

A Catalogue of Cenozoic (Tertiary) Plant Megafossils from India

Rashmi Srivastava and J S Guleria

A Catalogue of Cenozoic
(Tertiary) Plant
Megafossils from India
(1989-2005)

Total number of genera 394 and species 644
(excluding those where no binomials are given and such records
reported as cuticle/axis, etc.)

Diamond Jubilee Special Publication

**Birbal Sahni Institute of Palaeobotany
Lucknow
2006**

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ISBN 81-86382-09-7

Includes index

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Printed in India

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Diamond Jubilee Special Publication

Joint Editor - Dr. Mukund Sharma

Proof-Reading: Rattan Lal Mehra
Typesetting: Syed Rashid Ali
Produced by: Publication Unit, BSIP
Printed at: Dream Sketch, 29 Brahm Nagar, Lucknow - 226 020, India
Cover Photo: Cross Section and Tangential Longitudinal Section of a fossil wood of *Millettioxylon indicum* Awasthi showing banded type of parenchyma and storied arrangement of xylem rays

Issued November, 2006

FOREWORD

The task to collate, edit, update and create a systematic inventory of fossil plants known from Indian sedimentary successions was first initiated by scientists of the Birbal Sahni Institute of Palaeobotany after the Silver Jubilee Celebrations in November, 1971. Though it was a daunting task as the information was scattered in various journals and many other publications, this effort materialized with the publication of "A Catalogue of Indian Fossil Plants" by R. N. Laxhanpal *et al.* in 1976. This single volume catalogue included all plant mega- and microfossil records published from 1821 to 1970. As enormous data had subsequently gathered in the next two decades, another Catalogue was released during the Birbal Sahni Birth Centenary Celebrations in 1991. However, due to the wealth of the available data impossible to be incorporated in a single compendium, 11 Fascicules on different fossil groups and/or geologic time span were prepared, each authored by subject experts from the Institute.

In connection with the Diamond Jubilee Celebrations of the Institute this year, the idea to again update the information came up during discussions in our group meetings sometimes in January, 2006. Despite the short notice and a tall order, several of my Institute colleagues readily volunteered to take up the uphill task. It is indeed heartening to see that these Catalogues/Atlases have been completed in record time. I wish to express my most sincere appreciation to all those who contributed their energy and skill in giving shape to these individual compilations.

The present inventory of Cenozoic megafossils prepared under the title, "A Catalogue of Cenozoic (Tertiary) Plant Megafossils from India (1989 – 2005)" by Rashmi Srivastava and J. S. Guleria is a welcome addition to the list of Institute publications. The catalogue systematically incorporates the records of all megafossil taxa (except algae) of Cenozoic (Tertiary) Era giving their taxonomic status, precise age and place of occurrence. I am sure the consolidated information made available in the catalogue will prove highly useful particularly for Tertiary research workers.

October 16, 2006

Dr. N. C. Mehrotra
Director
Birbal Sahni Institute of Palaeobotany

PREFACE

The present catalogue is in continuation of the earlier Indian Fossil Catalogues published by *Lakhanpal et al. (1976) and *Srivastava (1991) with the aim to provide upto date consolidated data on Tertiary megafossils to research workers. The current catalogue includes megafossil records (except algae) published during the period 1989-2005, from the Tertiary sediments of India. The fossil records are arranged alphabetically according to their generic names. Every generic name is followed by its author / authors name and family or classification. In case the generic diagnosis has been emended, the name of the original author has been followed by the emending author. Emendation is clearly indicated by the word 'emend'.

The genera and species are arranged alphabetically. The species name has been followed by its author, year of publication, page number, reference of plate and figure, geological age with the name of horizon, locality, district and state in which the locality is situated. Sometimes, the same sequence (geological horizon) has been assigned to different geological ages and horizons in different publications. Such anomalies have been rectified accordingly. For example, age of the Deccan Intertrappean beds has been given as Upper Cretaceous, ?Cretaceous, Upper Cretaceous-Palaeocene, Upper Cretaceous-Eocene and even Eocene. As per latest data available, the authors have assigned Maestrichtian-Danian age to the Deccan Intertrappean sediments citing the original ages given by the authors in bracket. Likewise Siwalik sediments of Oodlabari, Darjeeling district have been considered Lower-Middle Siwalik in age. The age of these sediments has subsequently been considered as Lower Siwalik. The original age / horizon has been given in bracket marked with asterisk “*”

Synonymy of taxa as given by authors in their latest publications is maintained. Names of older taxa along with their present synonyms have been given in their alphabetical order, the older names in italics and their present names in bold face. Among the abstracts published during the period, data of only those abstracts have been incorporated whose full papers have not yet been published. Whenever fossils have been referred or assigned to living taxon or established fossil genera or species without their valid publications as in large number of published abstracts, such genera or species have been marked with “♦” sign. Fossil names that are *Nomina nuda* have been italicised and their details have been provided.

Geographical names have been used as per latest nomenclature and orthography e.g. Kachchh for Kutch, Thiruvananthapuram for Trivendrum, Kannur for Cannanore and Kollam for Quilon. On account of recent changes in state and district boundaries latest names have been given followed by original names in bracket market with double asterisk “**” e.g., Kathgodam, Nainital District has been cited in Uttaranchal which was formerly in Uttar Pradesh. Likewise an important and famous intertrappean fossil locality, Ghughua, now falls in Dindori District which till sometimes back was part of Mandla District in Madhya Pradesh.

The authorship and classification of modern and fossil genera are based on the "Index Nominum Genericorum (Plantarum)" by *Farr, Leussink and Stafleu (1979). Genera not included in the above publication are based on their original publications. Full surnames of authors are given.

Hopefully the catalogue will prove useful to students and research workers. The authors have tried to make catalogue foolproof. In spite of authors best efforts users may come across some omissions and mistakes for which the authors take full responsibility and request the users to bring such omissions to notice of the authors.

The authors are grateful to Director, Birbal Sahni Institute of Palaeobotany for permitting them to carry out this work.

Rashmi Srivastava
J S Guleria

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*Lakhanpal RN, Maheshwari, HK & Awasthi N. 1976. A Catalogue of Indian Fossil Plants. B.S.I.P., Lucknow.

*Srivastava Rashmi 1991. A Catalogue of Fossil Plants from India-part 4. Cenozoic (Tertiary) megafossils. B.S.I.P., Lucknow.

CATALOGUE

ACACIA Miller, 1754 **FABACEAE**
(LEGUMINOSAE)

?**Acacia eosericata** Prasad 1994a: 71, pl. 7, figs 1-2, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

ACHENOCARPON Kapgate, Patil & Ilamkar, 2004
INCERTAE SEDIS (*Nomen nudum*)

Achenocarpum intertrappea Kapgate, Patil & Ilamkar, 2004: 26, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).

ACORUS Linnaeus, 1753 **ACORACEAE**

◆**Acorus**, Guleria, Mehrotra & Srivastava 2005: 18, EOCENE (Subathu Formation) Beragua Coal Mines, Rajauri District, Jammu & Kashmir and OLIGOCENE, Makum Coalfield, Tinsukia District, Assam.

ACROCARPUS Wight ex Arnott, 1838
FABACEAE (LEGUMINOSAE)

Acrocarpus siwalicus Yadav 1989: 58, pl. 2, figs 6, 8, 10-11, MIDDLE MIOCENE (Lower Siwalik), Nalagarh, Solan District, Himachal Pradesh.

ACRONYCHIA J. R. Forster & A. G. A. Forster, 1776 **RUTACEAE**

Acronychia siwalica Prasad 1994a: 66, pl. 4, figs 2, 4, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

ACROSTICHUM Linnaeus, 1753
PTERIDACEAE (PTERIDOPHYTA)

Acrostichum intertrappeum Bonde & Kumaran 2002b: 289-293, pl. 1, figs 1-7, text-fig. 2, MAESTRICHTIAN - DANIAN (LATE CRETACEOUS*) (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

Thayeriorhizomoxylon chandrai Patil & Datar 2000: 77-78, pl. 1, figs 1-10, pl. 2, figs 1-6, text-figs 1-5, MAESTRICHTIAN - DANIAN (LATE CRETACEOUS - PALAEOCENE*) (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

Acrostichum lanzaeanum (Visiani) Reid & Chandler. Awasthi, Guleria, Prasad & Srivastava 1996: 84, pl. 1, figs 1, 3-4, LOWER MIOCENE (Kasauli Formation), between Kumar Hatti and Barog (near Daghota) on Kalka-Shimla road, Solan District, Himachal Pradesh.

Acrostichum sp. Bonde & Kumaran 2002a: 150, fig. 2 A-D, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN; LATE CRETACEOUS*) (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

ACTINODAPHNE Nees, 1831 **LAURACEAE**

Actinodaphne palaeoangustifolia Antal & Awasthi 1994: 45, pl. 16, figs 4-5, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

ADENANTHEROXYLON Prakash & Tripathi, 1968 **FABACEAE (LEGUMINOSAE)**

Adenanthroxylon pavoninium Prakash & Tripathi. Yadav 1989: 61, pl. 3, figs 9-10, MIDDLE MIOCENE (Lower Siwalik), Nalagarh, Solan District, Himachal Pradesh; Srivastava & Awasthi 1996: 90, 92, pl. 1, figs 4-5, 7, MIDDLE MIOCENE (Warkalli Formation), Payangadi Super Clay Mine, Kannur District, Kerala.

ADINA Salisbury, 1807 **RUBIACEAE**

Adina cordifolia Hooker. f. Srivastava 1998: 100, pl. 1, fig. 4, LATE CENOZOIC, Mahuadanr Valley, Palamu District, Bihar.

AESCHYNOMENOXYLON Muller-Stoll & Mädler, 1967 **FABACEAE (LEGUMINOSAE)**

Aeschynomenoxyton, Kar, Sahni, Ambwani & Sharma 1998: 116, fig. 3 a-d, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Amajiri, Chhindwara District, Madhya Pradesh.

Agavaceous axis Ambwani 1999: 246, 248, pl. 1, figs 1-8, pl. 2, figs 1-10, MIOCENE, Neyveli Lignite Deposits, South Arcot District, Tamil Nadu.

AGLAIA Loureiro, 1790 **MELIACEAE**

Aglaia nahanensis (Prakash) Yadav 1989: 56, pl. 2, figs 1, 3-4, MIDDLE MIOCENE (Lower Siwalik), Nalagarh, Solan District, Himachal Pradesh.

Dryoxylon nahanai Prakash 1975: 206, 208, pl. 5, figs 23-24, MIDDLE MIOCENE (Lower Siwalik), Nalagarh, Solan District, Himachal Pradesh.

AILANTHOXYLON (Prakash) Prakash, Verma & Dayal, 1967 **SIMAROUBACEAE**

Ailanthoxylon sp., Verma 1990: 16, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS - EARLY EOCENE*) (Deccan Intertrappean beds), Mandla District, Madhya Pradesh; Udhoji & Verma 1990: 99-100, MAESTRICHTIAN - DANIAN ((UPPER CRETACEOUS - EARLY TERTIARY*) (Deccan Intertrappean beds), Brangda, Madhya Pradesh.

Ailanthoxylon indicum (Prakash) Prakash, Verma & Dayal. Mehrotra 1990: 171, 173, fig. 1 E-H, fig. 2 A-D, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Deori Khurd near Shahpura, Dindori (Mandla*) District, Madhya Pradesh; Khare, Prasad & Awasthi 2000: 453, pl. 3, figs 1-4, pl. 5, figs 3-6, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

Ailanthoxylon ghiarense (Sexana) Prakash, Verma & Dayal 1967: 300, pl. 3, figs 10, 12, pl. 4, figs 14, 17, text-fig. 2, MAESTRICHTIAN - DANIAN (TERTIARY, EOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

ALBIZIA Durazzini, 1844 **FABACEAE (LEGUMINOSAE)**

Albizia cf. A. gamblei Prain. Prasad 1994c: 72, pl. 7, fig. 7, MIOCENE - PLIOCENE (Middle Siwalik), Hardwar District, Uttaranchal (Uttar Pradesh**).

Albizia palaeolebbek Antal & Awasthi 1994: 34, pl. 9, figs 5-6, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

Albizia siwalica Prasad 1994a: 72, pl. 7, fig. 7, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

ALBIZINIUM Prakash, 1975 **FABACEAE**
(LEGUMINOSAE)

Albizinium arunachalensis Mehrotra, Awasthi & Dutta 1999: 240, 242, pl. 7, figs 5-6, pl. 8, figs 1-2. LATE MIOCENE - PLIOCENE (Siwalik Group), Ghogra River Section, Siang District, Arunachal Pradesh.

Albizinium borjanensis Prakash, Vaidyanathan & Tripathi 1994: 126, pl. 3, figs 24-26, pl. 4, fig. 27, text-fig. 7, MIOCENE (Tipam Sandstones), Borjan stream near Naginimara, Mon District, Assam.

Albizinium palaeolucidum Srivastava 2001: 138, pl. 2, figs 1, 3, 5-6, MIOCENE (Warkalli Formation), Varkala Cliff Section, Varkala, Thiruvananthapuram District, Kerala.

Albizinium pondicherriense Awasthi. Prakash, Vaidyanathan & Tripathi 1994: 128, pl. 4, figs 28-29, MIOCENE (Tipam Sandstones), Kartikcherra, about 38 km south of Hailakandi, Cachar District, Assam; Awasthi & Mehrotra 1997: 116-117, pl. 3, figs 23-26, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh; Bera & Banerjee 2001: 181, pl. 1, figs 4-6, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Muhammad Bazar, Birbhum District, West Bengal; Srivastava 2001: 140, pl. 3, figs 1, 3, 5, MIOCENE (Warkalli Formation), Kundara Clay Mine, Kollam District, Kerala.

ALPINA Cothenius, 1790 **ZINGIBERACEAE**

Alpina siwalica Prasad, Ghosh & Tripathi 2004: 40, 42, pl. 1, figs 7-8, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

ALSODEIA Petit-Thouars, 1805
FLACOURTIACEAE

Alsodeia palaeochinocarpa Antal & Prasad 1999: 89, 91, pl. 2, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Ghish River about one km upstream on right side from its mouth near Oodlabari, Darjeeling District, West Bengal.

Alsodeia palaeoracemosa Antal & Prasad 1998: 98, pl. 1, figs 2-3, MIDDLE MIOCENE (Lower Siwalik), Sevok Road Section, about 2 km from Tista River bridge towards Oodlabari, Darjeeling District, West Bengal.

Alsodeia palaeozeylanica Antal & Awasthi 1994: 20, pl. 2, fig. 6, pl. 3, fig. 2, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

ALSTONIA Robert Brown, 1810
APOCYNACEAE

Alstonia arunachalensis Mehrotra & Mandaokar 2000: 314, pl. 1, fig. 1, OLIGOCENE (Barail Group), Manmao, Tirap District, Arunachal Pradesh.

Alstonia mioscholaris Antal & Awasthi 1994: 42, pl. 14, figs 5, 7, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*), (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

Alstonia oligocenica Awasthi & Mehrotra 1995: 180, pl. 11, fig. 3, pl. 12, fig. 1, OLIGOCENE, Baragolai Colliery near Margherita, Makum Coalfield, Tinsukia District, Assam.

Alstonia scholaris Brown. Bande & Srivastava 1990: 356-357, pl. 9, figs 5, 7, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar; ♦(Leaf), Khare, Prasad & Srivastava 2003: 83, MAESTRICHTIAN - DANIAN

- (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.
- ALTINGIOXYLON** Kramer, 1974
HAMAMELIDACEAE
- Altingioxylon rhodoleioides** Kramer. Agarwal 1991b: 119, fig. 1C-F, MIOCENE, Neyveli Lignite Mine-I, South Arcot District, Tamil Nadu.
- AMBERIWADIACARPON** Agarwal & Ambwani, 2002 **RUBIACEAE**
- Amberiwadiacarpion devgarhensis** Agarwal & Ambwani 2002: 110, pl. 1, figs 1-9, MIOCENE, (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.
- AMESONEURON** (Göppert 1882) Read & Hickey, 1972 **ARECACEAE (PALMAE)**
- ♦ *Amesoneuron*, Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Bilaspur District, Himachal Pradesh.
- Amesoneuron deccanensis** Guleria & Mehrotra 1999: 78, pl. 1, figs 5-7, MAESTRICHTIAN-DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Block no. 661-662 of Binori Reserve Forest, Seoni District, and Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh; Mehrotra 2000a: 236, pl. 3, fig. 2, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya.
- Amesoneuron lakhanpalii** Mehrotra 2000a: 234-236, pl. 3, figs 1, 3, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya.
- Amesoneuron manipurensis** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 66, pl. 1, figs 3-4, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Amesoneuron sahnii** Guleria, Srivastava & Prasad 2000: 49, pl. 1, figs 4-5, LOWER MIOCENE (Kasauli Formation), Mashobra village, Kasauli, Solan District, Himachal Pradesh.
- AMOORA** Roxburgh, 1819-20 **MELIACEAE**
- Amoora palaeowallichii** Guleria, Srivastava & Prasad 2000: 48, pl. 1, fig. 2, LOWER MIOCENE (Kasauli Formation), adjoining MES Inspection Bungalow, Kasauli, Solan District, Himachal Pradesh.
- AMPELOPTERIS** Kunze, 1848
THELYPTERIDACEAE
- Ampelopteris prolifera** Presl. Guleria & Srivastava 2000: 12, fig. 1 A-B.
- Goniopteris prolifera* Persl. Prasad 1991: 655, figs 2,a, c, MIDDLE MIOCENE (Lower Siwalik), in Balia river bed west of Suriajala, about 9 km north of Kathgodam on Nainital Road, Nainital District, Uttaranchal (Uttar Pradesh**).
- ANACARDIOXYLON** Felix, 1882
ANACARDIACEAE
- Anacardioxylon shardai** Prakash & Tripathi. Sen & Bera 2005, 70, pl. 3, figs 1-4, UPPER MIOCENE (Upper Tipam Formation), Champanagar, Agartala District, Tripura.
- ANAMITRA** Colebrooke, 1821
MENISPERMACEAE
- Anamitra pfeifferi** Bonde 1998: 89-90, pl. 1, figs 1-10, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*), (Deccan Intertrappean beds), Nawargaon-Maragsur, Wardha District, Maharashtra.
- ANDREAEAITES** Kapgate, 1989 **BRYOPHYTA**
- Andreaeaaites ramanujamii** Kapgate, 1989: 73-74, pl. 1, figs 1-4, text-figs 1-7, MAESTRICHTIAN - DANIAN (? UPPERMOST CRETACEOUS*) (Deccan

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- Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- ANDREOSPOROGONITES** Kapgate, Kapgate & Sheikh, 2005a **BRYOPHYTA**
- Androsporogonites deccanii* Kapgate, Kapgate & Sheikh, 2005a: 335-336, pl. 1, figs 1-8, text-figs 1-8, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Angiospermous fruits**, Saxsena, Misra & Khare 1994: 209, pl. 1, figs 3-9, pl. 2, figs 2-3, MIOCENE, Parchuri well, Mavli Mine, Kalviwadi, Kasop well, Ratnagiri District, Maharashtra.
- Angiospermous wood**, Saxsena, Misra & Khare 1994: 209, pl. 2, fig. 1, MIOCENE, Pawas well, Ratnagiri District, Maharashtra.
- ANISOPTERA** Korthals, 1841
DIPTEROCARPACEAE
- ♦ *Anisoptera cuctissi* Dyre. Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Bilaspur District, Himachal Pradesh.
- ANISOPTEROXYLON** Ghosh & Kazmi, 1958
DIPTEROCARPACEAE
- Anisopteroxylon aduriensis** Acharya & Roy 1989: 244-245, figs 1 A-H, MIOCENE, Aduria Forest, Burdwan District, West Bengal; Bera & Banerjee 2001: 170, pl. 1, figs 9-11, LATE PLIOCENE-EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal.
- Anisopteroxylon oblongoides** Yadav 1989: 52-53, pl. 1, figs 1, 3, 5, MIDDLE MIOCENE (Lower Siwalik), Kalagarh, Pauri (Tehri**) Garhwal District, Uttaranchal (Uttar Pradesh**); Bera & Banerjee 2001: 171, pl. 1, figs 6-8, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal; Sen & Bera 2005: 68, 70, pl. 2, figs 1-2, 5, UPPER MIOCENE (Upper Tipam Formation), Champanagar, Agartala District, Tripura.
- Anisopteroxylon varkalaensis** Awasthi & Srivastava 1990: 288, pl. 1, figs 6-9, MIOCENE (Warkalli Formation), Varkala Cliff Section, Varkala, Thiruvananthapuram District, Kerala.
- ANOGEISSUSOXYLON** Navale, 1964
COMBRETACEAE
- Anogeissusoxylon guptai** Harsh, Sharma & Suthar 1992: 98, 100, fig. 5 A-C, figs 6 A-D, TERTIARY, Sansolav, Bikaner District, Rajasthan.
- Anogeissusoxylon harsolavense** Harsh, Sharma & Suthar 1992: 100-101, fig. 5 D-F, fig. 6 E-G, TERTIARY, Harsolav, Bikaner District, Rajasthan.
- ANTHOCEPHALUS** Richard, 1830 **RUBIACEAE**
- Anthocephalus siwalicus** Prasad & Awasthi. Agarwal 2002: 190, pl. 12, figs 7-8, pl. 13, fig. 1, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- ANTIARIS** Leschenault, 1810 **MORACEAE**
- Antiaris deomaliensis** Awasthi 1989: 150-151, pl. 2, figs 1, 3-6, MIOCENE - PLIOCENE (Dupitila Series), Namsang River Beds, Deomali, Deomali District Arunachal Pradesh.
- APHANAMIXIS** Blume, 1825 **MELIACEAE**
- Aphanamixis bhikhnathoriensis** Awasthi & Lakhanpal 1990: 279, pl. 1, fig. 5, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.
- Apocynaceae gen. et sp. indet.** Mathur, Mishra & Mehra 1996: 34, pl. 6, fig. 4, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

APOLLONIAS Nees, 1833 **LAURACEAE**

Apollonias litseoides Awasthi & Mehrotra 1995: 182, pl. 9, fig. 3, OLIGOCENE (Tikak Parbat Formation), Tipong Colliery, Makum Coalfield, Tinsukia District, Assam.

ARAUCARIOXYLON Kraus, 1870
ARAUCARIACEAE

Araucarioxylon chhindwarensense (Billimoria) Trivedi & Srivastava 1990: 658.

Dadoxylon chhindwarensense Billimoria 1944: 260, pl. 18, 16, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

Araucarioxylon deccani (Shukla) Trivedi & Srivastava 1990: 658.

Dadoxylon chhindwarensense Shukla 1938: 365, pl. 14, figs 1-4, pl. 15 figs 5-10, text-figs 1-10, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.

Araucarioxylon eocenium (Chitale) Trivedi & Srivastava 1990: 658.

Dadoxylon eocenium Chitale 1939: 365, pl. 1, figs 1-5, pl. 2, figs 6-10, text-figs 1-6, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.

Araucarioxylon keriansense Trivedi & Srivastava 1989: 63-64, fig. 1 A-D fig. 2 A-B, MAESTRICHTIAN-DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Keria, Chhindwara District, Madhya Pradesh.

Araucarioxylon resinsum (Shukla) Trivedi & Srivastava 1990: 658.

Dadoxylon resinsum Shukla 1944: 83, pl. 5, figs 10-14, pl. 6, figs 15-21, text-figs 1-9, MAESTRICHTIAN - DANIAN (EARLY TER-

TIARY*) (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.

ARAUCARITES Presl, 1838 **ARAUCARIACEAE**

Araucarites sp., Mehrotra & Srivastava 1994: 329-330, figs 1-2, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

ARDISIA Swartz, 1788 **MYRSINACEAE**

Ardisia antiqua Awasthi & Lakhanpal 1990: 282, pl. 1, fig. 12, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.

Ardisia palaeosimplicifolia Prasad 1994a: 80, pl. 6, fig. 8, pl. 10, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

ARECA Linnaeus, 1189 **ARECACEAE (PALMAE)**

Areca intertrappea Senad & Paradkar 1989: 151-152, pl. 1, figs 1-5, text-figs 1-10, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS-PALAEOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

♦*Arecaceous leaf*, Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.

ARECOIDEOSTROBUS Bonde, 1996
ARECACEAE (PALMAE)

Arecoideostrobus moorei 1996: 103, pl. 1, figs 1-7, pl. 2, figs 8-12, MAESTRICHTIAN - DANIAN (PALAEOCENE*) (Deccan Intertrappean beds), Nawargaon, Maragpur area, Wardha District, Maharashtra.

ARECOIDOCARPON Bonde, 1990a
ARECACEAE

- Arecoidocarpon kulkarnii** Bonde 1990a: 213-214, pl. 1, figs 1-4, text-figs 1-2 MAESTRICHTIAN - DANIAN (EOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Arecoidocarpon nawargaensis* Bonde, Gamre & Chate 2005: 138-139, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra. (*Nomen nudum*).
- Arecoidocarpon palasundarensis** Bonde 1991: 31, Bonde 1995: 67, figs 5-8, MAESTRICHTIAN - DANIAN (EARLY EOCENE*), (Deccan Intertrappean beds), Mohgaon - Palasundar, Dindori (Mandla**) District, Madhya Pradesh.
- ARTHROMERIS** (T. Moore) J. Smith, 1875
POLYPODIACEAE
- Arthromeris kasauliensis** Guleria & Srivastava. Arya, Guleria & Srivastava 2001: 66, fig. 2 D, F-G, LOWER MIOCENE (Kasauli Formation), Near Shiv Mandir on Kasauli-Jangeshu road, Solan District, Himachal Pradesh.
- ARTOCARPOXYLON** Prakash & Lalitha, 1978
MORACEAE
- Artocarpoxylon deccanensis** Mehrotra, Prakash & Bande. Prasad 1993a: 75, pl. 11, figs 1-4, MIDDLE MIOCENE (Lower Siwalik), Kanandoo Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).
- Artocarpoxylon kartikcherraensis** Prakash & Lalitha. Prakash, Vaidyanathan & Tripathi 1994: 134-135, pl. 6, figs 41-42, text-fig. 11, MIOCENE (Tipam Sandstones), Kartikcherra, about 38 km south of Hailakandi, Cachar District, Assam; Srivastava 1998: 392, fig. 1 A-F, MIDDLE MIOCENE (Warkalli Formation), well cutting at Cheruvathur village, Kasaragod District, Kerala.
- ATALANTIA** Correa, 1805 **RUTACEAE**
- ♦*Atalantia monophylla* type leaf, Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.
- Atalantia palaeomonophylla** Mehrotra 2000a: 229, pl. 1, figs 3, 5, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya.
- AVICENNIA** Linnaeus, 1755 **AVICENNIACEAE**
- Avicennia obovata** Awasthi & Mehrotra 1995: 178, pl. 8, fig. 2, OLIGOCENE, Baragolai Colliery near Margherita, Makum Coalfield, Tinsukia District, Assam.
- AZOLLA** Lamarck, 1783 **AZOLLACEAE**
(PTERIDOPHYTA)
- Azolla deccaniana** Nambudiri & Chitaley 1991: 332, 334, pl. 2, fig. 5, pl. 3, figs 1-3, 5, MAESTRICHTIAN - DANIAN (LATE CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- BACCATOCARPON** Bhowal & Sheikh, 2004
DICOTYLEDONS
- Baccatocarpum sharmae** Bhowal & Sheikh 2004: 25-26, figs 1-6, text-figs 1-8, MAESTRICHTIAN - DANIAN (LATE CRETACEOUS*) (Deccan Intertrappean beds), Singhpur, Chhindwara District, Madhya Pradesh.
- BAMBUSA** Schreber, 1791 **GRAMINAE**
(POACEAE)
- Bambusa siwalika** Awasthi & Prasad. Prasad 1994a: 55, pl. 1, figs 1-3, MIDDLE MIOCENE (Lower Siwalik), Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**); Guleria, Srivastava & Prasad 2000: 48, pl. 1, figs 6, 7, 13, LOWER MIOCENE (Kasauli Formation), adjoining MES Inspection Bungalow, Kasauli, Solan District, Himachal Pradesh; Prasad,

Ghosh & Tripathi 2004: 44, pl. 2, fig. 1, pl. 3, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

Bambusa sp. Antal & Awasthi 1994: 53, pl. 19, figs 1-3, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*), (Lower Siwalik), (Lower-Middle Siwalik*), left bank of upstream of Ghish River and right bank of Ramthi River near Oodlabari, Darjeeling District, West Bengal.

