Derris indica	Vitex negundo
Embllica officinalis	Zizyphus mauritiana, etc.

Aquatic flora of the Chanda District

Ceratophyllum demersum	Nelumbo nucifera
Ipomoea aquatica	Nymphaea nouchali
Limnophila indica	N. Stellata
Limnophyton obtusifolium	Pistia stratiotes
Monocharia vaginalis	Tenagocharis latifolium
Myriophyllum spathulatum	

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Species recorded from the marshy and
water-logged areas

Aeschenomene aspera	Elephantopus scaber
A. indica	Eriocaulon diana
Bothriochloa pertusa	E. truncatum
Dentella repens	Ludwigia octovalis
D. serpyllum	Melochia corchorifolia
	Paspalum vaginatum
	Rotala imidica
	Xyris pauciflora

Bibliography

1. Haines, H.H.
Descriptive list of trees, shrubs and economic herbs
of the Southern Circle, Central Provinces, Allahabad
(1916).
2. Agrawal, S.C.
Economic Products of Chandrapur Forests (Chanda Dist.)
Forest Department, Nagpur (1957).
3. Tiwari, S.D.N.
The grasses of M.P.; Ind. Jr. For., 80, 601-611, 1954;
ibid, 81, 107-115 and 191-200 (1955);
ibid, 89, 593-602 (1963).
4. Maheshwari, J.K.,
The Cyperaceae of M.P.,
Ind. Jr. For. 90, 147-159 and 616-629 (1964).
5. Malhotra, S.K. and Moorthy, S.
A few plant records for Maharashtra State from
Chandrapur District-I, Bombay nat. Hist. Soc. 68(3),
856-857, 1971.
6. Malhotra, S.K. and Moorthy, S.,
Materials for the Flora of Chandrapur District
(Maharashtra State), Bull. Bot. Sur., India 15 (3) and (4)
pp.292-318 (1971).
7. Malhotra, S.K. and Moorthy, S.,
Some useful and medicinal plants of Chandrapur District
(Maharashtra State). Unpublished.
8. Chopra, R.N., Nayar, S.L. and Chopra, I.C.
Glossary of Indian Medicinal Plants, CSIR Publication,
New Delhi (1956).
9. Watt, G.
Dictionary of the Economic Products of India,
Vols.I - VI, Periodical Experts, Dehra Dun.
10. The Wealth of India (Raw materials), Vols. I - VII
CSIR Publications, New Delhi, (1948 - 66).

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TABLE I

FOREST WEALTH OF CHANDRAPURAbbreviations

Occurance : C - Common VC - Very common
 OS - Occasionally seen R - Rare
 Cul - Cultivated.

Sl.No.	Botanical Name	Local Name	Occurrance	Page No. in Table
II. Part I.				
<u>Acanthaceae</u>				
1	Adhatoda vasica (Linn) Nees	Adulsa	Cul.	1
2	Andrographis paniculata (Burm) Wall ex Nees	Oli-kiryata	C	1
3	Barleria cristata Linn	Jhinti	C	2
4	Dipteracanthus prostratus (Poir) Nees	Kalighavani	C	2
5	Haplanthus verticillatus (Roxb) Nees	Jhankara	C	2
6	Lipidagathis cristata Willd	Bhuitera	C	2
7	Peristrophe bicalyculata (Retz) Nees	Ghatipitta papada	VC	2
8	Rungia repens (Linn) Nees	Khadsalio	C	2
<u>Alangiaceae</u>				
1	Alangium salviifolium (Linn) Wang	Ankola	C	3
<u>Amaryllidaceae</u>				
1	Crinum defixum ker-Gawl	Vishamandala	Cul	4
2	Polianthes tuberosa Linn	Gulcheri	Cul	4
<u>Amaranthaceae</u>				
1	Achyranthes aspera Linn	Aghada	VC	4
2	Aerva lanata (Linn) Juss	Pashanabheda	C	5
3	Amaranthus spinosus Linn	Kantemath	C	5
4	A. tricolor Linn	Kirai	C	5

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Sl.No.	Botanical Name	Local Name	Occurr- ance	Page No.
5	A. Viridis Linn	Lhanamat	C	5
6	Celosia argentea Linn	Kurdu	C	5
7	C. cristata Linn	Mayurshikha	Cul.	6
8	Digera muricata Linn Mart	Getan	C	6
<u>Annonaceae</u>				
1	Annona squamosa Linn	Sitaphal	C	6
2	Polyalthia longifolia Benth	Asoka	Cul.	7
<u>Apocynaceae</u>				
1	Holarrhena antidysenterica (Linn) Wall	Kura	OS	7
2	Ichnocarpus frutescens R.Br	Dudhbel	OS	7
3	Nerium indicum Mill	Kanhera	Cul.	8
4	Rauwolfia serpentina (Linn) Benth ex Kurz	Chandra	Cul.	8
5	Catharanthus roseus G. Don	Sadaphuli	Cul.	9
<u>Aristolochiaceae</u>				
1	Aristolochia indica Linn	Sapasan	Cul	9
<u>Araceae</u>				
1	Pistia stratiotes Linn	Prashni	C	10
<u>Asclepiadaceae</u>				
1	Calotropis procera (Ait) R. Br	Mandara	C	10
2	Cryptalepis buchanani Roem and Schult	Karanta	VC	11
3	Dregea volubilis (Linn) Benth	Dodhi	VC	11
4	Hemidesmus indicus R. Br	Anantamula	OS	12
5	Halostema annularis K. schum	Durdurli	OS	12
6	Gxystelma esculentum R. Br	Dudhika	OS	12
7	Pergularia daemia (Forsk)	Utarni	C	12