Bark, Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 66, pl. 3, fig. 1, LATE EOCENE, Upper Disang; Keirambi, Imphal Valley, Imphal District, Manipur.

BARRINGTONIA Forster & Forster, 1776
LECYTHIDACEAE

Barringtonia (Wood), Guleria 1991c: 41, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh (Kutch*) District, Madhya Pradesh; Srivastava 2003: 137, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Ghansor, Seoni District, Madhya Pradesh.

Barringtonia preracemosa Mehrotra 2000c: 1482, fig. 2 a, OLIGOCENE (Tikak Parbat Formation), Makum Coalfield, Tinsukia District, Assam

BARRINGTONIOXYLON Shallom, 1960
LECYTHIDACEAE

Barringtonioxylon arcotense Awasthi. Reddy 1992: 83, pl. 1, figs 1-5, MIOCENE, Neyveli Lignite mine I, South Arcot District, Tamil Nadu.

Barringtonioxylon deccanense Shallom. Awasthi & Mehrotra 1993: 85-86, pl. 2, figs 2-4, UPPER MIOCENE - PLIOCENE, (Namsang Beds), Namsang River bed, Deomali, Arunachal Pradesh; Prakash, Vaidyanathan & Tripathi 1994: 131-132, pl. 5, figs 33-35, text-figs 9-10, MIOCENE (Tipam Sandstones),

Jamira bazar, about 62 km south of Hailakandi, Cachar District, Assam.

Barringtonioxylon mandlaensis Bande & Khatri. Khare, Prasad & Awasthi 2001: 458, pl. 4, figs 5-6, pl. 5, figs 1-2, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

Barringtonioxylon rajasthanense Harsh, Sharma & Suthar 1992: 88, 91, figs 1 A-B, 2 A-C, TERTIARY, Harsolav, Bikaner District, Rajasthan.

♦*Basidiomycetes endogenous fungi*, Guleria 2000a: 9, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat.

BAUHINIA Linnaeus, 1753 **FABACEAE**
(LEGUMINOSAE)

Bauhinia deomalica Awasthi & Prakash. Agarwal 1991b: 119-120, fig. 1 A-B, MIOCENE, Neyveli Lignite Mine-I, South Arcot District, Tamil Nadu.

Bauhinia kasaulica Arya & Awasthi 1994: 60-61, figs 2-3, LOWER MIOCENE (Kasauli Formation), Kasauli, Solan District, Himachal Pradesh.

Bauhinia krishnanunni Mathur, Mishra & Mehra 1996: 46, pl. 14, fig. 5, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh; Guleria, Srivastava & Prasad 2000: 45, pl. 1, fig. 3, LOWER MIOCENE (Kasauli Formation), unmetalled way to Babu Mohalla, Dagshai Cantonment, Solan District, Himachal Pradesh.

Bauhinia ramthiensis Antal & Awasthi 1994: 32, pl. 9, fig. 1, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*), (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal.

- Bauhinia siwalika** Lakhanpal & Awasthi. Ambwani, 1991: 142, fig. 1 D, PALAEOCENE, Cherrapunji, West Khasi Hills District, Meghalaya.
- Bauhinia sp. cf. B. purpurea** Linn. Bande & Srivastava 1990: 348, pl. 6, fig. 1, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Bauhinia sp.** Mathur, Mishra & Mehra 1996: 33, pl. 5, fig. 2, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Bauhinia tertiara** Awasthi & Mehrotra 1990: 278, pl. 1, figs 3, 8, pl. 2, figs 1-3, UPPER MIOCENE (Tipam Sandstones), Naginimara village, Kongan Coalfield, Mon District, Nagaland; Sen & Bera 2005: 68, pl. 2, figs 3-4, 6, UPPER MIOCENE (Upper Tipam Formation), Champanagar, Agartala District, Tripura.
- BAUHINIUM** Trivedi & Panjwani, 1986
FABACEAE (LEGUMINOSAE)
- Bauhinium palaeomalabaricum** Prakash & Prasad. Antal, Prasad & Khare 1999: 99-100, pl. 1, figs 1-4, MIDDLE MIOCENE (Lower Siwalik), right bank of Ramthi River (about 2 km upstream) near Oodlabari, Darjeeling District, West Bengal.
- BEDDOMEA** Hooker, J. D. , 1862 **MELIACEAE**
- Beddomea palaeoindica** Antal & Prasad 1999: 95, pl. 1, fig. 5, MIDDLE MIOCENE (Lower Siwalik), Sevoke road section after crossing Tista River bridge about 2.5 km towards Washbari, Darjeeling District, West Bengal.
- BERCHEMIA** Necker ex A. P. de Candolle, 1825
RHAMNACEAE
- Berchemia siwalika** Tripathi, Pandey & Prasad 2002: 86, pl. 3, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Koilabas village near Jarwa, Balrampur District, Uttar Pradesh.
- Berchemia sp.** Mathur & Mathur 1998: 133, pl. 3, figs 3-4, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.
- Biodegraded organic matter showing fungal fruiting bodies (*Notothyrites sp.*), ascomata and hyphae embeded in the cells disrupting the tissues**, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2002: 374, pl. 3, figs 2,3, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.
- Biodegraded organic matter showing fungal fruiting bodies and hyphae**, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2002: 374, pl. 3, figs 2,3, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.
- Biodegraded organic matter with black debris and terminal zoosporangium with hyphae**, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2002: 374, pl. 3, fig. 1, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.
- Biodegraded terrestrial organic matter with net like structures of septate dark hyphae**, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2002: 374, pl. 3, fig. 6, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.
- BISCHOFIA** Blume, 1826-27
EUPHORBIACEAE
- Bischofia palaeojavanica** Awasthi 1989: 147-150, pl. 1, figs 1, 3-5, MIOCENE-PLIOCENE (Dupitila Series), Namsang River Beds, Deomali, Arunachal Pradesh; Awasthi & Mehrotra 1990: 283, pl. 2, figs 7-8, UPPER MIOCENE (Tipam Sandstone), Naginimara village, Kongan Coalfield, Mon District, Nagaland; Agarwal 1994: 335, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu; Srivastava & Awasthi 1996: 96, pl. 3, figs 3-6, MIDDLE

- MIOCENE (Warkalli Formation), Varkala Cliff Section, Varkala, Thiruvananthapuram District, Kerala; Guleria & Srivastava, 2001: 23, pl. 2, figs 21-23, pl. 3, figs 30-33, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat; Guleria, Gupta & Srivastava 2002: 242, pl. 5, figs 1-5, MIDDLE PLIOCENE (Middle Siwalik: Mohargarh Formation), Gandla near Ramnagar, Udhampur District, Jammu & Kashmir.
- BISPORANGITATES** Saxena & Sheikh, 2005 INCERTAE SEDIS (*Nomen nudum*)
- Bisporangitates singpurii* Saxena & Sheikh 2005: 144, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Singpur, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- BIXA** Linnaeus, 1753 **BIXACEAE**
- Bixa kathgodamensis** Prasad, Ghosh & Tripathi 2004: 48, 50, pl. 4, figs 1-3, MIDDLE MIOCENE (Lower Siwalik), Gola River Bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- BOEHMERIA** Scopoli, 1760 **URTICACEAE**
- Boehmeria intertrappea** Ambwani, Kar, Srivastava & Dutta 2004: 30, pl. 1, figs 1-9, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- BOUEA** Meisner, 1837 **ANACARDIACEAE**
- Bouea koilabasensis** Prasad. Agarwal 2002: 169, pl. 1, fig. 4, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Bouea neyveliensi** Agarwal 1989: 166-170, pl. 1, figs 1-5, MIOCENE, Neyveli Lignite Deposit Mine II, South Arcot District, Tamil Nadu.
- Bouea premacrophylla** Antal & Awasthi 1994: 29, pl. 7, fig. 1, pl. 8, fig. 2, MIDDLE MIOCENE, (MIDDLE MIOCENE - PLIOCENE*), (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal; Agarwal 2002: 170, pl. 1, fig. 6, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Bouea rediensis** Srivastava & Saxena 1998: 25, 30, pl. 1, figs 3, 7-9, MIOCENE (Sindhudurg Formation), Mavli Mine at Redi, Sindhudurg District, Maharashtra.
- BORASSEACARPON** Puranik & Kolhe, 2005 INCERTAE SEDIS (*Nomen nudum*)
- Borasseacarpum mohgaense* Puranik & Kolhe 2005: 149, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- BRIDELIA** Willdenow, 11806 **EUPHORBIACEAE**
- Bridelia oligocenica** Awasthi & Mehrotra 1995: 182, 184, pl. 8, fig. 4, OLIGOCENE, Tirap Colliery near Ledo, Makum Coalfield, Tinsukia District, Assam.
- Bud Type I**, Mathur, Mishra & Mehra 1996: 54, pl. 20, figs 4-5, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Bud**, Mehra, Mishra & Mathur 1990a: 49, fig. 2 d, LOWER MIOCENE (Kasauli Formation), Barog, Solan District, Himachal Pradesh.
- BURSERIA** Jacquin ex Linnaeus, 1762 **BURSERACEAE**
- Bursera preserrata** Antal & Awasthi 1994: 27, pl. 5, fig. 8, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*), (Lower Siwalik) (Lower-Middle Siwalik*), left bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.
- Bursera serratoides** Antal & Awasthi 1994: 28, pl. 19, fig. 6, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*), (Lower Siwalik)

(Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

- DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.

BURSEROXYLON Prakash & Tripathi emend. Lakhanpal, Prakash & Awasthi, 1981
BURSERACEAE

Burseroxylon preserratum Prakash & Tripathi. Prasad 1993a: 61, 63, pl. 5, figs 1-4, MIDDLE MIOCENE (Lower Siwalik), Nungarh Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**); Khare, Prasad & Awasthi 2001: 457, pl. 3, figs 5-8, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

CAESALPINIA Linnaeus, 1753 **FABACEAE**
(LEGUMINOSAE)

♦ *Caesalpinia microphylla* G. Don (Leaf), Prasad & Pandey 2005: 65, MIDDLE MIOCENE (Lower Siwalik), Tanakpur, Champawat District, Uttaranchal.

CALLICARPA Linnaeus, 1753 **VERBENACEAE**

Callicarpa siwalica Antal & Awasthi 1994: 42, pl. 15, fig. 1, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE *), (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

CALLISTEMONITES Bande, Mehrotra & Prakash, 1986 (= **MUSA**) **MUSACEAE**

Callistemonites indicus Bande, Mehrotra & Prakash = **Musa cardiosperma** Jain 1964a.

Callistemonites indicus Bande, Mehrotra & Prakash. Bande, Mehrotra & Awasthi 1994: 68, pl. 1, figs 1-3, 5, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.

Callistemonites indicus Bande, Mehrotra & Prakash 1986: 8-9, pl. 3, figs 20-22, MAESTRICHTIAN

CALOPHYLLUM Linnaeus, 1753 **CLUSIACEAE**
(GUTTIFERAE)

Calophyllum eoinophyllum Prakash. Prakash, Vaidyanathan & Tripathi 1994: 117, pl. 1, figs 4-5, MIOCENE (Tipam Sandstones), Borjan Stream, Naginimara, Mon District, Nagaland.

Calophyllum suraikholaensis Awasthi & Prasad. Ambwani, 1991: 140, fig. 1 A, PALAEOCENE, Cherrapunji, West Khasi Hills District, Meghalaya; Awasthi & Srivastava 1992b: 53, pl. 1, figs 3-5, MIOCENE (Warkalli Formation), Papanasam beach in Varkala, Thiruvananthapuram District, Kerala; Antal & Awasthi 1994: 22, pl. 3, figs 5, 7, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*), (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal; Awasthi & Mehrotra 1995: 160, pl. 1, fig. 2, pl. 3, fig. 1, OLIGOCENE, Tipong Colliery, near Ledo Makum Coalfield, Tinsukia District, Assam; Prasad, Ghosh & Tripathi 2004: 52, pl. 5, fig. 1, pl. 7, fig. 3, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

CALOPHYLLOXYLON Lakhanpal & Awasthi, 1965 **CLUSIACEAE** (**GUTTIFERAE**)

Calophylloxyton gogalacherraensis Prakash, Vaidyanathan & Tripathi 1994: 114-116, pl. 1, figs 1-3, text-fig. 1, MIOCENE (Tipam Sandstones), Gogalacherra, about 25 km southeast of Hailakandi, Cachar District, Assam.

CALYOPTERIS Lamarck, 1793
COMBRETACEAE

Calycopteris palaeofloribunda Mehrotra 2000a: 232, pl. 2, fig. 4, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya.

- CANANGA** de Candolle Hooker & Thomson, 1855
ANNONACEAE
(Warkalli Formation), Varkala Cliff section, Thiruvananthapuram District, Kerala.
- Cananga tertiara** Prasad 1994a: 57, pl. 2, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- CANARIOCARPON** Agarwal & Ambwani, 2000
BURSERACEAE
- Canariocarpum ratnagiriensis** Agarwal & Ambwani 2000: 96, 98, pl. 1, figs 1-16, pl. 2, figs 1-8, MIOCENE, Kalviwadi, Sindhudurg District, Maharashtra.
- CANARIOXYLON** Prakash, Bøezinová & Awasthi, 1974
BURSERACEAE
- Canarioxylon assamiaun** Prakash, Du & Tripathi 1992: 2-3, pl. 1, figs 1, 3-4, 6-8, text-figs 1-3, MIDDLE MIOCENE (Tipam Sandstones), Diphu, Karbi Anglong District, Assam.
- Canarioxylon indicum** Ghosh & Roy. Awasthi & Mehrotra 1993: 84, pl. 1, figs 3-5, UPPER MIOCENE - PLIOCENE (Namsang Beds), Namsang River bed, Deomali District, Arunachal Pradesh; Bera & Banerjee 2001: 183, pl. 4, figs 7-9, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal.
- Canarioxylon shahpuraensis** Trivedi & Srivastava. Khare, Prasad & Awasthi 2001: 457, pl. 4, figs 1-4, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.
- CANARIUM** Linnaeus, 1759
BURSERACEAE
- Canarium neyveliense** Agarwal 2002: 171-172, pl. 2, figs 3-4, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Canarium palaeoluzonicum** Awasthi & Srivastava 1989: 173-174, pl. 1, figs 1-4, 6, 8, text-figs 1-2, MIOCENE (MIOCENE - PLIOCENE*)
- CANTHIUMOXYLON** Agarwal, 1993
RUBIACEAE
- Canthiumoxylon neyveliense** Agarwal 1993: 181-182, figs 1-4, MIOCENE, Neyveli Lignite Deposit, Mine I, South Arcot District, Tamil Nadu.
- CAPPARIS** Linnaeus, 1753
CAPPARIDACEAE
- Capparis palaeomicrantha** Prasad, Ghosh & Tripathi 2004: 48, pl. 4, figs 5, 7 MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- CARALLIOXYLON** Awasthi, 1984
RHIZOPHORACEAE
- Carallioxylon indicum** Awasthi. Awasthi & Srivastava 1992: 149-150, pl. 2, fig. 4, pl. 3, figs 1-3, MIOCENE (Warkalli Formation), Varkala Cliff Section, Thiruvananthapuram District, Kerala.
- Carallioxylon miocenicum** Awasthi & Srivastava 1992: 150-151, pl. 3, figs 4-6, MIOCENE (Warkalli Formation), Payangadi Super Clay Mine, Kannur District, Kerala.
- CAREYOXYLON** Awasthi, 1970
LECYTHIDACEAE
- Careyoxylon awasthii** Harsh, Sharma & Suthar 1992: 93, fig. 1 C-D, fig. 2 D-F, TERTIARY, Harsolav, Bikaner District, Rajasthan.
- Careyoxylon pondicherriense** Awasthi. Awasthi & Srivastava 1992: 151-152, pl. 4, figs 3-5, MIOCENE (Warkalli Formation), Varkala Cliff Section, Thiruvananthapuram District, Kerala; Agarwal 1990b: 179, pl. 1, figs 1-4, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.

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- Careoxylon kuchilense* Prakash & Tripathi 1970: 155-157, pl. 1, figs 1, 3, 5-6, text-fig. 1, UPPER MIOCENE (Tipam Sandstones), Kuchila near Hailakandi, Cachar District, Assam.
- CARICEOPHYLLUM** Kolhe & Dhabarde 2002 CYPERACEAE (*Nomen nudum*).
- Cariceophyllum singhpurii* Kolhe & Dhabarde 2002: 35, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Singhpur, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- CARPOLITHUS** Corda, 1841 **INCERTAE SEDIS**
- Carpolithus sp. I**, Mathur, Mishra & Mehra 1996: 37, pl. 8, fig. 8, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Carpolithus sp. II**, Mathur, Mishra & Mehra 1996: 54, pl. 21, figs 1-2, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Carpolithus sp. III**, Mathur, Mishra & Mehra 1996: 54-55, pl. 21, fig. 3, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Carpolithus sp. IV**, Mathur, Mishra & Mehra 1996: 55, pl. 21, fig. 4, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Carpolithus sp. V**, Mathur, Mishra & Mehra 1996: 55, pl. 21, fig. 5, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- ♦ *Carpolithus I-V*, Mehra, Mathur & Mishra 1995: 94, 97, pl. 1, figs 1-5, LOWER MIOCENE (Kasauli Formation), near Daghota, Himanchal Pradesh.
- ♦ *Carpolithus sp. I*, Mishra Mathur & Mehra 1995: 99, pl. 1, fig. 2, OLIGOCENE (Dagshai Formation), Himanchal Pradesh.
- ♦ *Carpolithus sp. II*, Mishra, Mathur & Mehra 1995: 99, pl. 1, fig. 6, LOWER MIOCENE (Kasauli Formation), Himanchal Pradesh.
- Carpolithus sp.**, Tiwari & Mehrotra 2002: 74, fig. 2 H, OLIGOCENE (Barail Group), sandy shale horizon, locality no. 1, Champhai-Aizwal Road, Champhai District, Mizoram.
- CARPOTHECA** Binda & Nambudiri, 1983 **INCERTAE-SEDIS**
- Carpotheca**, Tripathi & Sharma 2000b: 181, fig. 1 F, EOCENE, Lignite deposits Barsingsar and Giral of Bikaner and Barmer Districts, respectively, Rajasthan.
- Carpotheca (?)**, Tripathi & Sharma 2000b: 181, fig. 1 G, H, EOCENE, Lignite deposits Barsingsar and Giral of Bikaner and Barmer Districts, respectively, Rajasthan.
- Carpotheca cf. C. pusilla** Binda & Nambudiri. Tripathi & Sharma 2000b: 181, fig. 1 E, EOCENE, Lignite deposits Barsingsar and Giral of Bikaner and Barmer Districts, respectively, Rajasthan.
- CARTHAMUS** Linnaeus, 1753 **ASTERACEAE (COMPOSITAE)**
- Carthamus deccani** Yawale & Sakundarwar 1995: 451, figs 10-15, text-figs 1-9, MAESTRICHTIAN - DANIAN (? UPPER MOST CRETACEOUS), (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- CASEARIA** Jacquin, 1760 **FLACOURTIACEAE**
- Casearia pretomentosa** Antal & Awasthi 1994: 18, pl. 2, figs 1-2, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of

- upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal.
- Casearia tomentosa** Roxb. Srivastava 1998: 97, pl. 1, fig. 1, LATE CENOZOIC, Mahuadanr Valley, Palamu District, Bihar.
- CASSIA** Linnaeus, 1753 **FABACEAE (LEGUMINOSAE)**
- Cassia antiqua** Awasthi & Lakhanpal 1990: 282, pl. 1, fig. 10, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.
- Cassia dayalii** Mathur, Mishra & Mehra 1996: 44-45, pl. 14, fig. 3, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Cassia cf. C. fistula** Linn. Prasad 1994c: 85, 88, pl. 2, figs 1, 3, MIOCENE - PLIOCENE (Middle Siwalik), Hardwar District, Uttaranchal (Uttar Pradesh*).
- Cassia miosiamea** Prasad. Guleria, Srivastava & Prasad 2000: 45-46, pl. 1, figs 11-12, LOWER MIOCENE (Kasauli Formation), Kasauli town (i) St. Mary's School Compound (ii) adjoining MES Inspection bungalow (iii) Behind Kasauli Bus Stand, Solan District, Himachal Pradesh; Agarwal 2002: 182, pl. 9, fig. 6, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Cassia praesophora** Agarwal 2002: 183, pl. 10, fig. 1, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Cassia satsangii** Mathur, Mishra & Mehra 1996: 45, pl. 14, fig. 1, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Cassia siwalica** Prasad 1994a: 72-73, pl. 7, fig. 9, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- CASSINIUM** Prakash, 1975 **FABACEAE (LEGUMINOSAE)**
- Cassinium борооahii** (Prakash) Prakash. Mehrotra, Awasthi & Dutta 1999: 232, 234, pl. 3, figs 2, 5-6, pl. 4, figs 1-3, LATE MIOCENE - PLIOCENE (Siwalik Group), near Kimin, Subansiri District, Arunachal Pradesh; Bera & Banerjee 2001: 181-182, pl. 3, figs 16-18, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Uttar Raipur, Birbhum District, West Bengal.
- Cassinium prefistulai** Prakash. Awasthi & Srivastava 1992: 151, pl. 4, figs 1-2, MIOCENE (Warkalli Formation), Padappakara, Kollam District, Kerala; Guleria, Gupta & Srivastava 2002: 234, pl. 3, figs 1-5, MIDDLE PLIOCENE (Mohargarh Formation: Middle Siwalik), Gandla near Ramnagar, Udhampur District, Jammu & Kashmir.
- Cassinium arcotense* Awasthi 1979: 159-161, pl. 2, figs 8-9, pl. 3, fig. 10, MIOCENE - PLIOCENE (Cuddalore Sandstones), Muratandichavadi near Pondicherry, South Arcot District, Tamil Nadu.
- Cassinium ballavpurens* Ghosh & Roy 1981: 285-288, figs 1-7, UPPER MIOCENE, Ballavpur near Bolpur, Birbhum District, West Bengal.
- Cassinium cassioides* (Prakash & Awasthi) Prakash. Prakash & Awasthi 1970: 36, pl. 3, figs 15-16, pl. 4, figs 18, 20-21, UPPER MIOCENE (Tipam Sandstones), Burhi Dehing River Bed near Jaipur, Assam; Prakash, Vaidyanathan & Tripathi 1994: 129-130, pl. 4, figs 30-32, text-fig. 8, MIOCENE (Tipam Sandstones), Bimlapur near Dilighat Colliery, Dibrugarh District, Assam.
- Cassinium variegatum* Ramanujam 1960: 120, pl. 32, figs 37-41, text-fig. 26, MIOCENE - PLIOCENE (Cuddalore Sandstones), Muratandichavadi and Tiruchitambalam, South Arcot District, Tamil Nadu.

- Peltophoroxydon parenchymatosum* Kramer 1974: 124, pl. 28, figs 107-108, 110-112, 115, pl. 29, fig. 116, text-fig. 14 a-d, LATE ? TERTIARY/QUATERNARY, South Sumatra or West Java, Indonesia.
- Cecidomyiid galls on Eomangiferophyllum leaves**, Srivastava, Abbas, Mehrotra & Srivastava 2000: 45, fig. 2 A-C, figs 5-6, UPPER PALAEOCENE (Tura Formation), Damalgiri near Tura, West Garo Hills District, Meghalaya.
- CERISCOIDES** (Hooker, f.) Tirvengadam, **RUBIACEAE**
- Ceriscoides neyveliensis** Agarwal 2002: 190-191, pl. 13, fig. 3, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- CHENOPODIANTHUS** Kapgate, Kapgate & Sheikh, 2005b **CHENOPODIACEAE**
- Chenopodianthus mohgaonii** Kapgate, Kapgate & Sheikh 2005b: 324-326, pl. 1, figs 1-4, pl. 2, figs 1-7, text-figs 1-5, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS - EOCENE) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- CHITALEYPUSHPUM** Paradkar, 1973 **DICOTYLEDONAE**
- Chitaleypushpum heptaloculi* Kokate, Upadhye & Bhadange 2005: 139, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- CHRYSOPHYLLUM** Linnaeus, 1753 **SAPOTACEAE**
- Chrysophyllum tertiarum** Mehrotra 2000a: 234, pl. 2, fig. 1, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya.
- CHUKRASIA** A. H. L. Jussieu, 1830 **MELIACEAE**
- Chukrasia himachalensis** Srivastava & Guleria 2004a: 98, pl. 1, fig. 5, LOWER MIOCENE (Kasauli Formation), Adjoining MES Inspection Bangalow, Kasauli, Solan District, Himachal Pradesh.
- Chukrasia miocenica** Prasad 1994b: 120, fig. 1 F, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- CINNAMOMUM** Schaeffer, 1760 **LAURACEAE**
- ♦ *Cinnamomum caudatum* Nees (Leaf), Prasad & Pandey 2005: 65, MIDDLE MIOCENE (Lower Siwalik), Tanakpur, Champawat District, Uttaranchal.
- Cinnamomum sp.** Antal & Awasthi 1994: 45, pl. 16, figs 1-3, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ramthi River and right and left banks of Ghish River near Oodlabari, Darjeeling District, West Bengal.
- Cinnamomum sp.** Awasthi & Srivastava 1992b: 54, pl. 1, figs 6-7, MIOCENE (Warkalli Formation), Papanasam beach in Varkala, Thiruvananthapuram District, Kerala.
- ♦ *Cinnamomum tavoyanum* Meis (Leaf), Prasad & Pandey 2005: 65, MIDDLE MIOCENE (Lower Siwalik), Tanakpur, Champawat District, Uttaranchal.
- CLINOGYNE** Salisbury, 1883 = **DONAX** Loureiro, 1790 **MARANTACEAE**
- Clinogyne lishensis* Antal & Prasad = **Donax lishensis** (Antal & Prasad) Srivastava & Guleria 2004a: 104
- Clinogyne cf. C. ovatus* Awasthi & Prasad = **Donax cf. C. ovatus** (Awasthi & Prasad) Srivastava & Guleria 2004a: 104

- Clinogyne ovatus* Awasthi & Prasad = **Donax ovatus** (Awasthi & Prasad) Srivastava & Guleria 2004a: 104 Temple, Kasauli, Solan District, Himachal Pradesh.
- CLUSIOCARPUS** Kolhe & Wazalkar, 1998
CLUSIACEAE (GUTTIFERAE)
- Clusiocarpus indicum** Kolhe & Wazalkar, 1998: 19-21, text-figs 1-54, MAESTRICHTIAN - DANIAN (?UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- COCOS** Linnaeus, 1753 **ARECACEAE (PALMAE)**
- Cocos nucifera like fruit**, Tripathi, Mishra & Sharma 1999: 254-255, pl. 1, figs 1-8, text-figs 1-9, TERTIARY, Amarkantak, Shahdol District, Madhya Pradesh.
- Cocos pantii** Mishra 2004: 237-239, pl. 1, figs 1-4, TERTIARY, Amarkantak, Shahdol District, Madhya Pradesh.
- COMBRETOXYLON** Lemoigne, 1978
COMBRETACEAE
- Combretoxylon bengalensis** Bera & Banerjee 2001: 183, pl. 4, figs 1-3, text-figs 3-4, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Muhammad Bazar, Birbhum District, West Bengal.
- COMBRETUM** Loefling, 1758 **COMBRETACEAE**
- Combretum decandrum** Roxb. Bande & Srivastava 1990: 350, pl. 2, figs 1, 3, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Combretum sahnii** Antal & Awasthi 1994: 36, pl. 10, figs 3, 5, MIDDLE MIOCENE (MIDDLE MIOCENE-PLIOCENE*), (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal; Arya & Awasthi 1995: 272, pl. 1, figs 4-5, LOWER MIOCENE (Kasauli Formation), Shiv Shakti
- COMMIPHORA** Jacquin 1797 **BURSERACEAE**
- ♦ *Commiphora caudate* Engl. (Leaf), Prasad & Pandey 2005: 65, MIDDLE MIOCENE (Lower Siwalik), Tanakpur, Champawat District, Uttaranchal.
- COSTATHECA** Hall emend Binda & Nambudiri, 1983 **INCERTAE SEDIS**
- Costathea** Hall emend. Binda & Nambudiri. Tripathi & Sharma 2000b: 181, fig. 1 C-D, EOCENE, Lignite deposits Barsingsar, and Giral of Bikaner and Barmer Districts, Rajasthan; Tripathi 2002: 331, fig. 1 E, G, EOCENE, Lignite deposits of Barmer District, Rajasthan.
- CRATOXYLON** Nees, 1825 **CLUSIACEAE (GUTTIFERAE)**
- ♦ *Cratoxylon prunifolium* Kurz. Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Bilaspur District, Himachal Pradesh.
- CRINUM** Linnaeus, 1753 **AMARYLLIDACEAE**
- Crinum eocenum** Patil & Upadhye 1990: 209, pl. 1, figs 1-7, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- CRYPTOLEPIS** R. Brown, 1811
ASCLEPIADACEAE
- Cryptolepis buchamani** Roem. & Schult. Bande & Srivastava 1990: 357, pl. 10, figs 1-5, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- CRYPTOSTEGIA** R. Brown, 1820
ASCLEPIADACEAE
- Cryptostegia type-Fossil cuticle type-2**, Verma, Upadhyay & Srivastava 1989: 194, pl. 1, figs 5-8, text-fig. 2 A-H, LOWER MIOCENE,

Neyveli Lignite Deposits, South Arcot District, Tamil Nadu.