Sl.No.	Botanical Name	Local Name	Occurr- ance	Page No. Part II.
8	Sarcostemma acidum (Roxb) Voigt	Somawalli	R	12
9	Tylophora fasciculata Ham ex Wight	Bhuidari	OS	13
10	Gymnema sylvestre R. Br	Kavali	OS	13

Asteraceae
(Compositae)

1	Ageratum conyzoides Linn	Osari	VC	13
2	Blumea lacera DC	Nimrudi	OS	13
3	Eclipta prostrata Linn	Bhangra	VC	14
4	Echinops echinatus Roxb	Utanti	C	14
5	Elephantopus scaber Linn	Hastipata	OS	14
6	Emilia sonchifolia DC	Sadamandi	C	15
7	Vernonia anthelmintica Willd	Kalenjiri	VC	15
8	V. cinerea Less	Sadodi	VC	16
9	Xanthium strumarium Linn	Shankeshwara	VC	16

Anacardiaceae

1	Anacardium occidentale Linn	Kaju	Cul.	17
2	Buchanania lanzan Spreng	Charoli	Cul.	17
3	Lannea coromandelica (Houtt)	Moi	R	17
4	Semecarpus anacardium Linn	Biba	Cul	18

Bombaceae

1	Bombax ceiba Linn	Semal	C	19
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Balsaminaceae

1	Impatiens balsamina Linn	Terada	OS	19
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Burseraceae

1	Boswellia serrata Roxb	Salai	C	20
2	Gaiuga pinnata Roxb	Kharpot	R	21

Sl.No.	Botanical Name	Local Name	Occurrence	Page No.
<u>Boerhaaviaaceae</u>				
1	<i>Cordia dichotoma</i> Forst	Shelvant	R	21
2	<i>Heliotropium indicum</i> Linn	Bhurundi	C	21
3	<i>Rotula aquatica</i> Lour	Pashan.bheda	C	22
4	<i>Trichodesma indicum</i> R. Br	Lahana-Kalpa	VC	22
<u>Bignoniaceae</u>				
1	<i>Dolichandrone falcata</i> seem	Medasingi	C	22
2	<i>Kigelia pinnata</i> DC	-	Cul.	22
3	<i>Stereospermum suaveolens</i> (Roxb) DC	Pandri	C	23
<u>Barringtoniaceae</u>				
1	<i>Barringtonia acutangula</i> Gaertn	Piwar	C	23
<u>Capparidaceae</u>				
1	<i>Capparis zeylanica</i> Linn	Govindi	C	24
2	<i>Crataeva religiosa</i> Hook	Vayavarna	C	24
<u>Caryophyllaceae</u>				
1	<i>Polycarpea corymbosa</i> Link	Bhiska	C	25
<u>Caesalpinaceae</u>				
1	<i>Bauhinia purpurea</i> Linn	Deva	Cul	25
2	<i>Caesalpinia pulcher-rima</i> Swartz	Gulutora	Cul	25
3	<i>Cassia absus</i> Linn	Chaksie	C	26
4	<i>C. auriculata</i> Linn	Tarwad	C	26
5	<i>C. fistula</i> Linn	Amaltas	C	27
6	<i>C. Occidentalis</i> Linn	Kasoda	VC	27
7	<i>C. Siamea</i> Lam	Kassod	Cul.	28
8	<i>C. Tora</i> Linn	Takla	VC	28
9	<i>C. Delonix regia</i> (BOJ) Raf.	Gul Mohr	Cul	29
10	<i>C. Tamarindus indica</i> Linn	Chinch	C	29

Sl.No.	Botanical Name	Local Name	Occurrence	Page No. <i>Part II.</i>
<u>Casuarinaceae</u>				
1	Casuarina equisetifolia Forst	Suru	Cul	30
<u>Celastraceae</u>				
1	Celastrus paniculatus Willd	Malkangini	C	30
2	Meytenus emerginata Willd	Dhanti	C	31
<u>Cannabinaceae</u>				
1	Cannabis sativa Linn	Bhang	OS	32
<u>Cleomaceae</u>				
1	Cleome viscosia Linn	Kanfodi	C	32
<u>Combretaceae</u>				
1	Anogeissus latifolia Wall	Dhavada	Cul	33
2	Calycopteris floribunda Lam	Ukshi	C	33
3	Combretum decandrum Roxb	Punk	C	34
4	Dalbergia paniculata	Dhobin	C	34
5	Terminalia Arguna W and A	Arjun	Cul	35
6	T. bellirica Roxb	Behara	Cul	35
7	T. Catappa Linn	Jangli Badam	Cul	35
8	T. chebula Retz	Hirda	C	36
9	T. tomentosa Wt and Arn	Ain	Cul	36
<u>Cyperaceae</u>				
1	Cyperus rotundus Linn	Bimbal	VC	37
<u>Convolvulaceae</u>				
1	Cuscuta reflexa Roxb	Akasbel	OS	37
2	Convolvulus microphyllus Seib	Shankpushpi	OS	38
3	Ipomea nil (Linn) Roth	Nil-Pushpi	C	38
4	Evolvulus alsinoides Linn	Shankpushpi	VC	38