CULMITES Brongniart, 1822 **POACEAE (GRAMINAE)**

Culmites mohgaoense Sheikh & Kolhe 1998: 33-35, text-figs 1-7, MAESTRICHTIAN - DANIAN (?UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

CUPANIA Linneaus, 1753 **SAPINDACEAE**

Cupania miocenica Prasad, Ghosh & Tripathi 2004: 62, pl. 8, figs 5-6, 8, MIDDLE MIOCENE (LOWER SIWALIK), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

Cuticle Type I A with probable affinity with Lauraceae, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 376, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

Cuticle Type I B, C, D, with probable affinity with Lauraceae, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 376, pl. 1, figs 3, 5, pl. 2, figs 3, 5, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

Cuticle Type I E with probable affinity with Lauraceae / Magnoliaceae, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 376, pl. 1, fig. 6, pl. 2, figs 1-2, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

Cuticle Type II (probable affinity with Loranthaceae), Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 377, pl. 1, figs 2, 4, 8, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

Cuticle Type III (probable affinity with Myrtaceae), Tewari, Kumar, Anand Prakash,

Shukla & Srivastava 2001: 377, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

Cuticle Type IV (probable affinity with Caesalpiaceae), Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 377, pl. 1, fig. 7, pl. 2, fig. 8, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

Cuticle Type V (probable affinity with Symplocaceae), Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 378, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

Cuticle Type VI (probable affinity with Moraceae), Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 376, pl. 1, fig. 1, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

Cuticle Type VII (probable affinity with Dioscoraceae), Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 376, pl. 1, fig. 9, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

CYCLANTHODENDRON Sahni & Surange, 1944 **CYCLANTHACEAE**

Cyclanthodendron Sahni & Surange. Biradar & Bonde 1990: 51-52, pl. 1, figs 1-2, pl. 2, fig. 8, MAESTRICHTIAN - DANIAN (EARLY EOCENE *) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

Cyclanthodendron axis Verma & Upadhyay 1989: 84, fig. 1, figs 1-3, text-figs 4-6, MAESTRICHTIAN - DANIAN (TERTIARY, EOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

CYCLOSORUS Link, 1833
T H E L Y P T E R I D A C E A E
(PTERIDOPHYTA)

Cyclosorus eoprolitera (Prasad). Prasad, Ghosh & Tripathi 2004: 40, pl. 1, figs 1-3, 5, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

CYCLOSTEMON Blume, 1825-1826
EUPHORBIACEAE

Cyclostemon assamicus, Srivastava 1996: 95, LATE CENOZOIC, Mahuadanr Valley, Palamu District, Bihar. (*Nomen nudum*).

CYNOMETRA Linnaeus, 1753 **FABACEAE**
(LEGUMINOSAE)

♦ *Cynometra* (Wood), Guleria 2000b: 42, Piram Islands, Bhavnagar District, Gujarat.

Cynometra palaeoiripa Prasad, Antal, Tripathi & Pande. Prasad, Ghosh & Tripathi 2004: 68, pl. 10, figs 6-8, pl. 11, fig. 1, pl. 12, fig. 5, MIDDLE MIOCENE (Lower Siwalik), Gola River bed, near Jamrani, Kathgodam, Nainital District Uttaranchal.

Cynometra tertiara Antal & Awasthi 1994: 32, pl. 9, fig. 3, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

CYNOMETROXYLON Chowdhury & Ghosh, 1946
FABACEAE (LEGUMINOSAE)

Cynometroxylon holdenii (Gupta) Prakash & Bande. Awasthi, Mehrotra & Bhattacharyya 1994: 291-292, pl. 1, figs 1-4, UPPER MIOCENE (Upper Tipam Formation), near Dumbur water falls along road cutting on Amarpur-Dumbur road, South Tripura District, Tripura; Mehrotra, Awasthi & Dutta 1999: 234, pl. 4, figs 4-6, LATE MIOCENE - PLIOCENE (Siwalik Group), Ghogra River Section, Siang District, Arunachal Pradesh; Bera & Banerjee

2001: 179, pl. 3, figs 1-3, text-figs 3-4, LATE PLIOCENE-EARLY PLEISTOCENE (Bengal Basin), Muhammad Bazar, Birbhum District, West Bengal; Joshi, Mehrotra & De 2003: 312, pl. 1, figs 1-5, UPPER PLIOCENE - PLEISTOCENE (Upper Siwalik), foothills in west Kameng District, Arunachal Pradesh; Mandaokar, Mehrotra & Mazumder 2004: 119, pl. 1, figs 1-3, MIDDLE MIOCENE (Tipam Sandstones) Kamalpur, Karimganj District, Assam.

Cynometroxylon sp. cf. C. holdenii (Gupta) Prakash & Bande. Mehrotra, Awasthi & Dutta 1999: 235, pl. 5, figs 1-6, LATE MIOCENE - PLIOCENE (Siwalik Group), Ghogra River Section, Siang District, Arunachal Pradesh.

Cynometroxylon tertiarum Awasthi & Mehrotra 1997: 115-116, pl. 4, figs 34-38, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh.

CYPERACEOCARPON Dutta & Ambwani 2005b
CYPERACEAE

Cyperaceocarpion sahnii Dutta & Ambwani 2005b: 166, fig. 1 A-G, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

DALBERGIA Linnaeus f. , 1782 **FABACEAE**
(LEGUMINOSAE)

♦ *Dalbergia barogensis* Mishra, Mathur & Mehra 1995: 99, pl. 1, fig. 3, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh.

Dalbergia daghotaensis Mathur, Mishra & Mehra 1996: 43, pl. 13, figs 1-2, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

Dalbergia miovolubilis Prasad, Antal & Tiwari 1998: 26, pl. 4, figs 5,7, MIDDLE MIOCENE (Lower Siwalik), Seria Naka village, about 30

- km northwest of Tulsipur, Gonda District, Uttar Pradesh.
- Dalbergia cf. D. sissu** Roxburgh. Prasad 1994 c: 89, pl. 2, fig. 5, MIOCENE-PLIOCENE (Middle Siwalik), Hardwar District, Uttaranchal (Uttar Pradesh**).
- Dalbergia umeshii** Mathur, Mishra & Mehra 1996: 44, pl. 13, fig. 5, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- DECCANITES* Kapgate, Sheikh & Chitale, 1985 MARSILEACEAE (PTERIDOPHYTA) (*Nomen nudum*)
- Deccanites intertrappea* Kapgate 1993b: 259, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh (*Nomen nudum*); Kapgate 1999a: 338, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- DERRIS** Loureiro, 1790 **FABACEAE (LEGUMINOSAE)**
- Derris champarensis** Awasthi & Lakhanpal 1990: 280, pl. 1, fig. 8, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.
- Derris prakashii** Prasad, Ghosh & Tripathi 2004: 69, pl. 11, figs 3-4, MIDDLE MIOCENE (Lower Siwalik), Gola River, bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- DERRISOCARPON** Mitra & Banerjee, 2004 **FABACEAE (LEGUMINOSAE)**
- Derrisocarpon miocenicum** Mitra & Banerjee 2004: 256, fig. 1 H-I, MIDDLE MIOCENE (Lower Siwalik; Gish Clay Formation), near Sivok Bridge (On National Highway 31), Darjeeling District, West Bengal.
- DERRISOPHYLLUM** Mitra & Banerjee, 2004 **FABACEAE (LEGUMINOSAE)**
- Derrisophyllum siwalicum** Mitra & Banerjee 2004: 254-255, fig. 1 C-E, fig. 2 A, MIDDLE MIOCENE (Lower Siwalik; Gish Clay Formation), Near Sivok Bridge (On National Highway 31), Darjeeling District, West Bengal.
- DIALIUM** Linnaeus, 1767 **FABACEAE (LEGUMINOSAE)**
- Dialium palaeoindum** Prasad 1994a: 71-72, pl. 7, figs 3, 5, MIDDLE MIOCENE (Lower Siwalik), Gola River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**); Agarwal 2002: 183-184, pl. 11, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- DIALIUMOXYLON** Lemoigne, 1978 **FABACEAE (LEGUMINOSAE)**
- Dialiumoxylon indicum** Guleria. Guleria 1990a: 186, pl. 2, figs 3-4, PLIOCENE-PLEISTOCENE (Mar Formation), Bikaner District, Rajasthan; Bera & Banerjee 2001: 178, pl. 2, figs 13-15, LATE PLIOCENE-EARLY PLEISTOCENE (Bengal Basin), Muhammad Bazar, Birbhum District, West Bengal;
- Dialiumoxylon palaeoindicum** Prasad 1993a: 67, pl. 8, figs 1-3, pl. 9, figs 1-2, MIDDLE MIOCENE (Lower Siwalik), Kuwan Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).
- Dicot flower** Bande & Srivastava 1990: 361, pl. 13, fig. 11, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Dicot flowers Type-I-Type IV**, Srivastava, Mishra & Bande 1992: 234, pl. 2, figs 5-9, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- ♦*Dicot fruit*, Kapgate, Patil & Ilamkar, 2004: 26, MAESTRICHTIAN-DANIAN (Deccan

- Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Dicot fruit type-1 cf. *Dillenia* sp.** Bande & Srivastava 1990: 361, pl. 13, fig. 12, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Dicot fruit type-2 cf. *Ziziphus xylopyrus* Willd.** Bande & Srivastava 1990: 361-362, pl. 13, fig. 9, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Dicot fruit type-3 cf. *Ziziphus mauritiana* Lamk.** Bande & Srivastava 1990: 362, pl. 13, fig. 7, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Dicot fruit type-4 cf. *Dalbergia sissoo* Roxb.** Bande & Srivastava 1990: 362, pl. 13, fig. 5, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- ♦*Dicot woods*, Guleria 2000: 9, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat.
- DICOTYLIRHIZOS** Rao, 1958
DICOTYLEDONAE
- Dicotylirhizos herbalis* Kapgate 1991a: 56, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- Dicotylirhizos herbatiales** Kapgate 2005: 113-114, pl. 1, figs 1-4, text-figs 1-8, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Dicotylirhizos nautalii** Saxena, Sheikh & Kapgate 2004: 8-10, pl. 1, figs 1-5, pl. 2, figs 1-6, text-figs 1-8, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- DICOTYLOPHYLLUM** Saporta, 1892
DICOTYLEDONAE
- Dicotylophyllum** Mathur, Mishra & Mehra 1996: 51, pl. 18, fig. 4, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Dicotylophyllum acrodromoides** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 72, pl. 3, figs 2-3, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum alstonioides** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 74, pl. 3, fig. 9, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum asymmetricum** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 72, pl. 2, figs 2, 7, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum bijangense** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 73, pl. 3, figs 4-5, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum callophyloides** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 73, pl. 3, fig. 6, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum cordifoliatum** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 73, pl. 3, fig. 8, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum eopulvinatum** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 72, pl. 2, fig. 4, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum evansii** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 72, pl. 2,

- figs 5-6, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum ghughuensis** Guleria & Mehrotra 1999: 69,71, pl. 1, figs 1-2, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.
- Dicotylophyllum intramarginalivenoides** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 70, pl. 1, figs 7-9, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum kainai** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 68, pl. 1, fig. 5, LATE EOCENE, Upper Disang; Kaina, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum lakhanpalii** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 70, pl. 2, fig. 1, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum lateovatum** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 74, pl. 3, figs 10-11, LATE EOCENE, Upper Disang; Kaina, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum mandlaensis** Guleria & Mehrotra 1999: 72, pl. 1, fig. 3, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.
- Dicotylophyllum mizoramensis** Tiwari & Mehrotra 2002: 74, fig. 2 G, OLIGOCENE (Barail Group), sandy shale horizon, locality no. 1, Champhai-Aizwal Road, Mizoram.
- Dicotylophyllum oblongum** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 73, pl. 3, fig. 7, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum oligocenicum** Mehrotra & Mandaokar 2000: 314, pl. 1, fig. 2, OLIGOCENE (Barail Group), Manmao, Tirap District, Arunachal Pradesh.
- Dicotylophyllum palaeoellipticum** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 72, pl. 2, figs 3, 8, LATE EOCENE, Upper Disang; Kaina, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum pulvinatum** Guleria & Mehrotra 1999: 72, pl. 1, fig. 4, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.
- Dicotylophyllum sp.**, Mandaokar & Ambwani 2005: 261, fig. A, OLIGOCENE - MIOCENE, Namchick river section, Tirap District, Arunachal Pradesh.
- Dicotylophyllum thoubalense** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 74, pl. 3, fig. 12, LATE EOCENE, Upper Disang; Kaina, Imphal Valley, Imphal District, Manipur.
- Dicotylophyllum undulatum** Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 68, pl. 1, fig. 6, LATE EOCENE, Upper Disang; Kaina, Imphal Valley, Imphal District, Manipur.
- DILLENIA** Linnaeus, 1753 **DILLENiaceae**
- Dillenia palaeoindica** Prasad & Prakash. Antal & Awasthi 1994: 16, pl. 1, figs 1,3, MIDDLE MIOCENE (MIDDLE MIOCENE - Pliocene*) (Lower Siwalik) (Lower-Middle Siwalik*) right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.
- DIOSPYROS** Linnaeus, 1753 **EBENACEAE**
- ♦*Diospyros* (Wood), Guleria 2000b: 42, Piram Islands, Bhavnagar District, Gujarat. (*Nomen nudum*).

- Diospyros barogensis** Mathur, Mishra & Mehra 1996: 46-47, pl. 15, fig. 1, LOWER MIOCENE (Kasauli Formation), near Daghotra, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Diospyros bikanerensis** Mathur & Mathur 1998: 134, pl. 4, fig. 5, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District Rajasthan.
- ♦*Diospyros ebenum* Engl. (Leaf), Prasad & Pandey 2005: 65, MIDDLE MIOCENE (Lower Siwalik), Tanakpur, Champawat District, Uttaranchal.
- Diospyros kathogodamense** Prasad 1994a: 81, pl. 9, fig. 7, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh*).
- Diospyros koilabasensis** Prasad, Antal & Awasthi 1994: 40-41, pl. 14, figs 1, 3, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.
- Diospyros miocenicus** Prasad & Awasthi. Agarwal 2002: 180, pl. 8, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Diospyros montana** Roxb. Bande & Srivastava 1990: 356, pl. 9, figs 1-3, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Diospyros nainitalensis** Prasad, Ghosh & Tripathi 2004: 72, pl. 13, figs 3, 5, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- Diospyros palaeoebenum** Prasad 1994b: 123, fig. 3A, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- Diospyros palaeoeriantha** Prasad, Ghosh & Tripathi 2004: 73, pl. 13, figs 6-7, 9, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam District, Uttaranchal.
- Diospyros pretoposia** Prasad. Agarwal 2002: 180, pl. 8, figs 4-6, MIOCENE, Neyveli Lignite Deposit, Mine I, South Arcot District, Tamil Nadu.
- Diospyros tulsipurensis** Prasad, Antal & Tiwari 1998: 27, pl. 4, fig. 9, MIDDLE MIOCENE (Lower Siwalik), Seria Naka village, about 30 km northwest of Tulsipur, Gonda District, Uttar Pradesh.
- ♦*Diospyros variegata* Kurz. (Leaf), Prasad & Pandey 2005: 65, MIDDLE MIOCENE (Lower Siwalik), Tanakpur, Champawat District, Uttaranchal.
- DIPLODITES** Taterenikora-Babayan & Taslakhchian ex Kalgutkar, Nambudiri & Tidwell, 1993 **SPHAEROPSIDACEAE.**
- Diplodites mohgaensis** (Barlinge & Paradkar) Kalgutkar, Nambudiri & Tidwell comb. nov. 1993: 115
- Botryodiplodia mohgaensis* Barlinge & Paradkar 1979: 163-175, pl. 1, fig. G, text-figs A-E, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Diplodites rodei** (Mahabale) Kalgutkar, Nambudiri & Tidwell comb. nov. 1993: 115
- Diplodia rodei* Mahabale 1968: 295-297, pl. 1, figs 1-6, text-figs 1-6, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Diplodites sahnii** (Singhai) Kalgutkar, Nambudiri & Tidwell comb. nov. 1993: 115
- Diplodia sahnii* Singhai 1974: 92-102, pl. 2, figs 5-8, text-fig. 4, MAESTRICHTIAN - DANIAN

- (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Diplodites sweetii** Kalgutkar, Nambudiri & Tidwell 1993: 111, 113, pl. 1, figs 3-5, pl. 2, figs 1-6, pl. 3, figs 1-5, pl. 4, figs 1-3, MAESTRICHTIAN - DANIAN (LATE MAASTRICHTIAN*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- DIPTEROCARPOXYLON** Holden emend Den Berger 1927, **DIPTEROCARPACEAE**
- Dipterocarpoxyylon arcotense** Awasthi. Prasad 1993a: 53, 55, pl. 1, figs 1-4, 6, MIDDLE MIOCENE (Lower Siwalik), Nungarh Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).
- Dipterocarpoxyylon bolpureense** Ghosh & Roy. Awasthi & Mehrotra 1993: 82, pl. 1, figs 1-2, UPPER MIOCENE - PLIOCENE (Namsang Beds), Namsang River bed, Deomali, Arunachal Pradesh; Mehrotra & Bhattacharyya 2002: 124, 126, pl. 1, figs 1-7, UPPER MIOCENE (Tipam Group; Champanagar Formation), Bisalgarh, Agartala District, Tripura.
- Dipterocarpoxyylon chowdhurii** Ghosh. Prakash, Vaidyanathan & Tripathi 1994: 118, pl. 1, figs 6-7, MIOCENE (Tipam Sandstones), Gogalacherra, about 25 km southeast of Hailakandi, Cachar District, Assam.
- Dipterocarpoxyylon jammuense** Guleria, Gupta & Srivastava 2002: 230, pl. 1, figs 1-5, MIDDLE PLIOCENE (Mohargarh Formation: Middle Siwalik), Bameal near Nagrota, Jammu District, Jammu & Kashmir; Guleria, Srivastava, Nanda & Sehgal 2005: 613, pl. 1, figs 5-9, UPPER MIOCENE (Middle Siwalik; Dhok Pathan Formation), west of Kaluwala Rao, Mohand, Dehradun District, Uttaranchal.
- Dipterocarpoxyylon kalagarhensis** Yadav 1989: 53-54, pl. 1, figs 6, 8, 10, MIDDLE MIOCENE (Lower Siwalik), Kalagarh, Pauri (Tehri**) Garhwal District, Uttaranchal (Uttar Pradesh**); Bera & Banerjee 2001: 176, pl. 2, figs 4-6, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal; Guleria, Gupta & Srivastava 2002: 232, pl. 2, figs 1-5, MIDDLE PLIOCENE (Mohargarh Formation: Middle Siwalik), Bameal near Nagrota, Jammu District, Jammu & Kashmir.
- Dipterocarpoxyylon kalaicharpense** Eyde. Awasthi & Mehrotra 1997: 111-112, pl. 1, figs 1-4, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh.
- Dipterocarpoxyylon malavii** Ghosh & Ghosh. Bera & Banerjee 1990: 84, fig. 3 E-H, ? LOWER PLEISTOCENE (Wood reworked MIOCENE) (Lower Lalgah Formation), Garbeta, Silai River Section, Midnapore District, West Bengal; Bera & Banerjee 2001: 176, pl. 1, figs 1-3, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal; Srivastava 2001: 137-138, pl. 1, figs 5-6, 10, MIOCENE (Warkalli Formation), Varkala Cliff Section, Varkala, Thiruvananthapuram District, Kerala.
- Dipterocarpoxyylon premacrocarpum** Prakash. Prakash, Vaidyanathan & Tripathi 1994: 118-119, pl. 1, figs 8-9, MIOCENE (Tipam Sandstones), Gogalacherra, near Hailakandi, Cachar District, Assam; Tiwari & Mehrotra 2000: 86, pl. 1, figs 1-5, LATE MIOCENE - EARLY PLIOCENE (Tipam Group), near Zawlnuam along Zawlnuam-Zawlpuai road, Mamit District, Mizoram.
- Dipterocarpoxyylon sp.** Srivastava 2001: 137-138, pl. 1, figs 5-6, 10, MIOCENE (Warkalli Formation), Varkala Cliff Section, Varkala, Thiruvananthapuram District, Kerala.
- Dipterocarpoxyylon tertiarum** Prakash. Guleria 1996: 50, pl. 1, figs 1-6, PLIOCENE - PLEISTOCENE (Mar Formation), Bajri Mine, situated close to and south-east of Nathusar Gate, Bikaner District, Rajasthan.

DIPTEROCARPUS Gaertner f. , 1805
DIPTEROCARPACEAE

Dipterocarpus (Wood), Prasad & Khare 1994: 52, pl. 1, figs 1-4, MIOCENE - PLIOCENE (Middle Siwalik), about 2 km from Lalita Rao near Mansa Devi Temple, Hardwar District, Uttaranchal (Uttar Pradesh**); Antal, Prasad & Khare 1999: 26, pl. 1, figs A-C, MIOCENE-PLIOCENE (Middle Siwalik), left bank of Ghish River Section, near Oodlabari, Darjeeling District, West Bengal.

Dipterocarpus siwalicus Lakhanpal & Guleria. Prasad 1994a: 63, pl. 4, fig. 1, MIDDLE MIOCENE (Siwalik), Balia River bed, Kathgodam, Nainital District, Uttarnachal (Uttar Pradesh**); Antal & Prasad 1996c: 74, pl. 1, figs 1-2, MIOCENE - PLIOCENE (Middle Siwalik), right bank of Ghish River, Oodlabari, Darjeeling District, West Bengal; Guleria, Srivastava & Prasad 2000: 43, pl. 1, fig. 1, LOWER MIOCENE (Kasauli Formation), unmettalled, way to Babu Mohalla, Dagshai Cantonment, Solan District, Himachal Pradesh.

Dispersed angiosperm culicle Type I-VII, Tewari, Kumar, Anand-Prakash, Shukla & Srivastava 2002: 376-378, pl. 1, figs 1-9, pl. 2, figs 1-9, pl. 3, figs 1-10, MIOCENE (Sindhudurg Formation), Amberivadi near Tirlot village in Devgarh Taluk, Sindhudurg District, Maharashtra.

DONAX Loureiro, 1790 **MARANTACEAE**

Donax kasauliensis Srivastava & Guleria 2004a: 102, pl. 2, figs 1, LOWER MIOCENE (Kasauli Formation), Near MES Water Works, Kasauli, Solan District, Himachal Pradesh.

Donax lishensis (Antal & Prasad) Srivastava & Guleria 2004b: 103

Clinogyne lishensis Antal & Prasad 1995: 241, pl. 1, figs 1-2, MIOCENE - PLIOCENE (Middle Siwalik), Lish River near Bagrakot, Darjeeling District, West Bengal.

Donax ovatus (Awasthi & Prasad) Srivastava & Guleria 2004b: 103

Clinogyne ovatus Awasthi & Prasad 1990 ; 299, pl. 1, figs 6-8, pl. 2, fig. 1, MIOCENE - PLIOCENE (Middle Siwalik), Surai Khola, Western Nepal; Prasad, Ghosh & Tripathi 2004: 42, pl. 2, fig. 2, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

Donax cf. C. ovatus (Awasthi & Prasad) Srivastava & Guleria 2004b: 103

Clinogyne cf. C. ovatus Awasthi & Prasad. Arya & Awasthi 1996: 271, pl. 1, fig. 1, LOWER MIOCENE (Kasauli Formation), Shiv Shakti Temple, Kasauli, Solan District, Himachal Pradesh.

DORSIVENTROPHYLLUM Mistri, Sheikh & Kapgata, 1996 **DICOTYLEDONAE**

Dorsiventrophyllum chitaleyii Mistri, Sheikh & Kapgata 1996: 1-3, text-figs 1-4, pl. 1, figs 1-4, MAESTRICHTIAN-DANIAN (UPPERMOST CRETACEOUS) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

DRACONTOMELON Blume, 1850-51
ANACARDIACEAE

Dracontomelon seriaense Prasad, Antal & Tiwari 1998: 25-26, pl. 4, fig. 3, MIDDLE MIOCENE (Lower Siwalik), Seria Naka Village, about 30 km northwest of Tulsipur, Gonda District, Uttar Pradesh.

DRUPACEOCARPON Kapgate, Kolhe & Patil, 2004
INCERTAE SEDIS (*Nomen nudum*)

Drupaceocarpon mohgaense Kapgate, Kolhe & Patil 2004: 24, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).

DRYPETES Vahl, 1807 **EUPHORBIACEAE**

Drypetes assamica Pax & K. Hoffman. (= *Cyclostemon assamicus* Hook. f.) Srivastava 1998: 98, pl. 1, fig. 2, LATE CENOZOIC, Mahuadanr Valley, Palamu District, Bihar.

DUABANGA Buch. -Ham, 1835
SONNERATIACEAE

♦*Duabanga* (Wood), Guleria 1991b: 40, ?PLIOCENE (Mar Formation), Bikaner District, Rajasthan.

DUABANGOCARPON Kadoo & Kolhe, 2002
SONNERATIACEAE

Duabangocarpum deccanii Kadoo & Kolhe, 2002: 40, 42, 44-45, fig. 3 a-f, fig. 4 a-o, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS - PALAEOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

DUABANGOXYLON Prakash & Awasthi, 1970
SONNERATIACEAE

Duabangoxylon tertiarum Prakash & Awasthi. Mehrotra & Mandaokar 1998: 99-101, pl. 1, figs 1-5, MIDDLE MIOCENE (Tipam Sandstone), Tipongpani near Tipong Colliery, Makum Coalfield, Tinsukia District, Assam.

DYSOXYLUM Blume, 1825 **MELIACEAE**

Dysoxylum mioklanderi Prasad 1994b: 120-121, fig. 2 A-C, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

EBENOXYLON Felix, 1882 **EBENACEAE**

Ebenoxylon kalagarhensis Prasad 1989: 137, 140, pl. 3, figs 11, 13, 15-16, MIDDLE MIOCENE (Lower Siwalik), Nungarh Nala, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).

Ebenoxylon miocenicum Prakash. Antal, Prasad & Khare 1996: 102, pl. 2, figs 1-4, MIOCENE - PLIOCENE (Middle Siwalik), Sukha River (about 4 km upstream) near Oodlabari, Darjeeling District, West Bengal.

Ebenoxylon palaeocandoleana Prasad 1993a: 71, 73, pl. 9, figs 3-4, pl. 10, figs 1, 3, MIDDLE MIOCENE (Lower Siwalik), Kalagarh Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).

ELAEOCARPOXYLON Prakash & Dayal, 1964
ELAEOCARPACEAE

Elaeocarpoxyylon ghughuensis Awasthi, Mehrotra & Srivastava 1996: 113, pl. 1, figs 1-3, 8-9, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS - PALAEOCENE*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.

Elaeocarpoxyylon mandlaensis Lakhanpal, Prakash & Bande. Awasthi, Mehrotra & Srivastava 1996: 114, pl. 1, figs 4-7, pl. 2, fig. 1, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS - PALAEOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

Elaeocarpoxyylon nawargaonensis Khare, Prasad & Awasthi 2001: 451, pl. 2, figs 1-4, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

ELAEOCARPUS Linnaeus, 1753
ELAEOCARPACEAE

♦*Elaeocarpus* (Wood), Srivastava 2003: 137, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Ghansor, Seoni District, Madhya Pradesh.

Elaeocarpus prelanceifolius (Fruit), Bera, De & De 2004: 350, figs 2 a-c, f-i, UPPER PLIOCENE - LOWER PLEISTOCENE (Kimin Formation), Papumpare District, Arunachal Pradesh.

ELLIPEIA Hooker f & Thomas, 1855
ANNONACEAE

- ♦*Ellipeia cuneifolia* HF & T (Leaf), Prasad & Pandey 2005: 65, MIDDLE MIOCENE (Lower Siwalik), Tanakpur, Champawat District, Uttaranchal.

ENTADA Adanson, 1763 **FABACEAE**
(LEGUMINOSAE)

- Entada palaeoscandens** Awasthi & Prasad. Antal & Awasthi 1994: 53, pl. 19, fig. 7, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal; Awasthi & Mehrotra 1995: 170, pl. 6, fig. 5, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam; Agarwal 2003: 136, fig. 3 A-B, MIOCENE, Kalviwadi Sindhudurg District, Maharashtra.

EOMANGIFEROPHYLLUM Mehrotra, Dilcher & Awasthi, 1998 **ANACARDIACEAE**

- Eomangiferophyllum damalgiriensis** Mehrotra, Dilcher & Awasthi 1998: 93, 99, fig. 2 A-E, PALAEOCENE (Tura Formation), Damalgiri, West Garo Hills District, Meghalaya; Srivastava, Abbas, Mehrotra & Srivastava 2000: 45, figs 2-3, 5-6, UPPER PALAEOCENE (Tura Formation), Damalgiri near Tura, West Garo Hills District, Meghalaya.

EQUISETOSTACHYS Sheikh, Kapgate & Kapgate, 2003 **EQUISETACEAE**

- Equisetostachys intertrappea** Sheikh, Kapgate & Kapgate, 2003: 113-115, pl. 1, text-figs 1-15, pl. 1, figs 1-4, MAESTRICHTIAN - DANIAN (? UPPERMOST CRETACEOUS *) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

ERANTHEMUM Linnaeus, 1753
ACANTHACEAE

- ♦*Eranthemum* (Leaf) Guleria 2002: 90, PALAEOCENE - EARLY EOCENE, Giral

Lignite Mine, Barmer District, Rajasthan.

ERIOSPERMUMOCORMUS Bonde, 2005
LILIACEAE

- Eriospermum indicus** Bonde 2005: 198-202, fig. 1 A-B, fig. 2 A-D, fig. 3 A-D, fig. 4 A-D, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

ERYTHRINA Linnaeus, 1753 **FABACEAE**
(LEGUMINOSAE)

- Erythrina suberosa** Roxb. Bande & Srivastava 1990: 344, pl. 5, fig. 6, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.

ESCHSCHOLTZIA Bernhardt, 1833
PAPAVERACEAE

- Eschscholtzia sp.** (Seed), Udhoji & Verma 1990: pl. 1, fig. E, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Brangda, Madhya Pradesh.

EUCALYPTUS L Héritier de Brutelle, 1789
MYRTACEAE

- Eucalyptus dharmendrae** Bande, Mehrotra & Prakash. Kulshreshtha, Rai, Prakash & Gupta 1995: 433, pl. 1, figs 1-6, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Dindori (Mandla*) District, Madhya Pradesh.

EUGEISSONOCARPON Shinde & Kulkarni, 1989
ARECACEAE (PALMAE)

- Eugeissonocarpum indicum** Shinde & Kulkarni 1989: 167-168, pl. 1, figs 1-5, MIOCENE, Rajapkar's Well Section near Pawas, Ratnagiri District, Maharashtra.

EUPHORBIOCARPON Mehrotra, Prakash & Bande, 1983 **EUPHORBACEAE**

- Euphorbiocarpum payangadiensis** Awasthi & Srivastava 1992b: 54, 56, pl. 1, figs 8-10,

MIOCENE (Warkalli Formation), Payangadi Super Clay Mine, Kannur District, Kerala.

Euphorbiocarpon singhpurii Bhowal, Shiekh & Narkhede 2002: 10, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean beds), Singhpur, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).

EUPHORIA Commerson ex Jussieu, 1789
SAPINDACEAE

Euphoria longanoides Antal & Awasthi 1994: 50, pl. 19, fig. 4, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

Euphoria siwalika Prasad 1994a: 69, pl. 6, figs 5-6, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

♦*Euphoria / Otonephalium* (Wood), Srivastava 2003: 137, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Ghansor Seoni District, Madhya Pradesh.

EUPHORIOXYLON Awasthi, Guleria & Lakhanpal, 1982 **SAPINDACEAE**

Euphorioxylon deccanense Mehrotra. Agarwal: 1996: 230, pl. 2, figs 1-2, MIOCENE, Neyveli Lignite Mine-I, South Arcot District, Tamil Nadu; Mehrotra, Awasthi & Dutta 1999: 228, 230, pl. 2, figs 1-5, LATE MIOCENE - PLIOCENE (Siwalik Group), Ghogra River Section, Siang District, Arunachal Pradesh.

Euphorioxylon indicum Awasthi, Guleria & Lakhanpal. Awasthi & Mehrotra 1993: 84, pl. 1, figs 6-7, UPPER MIOCENE - PLIOCENE (Namsang Beds), Namsang River bed, Deomali, Arunachal Pradesh; Prasad 1993a: 63, 65, pl. 6, figs 1-5, MIDDLE MIOCENE (Lower Siwalik), Kuwan Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**); Prakash, Vaidyanathan & Tripathi

1994: 121, pl. 2, figs 14-16, text-fig. 3, MIOCENE (Tipam Sandstones), Kartikcherra 42 km south of Hailakandi, Cachar District, Assam; Srivastava & Awasthi 1994: 180-181, pl. 1, figs 4-5,7 MIDDLE MIOCENE (Warkalli Formation), Padappakara Village near Ashtamudi Lake, Kollam District, Kerala; Sen & Bera 2005: 66, pl. 1, figs 5-9, UPPER MIOCENE (Upper Tipam Formation), Champanagar, Agartala District, Tripura.

EVODIA Lamarck, 1788 **RUTACEAE**

Evodia meliaefolia Benth. Bande & Srivastava 1990: 338, 340, pl. 4, figs 1-2, 4-5, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.

EXCOECARIA Linnaeus, 1759
EUPHORBIACEAE

Excoecaria preagallocha Agarwal 1990a: 35, pl. 2, figs 1, 3, MIOCENE, Neyveli Lignite Mine-I, South Arcot District, Tamil Nadu.

FAGAROXYLON J. van der Burgh, 1964
RUTACEAE

Fagaroxylon acronychioides Awasthi & Srivastava 1992a: 149, pl. 1, figs 1-5, MIOCENE (Warkalli Formation), Payangadi Super Clay Mine, Kannur District, Kerala.

FAGERLINDIA Tirvengadam, **RUBIACEAE**

Fagerlindia palaeofasciculata (Prasad & Awasthi). Agarwal 2002: 191, pl. 13, fig. 5, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.

FICOXYLON Kaiser, 1880 **MORACEAE**

Ficoxylon kalagarhensis Prasad 1993a: 77, pl. 12, figs 1-2, 4, 6, MIDDLE MIOCENE (Lower Siwalik), Kanandroo Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).

FICUS Linnaeus, 1753 **MORACEAE**

- ◆ *Ficus* (Leaf), Srivastava & Guleria 2001: 44, LOWER MIOCENE (Kasauli Formation), Solan District, Himachal Pradesh.
- ◆ *Ficus beryamina* Wall. (Leaf), Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Ranital and Bilaspur District, Himachal Pradesh.
- Ficus banogensis** Mathur, Mishra & Mehra 1996: 50, pl. 18, figs 1-2, LOWER MIOCENE (Kasauli Formation), on right bank of Koshaliya River, near village Banog, Solan District, Himachal Pradesh.
- Ficus cherrapunjiensis** Ambwani 1991: 145, figs 1 G, 2 B-C, PALAEOCENE, Cherrapunji, West Khasi Hills District, Meghalaya.
- Ficus eomysorensis** Tripathi, Pandey & Prasad 2002: 88, pl. 3, figs 9, 11, 12, MIDDLE MIOCENE (Lower Siwalik), Koilabas village near Jarwa, Balrampur District, Uttar Pradesh.
- Ficus foveolata** Wall. ex Miq. Bande & Srivastava 1990: 358, 360, pl. 11, figs 3-7, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Ficus glaberrima** Bl. (syn. *F. infectoria* Roxb.). Bande & Srivastava 1990: 360, pl. 12, figs 1, 3-4, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Ficus kasaulica** Mathur, Mishra & Mehra 1996: 50, pl. 17, figs 1-2, LOWER MIOCENE (Kasauli Formation), on right bank of Koshaliya River, near village Banog, Solan District, Himachal Pradesh.
- Ficus kumarhattiensis** Mathur, Mehra & Mishra. Mishra, Mathur & Mehra 1995: 99, pl. 1, fig. 1, OLIGOCENE (Dagshai Formation), Himachal Pradesh; Mathur, Mishra & Mehra 1996: 35-36, pl. 7, figs 1-2, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Ficus microcarpa** Linnaeus f. (= *F. retusa* Linn.). Srivastava 1998: 100, pl. 1, figs 5-6, LATE CENOZOIC, Mahuadanr Valley, Palamu District, Bihar.
- Ficus oodlabariensis** Antal & Awasthi 1994: 50, pl. 18, figs 1-2, 4, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal; Prasad, Ghosh & Tripathi 2004: 75-76, pl. 15, figs 1, 3, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- Ficus precuneata** Lakhanpal. Prasad, Ghosh & Tripathi 2004 ; 75, pl. 14, figs 1-2, pl 15, fig. 5, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- Ficus precurticeps** Agarwal 2002: 188, pl. 15, figs 4-5, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Ficus prereligiosa** Mathur & Mathur 1998: 135-136, pl. 5, fig. 3, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.
- ◆ *Ficus ramentacea* (Leaf), Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.
- Ficus retusoides** Prasad. Antal & Awasthi 1994: 48, pl. 17, figs 4, 6, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal; Agarwal 2002: 189, pl. 15, fig. 7, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Ficus sp.** Mathur & Mathur 1998: 136-137, pl. 5, fig. 1, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.

Ficus sp. A, Mathur, Mishra & Mehra 1996: 36, pl. 7, fig. 4, pl. 8, fig. 1, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

Ficus sp. B, Mathur, Mishra & Mehra 1996: 36, pl. 8, figs 2-4, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

Ficus sp. C, Mathur, Mishra & Mehra 1996: 37, pl. 8, fig. 7, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

Ficus sp. cf. F. tomentosa Roxb. ? (Leaf), Mishra & Mathur 1992: 198, fig. 111 b, LOWER MIOCENE (Dagshai Formation), Himachal Pradesh.

Ficus tomentosa Roxb. Bande & Srivastava 1990: 361, pl. 13, figs 1, 3-4, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.

FILICIUM Thwaites ex Hooker J. D. , 1862
SAPINDACEAE

Filicium koilabasensis Prasad. Agarwal 2002: 192, pl. 14, fig. 4, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.

FILICORACHONITES Mahajan & Sheikh, 1998
FILICALES

Filicorachonites mahabalei Mahajan & Sheikh, 1998: 76-77, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

FISSISTIGMA Griffith, 1854 **ANNONACEAE**

Fissistigma senii Lakhanpal. Prasad, Antal & Tiwari 1998: 18, pl. 3, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Seria Naka village, about 30 km northwest of Tulsipur, Gonda District, Uttar Pradesh.

Fissistigma shankerii Mathur, Mishra & Mehra 1996: 39-40, pl. 10, fig. 1, LOWER MIOCENE (Kasauli Formation), near Daghoti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

Fissistigma siwalika Lakhanpal & Awasthi 1992: 49, pl. 1, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Balugola near Jawalamukhi, Kangra District, Himachal Pradesh.

♦ *Fissistigma wallichii* Wight. (Leaf), Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Ranital and Bilaspur District, Himachal Pradesh.

FLACOURTIA Commerson ex ¼héirtier, 1786
FLACOURTIACEAE

♦ *Flacourtia* (Leaf), Tripathi & Pandey 2005: MIDDLE MIOCENE (Lower Siwalik), Kathgodam, Nainital District, Uttaranchal.

♦ *Flacourtia ramontchii* LHerit (Leaf), Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Ranital and Bilaspur Districts, Himachal Pradesh.

Flacourtia seriaensis Prasad, Antal & Tiwari 1998: 20, 22, pl. 2, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Seria Naka village, about 30 km northwest of Tulsipur, Gonda District, Uttar Pradesh.

Flacourtia tertiara Prasad & Awasthi. Antal & Prasad 1998: 96-98, pl. 1, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Sevok Road Section, about 2 km from Tista River bridge towards Oodlabari, Darjeeling District, West Bengal.

FLOSFEMINA Kar, Ambwani, Sahni & Sharma, 2003 **INCERTAE SEDIS**

Flospfemina intertrappea Kar, Ambwani, Sahni & Sharma 2003: 76, pl. 1, figs 1-2, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

- FLOSVIRULIS** Kar, Ambwani, Sahni & Sharma, 2003 **INCERTAE SEDIS** OLIGOCENE (Dagshai Formation), Kumarhatti, Himachal Pradesh.
- Flosvirulis deccanensis** Kar, Ambwani, Sahni & Sharma 2003: 77, pl. 1, fig. 3, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. **Fossils** (from Himachal Pradesh), Mehra, Mishra & Mathur 1991: 455, fig. 155 a-d, fig. 156 a-d, OLIGOCENE LOWER MIOCENE (Sukathe, Dagshai and Kasauli Formation), Himachal Pradesh.
- Flower Type I**, Mathur, Mishra & Mehra 1996: 51-52, pl. 19, fig. 1, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh. **Fossils** (from Kasauli Formation), Mehra, Mishra & Mathur 1990b: 260, fig. 142 a-g, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh.
- Flower Type II**, Mathur, Mishra & Mehra 1996: 52, pl. 19, fig. 2, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh. **Fossil fruit**, Mandaokar & Ambwani 2005: 261, fig. D, OLIGOCENE – MIOCENE, Namchick river section, Tirap District, Arunachal Pradesh.
- Flower Type III**, Mathur, Mishra & Mehra 1996: 52, pl. 19, fig. 4, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh. **Fruiting shoots**, Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: ?72, pl. 2, figs 9-10, OLIGOCENE (Lower Barail), Thongjaorok stream section, Imphal Valley, Imphal District, Manipur.
- Flower Type IV**, Mathur, Mishra & Mehra 1996: 53, pl. 19, fig. 3, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh. ♦ *Fungal remains*, Guleria, Srivastava & Misra 2005: 146, MAESTRICHTIAN-DANIAN (Deccan Traps), Khandwa District, Madhya Pradesh.
- Flower type-I**, Mehra, Mishra & Mathur 1990a: 48, fig. 2 a, LOWER MIOCENE (Kasauli Formation), Barog, Solan District, Himachal Pradesh. **GANOPHYLLUM** Blume, 1850-1851 **SAPINDACEAE**
- Flower type-II**, Mehra, Mishra & Mathur 1990a: 49, fig. 2 c, LOWER MIOCENE (Kasauli Formation), Barog, Solan District, Himachal Pradesh. **Ganophyllum indicum** Prakash, Du & Tripathi 1992: 4-5, pl. 1, fig. 9, pl. 2, figs 10, 12-13, 15, text-figs 4-5, MIDDLE MIOCENE (Tipam Sandstones), Naginimara, Mon District, Nagaland.
- Flower type-II**, Mishra & Mathur 1992: 198, fig. 112 d, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh. **GARCINIA** Linnaeus, 1753 **CLUSIACEAE (GUTTIFERAE)**
- Flower type-III**, Mishra & Mathur 1992: 198, fig. 112 e, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh. *Garcinia* (Leaf), Tripathi & Pandey 2005: MIDDLE MIOCENE (Lower Siwalik), Kathgodam, Nainital District, Uttaranchal.
- Fossils** (from Dagshai Formation), Mehra, Mishra & Mathur 1990b: 259, fig. 141 a-d, **Garcinia eocambogia** Prasad 1994a: 61, 63, pl. 3, fig. 7, MIDDLE MIOCENE (Siwalik Formation), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**); Agarwal 2002: 173, pl. 3, fig. 3,

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- MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Garcinia eumangostana** Agarwal 2002: 173, pl. 3, figs 5-6, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Garcinia kasaulica sp.** Arya & Awasthi 1995: 272, pl. 1, fig. 2, LOWER MIOCENE (Kasauli Formation), Shiv Shakti temple, Kasauli, Solan District, Himachal Pradesh.
- Garcinia neyveliensis** Agarwal, 1991a: 9, fig. 1A, C, E, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Garcinia palaeoluzoniensis** Awasthi & Mehrotra 1995: 162, pl. 3, fig. 2, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam.
- Garcinia palaeovalifolia** Agarwal 2002: 174, pl. 4, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Garcinia praediversifolia** Agarwal 2002: 172, pl. 3, fig. 1, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- ♦ *Garcinia travancorica* (Leaf), Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN-DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.
- GARDENIA** Ellis, 1761 **RUBIACEAE**
- Gardenia nainitalensis** Prasad 1994a: 80, pl. 9, fig. 5, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- GARUGA** Roxburgh, 1811 **BURSERACEAE**
- Garuga pinnata** Roxb. Bande & Srivastava 1990: 340, pl. 3, figs 5-7, pl. 4, fig. 6, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- GEIJERA** Schott, 1834 **RUTACEAE**
- Geijera siwalika** Prasad 1994b: 118, fig. 1 C-D, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**); Agarwal 2002: 191-192, pl. 13, fig. 7, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- GERANIOCARPON** Dahegaonkar & Sheikh, 2004 **GERANIACEAE** (*Nomen nudum*)
- Geraniocarpum intertrappea* Dahegaonkar & Sheikh 2004: 34-36, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- GIVOTIOXYLON** Awasthi & Mehrotra, 2005 **EUPHORBIACEAE**
- Givotioxylon ricinoidendroides** Awasthi & Mehrotra, 2005: 256, pl. 1, figs 1, 3-4, 6, 8-10, UPPER MIOCENE – PLIOCENE (Namsang Beds) and UPPER MIOCENE (Girujan Clay Formation), near Deomali, Tirap District, Arunachal Pradesh.
- GLOCHIDION** Forster J. R. & Forester J. G. A. , 1776 **EUPHORBIACEAE**
- Glochidion miocenica** Prasad 1994a: 82, 84, pl. 11, fig. 7, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- Glochidion palaeohirsutum** Antal & Prasad 1996b: 8, pl. 3, fig. 3, MIDDLE MIOCENE (Lower Siwalik), right bank of upstream (about 2 km) of Ramthi River near Oodlabari, Darjeeling District, West Bengal.
- GLUTA** Linnaeus, 1771 **ANACARDIACEAE**
- Gluta miocenica** Arya & Awasthi 1995: 272, pl. 1, fig. 3, MIOCENE (Kasauli Formation), Shiv Shakti temple, Kasauli, Solan District, Himachal Pradesh.
- Gluta papanasamica** Awasthi & Srivastava 1992b: 54, pl. 1, figs 1-2, MIOCENE (Warkalli

Formation), Papanasam beach in Varkala, Thiruvananthapuram District, Kerala.

GLUTOXYLON Chowdhury, 1952
ANACARDIACEAE

Glutoxylon burmense (Holden) Chowdhury. Awasthi & Mehrotra 1997: 114, pl. 2, figs 15-18, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh; Dutta Choudhury, Mehrotra & Mazumder 1997: 401, 403, fig. 1 A-E, MIDDLE MIOCENE (Tipam Sandstones), 5-5.5 km southwest of Karimganj District, Assam; Mehrotra, Awasthi & Dutta 1999: 230, 232, pl. 2, fig. 6, pl. 3, figs 1-3, LATE MIOCENE - PLIOCENE (Siwalik Group), Ghogra River Section, Siang District, Arunachal Pradesh.

Glutoxylon cuddaloreense Awasthi. Prakash, Vaidyanathan & Tripathi 1994: 122-123, pl. 2, fig. 17, pl. 3, fig. 18, text-fig. 4, MIOCENE (Tipam Sandstones), Sultanicherra, a stream cutting about 55 km south of Hailakandi, Cachar District and Nailalung Railway line cutting near Lumding, Diphu District, Assam; Tiwari & Mehrotra 2000: 86, 88, pl. 1, fig. 6, pl. 2, figs 2-4, LATE MIOCENE - EARLY PLIOCENE (Tipam Group), near Zawlnuam along Zawlnuam-Zawlpui road, Mamit District, Mizoram.

GOMPHANDRA Wallich ex J. Lindley, 1836
ICACINACEAE

♦ *Gomphandra* (Wood), Guleria 1991c: 41, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh (Kutch*) District, Madhya Pradesh.

GOMPHANDROXYLON Bande & Khatri, 1980
ICACINACEAE

Gomphandroxydon samnapurensis Bande & Khatri. Guleria & Srivastava, 2001: 22, pl. 2, figs 13-20, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat.

GONIOPTERIS Persl, 1836
T H E L Y P T E R I D A C E A E
(PTERIDOPHYTA)

Goniopteris prolifera Presl. Prasad 1991a=
Ampelopteris prolifera (Prasad) Guleria & Srivastava 2000

GONIOTHALAMUS (Blume) Hooker f. & Thomson, 1855 **ANNONACEAE**

Goniothalamus siwalicus Prasad, Antal & Tiwari 1998: 20, pl. 1, fig. 5, MIDDLE MIOCENE (Lower Siwalik), Seria Naka village, about 30 km northwest of Tulsipur, Gonda District, Uttar Pradesh.

GRAMINOCARPON Chitale & Patil, 1973
POACEAE (GRAMINAE)

Graminocarpum stellatus Dutta & Ambwani 2005a: 30, 32, fig. 1 A-H, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

GREWIA Linnaeus, 1753 **TILIACEAE**

Grewia garoensis (Lakhanpal) Mehrotra 2000a: 227-228, pl. 1, fig. 2, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya.

Trema garoensis Lakhanpal 1954: 27-28, pl. 1, figs 1-2, EOCENE (Kopili Stage), Damalgiri, Garo Hills, Meghalaya.

Grewia ghishia Antal & Awasthi 1994: 26-27, pl. 5, figs 5, 7, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

Grewia kathgodamensis Prasad, Ghosh & Tripathi 2004: 58, 60, pl. 7, fig. 5, pl. 8, figs 1-3, MIDDLE MIOCENE (Lower Siwalik), Gola

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- River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- Grewia sahnii** (Lakhanpal) Mehrotra 2000a: 226-227, pl. 1, fig. 1, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya.
- Neolitsea sahnii* Lakhanpal 1954: 28, pl. 1, figs 3-4, EOCENE (Kopili Stage), Damalgiri, 17 km. West of Tura, West Garo Hills District, Meghalaya.
- Grewia sp.** Mathur & Mathur 1998: 133, pl. 3, fig. 5, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.
- Grewia tiliaefolia** Vahl. Srivastava, Mishra & Bande 1992: 229, pl. 1, fig. 1, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Grewia tistaensis** Antal & Prasad 1999: 93 pl. 3, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Sevoke road section after crossing Tista River bridge about 2.5 km towards Washbari, Darjeeling District, West Bengal.
- ♦ *Grewia* (Wood), Srivastava 2003: 137, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Ghansor, Seoni District, Madhya Pradesh.
- GREWINIUM** Srivastava & Guleria, 2001 **TILIACEAE** (Nom. nov.)
- Grewinium canalisum** (Bande & Srivastava) Srivastava & Guleria, 2001: 532
- Grewioxylon canalisum* Bande & Srivastava 1995: 131-132, pl. 1, figs 1-7, MAESTRICHTIAN - DANIAN, (EARLY TERTIARY*) (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra and Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Grewinium indicum** (Prakash & Dayal) Srivastava & Guleria, 2001: 531
- Grewioxylon indicum* Prakash & Dayal 1965: 21, pl. 1, figs 5-7, pl. 2, figs 8-13, text-fig. 2, EARLY TERTIARY (Deccan Intertrappean beds), Mahurzari, Nagpur District, Maharashtra; Khare, Prasad & Awasthi 2000: 447-449, pl. 1, figs 5-7, pl. 2, figs 5-6, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.
- Grewinium intertrappeum** (Shallom) Srivastava & Guleria, 2001: 531
- Grewioxylon intertrappea* Shallom 1963: 171, pl. 1, figs 1-5, text-figs A-F, EARLY TERTIARY (Deccan Intertrappean beds), Mahurzari, Nagpur District, Maharashtra.
- Grewinium mahurzariense** (Prakash & Dayal) Srivastava & Guleria, 2001: 531
- Grewioxylon mahurzariense* Prakash & Dayal 1963: 315, figs 1-4, EARLY TERTIARY (Deccan Intertrappean beds), Mahurzari, Nagpur District, Maharashtra; Prakash & Dayal 1965: 17, pl. 1, figs 1-5, text-fig. 1, EARLY TERTIARY (Deccan Intertrappean beds), Mahurzari, Nagpur District, Maharashtra.
- GREWIOXYLON** (Shallom) Prakash & Dayal, 1965 = **GREWINIUM** Srivastava & Guleria, 2001 **TILIACEAE**
- ♦ *Grewioxylon*, Udhoji & Verma 1990: 99-100, MAESTRICHTIAN DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Brangda, Madhya Pradesh. (*Nomen nudum*).
- Grewioxylon canalisum* Bande & Srivastava = **Grewinium canalisum** (Bande & Srivastava) Srivastava & Guleria 2001: 532
- Grewioxylon indicum* Prakash & Dayal = **Grewinium indicum** (Prakash & Dayal) Srivastava & Guleria 2001: 531
- Grewioxylon intertrappea* Shallom = **Grewinium intertrappeum** (Shallom) Srivastava & Guleria 2001: 531

- Grewioxylon mahurzariense* Shallom = **Grewinium mahurzariense** Srivastava & Guleria 2001: 531
- Grewioxylon microcoides** Agarwal 1991c: 5-6, pl. 1, figs 1-3, MIOCENE, Neyveli Lignite Deposit, South Arcot District, Tamil Nadu.
- ♦ *Gymnospermous cone*, Sheikh, Juneja & Gupta 1991: 117, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Singpur, Chhindwara District, Madhya Pradesh.
- GYNOBASIOCARPON** Saxena, Sheikh & Kapgate 2002 INCERTAE SEDIS (*Nomen nudum*)
- Gynobasiocarpon sheikhii* Saxena, Sheikh & Kapgate 2002: 58, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- GYNOCARDIA** R. Brown, 1820
FLACOURTIACEAE
- Gynocardia miodorata** Prasad, Antal, Tripathi & Pande. Prasad, Ghosh & Tripathi 2004: 50, 52, pl. 5, figs 3, 5, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- GYROCARPUSOCARPON** Mistri & Kapgate, 1990 **COMBRETACEAE**
- Gyrocarpusocarpon intertrappea** Mistri & Kapgate 1990: 93, pl. 1, figs 1-8, text-figs 1-13, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS - LOWER EOCENE*), (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- HARPULLIA** Roxburgh, 1824 **SAPINDACEAE**
- Harpullia siwalika** Prasad & Awasthi. Agarwal 2002: 192-193, pl. 14, figs 6-9, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- HAVETIOPSIOXYLON** Mistri, Kapgate & Sheikh, 1996 **CLUSIACEAE (GUTTIFERAE)**
- Havetiopsioxylon nagpurensis** Mistri, Kapgate & Sheikh 1996: 44-45, pl. 1, figs 1-10, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*), (Deccan Intertrappean beds), Phutala tank near Telankhedi garden, Nagpur District, Maharashtra.
- HELICONITES** Trivedi & Verma, 1972
HELICONIACEAE
- Heliconites mohganesis** Trivedi & Verma. Biradar & Bonde 1990: 52-53, pl. 3, figs 9-12, MAESTRICHTIAN-DANIAN (EARLY EOCENE*), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- HEPATICITES** Yawale & Sakunderwar, 1991b
BRYOPHYTA (*Nomen nudum*)
- Hepaticites kashyapai* Yawale & Sakunderwar 1991c: 161, 1990: 52-53, pl. 3, figs 9-12, MAESTRICHTIAN-DANIAN (EARLY EOCENE*), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- HERITIEROXYLON** Lakhanpal, Prakash & Awasthi, 1981 **STERCULIACEAE**
- Heritieroxylon keralaensis** Srivastava & Awasthi 1994: 178, 180, pl. 1, figs 1-3, 6, 8, MIDDLE MIOCENE (Warkalli Formation), Meenkunnu Cliff Section, Kannur District, Kerala.
- HEVEA** Aublet, 1775 **EUPHORBIACEAE**
- Hevea rajagopalanii** Agarwal 2002: 181-182, pl. 9, fig. 1, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- HEYNEA** Roxburgh ex Sims, 1815 **MELIACEAE**
- Heynea kasauliensis** Srivastava & Guleria 2004b: 100, pl. 1, figs 3, LOWER MIOCENE (Kasauli Formation), Behind Kasauli Bus Stand, Solan District, Himachal Pradesh.