Sl.No.	Botanical Name	Local Name	Occurrence	Page No.
5	<i>Ipomea operculata</i> (Linn) Silva Manso	Jalap	OS	39
<u>Chenopodiaceae</u>				
1	<i>Chenopodium album</i> Linn	Bethu	OS	40
<u>Cucurbitaceae</u>				
1	<i>Luffa acutangula</i> Roxb	Ranturai	Cul	40
2	<i>Trichosanthes bracteata</i> (Lam) Voigt	Kaundal	C	40
<u>Discoreaceae</u>				
1	<i>Dioscorea bulbifera</i> Linn	Manakund	OS	40
2	<i>D. pentaphylla</i>	Ulasi	OS	41
<u>Ebenaceae</u>				
1	<i>Diospyros chloroxylon</i> Roxb	Nensi	OS	41
2	<i>D. melanoxylon</i> Roxb	Tendu	VC	41
3	<i>D. montana</i> Roxb	Timru	R	42
<u>Euphorbiaceae</u>				
1	<i>Acalypha indica</i> Linn	Kupsi	C	42
2	<i>Baliospermum montanum</i> Muell-Arg	Dantimul		43
3	<i>Bridelia retusa</i> spreng	Kanta-Kauchi	VC	43
4	<i>Cleistanthus collinus</i> (Roxb) Benth	Garari	C	43
5	<i>Emblica officinalis</i> Gaertn	Aonla	C	44
6	<i>Euphorbia neriifolia</i> Linn	Jhohar	Cul	44
7	<i>E. hirta</i> Linn	Dudanali	VC	44
8	<i>E. Thymifolia</i> Linn	Dhakdidudhi	VC	45
9	<i>Homonoia riparia</i> Lour	Sherni	C	45
10	<i>Jatropha curcas</i> Linn	Ratanjota	C	45
11	<i>Mallotus philippinensis</i> Muell -Arg	Shendri	C	46

Sl.No.	Botanical Name	Local Name	Occurrence	Page No. Part II
<u>Fabaceae</u> (Leguminosae)				
1	Abrus precatorius Linn	Gunja	C	47
2	Aeschynomene Aspera Linn	Sola	C	47
3	A. indica	Kath-sola	C	48
4	Butea monosperma (Lam) Kuntze	Palas	C	48
5	Canavalia ensiformis (Linn)DC	Pandhari abai	OS	48
6	Clitoria ternatea Linn	Gokurna	OS	49
7	Pongamia glabra Vent	Karanj	C	49
8	Less known species	-	-	49 - 53
<u>Lythraceae</u>				
1	Woodfordia fruticosa	Dhuri		53
<u>Flacourtiaceae</u>				
1	Flacourtia indica Merr	Bhekal	C	53
<u>Gentianaceae</u>				
1	Canscora decussata Schult	Sankhvel	C	53
2	Enicostemma hyssopi folium (Willd) Verd	Tanavadi	OS	54
<u>Hypoxidaaceae</u>				
1	Curculigo orghioides Gaertn	Kalimusali	R	54
<u>Lamiaceae</u>				
1	Ocimum basilicum Linn	Saliya	C	54
<u>Linaceae</u>				
1	Erythroxylon monogynum Roxb	Devadaru	C	54
<u>Liliaceae</u>				
1	Asparagus racemosus Willd	Satawarmul	Cul	55
2	Gloriosa superba Linn	Indiat	Cul	56

Sl.No.	Botanical Name	Local Name	Occurrence	Page No. In Table II
3	<i>Iphigenia indica</i> (Roxb) A Gray	Nirpani	C	56
4	<i>Urginea indica</i> (Roxb) Kunth	Jangli-Kanda	VC	58
<u>Malvaceae</u>				
1	<i>Hibiscus cannabinus</i> Linn	Ambari	VC	58
2	<i>Sida cordifolia</i> Linn	Chikana	C	56
<u>Loganiaceae</u>				
1	<i>Strychnos nux vomica</i> Linn	Kuchla	Cul	56
2	<i>Strychnos potatorum</i> Linn	Nirmali	C	57
<u>Meliaceae</u>				
1	<i>Chloroxylon swietenia</i> DC	Bhira	C	59
2	<i>Melia azadirachta</i> Linn	Kadu nimba	C	59
<u>Menispermaceae</u>				
1	<i>Cissampelos pareira</i> Linn	Paharval	C	60
2	<i>Tinospora cordifolia</i> (Willd) Miers	Guluncha	C	60
<u>Mimosaceae</u>				
1	<i>Acacia species</i>	-	C	61
2	<i>Albizia lebbek</i> Benth	Sirisha	Cul	61
3	<i>A. odoratissima</i> Benth	Chikunda	C	61
<u>Moringaceae</u>				
1	<i>Moringa oleifera</i> Lam	Shevgi	Cul	62
<u>Myrtaceae</u>				
1	<i>Syzygium cumini</i> (Linn) Skeels	Jamun	C	62
<u>Nyctaginaceae</u>				
1	<i>Boerhavia chinensis</i> (Burm f.)	-	-	63
2	<i>B. diffusa</i> Linn	Punarnava	C	63

Sl.No.	Botanical Name	Local Name	Occurrence	Page No. in Table
<u>Oleaceae</u>				
1	Nyctanthes arbortristis Linn	Khursi	Cul	63
<u>Orchidaceae</u>				
1	Vanda roxburghii	Rasna	OS	63
<u>Papaveraceae</u>				
1	Argemone mexicana Linn	Kanta dhotra	C	64
<u>Plumbaginaceae</u>				
1	Plumbago Zeylanica Linn	Chitramula	C	64
<u>Palmaeae</u>				
1	Caryota urens Linn	Adhi-supari	Cul	65
<u>Portulacaceae</u>				
1	Portulaca oleraceae Linn	Pasalai	OS	65
<u>Poaceae</u>				
1	Cymbopogon martini (Roxb)	Roshegavat	Cul	65
2	Vetiveria zizanioides (Linn) Nash	Khus	Cul	65
<u>Rubiaceae</u>				
1	Gardenia gummifera Linn	Dikamali	C	66
2	Adina cordifolia (Roxb) Benth and Hook	Haldu	C	66
<u>Rutaceae</u>				
1	Aegle marmelos corr	Bel	C	66
<u>Solanaceae</u>				
1	Datura fastuosa (Linn) Var Alba	Dhustura	C	67
2	Datura innoxia Mill	Safed dhotra	C	67
3	Solanum indicum (Linn)	Dorli	OS	67

Sl.No.	Botanical Name	Local Name	Occurrence	Page No in Table II
4	S. Khasianum Linn	-	Cul.	67
5	S. melongena Linn		OS	67
6	S. nigrum Linn	Kamoni	OS	68
7	S. surattense Linn	Kateli	OS	68
8	Nicotiana tabacum Linn	Tambaku	VC	68
9	Withania somnifera DuRoi	Asvagandha	C	68
<u>Simarouaceae</u>				
1	Balanites roxburghii	Hingam	C	69
<u>Smilacaceae</u>				
1	Smilax zeylanica Linn	Guti.	OS	69
<u>Sapindaceae</u>				
1	Cardiospermum halicacabum Linn	Kanphuti	C	69
<u>Scrophulariaceae</u>				
1	Bacopa monnieri (Linn) Pennell	Brami	C	70
<u>Sterculiaceae</u>				
1	Helicteres isora Linn	Kevani	C	70
2	Melochia corchorifolia Linn	Bilpat	C	71
3	Sterculia Urens Roxb	Gulu	Cul	71
<u>Sapotaceae</u>				
1	Madhuca longifolia Linn	Mohwa	C	71
2	Mimusops hexandra Roxb	Khirni	C	71
<u>Tiliaceae</u>				
1	Grewia hirsuta Vahl Var	Chatarni	C	71

Sl.No.	Botanical Name	Local Name	Occurr- ance	Page No. in Table II. Part 2
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Verbanaceae

1	Gmelina arborea Linn	Shewun	C	72
2	Vitex negundo Linn	Nirgundi	C	72

Zygophyllaceae

1	Tribulus terrestris Linn	Lahanagokharu	WC	73
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Zinziberaceae

1	Costus speciosus (Koen) smith	Pushkarmula	Cul	73
2	Curcuma Zedoaria Ros	Kachura	C	73

ADDENDUM

Other less common species of Chandrapur

Acanthaceae

- 1 Hemiadephus Verticillatus R. Nees
- 2 Hemigraphis latebrosa Nees Var
- 3 Petalidium barlerioides (Roth) Nees
- 4 Ruellia tuberosa Linn
- 5 Rungia pectinata L. Nees.

Amaranthaceae

- 1 Aerva monsoniae (Linn) Mart.

Apiaceae

- 1 Seseli diffusum Roxb

Bigoniaceae

- 1 Heterophragma quadriloculare (Roxb) K.S.
- 2 Millingtonia hirtensis Linn f.
- 3 Spathodia campanulata Beauv.
- 4 S. Suaveolens (Roxb) DC
- 5 Tecoma stans (Linn) H.B.K.

Butomataceae

- 1 Tenagochris latifolia (D. Don) Buchen.

Brassicaceae

- 1 Rorippa indica (Linn) Hiern

Caricaceae

- 1 Carica papaya Linn

Cactaceae

- 1 Opuntia elatior Mill

Caryophyllaceae

- 1 Polycarpon prostratum Forsk A & S.

Caesalpiniaceae

- 1 Cassia mimosoides Linn
- 2 C. obtusifolia Linn
- 3 Parkinsonia aculeata Linn
- 4 Peltophorum pterocarpum DC
- 5 Phanera VahlII (W & A) Benth
- 6 Piliostigma malabaricum Benth

Celastraceae

- 1 Cassine glauca (Rottb) O. Kuntze.

Cannaceae

- 1 *Canna indica* Linn

Cleomaceae

- 1 *Cleome aspera* Koenig
2 *C. gynandra* Linn
3 *C. monophylla* Linn

Combretaceae

- 1 *Combretum decandrum* Roxb
2 *Terminalia crenulata* Roth
3 *Quisqualis indica* Linn

Campanulaceae

- 1 *Wahlenbergia marginata* (Thumb) A. DC.

Ceratophyllaceae

- 1 *Ceratophyllum demersum* Linn

Cyperaceae

- 1 *Bulbostylis barbata* Kunth
2 *Courtoisia cyperoides* Nees
3 *Cyperus allulatus* Kern
4 *C. castaneus* Willd
5 *C. cyperoides* (Linn) O. Kuntze
6 *C. difformis* Linn
7 *C. eleusinoides* Kunth
8 *C. iria* Linn
9 *C. Killigia* Endl.
10 *C. michelianus* (Linn) Link. ssp.
11 *C. Pangorei* Rottb.
12 *C. pumilus* Linn
13 *C. tenuispica* Steud.
14 *Eleocharis atropurpurea* Kunth.
15 *E. capitata* R. Br.
16 *Fimbristylis aestivalis* (Retz) Vahl.
17 *F. argentea* (Rottb) Vahl.
18 *F. junciformis* Kunth
19 *F. littoralis* Gaud.
20 *F. microcarya* F.V. Muell.
21 *F. Ovata* (Burm. f.) Kern
22 *F. schoenoides* (Retz) Vahl.
23 *F. spathaceae* Roth.
24 *F. tetragona* R. Br.
25 *Fuirena glomerata* Lamk.
26 *Lipocarpa chinensis* (Osb) Kern.
27 *L. triceps* Nees.
28 *Mariscus compactus* Druce.
29 *Rhynchospora Wightiana* Steud.
30 *Scirpus articulatus* Linn
31 *S. squarrosus* Linn
32 *S. supinus* Linn
33 *Scleria annularis* Kunth
34 *S. biflora* Roxb
35 *S. tassellata* Willd.