Heynea trijugoides Awasthi & Mehrotra 1995: 166, pl. 5, figs 2, 4, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam.

HIPTAGE Gaertner, 1790 **MALPIGHIACEAE**

Hiptage bengalensis (L.) Kurz. (= *Hiptage madabelota* Gaertn.). Srivastava 1998: 98, pl. 1, fig. 3, LATE CENOZOIC, Mahuadanr Valley, Palamu District, Bihar.

HOLARRHENA R. Brown, 1810-1811 **APOCYNACEAE**

Holarrhena nainitalensis Prasad, Ghosh & Tripathi 2004: 64, pl. 9, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

HOLIGARNOXYLON Prakash & Awasthi, 1970 **ANACARDIACEAE**

Holigarnoxylon assamicum Prakash & Awasthi. Jeyasingh & Devadass 1996: 103-104, fig. 1 A-C, MIOCENE - PLIOCENE (Cuddalore Sandstones), Tiruchitrambalam near Pondicherry.

HOMALIOXYLON Prakash & Tripathi, 1974 **FLACOURTIACEAE**

Homalioxylon assamicum Prakash & Tripathi. Guleria & Srivastava, 2001: 20-21, pl. 1, figs 9-12, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat.

Homalioxylon mandlaensis Bande 1974: 189, pl. 1, figs 1, 3, 5-6, text-figs 1-2, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Parapani, Dindori (Mandla**) District, Madhya Pradesh; Khare, Prasad & Awasthi 2000: 447, pl. 1, figs 1-4, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

Homalioxylon mandlaense Bande. = **Homalioxylon assamicum** Prakash & Tripathi

HOMALIUM Jacquin, 1760 **FLACOURTIACEAE**

♦ *Homalium* (Wood), Guleria 1991c: 41, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh (Kutch*) District, Gujarat; Srivastava 2003: 137, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Ghansor, Seoni District, Madhya Pradesh.

HOMONIA Loureiro, 1790 **EUPHORBIACEAE**

Homonia mioriparia Antal & Prasad 1998: 103, pl. 2, figs 5-6, MIDDLE MIOCENE (Lower Siwalik), Sevok Road Section, about 2 km from Tista River bridge towards Oodlabari, Darjeeling District, West Bengal; Prasad, Ghosh & Tripathi 2004: 74, pl. 14, figs 4-5, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

Homonia cf. H. riparia Lour. Prasad 1994c: 90-91, pl. 2, fig. 9, MIOCENE - PLIOCENE (Middle Siwalik), Harwar District, Uttaranchal (Uttar Pradesh**).

HOPEA Roxburgh, 1811 **DIPTEROCARPACEAE**

Hopea kathgodamensis Prasad 1994b: 116, fig. 1 A, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**); Antal & Prasad 1999: 91, pl. 1, fig. 3, MIDDLE MIOCENE (Lower Siwalik), Ghish River about one km upstream on right side from its mouth near Oodlabari, Darjeeling District, West Bengal.

Hopea praedryobalanoides Agarwal 2002: 179, pl. 7, fig. 7, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.

Hopea mioglabra Prasad. Agarwal 2002: 180, pl. 7, fig. 5, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.

- Hopea siwalika** Antal & Awasthi 1994: 24, pl. 5, fig. 1, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.
- HOPENIUM** Awasthi, 1980
DIPTEROCARPACEAE
- Hopenium payangadiensis** Awasthi & Srivastava 1990: 288-289, pl. 2, figs 1-4, 9, MIOCENE (Warkalli Formation), Payangadi Super Clay Mine, Kannur (Cannanore**) District, Kerala.
- Hopenium pondicherriense** Awasthi. Prasad 1993a: 55, 57, pl. 1, fig. 5, pl. 2, figs 7, 9-11, MIDDLE MIOCENE (Lower Siwalik), Kanandoo Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).
- Hopenium sp. cf. Hopea odovatia** Prakash, Vaidyanathan & Tripathi 1994: 119-120, pl. 2, figs 10-11, text-fig. 2, MIOCENE (Tipam Sandstones), Bimlapur near Dilighat Colliery, Dibrugarh District, Assam.
- HOPEOXYLON** Navale emend Awasthi, 1977
FABACEAE (LEGUMINOSAE)
- Hopeoxylon indicum** Navale emend Awasthi. Mandaokar, Mehrotra & Mazumder 2004: 119-120, pl. 1, figs 4-6, MIDDLE MIOCENE (Tipam Sandstones), Maishassar, Karimganj District, Assam.
- Hopeoxylon speciosum** Navale emend Awasthi. Awasthi & Mehrotra 1997: 114-115, pl. 3, figs 27-28, pl. 4, figs 29-30, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh; Mehrotra, Awasthi & Dutta 1999: 237-240, pl. 6, fig. 6, pl. 7, figs 1-4, LATE MIOCENE - PLIOCENE (Siwalik Group), Ghogra River Section, Siang District, Arunachal Pradesh.
- HYDNOANTHUS** Kapgate, 2002
FLACOURTIACEAE (Nomen nudum)
- Hydnoanthus rodei* Kapgate 2002: 26, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- HYDNOCARPON** Kapgate, 2002
FLACOURTIACEAE (Nomen nudum)
- Hydnocarpum rodei* Kapgate 2002: 26, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- HYDNOCARPOXYLON** Bande & Khatri, 1980
FLACOURTIACEAE
- Hydnocarpoxyylon indicum** Bande & Khatri. Guleria & Mehrotra 1999: 73, pl. 1, figs 8-10, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Dewargarh near Mehdwani, Dindori (Mandla**) District, Madhya Pradesh; Guleria & Srivastava, 2001: 21-22, pl. 1, figs 1-8, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat.
- Hydnocarpoxyylon keralaensis* Awasthi & Srivastava 1990: 285-286, pl. 1, figs 1-5, text-figs A-B, MIOCENE (Warkalli Formation), Varkala Cliff Section, Varkala, Thiruvananthapuram District, Kerala.
- Hydnocarpoxyylon keralaensis* Awasthi & Srivastava = **Hydnocarpoxyylon indicum** Bande & Khatri
- HYDNOCARPUS** Gaertner, 1788
FLACOURTIACEAE
- ♦*Hydnocarpus* (Leaf), Guleria 2002: 90, PALAEOCENE - EARLY EOCENE, Giral Lignite Mine, Barmer District, Rajasthan; Tripathi & Pandey 2005: MIDDLE MIOCENE (Lower Siwalik), Kathgodam, Nainital District, Himachal Pradesh; (Wood), Guleria 1991c: 41, MAESTRICHTIAN - DANIAN (Deccan

- Intertrappean beds), Anjar, Kachchh (Kutch*) District, Madhya Pradesh; (Wood), Srivastava 2003: 137, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Ghansor, Seoni District, Madhya Pradesh.
- ◆ *Hydnocarpus alpinus* Whight (Leaf), Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Ranital and Bilaspur and Kangra Districts, Himachal Pradesh.
- Hydnocarpus palaeokurzii** Antal & Awasthi 1994: 20, pl. 3, fig. 3, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal; Prasad 1994a: 59, pl. 3, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Balia River beds, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- HYDROCARPON* Qurashi & Narkhede, 2005 INCERTAE SEDIS (*Nomen nudum*)
- Hydrocarpon mohgaonkalaense* Qurashi & Narkhede 2005: 132, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), (Singhpur**) Mohgaon Kalan (Singhpur**), Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- Infected wood fragmnt showing net like structure of hyphae and fruiting bodies** Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 374, pl. 3, figs 8-9, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.
- Inflorescence**, Mehra, Mishra & Mathur 1990a: 48, fig. 2b, LOWER MIOCENE (Kasauli Formation), Barog, Solan District, Himachal Pradesh.
- Inflorescence Type I**, Mathur, Mishra & Mehra 1996: 53, pl. 20, figs 1-2, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Inflorescence Type II**, Mathur, Mishra & Mehra 1996: 53-54, pl. 20, fig. 3, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Inflorescence** Type I, Mishra, Mathur & Mehra 1995: 99, pl. 1, fig. 5, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh.
- IPOMEA** Linnaeus, 1753 **CONVOLVULACEAE**
- Ipomea erocarpoides** Awasthi & Lakhanpal 1990: 283, pl. 1, fig. 13, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.
- ISOETITES** Münster, 1842 **ISOETACEAE**
- Isoetites serratifolius** Jana, Banerji & Kar 1997: 404, figs 3 a-c, text-fig. d-e, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), between Dayapar and Kora Village, Kachchh (Kutch**) District, Gujarat.
- JULBERNARDIA** Pellegrin, 1943 **FABACEAE (LEGUMINOSAE)**
- Julbernardia palaeoglobiflora** Awasthi & Mehrotra 1993: 85, pl. 1, figs 8-9, pl. 2, fig. 1, UPPER MIOENE - PLIOCENE, (Namsang Beds), Namsang River bed, Deomali, Deomali District, Arunachal Pradesh.
- JULIANIOPHYLLUM** Kapgate, 1999b **JULIANIACEAE**
- Julianiophyllum sahnii** Kapgate, 1999b: 7, pl. 1, figs 1-5, text-figs 1-7, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- KASAULIPUSHPAM** Arya, Ambwani, Sahni & Sahni, 2004 **INCERTAE SEDIS**
- Kasaulipushpam radiatus** Arya, Ambwani, Sahni & Sahni 2004: 319, pl. 1, figs a-i, LOWER MIOCENE (Kasauli Formation), Shiv Mandir

and Water Tank, Kasauli, Solan District, Himachal Pradesh.

Kasaulipushpam sahnii Arya, Ambwani, Sahni & Sahni 2004: 319, pl. 2, figs a-f, LOWER MIOCENE (Kasauli Formation), Shiv Mandir and Water Tank, Kasauli, Solan District, Himachal Pradesh.

KAYEA Wallich, 1831-32 **CLUSIACEAE (GUTTIFERAE)**

Kayea assamica Bande & Srivastava 1989: 217, pl. 1, figs 1-2, MIOCENE, Muhammad Bazar, Birbhum District, West Bengal.

Kayea baragolaensis Awasthi & Mehrotra 1995: 162, pl. 4, fig. 1, OLIGOCENE, Baragolai Colliery, near Margherita, Makum Coalfield, Tinsukia District, Assam.

♦ *Kayea floribunda* (Leaf), Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.

Kayea kalagarhensis Prasad 1993b: 109, pl. 1, figs 1-4, text-fig. 2 a-c, MIDDLE MIOCENE (Lower Siwalik), Kuwan sot / nala near Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**); Agarwal 2002: 175, pl. 4, figs 4-5, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.

Kayea sp. Mathur & Mathur 1998: 131, pl. 1, fig. 1, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.

Kayea sp. Mathur, Mishra & Mehra 1996: 40-41, pl. 11, fig. 1, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka Shimla Highway, Solan District, Himachal Pradesh.

KINGIODENDRON Harms, 1897 **FABACEAE (LEGUMINOSAE)**

Kingiodendron prepinnatum Awasthi & Prakash. Guleria, Gupta & Srivastava 2002: 240, pl. 4, figs 1-5, MIDDLE MIOCENE (Mohargarh

Formation; Middle Siwalik), Gandla near Ramnagar, Udhampur District, Jammu & Kashmir.

KOOMPASSIOXYLON Kramer, 1974 **FABACEAE (LEGUMINOSAE)**

Koompassioxylon elegans Kramer. Yadav 1989: 60, pl. 3, figs 5, 7, MIDDLE MIOCENE (Lower Siwalik), Nalagarh, Solan District, Himachal Pradesh; Awasthi & Mehrotra 1990: 277-278, pl. 1, figs 1, 4, 6, UPPER MIOCENE (Tipam Sandstones), Bimlapur, Dibrugarh District, Assam.

Koompassioxylon keralaensis Srivastava & Awasthi 1996: 92, pl. 2, figs 1-3, 6, MIDDLE MIOCENE (Warkalli Formation), Kundara Clay Mine, Kollam District, Kerala.

KREMPOGONIUM Nambudiri, Chitaley & Yawale, 2004 **BRYOPHYTA**

Krempongonium mohgaensis Nambudiri, Chitaley & Yawale, 2004: 172-173, pl. 1, figs 1-5, pl. 2, figs 1-5, text-fig. 2, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS-LATE MAESTRICHTIAN) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

LAGERSTROEMIA Linnaeus, 1759 **LYTHRACEAE**

Lagerstroemia jamraniensis Prasad, Ghosh & Tripathi 2004: 70, pl. 11, fig. 8, pl. 12, figs 1, 3, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

Lagerstroemia neyveliensis Agarwal 2002: 187, pl. 12, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.

Lagerstroemia patelii Lakhnupal & Guleria. Antal & Awasthi 1994: 36, 38, pl. 11, figs 1, 3, pl. 12, figs 1-2, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik),

- (Lower-Middle Siwalik*), left bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal; Prasad 1994a: 77, 79, pl. 9, figs 1-2, pl. 11, fig. 9, MIDDLE MIOCENE (Lower Siwalik), Road cutting section, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- Lagerstroemia siwalika** Prasad. Agarwal 2002: 186, pl. 11, figs 4-5, MIOCENE, Neyveli Lignite Deposit Mine I and II, South Arcot District, Tamil Nadu.
- Lagerstroemia sp. (cf. Lagerstroemia Linn.)** Mandaokar & Ambwani 2005: 261, fig. C, OLIGOCENE – MIOCENE, Namchick river section, Tirap District, Arunachal Pradesh.
- Lagerstroemia sp. cf. L. parviflora** Roxb. Srivastava & Bande 1992: 336, pl. 1, figs 5-8, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Lagerstroemia type-Fossil cuticle type-3**, Verma, Upadhyay & Srivastava 1989: 196, pl. 1, figs 9-11, text-fig. 2 I-M, LOWER MIOCENE, Neyveli Lignite Deposits, South Arcot District, Tamil Nadu.
- LAGERSTROEMIOXYLON** Mädlar, 1939
LYTHRACEAE
- Lagerstroemioxylon cf. eoflosreginum** Harsh & Sharma 1995: 105-106, text-figs 5-6, TERTIARY, Bikaner District, Rajasthan.
- Lagerstroemioxylon eoflosreginum** Prakash & Tripathi. Guleria 1990a: 182-183, pl. 1, figs 1-3, PLIOCENE - PLEISTOCENE (Mar Formation), Bikaner District, Rajasthan; Harsh & Sharma 1995: 104-105, text-figs 1-4, TERTIARY, Bikaner District, Rajasthan; Tiwari & Mehrotra 2000: 88, 90, pl. 3, figs 4-6, pl. 4, fig. 1, LATE MIOCENE - EARLY PLIOCENE (Tipam Group), near Kanhmum along the Luite stream, Mamit District, Mizoram; Mehrotra, Pande & Ralimongla 2004: 80, pl. 1, figs 1-4, EARLY MIDDLE MIOCENE (Changki Formation), Changki, Mokokchung District, Nagaland.
- Lagerstroemioxylon eohypolucum** Harsh & Sharma 1995: 107, text-figs 13-14, TERTIARY, Bikaner District, Rajasthan.
- Lagerstroemioxylon floribunda** Harsh & Sharma 1995: 108-109, text-figs 25-27, TERTIARY, Bikaner District, Rajasthan.
- Lagerstroemioxylon harsolavense** Harsh & Sharma 1995: 108, text-figs 15-17, TERTIARY, Bikaner District, Rajasthan.
- Lagerstroemioxylon irrawadiensis** Prakash & Bande. Prakash, Vaidyanathan & Tripathi 1994: 134, pl. 5, figs 39-40, MIOCENE (Tipam Sandstones), Sultanicherra, about 55 km south of Hailakandi, Cachar District, Assam.
- Lagerstroemioxylon obliqueporatum** Harsh & Sharma 1995: 107, text-figs 10-12, TERTIARY, Bikaner District, Rajasthan.
- Lagerstroemioxylon parenchymatosum** Prakash & Tripathi. Guleria 1990a: 184-185, pl. 1, figs 4-5, PLIOCENE - PLEISTOCENE (Mar Formation), Bikaner District, Rajasthan; Prakash, Vaidyanathan & Tripathi 1994: 133-134, pl. 5, figs 36-38, MIOCENE (Tipam Sandstones), Gogalacherra near Hailakandi, Cachar District, Assam; Harsh & Sharma 1995: 108, text-figs 21-24, TERTIARY, Bikaner District, Rajasthan.
- Lagerstroemioxylon royi** Harsh & Sharma 1995: 108, text-figs 18-20, TERTIARY, Bikaner District, Rajasthan.
- Lagerstroemioxylon tomentosum** Prakash, Du & Tripathi 1992: 7-8, pl. 3, figs 23-26, pl. 4, figs 27, 29, text-figs 9-11, MIDDLE MIOCENE (Tipam Sandstones), Naginimara, Mon District, Nagaland.
- Lagerstroemioxylon vasicentricum** Harsh & Sharma 1995: 106-107, text-figs 7-8, TERTIARY, Bikaner District, Rajasthan.

LANNEA Richard, A. 1831 **ANACARDIACEAE**

Muhammad Bazar, Birbhum District, West Bengal.

Lannea oligocenica Awasthi & Mehrotra 1995: 168, pl. 6, fig. 1, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam.

Leaf surface showing hyphae net, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 374, pl. 3, fig. 5, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

LANNEOXYLON Prakash & Tripathi, 1967 **ANACARDIACEAE**

Lanneoxylon grandiporosum Prakash & Tripathi. Srivastava & Guleria 2004b: 53-54, pl. 1, figs 1-7, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Betul - Multai Road, Betul District, Madhya Pradesh.

Leaf tissue showing Meliolinites sp. with fruiting bodies, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 374, pl. 3, fig. 7, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

LASIANTHUS Jack, 1823 **RUBIACEAE**

♦*Lasianthus* (Leaf), Srivastava & Guleria 2001: 44, LOWER MIOCENE (Kasauli Formation), Solan District, Himachal Pradesh.

Leaf showing biodegraded stomata and accessory cells, Tewari, Kumar, Anand Prakash, Shukla & Srivastava 2001: 374, pl. 3, fig. 10, MIOCENE (Sindhudurg Formation), Amberiwadi, Sindhudurg District, Maharashtra.

LAURINOXYLON Felix, 1883 **LAURACEAE**

Laurinoxylon Felix. Awasthi & Jafar 1990: 1243, fig. 2, a-c, PALAEOCENE - EOCENE, Lurujig nala, Baratang Island, Andaman-Nicobar Islands.

LEGUMINOCARPON Göppert, 1855 **FABACEAE (LEGUMINOSAE)**

Laurinoxylon dilcheri Tiwari & Mehrotra 2000: 90, pl. 4, figs 2-6, LATE MIOCENE - EARLY PLIOCENE (Tipam Group), near Zawlnuam along Zawlnuam-Zawlpu road, Mamit District, Mizoram.

Leguminocarpon cassioides Mehrotra & Mandaokar 2002: 465, fig. 2, LOWER MIOCENE (Bhuban Formation), Edinhtar, Aizwal District, Mizoram.

Laurinoxylon naginimariense Awasthi & Mehrotra 1990: 280, pl. 1, figs 7, 9, pl. 2, figs 4-6, UPPER MIOCENE (Tipam Sandstone), Naginimara Village, Kongan Coalfield, Mon District, Nagaland.

Leguminocarpon dalbergioides Awasthi & Mehrotra 1995: 172, pl. 6, fig. 7, OLIGOCENE, Baragolai Colliery near Margherita, Makum Coalfield, Tinsukia District, Assam.

Laurinoxylon siwalicus Prasad 1990: 191, pl. 1, figs 1-5, MIDDLE MIOCENE (Lower Siwalik), Sukha Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).

Leguminocarpon kaini Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 75, pl. 2, fig. 11, LATE EOCENE, Upper Disang; Kaina, Imphal Valley, Imphal District, Manipur.

Laurinoxylon sp. cf. L. namsangensis Lakhanpal, Prakash & Awasthi. Bande & Srivastava 1989: 217-218, pl. 1, figs 3-4, MIOCENE,

Leguminocarpon mizoramensis Tiwari & Mehrotra 2002: 72, fig. 2 D, OLIGOCENE (Barail Group), sandy shale horizon, locality no. 3, Champhai-Aizwal Road, Champhai District, Mizoram.

LEGUMINOPHYLLUM Lemoigne, Beauchamp & Samuel, 1974 **FABACEAE (LEGUMINOSAE)**

Leguminophyllum kasauliensis Guleria, Srivastava & Prasad 2000: 46, pl. 1, figs 8-10, LOWER MIOCENE (Kasauli Formation), near Daghota on Kalka-Shimla Road, Solan District, Himachal Pradesh.

LILIACEOPUSHPUM Narkhede & Patil, 2002 LILIACEAE (*Nomen nudum*)

Liliaceopushpum deccanii Narkhede & Patil 2002: 48, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).

♦ *Liliaceous flower*, Narkhede & Patil 1991: 88, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

Liliaceous inflorescence with pollen grain, Bonde & Kumaran 1993: 776-777, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Umaria, about 3.5 km SE of Ghughua, Dindori (Mandla*) District, Madhya Pradesh.

LITHOPARAPHYSIS Kar & Singh 2003 **PTERIDACEAE (PTERIDOPHYTA)**

Lithoparaphysis paproensis Kar & Singh 2003: 84, pl. 1, figs 1-8, PALAEOCENE (Deccan Intertrappean beds), Papro Village, Lalitpur District, Uttar Pradesh.

LITSEA Lamarck, 1792 **LAURACEAE**

Litsea sastryi Mathur, Mishra & Mehra 1996: 49, pl. 16, figs 3-4, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

Litsea sp. Mathur & Mathur 1998: 135, pl. 4, fig. 3, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.

LUSATICUTIS Roselt & Schneider, 1969 **INCERTAE SEDIS (Dispersed Cuticle)**

Lusaticutis assamensis Tewari & Mehrotra 2003: 278, fig. 3 F, fig. 4, fig. 4 A-C, OLIGOCENE (Tikak Parbat Formation), Makum Coalfield, Tinsukia District, Assam.

Lusaticutis barailensis Tewari & Mehrotra 2003: 278, fig. 5 C-G, OLIGOCENE (Tikak Parbat Formation), Makum coalfield, Tinsukia District, Assam.

Lusaticutis lakhanpalii Tewari & Mehrotra 2003: 280, 282, fig. 6 A-F, OLIGOCENE (Tikak Parbat Formation), Makum Coalfield, Tinsukia District, Assam.

Lusaticutis makumensis Tewari & Mehrotra 2003: 275, fig. 3 A-E, OLIGOCENE (Tikak Parbat Formation), Makum Coalfield, Tinsukia District, Assam.

Lusaticutis miocenica Tewari & Agarwal 2001: 1638, fig. 2 a-b, MIOCENE (Sindhudurg Formation), Vidya Mandir School well section, Ratnagiri District, Maharashtra.

Lusaticutis ratngiriensis Agarwal, Tewari & Ambwani 2002: 35, fig. 3 A-F, fig. 4 A-F, MIOCENE (Sindhudurg Formation), Ratnagiri-Pawas Road, Ratnagiri District, Maharashtra.

Lusaticutis sindhudurgensis Agarwal, Tewari & Ambwani 2002: 31-32, fig. 2 A-J, MIOCENE (Sindhudurg Formation), Ratnagiri-Pawas Road, Ratnagiri District, Maharashtra.

LYCOPODIOPHYTOSTROBUS Mistri, Sheikh & Kapgata 1999a LYCOPODIOPHYTA (PHERIDOPHYTA) (*Nomen nudum*)

Lycopodiophytostrobis intertrappea Mistri, Sheikh & Kapgata 1991: 16, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Singhpur, Chhindwara District, Madhya Pradesh. (*Nomen nudum*); Kapgata 1999a: 338, MAESTRICHTIAN - DANIAN (Deccan

- Intertrappean beds), Singhpur, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- LYTHROCARPON** Kapgate, Saxena & Sheikh 2003 **LYTHRACEAE**
- Lythrocarpon mohgaonse** Kapgate, Saxena & Sheikh 2003: 108-109, pl. 1, figs 1-4, text-figs 1-5, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- MACARANGA** Thouars, 1806 **EUPHORBIACEAE**
- Macaranga siwalika** Antal & Awasthi 1994: 48, pl. 17, figs 1-2, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.
- MACHILUS** Nees, 1831 **LAURACEAE**
- Machilus miocenica** Prasad 1994b: 124, fig. 2H, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- Machilus neyveliensis** Agarwal 2002: 185-186, pl. 10, figs 7-8, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- MADHUCA** Buch. -Hamilton ex J. F. Gmelin, 1791 **SAPOTACEAE**
- Madhuca indica** J. F. Gmel. Bande & Srivastava 1990: 354, pl. 8, figs 1-4, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Madhuca palaeolongifolia** Awasthi & Mehrotra 1993: 88, pl. 2, figs 5-7, UPPER MIOCENE - PLIOCENE (Namsang Beds), Namsang River bed, Deomali, Deomali District, Arunachal Pradesh.
- MALLOTOXYLON** Lakhanpal & Dayal, 1964 **EUPHORBIACEAE**
- Mallotoxylon kerienne** Lakhanpal & Dayal. Guleria & Srivastava, 2001: 24, pl. 3, figs 24-29, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat.
- Mallotoxylon assamicum* Prakash & Tripathi 1975: 56, pl. 3, figs 13,15,17-18, text-fig. 3, UPPER MIOCENE (Tipam Sandstones), Hailakandi, Cachar District, Assam.
- MALLOTUS** Loureiro, 1790 **EUPHORBIACEAE**
- ♦ *Mallotus* (Wood), Guleria 1991c: 41, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh (Kutch*) District, Madhya Pradesh.
- Mallotus kalimpongensis** Antal & Awasthi 1994: 46, pl. 16, fig. 7, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.
- Mallotus philippensis** Muell. Arg. Bande & Srivastava 1990: 357-358, pl. 10, figs 7-8, pl. 11, figs 1-2, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar; Srivastava & Guleria 2004b: 101, pl. 2, figs 3-4, LOWER MIOCENE (Kasauli Formation), Adjoining MES Inspection Bungalow, Solan District, Himachal Pradesh.
- ? **Mallotus sp.** Mathur, Mishra & Mehra 1996: 35, pl. 6, fig. 5, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Mallotus venkatachalai** Prasad 1994a: 82, pl. 11, figs 4-5, MIDDLE MIOCENE (Lower Siwalik), Gola River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- MALPOPHYLLUM** Kumaran, 1994 **ARECACEAE** (**PALMAE**)

Malpophyllum dakshinense (Achuthan) Kumaran
nom. nov. 1994: 337

Palmophyllum dakeshinense Achuthan 1968: 103,
pl. 1, figs 1-5, text-figs 1-7, EARLY TERTIARY
(Deccan Intertrappean beds), Mohgaon Kalan,
Chhindwara District, Madhya Pradesh.