Convolvulaceae

- 1 *Argyreia hirsuta* Linn.
- 2 *I. sericea* Dälz
- 3 *A. strigosa* (Roth) Santet Patel
- 4 *Ipomoea aquatica* Forsk.
- 5 *I. batatas* Poir
- 6 *I. Crassicaulis* (Benth)
- 7 *I. eriocarpa* R. Br.
- 8 *I. hederifolia* Linn
- 9 *I. Obscura* (Linn) Ker-Gowl.
- 10 *I. quamoclit* Linn
- 11 *I. Sepiara* Koenig ex Roxb
- 12 *I. sindica* stapf.
- 13 *Jacquemontia paniculata* (Burm. f.) Hall. f.
- 14 *Merremia aegyptia* (Linn) Urban
- 15 *M. emarginata* (Burm. f.) Hall. f.
- 16 *M. tridenta* (Linn) Hall. f. ssp.
- 17 *Operculina turpethum* (Roxb) Silva Manso
- 18 *Rivia hypocrateriformis* choisy

Commelinaceae

- 1 *Amischophacelus axillaris* (Linn) Rolla Rao
- 2 *A. cucullata* (Roth) Rolla Rao
- 3 *Commelina attenuata* Koen.
- 4 *C. benghalensis* Linn
- 5 *C. diffusa* Burm. f.
- 6 *C. hasskarli* C. B. Clarke
- 7 *C. suffruticosa* Blume
- 8 *C. Undulata* R. Br.
- 9 *Cyanotis cristata* (Linn) D. Don
- 10 *C. fasciculata* (H. ex R.) Schult.f
- 11 *Murdannia nodiflora* (Linn) Brenni
- 12 *M. Scapiflora* (Roxb) Royle
- 13 *M. Spirata* (Linn) Bruck.

Curcubitaceae

- 1 *Coccinia cordifolia* (Linn) Cogn.
- 2 *Ctenolepis garcinia* B. Cl.
- 3 *Cucumis callosus* (Rottl) C. et H.
- 4 *C. melo* Linn Var.
- 5 *C. praphetarum* Linn
- 6 *C. sativus* Linn
- 7 *Diplocyclos palmatus* (Linn) Jeff.
- 8 *Luffa aegyptiaca* Mill
- 9 *Momordica balsamina* Linn
- 10 *M. charantia* Linn
- 11 *Mukia maderaspatana* (Linn) Roem

Dilleniaceae

- 1 *Dillenia aurea* Smith

Droseraceae

- 1 *Drosera burmanni* Vahl.

Euphorbiaceae

- 1 *Acalypha lanceolata* Willd.
- 2 *A. malabarica* Muell-Arg.
- 3 *Bridelia retusa* (Linn) Spreng.

- 4 Croton bonplandianum Bail
- 5 Chrozophora prostrata Dalz
- 6 C. rotteri (Geis) Juss ex Spreng
- 7 Euphorbia elegans spreng.
- 8 E. geniculata Orteg.
- 9 E. orbicularis H.B.K.
- 10 E. parviflora Linn
- 11 E. prostrata Ait
- 12 Homonoia retusa Muell
- 13 Jatropha gossypifolia Linn
- 14 Kirganelia reticulata (Poir) Baill
- 15 Phyllanthus iawii Grah
- 16 P. maderaspatensis Linn
- 17 P. Urinaria Linn
- 18 Tragia cannabina Linn

Eriocaulaceae

- 1 Eriocaulon dianae Fyson
- 2 E. truncatum Ham
- 3 E. quinquangulare Linn
- 4 E. Xeranthemum Mart

Elatinaceae

- 1 Bergia ammannioides Roxb ex Roth

Fabaceae

- 1 Alysicarpus bupleurifolius (Linn) DC
- 2 A. monilifer (Linn) DC
- 3 A. procumbens (Roxb) Schindler
- 4 A. rugosus (Willd) DC
- 5 A. tetragonolobus Kagew
- 6 Atylosia platycarpa Linn
- 7 A. Scarabaeoides (Linn) Benth
- 8 Clitoria ternatea Linn
- 9 Desmodium motorium (Houtt) Merr
- 10 D. Velutinum (Willd) DC
- 11 Dolichos lablab Linn
- 12 Dunbaria glandulosa Prain
- 13 Eleiotis monophylla (Brum. f.) DC
- 14 Galactia tenuiflora (K. ex W.) W & A
- 15 Goniogyne hirta (Willd) Ali
- 16 Indigofera cassioides Rottl. ex DC
- 17 I. glabra Linn
- 18 I. glandulosa Roxb ex Willd
- 19 I. linifolia Retz.
- 20 I. linnaei Ali
- 21 I. nummularifolia (Linn) L. ex A.
- 22 I. oblongifolia Forsk.
- 23 I. trifoliata Linn
- 24 I. trita Linn f.
- 25 Moghania strobilifera st. H. ex H.
- 26 Pseudarthria viscida Wt. & Arn.
- 27 Pterocarpus marsupium Roxb
- 28 Rhynchosia aurea DC
- 29 R. minima DC
- 30 R. rothii Benth ex Ait
- 31 Sesbania bispinosa (Jacq) F. et. R.
- 32 Smithia conferta Sm.
- 33 Tephrosia strigosa Dalz S. & M.
- 34 Teramnus labialis (Linn) Spreng.

- 35 *Uraria Lagopodioides* Merr
- 36 *U. picta* (Jacq) D. ex DC
- 37 *U. rufescens* (DC) S.
- 38 *Vigna dalzelliana* (O.K.) Verdc.
- 39 *V. radiata* (Linn) Wiczek
- 40 *V. triloba* (Linn) Verdc
- 41 *V. unguiculata* (Linn) Walp
- 42 *V. vexillata* (Linn) A. Rich
- 43 *Zornia gibbosa* Span

Gentianaceae

- 1 *Canscora diffusa* R. Br.
- 2 *C. pauciflora* Dalz
- 3 *C. decussata* Roem & Schult
- 4 *Centaurium centaurioides* (Roxb) R.R. et H.
- 5 *Exacum pedunculatum* Linn
- 6 *E. pumilum* Griesb
- 7 *Hoppea dichotoma* Willd
- 8 *Nymphoides cristatum* (Roxb) O.K.
- 9 *N. indicum* O.K.

Haloragaceae

- 1 *Myriophyllum spathulatum* Blatt & Hallb

Hydrophyllaceae

- 1 *Hydrolea Zeylamica* (Linn) Vahl

Hydrocharitaceae

- 1 *Ottelia alsimoides* Pers

Lamiaceae

- 1 *Acrocephalus indicus* Burm. f. O.K.
- 2 *Anisochilus carnosus* Linn Wall
- 3 *Anisomeles heyneana* Benth
- 4 *A. indica* (Linn) O.K.
- 5 *Heptis suaveolens* (Linn) Poit
- 6 *Leonotis nepetifolia* (Linn) Ait. f.
- 7 *Leucas cephalotes* Spreng.
- 8 *L. stricta* Benth
- 9 *L. Zeylamica* R. Br.
- 10 *Ocimum sanctum* Linn
- 11 *Orthosiphon glabrata* Benth
- 12 *O. pallidus* Royle ex Benth

Loganiaceae

- 1 *Cynoctonum mitreola* (Linn) Brit.
- 2 *Mitrasacme alsinoides* R. Br.

Lecythidaceae

- 1 *Careya arborea* Roxb

Lobeliaceae

- 1 *Lobelia alsinoides*

Lythraceae

- 1 *Ammannia baccifera* Linn
- 2 *A. multiflora* Roxb
- 3 *Lagerstroemia indica* Linn
- 4 *L. parviflora* Roxb
- 5 *Lawsonia inermis* Linn
- 6 *Rotala indica* (Willd) Koehne

Loranthaceae

- 1 *Dendrophthoe falca* (Linn f.) B.
- 2 *Viscum articulatum* Burm
- 3 *V. nepalense* spreng

Leeaceae

- 1 *Leea edgeworthii* Sant
- 2 *L. herbacea* Ham.
- 3 *L. macrophylla* Roxb H.

Lentibulariaceae

- 1 *Utricularia scandens* Benj. ssp.

Lauraceae

- 1 *Cassytha filiformis* Linn

Malvaceae

- 1 *Abelmoschus esculentus* (Linn) Moench
- 2 *A. manihot* (Linn) Medic
- 3 *A. moschatus* (Linn) Medic.
- 4 *Abutilon indicum* (Linn) S.
- 5 *A. glaucum* Cav.
- 6 *Gossipium barbadense* Linn
- 7 *G. herbaceum* Linn
- 8 *Hibiscus lampas* Cav.
- 9 *H. lobatus* (J.A.M.) O.K.
- 10 *H. panduraeformis* Burm.
- 11 *H. rosa-sinensis* Linn
- 12 *H. Schizopetalus* Hook f.
- 13 *H. syriacus* Linn
- 14 *H. vitifolius* Linn
- 15 *Kydia calycina* Roxb
- 16 *Malachra capitata* (Linn) Linn
- 17 *Pavonia odorata* Willd
- 18 *P. zeylanica* Cav
- 19 *Sida acuta* Burm f.
- 20 *S. cordata* (Burm. f.) Borss
- 21 *S. Cordifolia* Linn
- 22 *S. mysorensis* Wt. & Arn
- 23 *S. rhombifolia* Linn
- 24 *Urena lobata* Linn

Mimosaceae

- 1 *Acacia chundra* (Roxb) Willd
- 2 *A. procera* (Roxb) Benth
- 3 *Dichrostachys cinera* (Linn) Wt. & Arn.
- 4 *Mimosa hamata* Willd
- 5 *M. rubicaulis* Lamk.
- 6 *Pithecellobium dulce* (Roxb) Benth
- 7 *Prosopis juliflora* DC
- 8 *Samanea Saman* (Jack) Merr
- 9 *Xylocarpus xylocarpa* Taub.

Moringaceae

- 1 Moringa oleifera Lamk

Myrtaceae

- 1 Psidium Cusajava Linn
- 2 Syzygium heyneanum Wall.

Moraceae

- 1 Ficus amplissima J.E.Sm.
- 2 F. arnottiana Miq.
- 3 F. asperrima Roxb
- 4 hispida Linn f.
- 5 F. racemosa Linn
- 6 F. tinctoria Forst. f. ssp.
- 7 F. tjakela Burm.
- 8 F. virens Ait

Melastomataceae

- 1 Melastoma malabathricum Linn
- 2 Memecylon umbellatum Burm.

Molluginaceae

- 1 Glinus lotoides Linn
- 2 G. oppositifolius (Linn) A. DC.
- 3 Mollugo nudicaulis Lamk
- 4 M. pentaphylla Linn
- 5 Trianthema portulacastrum Linn

Myrsinaceae

- 1 Embelia tsiarium-cottam A. DC.