Malpophyllum mohgaonense (Mahabale).
Kumaran nom. nov. 1994: 337

Palmophyllum mohgaonens Mahabale 1966: 222, pl.
1, fig. 6, EARLY TERTIARY (Deccan
Intertrappean beds), Mohgaon Kalan,
Chhindwara District, Madhya Pradesh.

MANGIFERA Linnaeus, 1753
ANACARDIACEAE

♦ *Mangifera* (Leaf), Tripathi & Pandey 2005: MIDDLE
MIOCENE (Lower Siwalik), Kathgodam,
Nainital District, Uttaranchal.

Mangifera indica Linn. Srivastava, Mishra & Bande
1992: 232, pl. 2, fig. 1, LATE CENOZOIC,
Mahuadanr, Palamu District, Bihar.

Mangifera someshwarica Lakhanpal & Awasthi:
Awasthi & Mehrotra 1995: 168, 170, pl. 6, fig.
4, pl. 7, fig. 1, OLIGOCENE, Ledo-Tirap
Colliery, Makum Coalfield, Tinsukia District,
Assam; Prasad, Antal & Tiwari 1998: 25, pl.
3, figs 3, 5, pl. 4, fig. 1, MIDDLE MIOCENE
(Lower Siwalik), Seria Naka Village, about 30
km northwest of Tulsipur, Gonda District, Uttar
Pradesh; Mehrotra 2000a: 231, pl. 2, figs 3,
UPPER PALAEOCENE (Tura Formation),
Nangwalbibra near Williamnagar, East Garo
Hills District, Meghalaya.

MANGIFEROXYLON Awasthi emend Guleria,
1984 **ANACARDIACEAE**

Mangiferoxylon palaeolongipes Prakash,
Vaidyanathan & Tripathi 1994: 123-124, pl.
3, figs 21-23, text-figs 5-6, MIOCENE (Tipam
Sandstones), Kartikcherra, about 42 km south
of Hailakandi, Cachar District, Assam.

MANILKARA Adanson, 1763 **SAPOTACEAE**

Manilkara cacharensis (Prakash & Tripathi)
Awasthi & Mehrotra 1993: 86, pl. 2, figs 8-
10, UPPER MIOCENE - PLIOCENE
(Namsang Beds), Namsang River bed,
Deomali, Deomali District, Arunachal Pradesh.

Madhucoxylon cacharensis Prakash & Tripathi
1977: 142-144, pl. 2, figs 7, 9; text-fig. 2-3,
UPPER MIOCENE (Tipam Sandstone),
Sultanicherra near Hailakandi, Cachar District,
Assam.

MARSILEA Linnaeus, 1753 **MARSILIACEAE**

♦ *Marsilea sahnii* Kapgate 1992a: 85,
MAESTRICHTIAN - DANIAN (Deccan
Intertrappean beds), Mohgaon Kalan,
Chhindwara District, Madhya Pradesh.

MARSILEAITES Nambudiri & Chitaley, 2004
MARSILIACEAE (PTERIDOPHYTA)

Marsileaites sethurajui Nambudiri & Chitaley
2004: 180, pl. 1, figs 1, 3-4, pl. 2, figs 1-4, pl.
3, figs 1, 3-4, pl. 4, figs 1-2, MAESTRICHTIAN
– DANIAN (LATE CRETACEOUS) (Deccan
Intertrappean beds), Mohgaon Kalan,
Chhindwara District, Madhya Pradesh.

MELODINUS J. R. Forster & J. G. A. Foster, 1776
APOCYNACEAE

Melodinus japonicus Tanai. Agarwal 1990a: 36,
pl. 2, fig. 5, MIOCENE, Neyveli Lignite Mine-
I, South Arcot District, Tamil Nadu.

MEMECYLON Linnaeus, 1753
MELASTOMATACEAE

Memecylon amplexicaulensis Awasthi &
Mehrotra 1995: 178, pl. 8, fig. 6,
OLIGOCENE, Baragolai Colliery near
Maegherita, Makum Coalfield, Tinsukia
District, Assam.

MESUA Linnaeus, 1753 **CLUSIACEAE**
(**GUTTIFERAE**)

- ◆ *Mesua* (Leaf), Tripathi & Pandey 2005: MIDDLE MIOCENE (Lower Siwalik), Kathgodam, Nainital District, Himachal Pradesh.

Mesua antiqua Awasthi, Mehrotra & Lakhanpal 1992: 196-197, pl. 1, figs 8,10 (leaf), 11, 13 (fruit), OLIGOCENE, Baragolai and Tirap Collieries near Margherita, Makum Coalfield, Tinsukia (Dibrugarh**) District, Assam.

Mesua tertiara Lakhanpal. Prasad 1994a: 61, pl. 3, fig. 5, MIDDLE MIOCENE (Siwalik Formation), Road cutting section, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**); Mathur, Mishra & Mehra 1996: 40, pl. 10, fig. 1, LOWER MIOCENE (Kasauli Formation), near Daghotra, Kalka-Shimla Highway, Solan District, Himachal Pradesh; 41, pl. 11, fig. 3, LOWER MIOCENE (Kasauli Formation), Monkey Point, Kasauli, Solan District, Himachal Pradesh; Agarwal 2002: 175, pl. 4, figs 7-8, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.

MELIOSMA Blume, 1823 **SABIACEAE**

- ◆ *Meliosma pinnata* Maxim. (Leaf), Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Ranital and Bilaspur District, Himachal Pradesh.

MELODORUM Loureiro, 1790 **ANNONACEAE**

Melodorum jarwaensis Tripathi, Pandey & Prasad 2002: 82, pl. 1, figs 1, 3, pl. 2, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Koilabas Village, near Jarwa, Balrampur District, Uttar Pradesh.

MILIUSA Leschenault ex de Candolle, A. 1832
ANNONACEAE

Miliusa miovelutina Tripathi, Pandey & Prasad 2002: 80, 81, pl. 2, figs 2-3, MIDDLE MIOCENE (Lower Siwalik), Koilabas Village, near Jarwa, Balrampur District, Uttar Pradesh.

- ◆ *Miliusa velutina* H. F. & Th. (Leaf), Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.

MILLETIA Wight & Arnot, 1834 **FABACEAE**
(**LEGUMINOSAE**)

- ◆ *Millettia atropurpuria* Benth. (Leaf), Prasad & Pandey 2005: 65, MIDDLE MIOCENE (Lower Siwalik), Tanakpur, Champawat District, Uttaranchal.

Millettia asymmetrica Lakhanpal & Guleria. Mathur, Mishra & Mehra 1996: 33, pl. 5, fig. 1, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

Millettia auriculata Baker ex Brandis. Bande & Srivastava 1990: 344, pl. 6, fig. 3, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.

Millettia churiensis Prasad & Awasthi. Agarwal 2002: 185, pl. 10, fig. 3, MIOCENE, Neyveli Lignite Deposit Mine II, South Arcot District, Tamil Nadu.

Millettia indakabalaensis Mathur & Mathur 1998: 134, pl. 4, fig. 1, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.

Millettia kathgodamensis Prasad, Ghosh & Tripathi 2004: 64, 66, pl. 9, figs 3, 5, pl. 10, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.

Millettia oodlabariensis Antal & Prasad 1996b: 6, pl. 3, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Sevok road cutting section on left bank of Tista River (near Tista Bridge), Darjeeling District, West Bengal.

Millettia ovatus Tripathi, Pandey & Prasad 2002: 87, pl. 3, figs 3, 5, MIDDLE MIOCENE (Lower Siwalik), Koilabas Village, near Jarwa, Balrampur District, Uttar Pradesh.

- ◆ *Millettia pachycarpa* Benth. (Leaf), Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Ranital and Bilaspur District, Himachal Pradesh.
- Millettia palaeopachycarpa** Agarwal 2002: 184, pl. 10, fig. 5, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Millettia palaeoracemosa** Awasthi & Prasad. Prasad 1994a: 73, 75, pl. 8, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- Millettia singhii** Mathur, Mishra & Mehra 1996: 42, pl. 12, figs 1, 3, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Millettia siwalica** Prasad. Prasad 1994b: 122, fig. 2D, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- Millettia sp.** Mathur, Mishra & Mehra 1996: 43, pl. 12, fig. 4, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Millettia sp. aff. M. asymmetrica** Lakhanpal & Guleria. Mishra & Mathur, 1992: 198, fig. 111 a, OLIGOCENE (Dagshai Formation), Himachal Pradesh.
- MILLETTIOXYLON** Awasthi, 1967 **FABACEAE (LEGUMINOSAE)**
- Millettioxylon bengalensis** Ghosh & Roy. Bera & Banerjee 2001: 177, pl. 1, figs 12-13, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal.
- Millettioxylon indicum** Awasthi. Prasad 1993a: 69, 71, pl. 7, figs 1-5, MIDDLE MIOCENE (Lower Siwalik), Kanandoo Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**); Bera & Banerjee 2001: 177, pl. 2, figs 1-3, text-figs 3-4, LATE PLIOCENE-EARLY PLEISTOCENE (Bengal Basin), Uttar Raipur, Birbhum District, West Bengal; Sen & Bera 2005, 66, 68, pl. 2, figs 3-4, 6, UPPER MIOCENE (Upper Tipam Formation), Champanagar, Agartala District, Tripura.
- Millettioxylon palaeopulchra** Lakhanpal, Prakash & Awasthi. Tiwari & Mehrotra 2000: 88, pl. 2, figs 5-6, pl. 3, figs 1-3, LATE MIOCENE - EARLY PLIOCENE (Tipam Group), near Kanhmun along the Luite stream, Mamit District, Mizoram.
- Millettioxylon pongamiensis** Prakash. Awasthi & Mehrotra 1997: 115, pl. 3, figs 19-22, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh; Bera & Banerjee 2001: 176, pl. 2, figs 10-12, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Uttar Raipur, Birbhum District, West Bengal.
- MIMOSOCARPON** Narkhede & Patil, 1998 **FABACEAE (LEGUMINOSAE)**
- Mimosocarpion intertrappea** Narkhede & Patil 1998: 56-57, text-figs 1-7, MAESTRICHTIAN - DANIAN (?EOCENE *) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- MIMUSOPS** Linnaeus, 1753 **SAPOTACEAE**
- Mimusops neyveliensis** Agarwal 2002: 194, pl. 15, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- MITRAGYNA** Korthals, 1839 **RUBIACEAE**
- Mitragyna parvifolia** (Roxb.) Korth. Bande & Srivastava 1990: 352, pl. 7, figs 5-7, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.

- Mitragyna sahnii** (Fruit) Guleria, Srivastava & Arya 2000: 487, pl. 1, fig. 1, EARLY MIOCENE (Kasauli Formation), Road, cutting adjoining MES Inspectian Bungalow, Kasauli, Solan District, Himachal Pradesh.
- Mitragyna tertiara** Konomatsu & Awasthi. Guleria, Srivastava & Arya 2000: 487, pl. 1, 3-4, EARLY MIOCENE (Kasauli Formation), Road, cutting adjoining MES Inspectian Bungalow, Kasauli, Solan District, Himachal Pradesh.
- MITREPHORA** Hooker & Thomson, 1855
ANNONACEAE
- Mitrephora miocenica** Prasad, Antal & Tiwari 1998: 17, pl. 1, figs 1, 3, MIDDLE MIOCENE (Lower Siwalik), Seria Naka village, about 30 km northwest of Tulsipur, Gonda District, Uttar Pradesh.
- Mitrephora siwalika** Antal & Awasthi 1994: 18, pl. 1, fig. 5, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*) left bank of the upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal.
- Monocot indet.**, Mathur, Mishra & Mehra 1996: 32, pl. 3, figs 3-5, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- MONOCOTYLOSTROBUS** Lakhanpal, Prakash & Bande, 1982 **MONOCOTYLEDONAE**
- Monocotylostrobus bracteatus** Lakhanpal, Prakash & Bande. Bande 1994: 78, 80, 82, pl. 1, figs 1-4, pl. 2, figs 1-4, pl. 3, figs 1-7, text-figs 1-3, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- MORINDA** Linnaeus, 1753 **RUBIACEAE**
- Morinda palaeotinctoria** Prasad 1994a: 79, pl. 9, fig. 4, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- MURRAYA** Koenig ex Linnaeus, 1771 **RUTACEAE**
- Murraya khariensis** Lakhanpal & Guleria. Mathur, Mishra & Mehra 1996: 41, pl. 11, fig. 3, LOWER MIOCENE (Kasauli Formation), Monkey Point, Kasauli, Solan District, Himachal Pradesh.
- Murraya paniculata** (Linn.) Jack. Srivastava, Mishra & Bande 1992: 230, pl. 1, figs 5, 7, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Murraya sp.** Mathur & Mathur 1998: 132-133, pl. 2, fig. 3, pl. 3, fig. 1, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.
- MUSA** Linnaeus, 1753 **MUSACEAE**
- ♦ *Musa indica* (Leaf), Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.
- MUSOCAULON** Jain, 1964 **MUSACEAE**
- Musocaulan indicum** Jain. Biradar & Bonde 1990: 52, pl. 1, figs 3-4, pl. 2 figs 5-7, MAESTRICHTIAN - DANIAN (EARLY EOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- MUSOPHYLLUM** Göppert, 1854 **MUSACEAE**
- Musophyllum sp.**, Udhoji & Verma 1990: 99-100, pl. 1, fig. A, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Brangda, Madhya Pradesh.
- MYRISTICA** Gronovius, 1755 **MYRISTICACEAE**
- Myristica lorata** Awasthi & Mehrotra 1995: 180, 182, pl. 12, fig. 2, OLIGOCENE, Tipong

- Colliery near Margherita, Makum Coalfield, Tinsukia District, Assam.
- MYRSINE** Linnaeus, 1753 **MYRSINACEAE**
- Myrsine cf. M. capitellata** Wall. Prasad 1994c: 90, pl. 2, fig. 7, MIOCENE - PLIOCENE (Middle Siwalik), Hardwar District, Uttaranchal (Uttar Pradesh**).
- NAGPURITES** Sheikh & Kapgate, 1998b
BRYOPHYTA
- Nagpurites jungermannii** Sheikh & Kapgate 1998b: 89-91, 93-94, text-figs 1-8, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Phutala tank, Nagpur District, Maharashtra.
- NAUTIYALOCARPON** Dahegaonkar, 2004
INCERTAE SEDIS (*Nomen nudum*)
- Nautiyalocarpon patanii* Dahegaonkar 2004a: 24, MAESTRICHTIAN-DANIAN (Deccan Intertrappean beds), Chandrapur District, Maharashtra. (*Nomen nudum*).
- NELUMBO** Adans, 1763 **NELUMBONACEAE** =
NELUMBIUM Juss., 1789
NYMPHAEACEAE
- ♦*Nelumbo* sp. (Seed), Udhoji & Verma 1990: 99-100, pl. 1, fig. A, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Brangda, Madhya Pradesh. (*Nomen nudum*).
- NEPHELIUM** Linnaeus, 1767 **SAPINDACEAE**
- Nephelium oligocenicum** Awasthi & Mehrotra 1995: 166, 168, pl. 4, fig. 2, pl. 5, fig. 1, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam.
- Nephelium palaeoglabrum** Prasad, Antal & Tiwari 1998: 24, pl. 2, figs 6, 8, MIDDLE MIOCENE (Lower Siwalik), Seria Naka Village, about 30 km northwest of Tulsipur, Gonda District, Uttar Pradesh.
- NERIUM** Linnaeus, 1753 **APOCYNACEAE**
- Nerium praedorum** Agarwal 2002: 171, pl. 1, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- NEYVELIA** Reddy, 1995 **AGAVACEAE**
- Neyvelia awasthii** Reddy 1995: 171, 174, fig. 1 A-G, fig. 2 A-F, MIOCENE, Neyveli Lignite Mine I, South Arcot District, Tamil Nadu.
- NOTHOPEGIA** Blume, 1850 **ANACARDIACEAE**
- Nothopegia eutravancorica** Antal & Awasthi 1994: 29, pl. 6, fig. 1, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal.
- NYPA** Steck, 1757 **ARECACEAE (PALMAE)**
- Nypa burtini** (Brongniart) Reid & Chandler. Chitale & Nambudiri 1995: 85-86, 93-94, fig. 1 a-i, fig. 2 a, MAESTRICHTIAN - DANIAN (LATE CRETACEOUS*), (Deccan Intertrappean beds), Central India.
- Nypa fruticans** Wurm. (Fruits and Leaves) Mehrotra, Tiwari & Mazumder 2003: 85-89, fig. 5, 1-5, fig. 6, 1-4, fig. 7, 1-6, OLIGOCENE-LOWER MIOCENE (Tikak Parbat Formation), Makum Coalfield, Tinsukia District, Assam.
- NYPOPHYLLUM** Bonde & Kumaran, 2001
ARECACEAE (PALMAE) (*Nomen nudum*)
- Nypophyllum mahabalei* Bonde & Kumaran 2001: 8, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat. (*Nomen nudum*).
- NYSSA** Linnaeus, 1753 **NYSSACEAE**
- Nyssa brandoniana** (Lesq.) Eyde & Barghoorn. Shinde & Kulkarni 1989: 165-166, pl. 1, MIOCENE, Keyande Wadi near Deogad, Ratnagiri District, Maharashtra.

- OCERCULOSCERMUS* Dhabarde, Kolhe & Sheikh, 2004 INCERTAE SEDIS (*Nomen nudum*)
- Ocerculoscermus chitaleyensis* Dhabarde, Kolhe & Sheikh 2004: 54, MAESTRICHTIAN-DANIAN (Deccan Intertrappean beds), Singhpur, Chhindwara District, Madhya Pradesh[. (*Nomen nudum*).
- ODONTOSORITES** Kobayashi & Yashida, 1944
H Y D R O P T E R I D E N A E
(PTERIDOPHYTA)
- Odontosorites intertrappea** Kapgate 1990b: 79, pl. 1, figs 1- 10, text-figs 1-12, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS - LOWER EOCENE*), (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- OLEACEOCARPON** Sheikh, Kapgate, Mahajan, Juneja & Gupta, 1989 **OLEACEAE**
- Oleaceocarpon nagpurensis** Sheikh, Kapgate, Mahajan, Juneja & Gupta 1989: 157-158, pl. 1, figs 1-5, MAESTRICHTIAN - DANIAN (? UPPERMOST CRETACEOUS) (Deccan Intertrappean beds), Phutala Tank, Nagpur District, Maharashtra.
- ORMOSIA** Jackson, 1811 **FABACEAE**
(LEGUMINOSAE)
- Ormosia robustoides** Prasad. Prasad, Ghosh & Tripathi 2004: 68, pl. 10, figs 2, 4, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- ORMOSIOXYLON** Bande & Prakash, 1980 **FABACEAE (LEGUMINOSAE)**
- Ormosioxylon bengalensis** Bande & Prakash. Prasad 1989: 135-136, pl. 1, figs 1-4, MIDDLE MIOCENE (Lower Siwalik), Nungarh Nala, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**); Yadav 1989: 60, pl. 3, figs 1, 3, MIDDLE MIOCENE (Lower Siwalik), Nalagarh, Solan District, Himachal Pradesh;
- Bera & Banerjee 2001: 178, pl. 2, figs 7-8, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Uttar Raipur, Birbhum District, West Bengal.
- OSMUNDOSPORANGIUM** Narkhede & Qurashi, 2005b (OSMUNDACEAE) PTERIDOPHYTA
- Osmundosporangium deccanii* Narkhede & Qurashi 2005b: 142, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS - EARLY EOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- OTOPHORA** Blume, 1849 **SAPINDACEAE**
- Otophora neyveliensis** Agarwal 2002: 193, pl. 14, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- OUGEINIA** Bentham, 1852 **FABACEAE**
(LEGUMINOSAE)
- Ougeinia oojainensis** (Roxb.) Hochr. (syn. *O. dalbergioides* Roxb.) Bande & Srivastava 1990: 346, pl. 6, fig. 5, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- OUGEINIOXYLON** Prakash & Tripathi, 1977 **FABACEAE (LEGUMINOSAE)**
- Ougeinioxylon bengalensis** Roy & Mukhopadhyay 1996: 97-98, fig. 1 H-J, MIOCENE - PLIOCENE (Tipam Formation), Uttar Raipur near Suri, Birbhum District, West Bengal.
- Ougeinioxylon tertiarum** Prakash & Tripathi. Guleria 1990a: 185-186, pl. 2, figs 1-2, PLIOCENE - PLEISTOCENE (Mar Formation), Bikaner District, Rajasthan.
- OXYGIOCARPON** Yawale & Channe, 1998 **AIZOACEAE (FICOIDACEAE)**
- Oxygiocarpon jhargadi** Yawale & Channe, 1999: 67, text-figs 1-13, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*)

- (Deccan Intertrappean beds), Jhargadi, Yawatmal District, Maharashtra.
- PACHIRA** Aublet, 1775 **BOMBACACEAE**
- Pachira palaeomalabérica** Prasad, Ghosh & Tripathi 2004: 56, 58, pl. 6, figs 1-2, 4, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- PAHUDIOXYLON** Chowdhury, Ghosh & Kazmi, 1960 **FABACEAE (LEGUMINOSAE)**
- Pahudioxylon bankurensis** Chowdhury, Ghosh & Kazmi. Mehrotra, Awasthi & Dutta 1999: 235, 237, pl. 6, figs 1-5, LATE MIOCENE - PLIOCENE (Siwalik Group), Ghogra River section, Siang District, Arunachal Pradesh.
- Pahudioxylon bengalensis** Ghosh & Roy. Bera & Banerjee 2001: 181, pl. 3, figs 10-12, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal.
- Pahudioxylon garbetense** Bera & Banerjee 2001: 179, pl. 3, figs 7-9, text-figs 1-2, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal.
- Pahudioxylon sahnii** Ghosh & Kazmi. Bera & Banerjee 2001: 180, pl. 2, figs 16-18, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Uttar Raipur, Birbhum District, West Bengal; Mehrotra, Pande & Ralimongla 2004: 79, pl. 1, figs 5-9, EARLY MIDDLE MIOCENE (Changki Formation), Changki, Mokochung District, Nagaland.
- PALAEOASTERINA** Mitra, Bera & Banerjee, 2002 **MICROTHYRIACEAE (FUNGI)**
- Palaeoasterina siwalika** Mitra, Bera & Banerjee 2002: 286, fig. 2 A-I, MIDDLE MIOCENE (Lower Siwalik; Ghish Clay Formation), NH-31 Road section, near Sivok bridge, Darjeeling District, West Bengal.
- PALAEOSACCHAROMYCES** Sheikh & Chawhan, 1998 **FUNGI**
- Palaeosaccharomyces intertrappea** Sheikh & Chawhan 1998: 1-4, text-figs 1 A-E, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Phutala, Nagpur District, Maharashtra.
- ♦ *Palm* (Leaf), Guleria 2002: 90, PALAEOCENE - EARLY EOCENE, Giral Lignite Mine, Barmer District, Rajasthan; Guleria, Srivastava & Misra 2005: 146, MAESTRICHTIAN-DANIAN (Deccan Traps), Khandwa District, Madhya Pradesh.
- PALMACITES** Brongniart, 1822 **ARECACEAE (PALMAE)**
- Palmacites** sp. Mehrotra 2000: 312, 314, pl. 1, fig. 4, OLIGOCENE (Barail Group), Manmao, Tirap District, Arunachal Pradesh.
- PALMOCAULON** Menon, 1964 **ARECACEAE (PALMAE)**
- Palmocaulon coryphoides* Bonde 2002: 11, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Nawargaon, Wardha District, Maharashtra. (*Nomen nudum*).
- PALMOENSATOPHYLLUM** Bonde, 2002 **ARECACEAE (PALMAE)** (*Nomen nudum*)
- Palmoensatophyllum coryphoides* Bonde 2002: 11, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra. (*Nomen nudum*).
- PALMOSTROBOXYLON** Biradar & Bonde, 1979 **ARECACEAE (PALMAE)**
- Palmostroboxylon sahnii** Bonde 1995: 63, figs 1-4, MAESTRICHTIAN - DANIAN (EARLY EOCENE*) (Deccan Intertrappean beds), Mohgaon - Palasundar, Dindori (Mandla**) District, Madhya Pradesh.

- Palmostroboxylon umariense** Bonde 1990b: 59-60, pl. 1, figs 1-4, pl. 2, figs 5-7, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Umaria near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.
- PALMOXYLON** Schenk, 1822 **ARECACEAE (PALMAE)**
- Palmoxylon**, Kar, Sahni, Ambwani & Sharma 1998: 116, fig. 3e, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Amajiri, Chhindwara District, Madhya Pradesh.
- Palmoxylon**, Prakash, Singh & Sahni 1990: 35, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Barela, Jabalpur District, Madhya Pradesh.
- Palmoxylon** (Tree trunk), Sahni & Tripathi 1990: 68, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Padwar, Jabalpur District, Madhya Pradesh.
- Palmoxylon**, Udhoji & Verma 1990: 99-100, pl. 1, figs D, F, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Udaipur, Mohgaon, Mandla District, Madhya Pradesh.
- Palmoxylon anjari* Bonde & Kumaran 2000: 8, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat. (*Nomen nudum*).
- Palmoxylon anjarii** Guleria 2005: 238, figs 2 D-G, figs 3 A-F, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), about 1.5 km SE of Viri village, Anjar, Kachchh District, Gujarat.
- Palmoxylon betulensis** Gayakwad & Patil 1989: 31-33, pl. 1, figs 1-5, MAESTRICHTIAN - DANIAN (EOCENE*) (Deccan Intertrappean beds), Rambhakheri, Betul District, Madhya Pradesh.
- Palmoxylon binoriensis** Guleria & Mehrotra 1999: 79, pl. 2, figs 2-7, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Block no. 661-662 of Binori Reserve Forest, Seoni District, Madhya Pradesh.
- Palmoxylon biradarii* Bonde & Gamre 2002: 12, MAESTRICHTIAN-DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Mothi, Sagar District, Madhya Pradesh. (*Nomen nudum*).
- Palmoxylon birbhuments** Bera & Banerjee 2001: 184, pl. 5, figs 5-6, text-fig. 7, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Muhammad Bazar, Birbhum District, West Bengal.
- Palmoxylon canalosum** Guleria & Mehrotra 1999: 80, pl. 3, figs 1-4, 12-13, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Block no. 661-662 of Binori Reserve Forest, Seoni District, Madhya Pradesh.
- Palmoxylon ghoshii** Bera & Banerjee 1990: 79-80, 83, fig. 2 A, A1, B, B1, C, D, D1, E, F, G, fig. 3 - D ? LOWER PLEISTOCENE (woods reworked MIOCENE ?) Lower Lalgargh Formation) Garbeta Silai River Section Midnapure District, West Bengal; Bera & Banerjee 2001: 187, pl. 4, figs 10-12, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Silai River section, Midnapur District, West Bengal.
- Palmoxylon hyphaenoides** Rao & Shete 1989: 123-126, pl. 1, figs 1-11, text-figs 1-17, MAESTRICHTIAN - DANIAN (EARLY TERTIARY probably EOCENE*) (Deccan Intertrappean beds), Nawargaon-Maragsur, Wardha District, Maharashtra.
- Palmoxylon kamalam** Rode. Datar & Patil 2002: 161-162, pl. 1, figs 1-12, text-figs 1-19, MAESTRICHTIAN - DANIAN (EARLY TERTIARY probably EOCENE*) (Deccan Intertrappean beds), Maragsur, Wardha District, Maharashtra.