Martyniaceae

- 1 Martynia annua Linn

Musaceae

- 1 Musa paradisiaca Linn

Marsileaceae

- 1 Marsilea minuta Linn

Najadaceae

- 1 Najas indica (Willd) Cham

Nelumbonaceae

- 1 Nelumbo nucifera Gaertn

Nymphaeaceae

- 1 Nymphaea nouchali Burm.
- 2 N. stellata Willd

- Nyctaginaceae
- 1 Bougainvillea spectabilis Willd.
- Najadaceae
- 1 Najas indica (Willd) Cham.
- Oleaceae
- 1 Olax scandens Roxb.
- Oleaceae
- 1 Jasminum auriculatum Vahl
 - 2 Schrebera swietenoides Roxb.
- Onagraceae
- 1 Ludwigia hyssopifolia (G. Don) Exell
 - 2 L. octovalis (Jacq) Raven subsp.
 - 3 L. perennis Linn.
- Orchidaceae
- 1 Habenaria commelinifolia Wall ex L.
 - 2 H. plantaginea Lindl.
 - 3 Vanda tassellata (Roxb) Hook.
- Oxalidaceae
- 1 Biophytum reinwardtii Edgew ex Hook.
 - 2 B. sensitivum (Linn) DC.
 - 3 Oxalis corniculata Linn.
- Palmaceae
- 1 Borassus flabellifer Linn.
 - 2 Phoenix humilis Royle.
- Poaceae
- 1 Alloteropsis cimicina (Linn) Stapf.
 - 2 Andropogon pumilus Roxb.
 - 3 Apluda mutica Linn.
 - 4 Aristida adscensionis Linn.
 - 5 A. hystrix Linn f.
 - 6 A. setacea Retz.
 - 7 Arthraxon echinatus (News) H.
 - 8 A. inermis Hook f.
 - 9 A. lancifolius (Trin) H.
 - 10 Arundinella pumila (Hochst) Steud.
 - 11 Bothriochloa intermedia (R. Br.) A. Camus?
 - 12 B. kuntzeana (Hack) Henr.
 - 13 B. pertusa (Linn) A. Camus.
 - 14 Brachiaria ramosa (Linn) Stapf.
 - 15 Centotheca lappacea (Linn) Desv.
 - 16 Chionachne koenigii (Spreng) Thw.
 - 17 Chloris dolichostachya Lagasca.
 - 18 C. virgata Sw.
 - 19 Chrysopogon fulvus (Spreng) Chiov.
 - 20 C. hackelii (Hook f.) C. E. C. Fisch.
 - 21 Coix gigantea Koenig ex Roxb.
 - 22 C. lacryma-jobi Linn Var.

- 23 *Dactyloctenium aegyptium* (Linn) P.B.
 24 *Dendrocalamus strictus* (Roxb) Nees
 25 *Desmostachya bipinnata* (Linn) Stapf.
 26 *Dichanthium annulatum* (Forsk) Stapf.
 27 *D. caricosum* (Linn) Δ . camus
 28 *Digitaria adscendens* (H.B.K.) Henr.
 29 *D. striota* Roth.
 30 *Echinochloa colonum* (Linn) Link.
 31 *E. crusgalli* (Linn) P.B. Var
 32 *Eleusine indica* (Linn) Gaertn.
 33 *Eragrostiella brachyphylla* Bor.
 34 *Eragrostis ciliaris* (Linn) R. Br.
 35 *E. diarrhena* Steud
 36 *E. Japonica* (Thunb) Trin
 37 *E. nutans* (Retz) Nees
 38 *E. pilosa* (Linn) P. Beauv.
 39 *E. tenella* (Linn) P. Beauv.
 40 *E. tenuifolia* Hochst.
 41 *E. unioloides* (Retz) Nees
 42 *Eriochloa procera* (Retz) C.E. Hubb
 43 *Eulalia trispicata* (Schult) Henr.
 44 *Hackelochloa granularis* (Linn) O.K.
 45 *Heteropogon contortus* (Linn) P. Beauv.
 46 *H. ritchiei* (Hook f.) Bet. M.
 47 *Imperata cylindrica* (Linn) P. Beauv.
 48 *Ischaemum indicum* (Houtt) Merr
 49 *I. molle* Hook f.
 50 *I. rugosum* Salisb
 51 *Iseilema antheboroides* Hack
 52 *I. laxum* Hack.
 53 *I. prostratum* (Linn) Anderss
 54 *Manisuris clarkei* (Hack) Bor
 55 *Melanocenchris jacquemontii* Jaub et. sp.
 56 *Ophiuros exaltatus* (Linn) O.K.
 57 *Oplismenus burmannii* (Retz) P. Beauv.
 58 *O. compositus* (Linn) P. Beauv.
 59 *Oryza rufipogon* Griff
 60 *Panicum maximum* Jacq.
 61 *P. miliare* Lamk.
 62 *P. montanum* Roxb
 63 *P. psilopodium* Trin
 64 *Paspalidium flavidum* (Retz) Δ . camus
 65 *Paspalum scrobiculatum* Linn.
 66 *Pennisetum pedicellatum* Trin
 67 *P. polystachyon* (Linn) Schult
 68 *P. purpureum* Schumach
 69 *Perotis indica* (Linn) O. Kuntze
 70 *Saccharum spontaneum* Linn
 71 *Sacciolepis indica* (Linn) Δ . chase
 72 *S. interrupta* (Willd) Stapf.
 73 *S. mysuroides* (R. Br.) Δ . camus
 74 *Schizachyrium exile* (Hochst) Stapf.
 75 *Setaria glauca* (Linn) P. Beauv.
 76 *S. pallide-fusca* (Schumach) S. et C.
 77 *S. tomentosa* (Roxb) Kunth.
 78 *S. verticillata* (Linn) P. Beauv.
 79 *Sorghum halepense* (Linn) Pers
 80 *S. nitidum* (Vahl) Pers
 81 *Themeda quadrivalis* (Linn) O.K.
 82 *T. triandra* Forsk.
 83 *Urochloa panicoides* P. Beauv.
 84 *Vetiveria zizanioides* (Linn) Nash

Polygalaceae

- 1 Polygala chinensis Linn
- 2 P. elongata Klein
- 3 P. erioptera DC
- 4 Salomonina oblongifolia DC

Portulacaceae

- 1 Portulaca quadrifida Linn

Polygonaceae

- 1 Antigonon leptopus Hook and Arn
- 2 Polygonum barbatum Linn Var.
- 3 P. glabrum Willd
- 4 P. plebeium R. Br.
- 5 Rumex Vesicarius Linn

Primulaceae

- 1 Anagallis arvensis Linn

Pedaliaceae

- 1 Pedalium murex Linn
- 2 Sesamum indicum Linn
- 3 S. mulayanum Nair

Pontederiaceae

- 1 Monochoria vaginalis (Burm. f.) P. rex K. G.