- Palmoxylon licualaense** Gayakwad & Patil 1989: 33-37, pl. 2, figs 6-11, MAESTRICHTIAN - DANIAN (EOCENE*) (Deccan Intertrappean beds), Rambhakheri, Betul District, Madhya Pradesh.
- Palmoxylon lunarianum** Guleria & Mehrotra 1999: 83, pl. 3, figs 5-6, 10-11, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Block no. 661-662 of Binori Reserve Forest, Seoni District, Madhya Pradesh.
- Palmoxylon mathuri** Sahni. Agrawal 1995: 23, CRETACEOUS (Umia Bed), Kachchh District, Gujarat; Guleria & Srivastava 2001: 20, TERTIARY, Kachchh District, Gujarat.
- Palmoxylon pantii** Trivedi & Surange. Bera & Banerjee 1997: 60-61, figs 1-4, Age ?, Santiniketan, Birblum District, West Bengal; Bera & Banerjee 2001: 184, pl. 5, figs 5-6, text-fig. 7, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Santiniketan, Birbhum District, West Bengal.
- Palmoxylon ramanujamii** Guleria 2005: 237, figs 1 A-H, figs 2 A-C, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), about 1.5 km SE of Viri village, Anjar, Kachchh District, Gujarat.
- Palmoxylon senii** Bera & Banerjee 2001: 184-185, pl. 5, figs 7-12, text-figs 8-9, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Garbeta, Midnapur District, West Bengal.
- ♦ *Palmoxylon sundaram* Sahni. Bonde & Gamre 2002: 12, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Mothi, Sagar District, Madhya Pradesh.
- Palmoxylon (Cocos) sundaram** Sahni. Bonde, Gamre & Mahabale 2004: 231, pl. 1, figs 1-4, pl. 2, figs 1-5, text-fig. 1, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Mothi, Sagar District, Madhya Pradesh.
- Palmoxylon takliense** Kapgate 1995: 153-154, 157, figs 23-30, text-figs 1-22, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Takli, Nagpur District, Maharashtra.
- Palmoxylon taroides** Ambwani & Mehrotra, 1990: 70-72, pl. 1, figs 1-7, pl. 2, figs 1-9, pl. 3, figs 1, 3, text-fig. 1, MAESTRICHTIAN - DANIAN (EARLY TERTIARY, probably LOWER EOCENE - PALAEOCENE*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.
- Palmoxylon trabeculosum* Sahni. Bonde & Gamre 2002: 12, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Mothi, Sagar District, Madhya Pradesh. (*Nomen nudum*).
- Palmoxylon vaginatum** Guleria & Mehrotra 1999: 80, 82, pl. 3, figs 7-9, MAESTRICHTIAN DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Block no. 661-662 of Binori Reserve Forest, Seoni District, Madhya Pradesh.
- PANDANACEOXYLON** Patil & Datar, 2004
PANDANACEAE
- Pandanaceoxylon kulkarni** Patil & Datar 2004: 61-62, 64, 66-67, pl. 1, figs 1-2, pl. 2, figs 9-16, text-figs 1-83, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.
- PANDANUSOCARPON** Bonde, 1990
PANDANACEAE
- Pandanusocarpon umariense** Bonde 1990b: 60-61, pl. 2, figs 8-9, pl. 3, figs 10-15, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Umaria near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.
- PARAPALMOCAULON** Bonde & Kumaran, 2001
ARECACEAE (PALMAE) (*Nomen nudum*)

Parapalmocaulon coryphoides Bonde 1982: 11, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra. (*Nomen nudum*).

Parapalmocaulon nypoides Bonde & Kumaran 2001: 8, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Anjar, Kachchh District, Gujarat. (*Nomen nudum*).

PARAPHYLLANTHOXYLON Baily, 1924
EUPHORBIACEAE

Paraphyllanthoxylon jaulkeraense Gaykwad & Patil 1993: 31-32, pl. 2, figs 1-4, text-figs 7-12, MAESTRICHTIAN - DANIAN (EOCENE*) (Deccan Intertrappean beds), Jaulkhera, Ambabagholi, Betul District, Madhya Pradesh.

PARINARI Aublet, 1775
CHRYSOBALANACEAE

Parinari kathgodamense Prasad 1994a: 75, pl. 8, fig. 3, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

PARINARIOXYLON Pfeiffer & van Heurn, 1928
CHRYSOBALANACEAE

Parinarioxylon cuddaloreense Awasthi, Srivastava & Awasthi 1996: 94, pl. 2, figs 4-5, 7, pl. 3, figs 1-2, MIDDLE MIOCENE (Warkalli Formation), Kundara Clay Mine, Kollam District, Kerala.

Parinarioxylon neyveliense Awasthi & Agarwal 1986: 57-58, pl. 1, figs 1-5, MIOCENE, Neyveli Lignite Mine I, South Arcot District Tamil Nadu.

PARISHIA Hooker J. D., 1860
ANACARDIACEAE

Parishia palaeoinsignis Awasthi & Mehrotra 1995: 170, pl. 5, figs 3, 6, 8, OLIGOCENE, Baragolai Colliery near Margherita, Makum Coalfield, Tinsukia District, Assam.

PERSEA Miller, 1754 **LAURACEAE**

Persea lakhanpalii Mathur, Mishra & Mehra 1996: 34, pl. 6, figs 1-2, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

Persea sibdasii Mathur, Mishra & Mehra 1996: 48, pl. 16, fig. 1, LOWER MIOCENE (Kasauli Formation), near Daghoti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

PHLICORACHIONITES Mahajan & Sheikh, 1998
PTERIDOPHYTA

Phlicorachionites mahabalei Mahajan & Sheikh 1998: 76-79, 81-82, text-figs 1-7, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

PHOEBE Nees, 1836 **LAURACEAE**

Phoebe champarensis Awasthi & Lakhanpal 1990: 283, pl. 1, fig. 14, MIDDLE MIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.

PHOENICICAULON Bonde, Kumbhojkar & Aher, 2000 **ARECACEAE (PALMAE)**

Phoenicicaulon mahabalei Bonde, Kumbhojkar & Aher 2000: 11-12, pl. 1, figs 1-6, text-fig. 1, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS, MAESTRICHTIAN) (Deccan Intertrappean beds), Umaria, Dindori (Mandla**) District, Madhya Pradesh.

PHOENICITES Brongniart, 1828 **ARECACEAE (PALMAE)**

Phoenicites indica Guleria, Hemanta Singh, Mehrotra, Soibam & Kishor 2005: 65, pl. 1, figs 1-2, LATE EOCENE, Upper Disang; Bijang, Imphal Valley, Imphal District, Manipur.

Phoenicites lakhanpalii Guleria & Mehrotra 1999: 75, pl. 2, figs 1, 9, MAESTRICHTIAN -

- DANIAN (MAESTRICHTIAN - PALAEOCENE*) (Deccan Intertrappean beds), Block no. 661-662 of Binori Reserve Forest, Seoni District, Madhya Pradesh.
- Phyllanthocarpum* Mistri, Kapgate & Sheikh, 1992 EUPHORBIACEAE (*Nomen nudum*)
- Phyllanthocarpum singpurii* Mistri & Kapgate, 1992b: 112, text-figs 1-5, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Singhpur, Chhindwara District, Madhya Pradesh (*Nomen nudum*).
- PHYLLANTHUS** Linnaeus, 1753
EUPHORBIACEAE
- Phyllanthus** (Leaflet), Agarwal & Mandaokar 2002b: 312, fig. 1, EARLY MIOCENE (Middle Bhuban Formation), Mampui near Laungtlai, Chhimitupui District, Mizoram.
- Phyllanthus mioreticulatus** Prasad, Antal, Tripathi & Pandey. Prasad, Ghosh & Tripathi 2004: 73, pl. 14, figs 6-7, 9, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- Phyllanthus palaeoreticulatus** Arya & Awasthi 1995: 274, pl. 1, figs 6-8, LOWER MIOCENE (Kasauli Formation), Shiv Shakti temple, Kasauli, Solan District, Himachal Pradesh; Agarwal 2002: 182, pl. 9, figs 3-4, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Phyllanthus siwalica** Prasad 1994b: 124-125, fig. 3 C, MIDDLE MIOCENE (Siwalik Formation), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- PILIPARICUTIS** Rosett & Schneider, 1969
INCERTAE SEDIS (Dispersed cuticle)
- Piliparicutis arunachalensis** Joshi, Tewari, Mehrotra, Chakraborty & De 2003: 323, 324, fig. 2 a-d, fig. 3 a, UPPER PLIOCENE - PLEISTOCENE (Upper Siwalik), West Kameng District, Arunachal Pradesh.
- PISUM** Linnaeus, 1753 **FABACEAE (LEGUMINOSAE)**
- Pisum intertrappea* (Seed), Yawale & Sakunderwar 1991: 46, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaonkalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- PITHECELOBIOXYLON** Jeyasingh & Devadass, 1996 **FABACEAE (LEGUMINOSAE)**
- Pithecelobioxylon cuddalorensis** Jeyasingh & Devadass 1996: 108, fig. 1 D-F, MIOCENE - PLIOCENE (Cuddalore Sandstones), Tiruchitrabalam near Pondicherry.
- ♦*Poaceae*(Leaf), Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.
- POACITES** Schlotheim, 1820 **GRAMINAE (POACEAE)**
- ♦*Poacites*, Srivastava & Guleria 2001: 44, LOWER MIOCENE (Kasauli Formation), Solan District, Himachal Pradesh.
- Poacites sp. A**, Mathur, Mishra & Mehra 1996: 31, pl. 3, fig. 1, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Poacites sp. B**, Mathur, Mishra & Mehra 1996: 31-32, pl. 3, fig. 2, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Poacites sp. C**, Mathur, Mishra & Mehra 1996: 38-39, pl. 9, fig. 4, LOWER MIOCENE (Kasauli Formation), near MES Bunglow, Kasauli, Solan District, Himachal Pradesh.
- Poacites kasauliensis** Srivastava & Guleria 2004b: 104, pl. 2, figs 5-7, LOWER MIOCENE (Kasauli Formation), Near MES Water Works and behind Kasauli Bus Stand, Kasauli, Solan District, Himachal Pradesh.

PODOCARPOXYLON Gothan, 1907
PODOCARPACEAE

Podocarpoxyylon deccanensis Trivedi & Srivastava 1989: 64, fig. 1 E-H, fig. 2 C-D, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

Podocarpoxyylon mahabalai (Agashe) Trivedi & Srivastava 1990: 659.

Mesembrioxylon mahabalai Agashe 1969: 312, pl. 1, figs 1-7, text-figs 1-4, MIOCENE - PLIOCENE (Cuddalore Sandstones), Tiruvakkarai, South Arcot District, Tamil Nadu.

Podocarpoxyylon pantii Bera & Sen 2004: 241-242, pl. 1, figs 1-8, pl. 2, figs 1-9, TERTIARY (Bengal Basin), Mohammad Bazar near Siuri, Birbhum District, West Bengal.

Podocarpoxyylon sahnii (Ramanujam) Trivedi & Srivastava 1990: 659.

Mesembrioxylon sahnii Ramanujam 1963: 312, pl. 1, figs 1-7, text-figs 1-6, MIOCENE - PLIOCENE (Cuddalore Sandstones), Tiruvakkarai, South Arcot District, Tamil Nadu.

Podocarpoxyylon speciosum (Ramanujam) Trivedi & Srivastava 1990: 659.

Mesembrioxylon speciosum Ramanujam 1955: 41, pl. 1, figs 1-4, text-figs 1-4, MIOCENE-PLIOCENE (Cuddalore Sandstones), Murattandichavadi, South Arcot District, Tamil Nadu.

Podocarpoxyylon tiruvakkaraianum (Ramanujam) Trivedi & Srivastava 1990: 659.

Mesembrioxylon tiruvakkaraianum Ramanujam 1953: 102-105, pl. 2, figs 1-7, text-figs 7-11, MIOCENE-PLIOCENE (Cuddalore Sandstones), Tiruvakkarai, South Arcot District, Tamil Nadu.

PODOCARPUS L'Héritier ex Persoon, 1807
PODOCARPACEAE

Podocarpus oligocenicus Awasthi, Mehrotra & Lakhanpal 1992: 194, pl. 1, figs 1, 3, 5-6, OLIGOCENE, Baragolai and Tirap Collieries near Margherita, Makum Coalfield, Tinsukia (Dibrugarh**) District, Assam; Tiwari & Mehrotra 2002: 70, fig. 2B, OLIGOCENE (Barail Group), sandy shale horizon, locality no. 1, Champhai-Aizwal Road, Mizoram.

POECILONEURON Beddome, 1865
CLUSIACEAE (GUTTIFERAE)

Poeciloneuron palaeoindicum Srivastava & Awasthi 1996: 89-90, pl. 1, figs 1-3, 6, 8, MIDDLE MIOCENE (Warkalli Formation), well cutting at Cheruvathur, Kasaragod District, Kerala.

POLYALTHIA Blume, 1830 **ANNONACEAE**

♦*Polyalthia* (Leaf), Guleria 2002: 90, PALAEOCENE - EARLY EOCENE, Giral Lignite Mine, Barmer District, Rajasthan.

Polyalthia palaeosimiarum Awasthi & Prasad. Antal & Prasad 1996a: 125-126, figs 2-3, MIOCENE (Lower Siwalik), Sevok Road Cutting on left bank of Tista River and Ramthi River Section, Darjeeling District, West Bengal.

Polyalthia palaeosumatrana Tripathi, Pandey & Prasad 2002: 84, 86, pl. 1, figs 5, 6, MIDDLE MIOCENE (Lower Siwalik), Koilabas Village, near Jarwa, Balrampur District, Uttar Pradesh.

POLYALTHIOXYLON Bande emend Mehrotra, 1990 **ANNONACEAE**

Polyalthioxyylon parapaniense Bande emend Mehrotra. Mehrotra 1990: 169-171, fig. 1A-D, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh; Guleria & Mehrotra 1999: 73, pl. 1, fig. 11, pl. 2, fig. 8 MAESTRICHTIAN - DANIAN

- (MAESTRICHTIAN - PALAEOCENE*)
(Deccan Intertrappean beds), Chati near Shahpura, Dindori (Mandla**) District, Madhya Pradesh; Srivastava 2001: 135, 137, pl. 1, figs 1, 3-4, 7-8, MIOCENE (Warkalli Formation), Payangadi Super Clay Mine, Kannur District, Kerala.
- POLYHYPHAETHYRITES** Srivastava & Kar, 2004
FUNGI (MICROTHYRIACEAE)
- Polyhyphaethyrites giganticus** Srivastava & Kar 2004: 866-867, fig. 2 a-c, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- PONGAMIA** Ventenat, 1803 **FABACEAE (LEGUMINOSAE)**
- Pongamia cf. P. glabra** Vent. Prasad 1994c: 88, pl. 1, fig. 9, MIOCENE - PLIOCENE (Middle Siwalik), Hardwar District, Uttaranchal (Uttar Pradesh**).
- Pongamia kathgodamensis** Prasad 1994b: 122, fig. 2F, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**); Prasad, Ghosh & Tripathi 2004: 69, pl. 11, fig. 6, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- Pongamia siwalika** Awasthi & Lakhanpal 1990: 282, pl. 1, fig. 9, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar; Antal & Awasthi 1994: 34, 36, pl. 10, fig. 1, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal.
- PRAKASHOCARPON* Dahegaonkar & Kapgate, 2004 *INCERTAE SEDIS (Nomen nudum)*
- Prakashocarpon mohgaoense* Dahegaonkar & Kapgate 2004: 36, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- PROTOCOLLETOTRICHUM** Kar, Sharma & Verma, 2004 **DEUTEROMYCETES**
- Protocolletotrichum deccanensis** Kar, Sharma & Verma 2004: 947, fig. 3 A, C-E, MAESTRICHTIAN - DANIAN (MAESTRICHTIAN*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh
- ♦*Pteridophytic spores*, Guleria, Srivastava & Misra 2005: 146, MAESTRICHTIAN-DANIAN (Deccan Traps), Khandwa District, Madhya Pradesh.
- PTEROCARPUS** Jacquelin, 1763 **FABACEAE (LEGUMINOSAE)**
- Pterocarpus eocenicus** Ambwani 1991: 144, fig. 1 F, PALAEOCENE, Cherrapunji, West Khasi Hills District, Meghalaya.
- Pterocarpus ovatus** Awasthi & Lakhanpal 1990: 280, pl. 1, fig. 7, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.
- PTEROSPERMOXLON** Awasthi, Guleria & Lakhanpal, 1980 **STERCULIACEAE**
- Pterospermoxylon bengalensis** Roy & Mukhopadhyay 2005: 221-222, pl. 1, figs 1-7, MIOCENE (Tipam Series), Bonkati, Bardwan District, West Bengal.
- PTEROSPERMUM** Schreber, 1791 **STERCULIACEAE**
- Pterospermum palaeoheyneanum** Antal & Awasthi 1994: 26, pl. 5, fig. 3, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal.

- Pterospermum siwalicum** Antal & Prasad 1996b: 4, pl. 1, figs 1-3, MIDDLE MIOCENE (Lower Siwalik), right bank of upstream (about 2 km) of Ramthi River near Oodlabari, Darjeeling District, West Bengal.
- PTERYGOTA** Schott & Endlicher, 1832
STERCULIACEAE
- Pterygota alata** (Roxb.) R. Br. (Syn. *Sterculia alata* Roxb.), Bande & Srivastava 1990: 338, pl. 3, figs 1, 3-4, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Pterygota cordata** Awasthi & Mehrotra 1995: 164, pl. 4, fig. 3, OLIGOCENE, Baragolai Colliery near Margherita, Makum Coalfield, Tinsukia District, Assam.
- Pterygota sp.** Mathur & Mathur 1998: 132, pl. 1, figs 3-4, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.
- PUTRANJIVA** Wallich, 1826 **EUPHORBIACEAE**
- ♦*Putranjiva roxburghiana* (Leaf), Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.
- RAMANUJAMIPALMAEPHYLLUM** Banerjee, Mitra & Das 2005 **PLAMAE (ARECACEAE)**
- Ramanujamipalmaephyllum siwalikensis** Banerjee, Mitra & Das 2005: 372-273, text-figs 2-3, pl. 1, figs 1-4, MIOCENE (Middle Siwalik; Geadbat Formation), Ramthi river section, Darjeeling District, West Bengal.
- RANDIA** Linnaeus, 1753 **RUBIACEAE**
- Randia miowallichii** Prasad. Antal & Awasthi 1994: 38, pl. 12, figs 4-5, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik), (Lower-Middle Siwalik*), right bank of upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal.
- Randia neyveliensis** Agarwal 1990a: 35, pl. 1, fig. 1, MIOCENE, Neyveli Lignite Mine I, South Arcot District, Tamil Nadu.
- RHAMNUS** Linnaeus Tourn. ex Linnaeus, 1735
RHAMNACEAE
- Rhamnus sp. (Seed)**, Udhoji & Verma 1990: 99, pl. 1, fig. B, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Brangda, Madhya Pradesh.
- RHIZOCAULITES** Mehrotra, 2003a
DICOTYLEDONAE
- Rhizocaulites palaeocenicus** (Mehrotra) Mehrotra, 2003a: 859
- Rhizocaulon palaeocenicum* Mehrotra 2000: 329-330, pl. 1, figs 1-2, UPPER PALAEOCENE (Therria Sandstone Formation), Buruai Colliery near Jowai, Jaintia Hills District, Meghalaya.
- RHIZOCAULON** Mehrotra, 2000b (non Saporta 1861) = **RHIZOCAULITES** Mehrotra, 2003
DICOTYLEDONAE
- RHIZOPALMOXYLON** Felix 1883 or Gothan ?1942 **ARECACEAE (PALMAE)**
- Rhizopalmoxydon borassoides** Awasthi, Mehrotra & Khare 1996: 57, 60, pl. 1, figs 1, 3, 5, pl. 2, figs 1-6, MAESTRICHTIAN - DANIAN (LATE CRETACEOUS - EARLY TERTIARY*) (Deccan Intertrappean Beds), Nawargaon, Wardha District, Maharashtra.
- Rhizopalmoxydon mothii* Bonde & Gamre 2002: 12, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Mothi, Sagar District, Madhya Pradesh. (*Nomen nudum*).
- Rhizopalmoxydon shiblaii* Dahegaonkar 2004b: 32, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean

- Beds), Yavatmal District, Maharashtra. (*Nomen nudum*).
- Rhizopalmoxyton sundaram* Mahabale. Bonde & Gamre 2002: 12, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS*) (Deccan Intertrappean Beds), Mothi, Sagar District, Madhya Pradesh. (*Nomen nudum*).
- RHIZOPHORA** Linnaeus, 1753
RHIZOPHORACEAE
- Rhizophora coriacea** Awasthi & Mehrotra 1995: 173, pl. 7, figs 2 - 3, OLIGOCENE, Tirap Colliery near Ledo, Makum Coalfield, Tinsukia District, Assam.
- RHODOSPATHODENDRON** Bonde, 2000
ARECACEAE (PALMAE)
- Rhodospathodendron tomlinsonii** Bonde 2000: 86-88, pl. 1, figs A,1-6, pl. 2, figs 1-6, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS - LATE MAESTRICHTIAN*), (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.
- RODEOCARPON** Kapgate, Patil & Ilamkar, 2005
INCERTAE SEDIS
- Rodeocarpum mohgaense** Kapgate, Patil & Ilamkar 2005: 272-273, text-figs 1-7, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS - EARLY EOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- Roots**, Mishra, Mathur & Mehra 1995: 99, pl. 1, fig. 7, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh.
- Roots (Water Plant) gen. et sp. indet.**, Mathur, Mishra & Mehra 1996: 55-56, pl. 22, figs 1-3, LOWER MIOCENE (Kasauli Formation), Kashmiri Mohalla, Kasauli.
- SABALITES** Saporta, 1865 **ARECACEAE (PALMAE)**
- Sabalites sp.** Mathur, Mishra & Mehra 1996: 39, pl. 9, fig. 5, LOWER MIOCENE (Kasauli Formation), Timber Trail Resort, Kalka Shimla Highway, Solan District, Himachal Pradesh.
- SACCOPETALUM** Bennett, 1840
ANNONACEAE
- Saccopetalum palaeolongiflorum** Awasthi & Mehrotra 1995: 159-160, pl. 1, fig. 1, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam.
- Saccopetalum pretomentosum** Prasad, Ghosh & Tripathi 2004: 46, pl. 2, fig. 4, pl. 3, fig. 3, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- SAHNIPUSHPAM** Shukla emend Ambwani, Kar & Sahni, 2001 **LYTHRACEAE**
- Sahnipushpam shuklai** Shukla emend Ambwani, Kar & Sahni, 2001: 394, 396-397, fig. 1 A-E, fig. 2, MAESTRICHTIAN - DANIAN, (TERTIARY, ?EOCENE*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- SAHNIOCARPON** Chitale & Patil, 1973
DICOTYLEDONAE
- Sahniocarpum harisii** Chitale & Patil. Karekar 1989: 77-78, figs 1-3, MAESTRICHTIAN - DANIAN, (UPPER CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- SALICACEOPHYLLUM** Kapgate & Shiekh, 2004
SALICACEAE (Nomen nudum)
- Salicaceophyllum mohgaonensis* Kapgate & Shiekh 2004: 22, MAESTRICHTIAN - DANIAN, (UPPER CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan,

- Chhindwara District, Madhya Pradesh.
(*Nomen nudum*).
- SALVINITES** Nambudiri & Chitaley, 1991
SALVINIACEAE (PTERIDOPHYTA)
- Salvinites deccaniana** Nambudiri & Chitaley
1991: 327, 328, 330, pl. 1, figs 1-4, pl. 2, figs
1-4, text-figs 3-5, MAESTRICHTIAN -
DANIAN, (LATE CRETACEOUS*) (Deccan
Intertrappean beds), Mohgaon Kalan,
Chhindwara District, Madhya Pradesh.
- SAMANEA** (de Candolle) Merrill, 1916
FABACEAE (LEGUMINOSAE)
- Samanea siwalica** Prasad 1994a: 73, pl. 7, fig.
11, MIDDLE MIOCENE (Lower Siwalik), Gola
River bed, Kathgodam, Nainital District,
Uttaranchal (Uttar Pradesh**).
- SANTIRIA** Blume, 1850 **BURSERACEAE**
- Santiria oligocenica** Awasthi & Mehrotra 1995:
164,166, pl. 3, fig. 3, OLIGOCENE, Ledo-
Tirap Colliery, Makum Coalfield, Tinsukia
District, Assam.
- ?Sapotaceous wood**, Prakash, Vaidyanathan &
Tripathi 1994: 137, pl. 6, figs 45-46, text-fig.
12, MIOCENE (Tipam Sandstones), Borjan
stream, Naginimara, Mon District, Nagaland.
- SAPOTOXYLON** Felix, 1882 **SAPOTACEAE**
- Sapotoxylon prepayena** Awasthi & Srivastava
1990: 289, pl. 2, figs 5, 8, 10, text-figs A-B,
MIOCENE (Warkalli Formation), Payangadi
Super Clay Mine, Kannur (Cannanore**) District,
Kerala.
- SARACOXYLON** Roy & Mukhopadhyay, 1996
FABACEAE (LEGUMINOSAE)
- Saracoxylon indicum** Roy & Mukhopadhyay
1996: 94, fig. 1 A- G, MIOCENE (Tipam
Series), Aduria Forest, Burdwan District, West
Bengal.
- SARCOSPERMA** Hooker, 1876 **SAPOTACEAE**
- Sarcosperma mioarboreum** Prasad, Ghosh &
Tripathi 2004: 71, pl. 12, fig. 6, pl. 13, fig. 1,
MIDDLE MIOCENE (Lower Siwalik), Gola
River bed near Jamrani, Kathgodam, Nainital
District, Uttaranchal.
- SCHLEICHERA** Willdenow, 1806
SAPINDACEAE
- Schleichera oleosa** (Lour.) Oken. Srivastava,
Mishra & Bande 1992: 230, pl. 1, fig. 4, LATE
CENOZOIC, Mahuadanr, Palamu District,
Bihar.
- Schleichera palaeotrijuga** Mehrotra 2000a: 229-
230, pl. 1, fig. 7, UPPER PALAEOCENE (Tura
Formation), Nangwalbibra near Williamnagar,
East Garo Hills District, Meghalaya.
- Schleichera sp.** Lakhanpal. Mathur, Mishra &
Mehra 1996: 41-42, pl. 11, fig. 5, LOWER
MIOCENE (Kasauli Formation), on right bank
of Koshaliya River near Banog Village, Solan
District, Himachal Pradesh.
- SCIRPUSOXYLON** Shete, 1989 **CYPERACEAE**
- Scirpusoxylon indicum** Shete 1989: 161-162, pl.
1, figs 1-13, MAESTRICHTIAN - DANIAN,
(EARLY TERTIARY, probably EOCENE*)
(Deccan Intertrappean beds), Nawargaon-
Maragsur area, Wardha District, Maharashtra.
- SCITAMINOPHYLLUM** Bobade, Upadhye &
Bhadange, 2005 **SCITAMINAE (Nomen
nudum)**
- Scitaminophyllum indicum* Bobade, Upadhye &
Bhadange, 2005: 136-137,
MAESTRICHTIAN - DANIAN (Deccan
Intertrappean beds), Mohgaon Kalan,
Chhindwara District, Madhya Pradesh.
(*Nomen nudum*).
- SECURIDACA** Linnaeus, 1753
POLYGALACEAE