Rubiaceae

- 1 Borreria articularis Linn f. F.N. Willd.
- 2 B. pusilla (Wall) DC
- 3 Canthium parviflorum Lamk
- 4 G. latifolia Ait
- 5 G. resinifera Roth
- 6 G. turgida Roxb
- 7 Hamelia patens Jacq.
- 8 Hedystis caerulea Wt. and Arn
- 9 H. nudicaulis Wt. and Arn
- 10 H. umbellata Lamk
- 11 Ixora arborea Roxb ex Sm.
- 12 Knoxia sumatrensis (Retz) DC
- 13 Mitragyna parvifolia (Roxb) Korth
- 14 Morinda tomentosa Heyne ex Roth
- 15 Oldenlandia corymbosa Linn
- 16 O. herbacea (Linn) Roxb
- 17 Pavetta indica Linn
- 18 P. tomentosa Roxb ex Rees
- 19 Spermadictyon suaveolens Roxb
- 20 Webera corymbosa Willd
- 21 Xeromphis spinosa (Thunb) Keay
- 22 X. uliginosa (Retz) Mahesh.

Rutaceae

- 1 Citrus aurantifolia (Christ)
- 2 Limonia acidissima Linn

Rhamnaceae

- 1 Ventilago denticulata Willd
- 2 Zyzyphus mauritiana Lamk
- 3 Z. oenoplia Mill
- 4 Z. rotundifolia Lamk
- 5 Z. rugosa Lamk
- 6 Z. Xylopyra Willd

Solanaceae

- 1 Capsicum annum Linn
- 2 Cestrum nocturnum Linn
- 3 Lycopersicon lycopersicum (Linn) Karsten
- 4 Physalis minima Linn

Simaroubaceae

- 1 Ailanthus excelsa Roxb
- 2 Balanites aegyptiaca (Linn) Delile.

Sapindaceae

- 1 Dondonaea viscosa Linn
- 2 Sapindus emarginatus Vahl
- 3 Schleicheria oleosa Lour oken.

Scrophulariaceae

- 1 Bacopa hamiltoniana (Benth) Wettst.
- 2 Centranthera indica Linn Gamble
- 3 Dopatrium junceum (Roxb) B and H.
- 4 Glossostigma diandrum (Linn) O.K.
- 5 Limnophila aquatica (Roxb) Alston
- 6 L. indica (Linn) Druce
- 7 L. rugosa (Roxb) Merr
- 8 Lindernia ciliata (Colsm) Pennell
- 9 L. crustacea (Linn) F.M.
- 10 Scoparia dulcis Linn
- 11 Sopubia delphinifolia (Linn) G.D.
- 12 Stemodia Viscosa Roxb.
- 13 Striga angustifolia (D. Don) Saldanha
- 14 Sutera dessecta (Del) Walp.
- 15 Verbascum chinense (Linn) Sant.

Sterculiaceae

- 1 Byttneria herbaceae Roxb
- 2 Eriolaena hookeriana Wt. and Arn
- 3 Sterculia villosa Roxb
- 4 Waltheria indica Linn

Sapotaceae

- 1 Manilkara achras (Mill.) F.

Samydaceae

- 1 Casearia elliptica Willd
- 2 C. graveolens Dalz.

Saxifragaceae

- 1 Vahlia digyna (Roxb) O.K.

Tiliaceae

- 1 Corchorus aestuans Linn
- 2 C capsularis Linn
- 3 C. fascicularis Lamk
- 4 C. olitorius Linn
- 5 Grewia abutilifolia Vent
- 6 G. rothii DC
- 7 G. serrulata DC
- 8 G. tiliaefolia Vahl
- 9 Triumfetta rhomboidea Jacq
- 10 T. rotundifolia Lamk

Tamaricaceae

- 1 Tamarix ericoides Rottl.

Turneraceae

- 1 Turnera ulmifolia Linn

Taccaceae

- 1 Tacca leontopetaloides Linn

Typhaceae

- 1 Typha angustata B & C

Thelypteridaceae

- 1 Cyclosorus parasiticus Linn

Ulmaceae

- 1 Holoptelea integrifolia Roxb

Urticaceae

- 1 Distemon indicum Wedd.
- 2 Fleurya interrupta (Linn) G.
- 3 Streblus asper Lour.

Verbenaceae

- 1 Clerodendrum multiflorum Burm. f.
- 2 C. serratum (Linn) Moon.
- 3 Duranta repens Linn
- 4 Lantana camara Linn
- 5 L. indica Roxb
- 6 Phyla nodiflora (Linn) Greene
- 7 Symphorema polyandrum Wt.
- 8 Tectona grandis Linn

Violaceae

- 1 Hybanthus enneaspermus Linn

Vitaceae

- 1 Ampelocissus latifolia Roxb
- 2 Cayratia auriculata Roxb
- 3 C. trifolia Linn
- 4 Cissus rependa Vahl
- 5 Vitis Linnaei Wall

Xyridaceae

- 1 Xyris pauciflora Willd

Zingiberaceae

- 1 Curcuma pseudomontana Grah