- Securidaca miocenica** Prasad, Antal & Tiwari 1998: 22, 24, pl. 2, figs 3, 5, MIDDLE MIOCENE (Lower Siwalik), Seria Naka Village, about 30 km northwest of Tulsipur, Gonda District, Uttar Pradesh.
- Seed (Cruciferae)**, Mishra & Mathur 1992: 198, fig. 112 b, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh.
- Seed (Indetererminate)**, Mishra & Mathur 1992: 198, fig. 112 a, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh.
- Seed (Moraceae)**, Mishra & Mathur 1992: 198, fig. 112 c, LOWER MIOCENE (Kasauli Formation), Himachal Pradesh.
- SELAGINELLA** Palisot de Beauvois, 1805
SELAGINALACEAE (PTERIDOPHYTA)
- Selaginella chitaleyii** Sheikh & Kapgate 1998a: 40-41, text-figs 1-10, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- SELAGINELLITES** Kapgate & Sheikh 1991
SELAGINALACEAE (PTERIDOPHYTA)
(*Nomen nudum*)
- Selaginellites chitalei* Kapgate & Sheikh 1991: 57, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh (*Nomen nudum*); Kapgate 1993a: 224, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh (*Nomen nudum*); Kapgate 1999a: 338, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- SEMECARPUS** Linnaeus, 1782
ANACARDIACEAE
- Semecarpus palaeoanacardium** Srivastava & Guleria 2004b: 97-98, pl. 1, fig. 1, LOWER MIOCENE (Kasauli Formation), Behind Kasauli Bus Stand, Solan District, Himachal Pradesh.
- SHOREA** Roxburgh ex Gaertner, 1805
DIPTEROCARPACEAE
- Shorea bengalensis** Antal & Prasad 1998: 99, pl. 1, figs 4-7, MIDDLE MIOCENE (Lower Siwalik), Sevok Road Section, about 2 km from Tista River bridge towards Oodlabari, Darjeeling District, West Bengal.
- Shorea miocenica** Antal & Prasad 1996c: 74,76, pl. 1, figs 3, 5, MIDDLE MIOCENE (Lower Siwalik), right bank of Ghish river near Oodlabari, Darjeeling District, West Bengal; Prasad, Ghosh & Tripathi 2004: 54, 56, pl. 7, figs 1-2, MIDDLE MIOCENE (Lower Siwalik), Gola River bed near Jamrani, Kathgodam, Nainital District, Uttaranchal.
- Shorea neoassamica** Prasad 1994a: 63, 65, pl. 5, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- Shorea robusta** Gaertn f. Bande & Srivastava 1990: 334, pl. 1, figs 1-2, 4-5, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- Shorea siwalika** Antal & Awasthi 1994: 23, pl. 4, figs 1, 3, MIDDLE MIOCENE-PLIOCENE (Lower-Middle Siwalik), right bank of upstream of Ramthi River near Oodlabari, Darjeeling District, West Bengal.
- Shorea type-Fossil cuticle type-1**, Verma, Upadhyay & Srivastava 1989: 192-194, pl. 1, figs 1-4, text-fig. 1 A-L, LOWER MIOCENE, Neyveli Lignite Deposits, South Arcot District, Tamil Nadu.
- SHOREOXYLON** Den Berger, 1923
DIPTEROCARPACEAE

- Shoreoxylon arcotense** Awasthi. Awasthi & Srivastava 1992a: 148, pl. 2, figs 1-3, MIOCENE (Warkalli Formation), Payangadi Super Clay Mine, Kannur District, Kerala; Awasthi & Mehrotra 1997: 112, pl. 1, figs 5-9, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh.
- Shoreoxylon burmense** Prakash. Prakash, Vaidyanathan & Tripathi 1994: 212, pl. 2, figs 12-13, MIOCENE (Tipam Sandstones), Kartikcherra, 42 km. south of Hailakandi, Cachar District, Assam.
- Shoreoxylon evidens** Eyde. Mehrotra, Awasthi & Dutta 1999: 225, 227-228, pl. 1, figs 1-6, LATE MIOCENE - PLIOCENE (Siwalik), Ghogra River Section, Siang District, Arunachal Pradesh.
- Shoreoxylon pentecmeoides** Bera & Banerjee 2001: 174, pl. 4, figs 4-6, text-figs 5-6, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Tamluk, Midnapur District, West Bengal.
- Shoreoxylon vayganiensis** Srivastava & Saxena 1998: 23, pl. 1, figs 1-2, 4-6 MIOCENE (Sindhudurg Formation), Vaygani village, Ratnagiri District, Maharashtra.
- SINDORA** Miquel, 1861 **FABACEAE**
(**LEGUMINOSAE**)
- Sindora eovelutinicus** Ambwani, 1991: 140-142, fig. 1 C, PALAEOCENE, Cherrapunji, West Khasi Hills District, Meghalaya.
- SINGHPUROCARPON* Dhabarde, Kolhe & Sheikh, 2005 INCERTAE SEDIS (*Nomen nudum*)
- Singhpurocarpon sahanii* Dhabarde, Kolhe & Sheikh, 2005: 143, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Singhpur, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).
- SONNERATIA** Linnaeus, 1782
SONNERATIACEAE
- ♦*Sonneratia wood with endogeneous fungi*, Srivastava & Ambwani 2002: 107, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Ghansor, near Binori Reserve Forest, Seoni District, Madhya Pradesh.
- Sonneratia meghalayensis** Ambwani, 1991: 142, fig. 1 E, PALAEOCENE, Cherrapunji, West Khasi Hills District, Meghalaya.
- SONNERATIOXYLON** Hofmann, 1952
SONNERATIACEAE
- Sonneratioxylon preapetalum** Awasthi emend Mehrotra 1989a: 129-130, pl. 1, figs 1-5, MAESTRICHTIAN - DANIAN (PALAEOCENE - EOCENE*) (Deccan Intertrappean beds) Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh; Guleria 1991: 5, pl. 1, figs 4, 6, 8, ?EOCENE, Rajpardi Lignite Mine, Bharuch District, Gujarat; Reddy 1992: 86, pl. 2, figs 10-12, MIOCENE, Neyveli Lignite Mine I, South Arcot District, Tamil Nadu. Agarwal 1996: 229, pl. 1, figs 1-4, MIOCENE, Neyveli Lignite Mine I, South Arcot District, Tamil Nadu
- Sonneratioxylon intertrappeum* Biradar & Mahabale 1975: 217, pl. 1, figs 1-15, text-figs 1-16, EARLY TERTIARY (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.
- Sonneratioxylon caeseolarioides* Shete & Kulkarni 1982: 71-72, pl. 3, figs 15-23, pl. 4, figs 24-31, EARLY TERTIARY (Deccan Intertrappean beds), Nawargaon-Maragsur, Wardha District, Maharashtra
- Sonneratioxylon nawargaonsis* Bande & Prakash 1984: 109, pl. 3, figs 11-14, EARLY TERTIARY (Deccan Intertrappean beds), Nawargaon, Wardha District, Maharashtra.

SOPHORA Linnaeus, 1753 **FABACEAE**
(**LEGUMINOSAE**)

Sophora benthamii Sterm. Srivastava & Srivastava 1998: 95-96, figs 1, 4, text-fig. 3, LATE CENOZOIC, Birha River Section, Mahuadanr Valley, Palamu District, Bihar.

SPERMATITES Minor emend. Binda & Nambudiri, 1983 **INCERTAE SEDIS**

Spermatites Minor emend. Binda & Nambudiri. Tripathi & Sharma 2000b: 181, fig. 1 A-B, EOCENE, Lignite deposits Barsingsar and Giral of Bikaner and Barmer Districts, Rajasthan. Tripathi 2002: 331, fig. 1 A-B, F, EOCENE, Lignite deposits of Barmer District, Rajasthan.

SPONDIAS Linnaeus, 1753 **ANACARDIACEAE**

Spondias pinnata (L. f.) Kurz. (syn. *S. Mangifera* Willd.) Bande & Srivastava 1990: 342, pl. 5, figs 1-2, 4-5, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.

STERCULIA Linnaeus, 1753 **STERCULIACEAE**

♦ *Sterculia diversifolia* (Leaf), Khare, Prasad & Srivastava 2003: 84, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Chhindwara District, Madhya Pradesh.

Sterculia kathgodamense Prasad 1994a: 65, pl. 5, figs 3-4, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

Sterculia palaeovilosa (Fruit), Mehrotra 2000c: 1482, fig. 1a, OLIGOCENE (Tikak Parbat Formation), Makum Coalfield, Tinsukia District, Assam.

Sterculia sp. Mathur & Mathur 1998: 131-132, pl. 1, fig. 1, NEOGENE (Mar Formation), Inda Ka Bala, Bikaner District, Rajasthan.

Sterculia villosa Roxb. Bande & Srivastava 1990: 336, pl. 2, fig. 1, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.

Sterculiaceae gen. et sp. indet., Mathur, Mishra & Mehra 1996: 32, pl. 4, figs 1-3, OLIGOCENE (Dagshai Formation), near Kumarhatti, Kalka-Shimla Highway, Solan District, Himachal Pradesh.

STERCULINIUM Guleria, 1983
STERCULIACEAE

Sterculinium foetidense Prakash. Prasad 1993a: 59, pl. 3, figs 3-4, pl. 4, figs 1-4, MIDDLE MIOCENE (Lower Siwalik), Kanandroo Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).

Sterculinium jairampureense Awasthi & Mehrotra 1997: 113, pl. 2, figs 10-14, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh.

Sterculinium kalagarhense (Trivedi & Ahuja) Guleria. Prasad 1993a: 58, pl. 3, figs 1-2, pl. 4, fig. 5, MIDDLE MIOCENE (Lower Siwalik), Hathia Sot, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**).

STERCULIOXYLON Krausel, 1939
STERCULIACEAE (Nom. rejected)

Sterculioxylon sp. Reddy 1989: 133-134, pl. 1, figs 1-7, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu. (*Nomen nudum*).

SWINTONIA Griffith, 1846 **ANACARDIACEAE**

Swintonia miocenica Awasthi & Prasad. Antal & Prasad 1996b: 6, pl. 2, figs 1, 5, MIDDLE MIOCENE (Lower Siwalik), Sevok road section on left bank of Tista River (near Tista Bridge), Darjeeling District, West Bengal.

Swintonia palaeoschwenckii Prasad & Awasthi. Agarwal 2002: 170, pl. 1, fig. 8, pl. 2, fig. 1,

- MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- SYZYGIUM** Gaertner, 1788 **MYRTACEAE**
- Syzygium kasauliensis** Guleria & Srivastava. Arya, Guleria & Srivastava 2001: 64, figs 2 A, C, LOWER MIOCENE (Kasauli Formation), Near Shiv Mandir on Kasauli-Jangeshu road, Solan District, Himachal Pradesh.
- Syzygium nangwalbibrensis** Mehrotra 2000a: 232-233, pl. 2, figs 5-6, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya.
- Syzygium palaeobracteatum** Awasthi & Lakhanpal 1990: 282, pl. 1, fig. 11, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.
- Syzygium palaeocuminii** Prasad & Awasthi. Antal & Prasad 1998: 102, pl. 2, fig. 4, MIDDLE MIOCENE (Lower Siwalik), Sevok Road Section, about 2 km from Tista River bridge towards Oodlabari, Darjeeling District, West Bengal; Agarwal 2002: 189-190, pl. 12, figs 4-5, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- TABERNAEMONTANA** Linnaeus, 1753
APOCYNACEAE
- Tabernaemontana misraii** Mathur, Mishra & Mehra 1996: 47, pl. 15, fig. 3, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- Tabernaemontana sahnii** Mathur, Mishra & Mehra 1996: 48, pl. 15, figs 5-6, LOWER MIOCENE (Kasauli Formation), near Daghota, Kalka-Shimla Highway, Solan District, Himachal Pradesh.
- TECTONOXYLON** Roy & Mukhopadhyay, 2005
VERBENACEAE
- Tectonoxylon tertiarum** Roy & Mukhopadhyay 2005: 221-222, pl. 1, figs 1-7, MIOCENE (Tipam Series), Dubrajpur, Birbhum District, West Bengal.
- TEPHROSIA** Persoon, 1807 **FABACEAE**
(LEGUMINOSAE)
- Tephrosia kasauliensis** Srivastava & Guleria 2004b: 100, pl. 1, figs 7, 9, LOWER MIOCENE (Kasauli Formation), Behind Kasauli Bus Stand, Solan District, Himachal Pradesh.
- TERMINALIA** Linnaeus, 1767 **COMBRETACEAE**
- ♦ **Terminalia** (Leaf), Srivastava & Guleria 2001: 44, LOWER MIOCENE (Kasauli Formation), Solan District, Himachal Pradesh; Guleria 2002: 90, PALAEOCENE - EARLY EOCENE, Giral Lignite Mine, Barmer District, Rajasthan; (Wood), Guleria 1991b: 40, ?PLIOCENE (Mar Formation), Bikaner District, Rajasthan.
- Terminalia balugoloensis** Lakhanpal & Awasthi 1992: 50, pl. 1, fig. 2, MIDDLE MIOCENE (Lower Siwalik), Balugoloa near Jawalamukhi, Kangra District, Himachal Pradesh.
- Terminalia miobelerica** Prasad 1994a: 77, pl. 8, figs 5-6, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttarakhand, (Uttar Pradesh**); Antal & Prasad 1999: 95, 97, pl. 4, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Sevok road section after crossing Tista River bridge about 2.5 km towards Washbari, Darjeeling District, West Bengal; Agarwal 2002: 177, pl. 5, figs 3-4, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Terminalia neyveliensis** Agarwal 2002: 178, pl. 6, figs 1-2, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Terminalia obovata** Awasthi & Mehrotra 1995: 174, pl. 9, fig. 4, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam.

- Terminalia palaeocatappa** Awasthi & Mehrotra 1995: 176, pl. 10, fig. 1, pl. 11, figs 1-2, 5, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam; Mehrotra 2000a: 231-232, pl. 1, fig. 6, UPPER PALAEOCENE (Tura Formation), Nangwalbibra near Williamnagar, East Garo Hills District, Meghalaya; Agarwal 2002: 179, pl. 6, figs 5-6, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu; Jhoshi, Tewari, Mehrotra, Chakraborty & De 2003: 320, 323, fig. 2 a-e, fig. 3 a, UPPER PLIOCENE - PLEISTOCENE (Upper Siwalik), West Kameng District, Arunachal Pradesh.
- Terminalia palaeochebula** Awasthi & Prasad. Awasthi & Mehrotra 1995: 174, pl. 7, fig. 4, OLIGOCENE, Ledo-Tirap Colliery, Makum Coalfield, Tinsukia District, Assam; Agarwal 2002: 177, pl. 5, fig. 1, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Terminalia palaeopaniculata** Agarwal 2002: 176, pl. 7, figs 1-3, MIOCENE, Neyveli Lignite Deposit Mine I, South Arcot District, Tamil Nadu.
- Terminalia panandthroensis** Lakhanpal & Guleria. Ambwani 1991: 144, fig. 2 H, PALAEOCENE, Cherrapunji, West Khasi Hills District, Meghalaya; Guleria 1994: 55, fig. 1, LOWER EOCENE, Rajpardi Lignite Mine, Bharuch District, Gujarat; Awasthi & Mehrotra 1995: 176, pl. 8, fig. 1, pl. 9, fig. 1, OLIGOCENE, Tirap Colliery near Ledo, Makum Coalfield, Tinsukia District, Assam.
- Terminalia praechebula** Agarwal 2005: 86-87, fig. 3 A-B, MIOCENE, Kalviwadi, Sindhudurg District, Maharashtra.
- Terminalia precatappa** Tiwari & Mehrotra 2002: 72, fig. 2 E, OLIGOCENE (Barail Group), sandy shale horizon, locality no. 2, Champhai-Aizawl Road, Mizoram.
- Terminalia sesawngensis* (Fruit), Agarwal & Mandaokar 2002a: 81, EARLY MIOCENE (Bhuban Formation), Sesawng, Aizawl District, Mizoram. (*Nomen nudum*).
- ♦ *Terminalia* sp. , Mishra & Mathur 1992: 198, fig. 111 c, OLIGOCENE (Dagshai Formation), Himachal Pradesh.
- Terminalia tomentosa** Wight & Arn. Bande & Srivastava 1990: 350, pl. 7, figs 1-3, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar; Srivastava & Bande 1992: 334, pl. 1, figs 1-4, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.
- TERMINALIOXYLON** Schonfeld, 1947
COMBRETACEAE
- Terminalioxylon belericum** Prakash, Du & Tripathi. 1992: 6, pl. 2, figs 16-18, pl. 3, figs 19, 21, text-figs 6-8, MIDDLE MIOCENE (Tipam Sanstones), Diphu, Karbi Anglong District, Assam; Mehrotra, Awasthi & Dutta 1999: 242-243, pl. 8, figs 3-6, LATE MIOCENE - PLIOCENE (Siwalik), Ghogra River Section, Siang District, Arunachal Pradesh.
- Terminalioxylon bikanerense** Harsh, Sharma & Suthar 1992: 93-94, figs 3 A-B, fig. 4 A, C, TERTIARY, Harsolav, Bikaner District, Rajasthan.
- Terminalioxylon burmense** Madel & Müller-Stoll. Awasthi & Mehrotra 1997: 117, pl. 4, figs 31-33, UPPER MIOCENE (Tipam Group), Namchik River bed near Jairampur, Tirap District, Arunachal Pradesh.
- Terminalioxylon eo-olivari** Harsh, Sharma & Suthar 1992: 96, figs 3 C-F, fig. 4 D-G, TERTIARY, Harsolav, Bikaner District, Rajasthan.
- Terminalioxylon felixi** Reddy 1992: 86, pl. 2, figs 6-9, MIOCENE, Neyveli Lignite Mine I, South Arcot District, Tamil Nadu.
- Terminalioxylon palaeocalamansanai** Guleria 1991: 2, 4, pl. 1, figs 1-3, 5, 9, ?EOCENE,

- Rajparddi Lignite Mine, Block No. 13, Bharuch District, Gujarat.
- Terminalioxylon siwalicus** Prasad 1989: 136, pl. 1, fig. 6, pl. 2, figs 7, 9, MIDDLE MIOCENE (Lower Siwalik), Nungarh Nala, Kalagarh, Pauri Garhwal District, Uttaranchal (Uttar Pradesh**); Guleria, Srivastava, Nanda & Sehgal 2005: 611, pl. 1, figs 1-4, MIDDLE MIOCENE (Lower Siwalik; Chinji Formation), near village Bharal, Naraingarh Tehsil, Ambala District, Haryana; Sen & Bera 2005, 70, pl. 1, figs 1-4, UPPER MIOCENE (Upper Tipam Formation), Champanagar, Agartala District, Tripura.
- Terminalioxylon varkalensis** Awasthi & Ahuja. Agarwal 1998: 29,31, pl. 1, figs 1-4, MIOCENE, Neyveli Lignite Deposits, South Arcot District, Tamil Nadu.
- Terminalioxylon vasicentricum** Harsh, Sharma & Suthar 1992: 98, fig. 3 G-H, fig. 4 H-K, TERTIARY, Harsolav, Bikaner District, Rajasthan.
- TETRAMELEOXYLON** Lakhanpal & Verma, 1966
DATISCEAE
- Tetrameleoxygen prenudiflora** Lakhanpal & Verma. Acharya & Roy 1989: 246, fig. 2 A-E, MIOCENE, Aduria Forest, Burdwan District, West Bengal; Bera & Banerjee 2001: 184-185, pl. 5, figs 7-12, text-figs 8-9, LATE PLIOCENE - EARLY PLEISTOCENE (Bengal Basin), Uttar Raipur, Birbhum District, West Bengal.
- THAYERIORHIZOMOXYLON* Patil & Datar, 2000
= **ACROSTICHUM** Linnaeus 1753
POLYPODIACEAE (PTERIDOPHYTA)
- Thayeriorhizomoxylon chandraii* Patil & Datar 2000
= **Acrostichum intertrapeum** Bonde & Kumaran 2002b
- THELYPTERIDACEOPHYLLUM** Joshi & Mehrotra, 2003 **THELYPTERIDACEAE (PTERIDOPHYTA)**
- Thelypteridaceophyllum tertiarum** Joshi & Mehrotra 2003: 485, fig. 2 a-c, MIDDLE - UPPER MIOCENE (Lower Siwalik), Left bank of Pakke River, East Kameng District, Arunachal Pradesh.
- TOONA** (Endlicher) M. J. Roemer, 1846
MELIACEAE
- Toona siwalika** Awasthi & Lakhanpal 1990: 279-280, pl. 1, fig. 6, MIDDLE PLIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar; Prasad 1994a: 67, pl. 6, fig. 3, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).
- Tracheary elements**, Tripathi & Sharma 2000a: 87, 89, figs 1 A-D, EOCENE, Lignite deposits of Giral and Barsingsar, Barmer and Bikaner Districts, Rajasthan.
- TRACHYLOBIUM** Hayne, 1827 **FABACEAE (LEGUMINOSAE)**
- Trachylobium tertiarum** Ambwani 1991: 140, fig. 1 B, PALAEOCENE, Cherrapunji, West Khasi Hills District, Meghalaya.
- ♦ *Tree trunk*, Guleria, Srivastava & Misra 2005: 146, MAESTRICHTIAN-DANIAN (Deccan Traps), Kandwa District, Madhya Pradesh.
- TREMAOXYLON** Udhoji & Verma, 1990
ULMECEAE (Nomen nudum)
- Tremaoxylon* sp. , Udhoji & Verma 1990: 99, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon, Dindori (Mandla**) District, Madhya Pradesh. (*Nomen nudum*).
- TRIALATA** Dixit, 1998 **MALPIGHIACEAE**
- Trialata malpighiacea** Dixit 1998: 7-8, text-figs 1-7, MAESTRICHTIAN - DANIAN (UPPERMOST CRETACEOUS*) (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh.

TRICHILIA P. Browne, 1756 **MELIACEAE**

♦ *Trichilia coronoides* C. D. C. (Leaf), Prasad 2002: 95, MIDDLE MIOCENE (Lower Siwalik), Ranital and Bilaspur District, Himachal Pradesh.

Trichilia miocenica Prasad 1994a: 66-67, pl. 6, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

TRILOCULOCARPON Kapgate, 1990
MONOCOTYLEDONAE

Triloculocarpum mahabalei Kapgate 1990a: 75, pl. 1, figs 1-6, text-figs 1-13, MAESTRICHTIAN - DANIAN (UPPER MOST CRETACEOUS - LOWER EOCENE*), (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Maharashtra.

TRIMMATOSTROMA Corda, 1837
HYPHOMYCETES (FUNGI)

Trimmatostroma intertrappea Patil & Datar 2002: 31, pl. 1, 1-8, MAESTRICHTIAN - DANIAN (LATE CRETACEOUS-PALAEOCENE*) (Deccan Intertrappean Beds), Nawargaon-Maragsur area, Wardha District, Maharashtra.

TURRAENTHUS Baillon, 1874 **MELIACEAE**

Turraenthus deccanensis Awasthi, Mehrotra & Srivastava 1996: 114, 116, pl. 2, figs 2-6, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS - PALAEOCENE*) (Deccan Intertrappean beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh.

UNCINIOXYLON Datar & Patil, 2005 **CYPERACEAE**
(*Nomen nudum*)

Uncinioxylon mahabaleii Datar & Patil, 2005: 142, MAESTRICHTIAN - DANIAN (UPPER CRETACEOUS - PALAEOCENE*) (Deccan Intertrappean beds), Wardha District, Maharashtra. (*Nomen nudum*).

UNCOBIA Linnaeus, **FLACOURTIACEAE**

Uncobia palaeospinosa Prasad 1994a: 59, 61, pl. 3, figs 3-4, MIDDLE MIOCENE (Lower Siwalik), Gola River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

UNILOCULOCARPON Narkhede & Qurashi, 2004
INCERTAE SEDIS (Nomen nudum)

Uniloculocarpum singhpurii Narkhede & Qurashi 2004: 47, MAESTRICHTIAN - DANIAN (Deccan Intertrappean Beds), Singhpur, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).

UNONASPERMUM Bonde, 1993
ANNONACEAE

Unonaspermum corneri Bonde 1993: 251, pl. 1, figs 1-2, text-figs 1-5, MAESTRICHTIAN - DANIAN (Deccan Intertrappean Beds), Nawargaon, Wardha District, Maharashtra.

URENA Linnaeus, 1753 **MALVACEAE**

Urena palaeolobata Awasthi & Lakhanpal 1990: 278-279, pl. 1, figs 1-4, MIDDLE MIOCENE (Upper Siwalik), Bhikhnathoree, West Champaran District, Bihar.

UVARIA Linnaeus, 1753 **ANNONACEAE**

Uvaria ghishia Antal & Prasad 1999: 88-89, pl. 1, fig. 1, MIDDLE MIOCENE (Lower Siwalik), Ghish river about one km upstream on right side from its mouth near Oodlabari, Darjeeling District, West Bengal.

Uvaria siwalika Prasad 1994a: 57, pl. 1, figs 5-6, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

VENTILAGO Gaertner, 1788 **RHAMNACEAE**

Ventilago tistaensis Antal & Prasad 1998: 100, 102, pl. 2, fig. 3, MIDDLE MIOCENE (Lower Siwalik), Sevok Road Section, about 2 km

from Tista River bridge towards Oodlabari, Darjeeling District, West Bengal.

VERNONIA Schreber, 1791 **ASTERACEAE**

Vernonia palaeoarborescens Antal & Awasthi 1994: 40, pl. 13, fig. 1, MIDDLE MIOCENE (MIDDLE MIOCENE - PLIOCENE*) (Lower Siwalik) (Lower-Middle Siwalik*), right bank of upstream of Ghish River near Oodlabari, Darjeeling District, West Bengal; Tiwari & Mehrotra 2002: 72, fig. 2 A, OLIGOCENE (Barail Group), sandy shale horizon, locality no. 3, Champai-Aizwal Road, Mizoram.

VITEX Linnaeus, 1753 **VERBINACEAE**

Vitex negundo Linn. var. **incisa** Clarke. Srivastava, Mishra & Bande 1992: 232, pl. 2, figs 3, 7, LATE CENOZOIC, Mahuadanr, Palamu District, Bihar.

WALSURA Roxburgh, 1832 **MELIACEAE**

Walsura deccanensis Mehrotra 1989b: 207, 209, pl. 1, figs 1-5, MAESTRICHTIAN - DANIAN (EARLY TERTIARY*) (Deccan Intertrappean Beds), Ghughua near Shahpura, Dindori (Mandla**) District, Madhya Pradesh

WINGOSPERMOCARPON Kapgate, 2002 INCERTAE SEDIS

Wingospermocarpon arilies Kapgate, 2002: 27, MAESTRICHTIAN - DANIAN (Deccan Intertrappean beds), Mohgaon Kalan, Chhindwara District, Madhya Pradesh. (*Nomen nudum*).

Wood cast Mandaokar & Ambwani 2005: 261, 263, fig. B, OLIGOCENE – MIOCENE, Namchick river section, Tirap District, Arunachal Pradesh.

WRIGHTIA R. Brown, 1810 **APOCYNACEAE**

Wrightia siwalica Prasad 1994a: 81-82, pl. 11, figs 1-2, MIDDLE MIOCENE (Lower Siwalik), Balia River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

XANTHOPHYLLUM Roxburgh, 1819-20 **XANTHOPHYLLACEAE**

Xanthophyllum mioflavescens Antal & Prasad 1996b: 2, pl. 2, fig. 3, pl. 3, fig. 6, MIDDLE MIOCENE – PLIOCENE (Lower Siwalik), right bank of upstream (about 2 km) of Ramthi River near Oodlabari, Darjeeling District, West Bengal.

ZIZIPHUS Miller, 1754 **RHAMNACEAE**

Zizyphus oxyphylla Edgew. Guleria 1992a: 304, pl. 1, figs 1-6, ?PLIOCENE (Mar Formation), about 1 km from Nathusar Gate towards Karmisar village on the outskirts of Bikaner city, Bikaner District, Rajasthan.

ZIZYPHUS Adanson, 1763 **RHAMNACEAE**

Zizyphus ambabagholiense Gaykwad & Patil 1993: 28-29, pl. 1, figs 1-4, text-figs 1-6, MAESTRICHTIAN - DANIAN (EOCENE*) (Deccan Intertrappean beds), Ambabagholi, Betul District, Madhya Pradesh.

Zizyphus kathgodamensis Prasad 1994a: 69, pl. 5, fig. 9, MIDDLE MIOCENE (Lower Siwalik), Gola River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

Zizyphus miocenicus Prasad 1994a: 67, pl. 5, figs 6-7, MIDDLE MIOCENE (Siwalik Formation), Gola River bed, Kathgodam, Nainital District, Uttaranchal (Uttar Pradesh**).

Zizyphus palaeoapetala Antal & Prasad 1998: 99-100, pl. 2, figs 1-2, MIDDLE MIOCENE (Lower Siwalik), Lish River, near Bagrakot and Sevok Road Section, about 2 km from Tista River bridge towards Oodlabari, Darjeeling District, West Bengal.

Zizyphus cf Z. rugosa Lamark. Prasad 1994c: 85, pl. 1, figs 1-3, MIOCENE-PLIOCENE (Middle Siwalik), Hardwar District, Uttaranchal (Uttar Pradesh**).

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