

28. A CONTRIBUTION TO THE VEGETATION OF CHAIBASA
(NORTH), SINGHBHUM DIST. (NORTH BIHAR)

91 more plants under 84 genera collected from Chaibasa (North) forest have been accounted for in this paper. Of these 11 species are monocotyledons and 80 species are dicotyledons. 81 species under 71 genera collected from Chaibasa (South) forest are published in earlier works [*J. Bombay nat. Hist. Soc.* 77(2): 223-226].

ENUMERATION

In the following enumeration the system of Bentham and Hooker with some delimitations has been followed. Nomenclature has been as far as possible brought up to date. It may be noted that the following species were collected during the months of June-July 1980. The field numbers mentioned against the place of collections is indicative of the author's own contribution. The enumerated taxa have been deposited at N.B.S. Mahavidyalaya, Bishnupur, Bankura (West Bengal).

DICOTYLEDONS

RANUNCULACEAE

<i>Clematis gouriana</i> Roxb. ex Dc.	Biswas 10
<i>Thalictrum javanicum</i> Bl.	Biswas 22

MAGNOLIACEAE

<i>Michelia champaca</i> L.	Biswas 23
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ANONACEAE

<i>Desmos chinensis</i> Lour.	Biswas 44
<i>Polyalthia longifolia</i> (Sonn.) Thw.	Biswas 50
<i>P. cerasoides</i> (Roxb.) Bth. & Hk. f.	Biswas 61

NYMPHAEACEAE

<i>Nelumbo nucifera</i> Gaertn. <i>Nelumbium speciosum</i> Willd.	Biswas 72
<i>Nymphaea nouchali</i> Burm. f. <i>N. pubescens</i> Willd.	Biswas 82

PAPAVERACEAE

<i>Papaver somniferum</i> L.	Biswas 32
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CRUCIFERAE

<i>Brassica juncea</i> (L.) Czern. <i>B. nigra</i> Koch	Biswas 2
<i>Coronopus didymus</i> (L.) Sm. <i>Lepidium didymum</i> L.	Biswas 25
<i>Raphanus sativus</i> L.	Biswas 34

CAPPARACEAE

<i>Cleome viscosa</i> L.	Biswas 39
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BOMBACACEAE

<i>Bombax ceiba</i> L. <i>B. malabaricum</i> DC.	Biswas 15
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MALVACEAE

<i>Pavonia odorata</i> Willd.	Biswas 52
<i>Sida cordifolia</i> L.	Biswas 73
<i>S. acuta</i> Burm. f.	Biswas 67

STERCULIACEAE

<i>Melochia corchorifolia</i> L.	Biswas 70
<i>Pterospermum acerifolium</i> Willd.	Biswas 55

TILIACEAE

<i>Corchorus aestuans</i> L. <i>C. acutangulus</i> Lamk.	Biswas 1
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RUTACEAE

<i>Aegle marmelos</i> (L.) Corr.	Biswas 7
<i>Limonia acidissima</i> L.	
<i>Feronia elephantum</i> Corr.	Biswas 12

MELIACEAE

<i>Azadirachta indica</i> A. Juss.	
<i>Melia azadirachta</i> L.	Biswas 62
<i>Chloroxylon swietenia</i> DC.	Biswas 3
<i>Swietenia mahogani</i> Jacq.	Biswas 13

RHAMNACEAE

<i>Zizyphus oenoplia</i> (L.) Mill	Biswas 53
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VITACEAE

<i>Cayratia pedata</i> (Lamk.) Juss. ex Gagnep.	
<i>Cissus pedata</i> Lamk.	Biswas 85
<i>Cissus quadrangula</i> L.	
<i>C. setosa</i> Roxb.	Biswas 29

SAPINDACEAE

<i>Cardiospermum halicacabum</i> L.	Biswas 26
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ANACORDIACEAE

<i>Buchanania lanzan</i> Spreng.	Biswas 11
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PAPILIONACEAE

<i>Abrus precatorius</i> L.	Biswas 9
<i>Clitoria ternatea</i> L.	Biswas 14
<i>Crotalaria juncea</i> L.	Biswas 8
<i>Desmodium motorium</i> (Houtt.) Merr.	
<i>D. gyrans</i> (L. f.) DC.	Biswas 4
<i>Erythrina variegata</i> L.	
<i>E. indica</i> Lamk.	Biswas 56
<i>Tephrosia purpurea</i> (L.) pers.	Biswas 60

CAESALPINIACEAE

<i>Cassia occidentalis</i> L.	Biswas 31
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<i>Caesalpinia pulcherrima</i> (L.) SW.	Biswas 58
<i>Peltophorum pterocarpum</i> (DC.) Baker ex. K. Heyne	
<i>P. ferrugineum</i> Benth.	Biswas 5
<i>Saraca asoca</i> (Roxb.) De Wilde	Biswas 6

MIMOSACEAE

<i>Acacia nilotica</i> (L.) Willd. ex Del. Subsp. <i>indica</i> (Benth.) Brenm.	Biswas 18
<i>A. auriculiformis</i> A. Cunn.	Biswas 42
<i>Mimosa pudica</i> L.	Biswas 63
<i>Pithecellobium dulce</i> (Roxb.) Benth.	Biswas 16

ONAGRACEAE

<i>Centella asiatica</i> (L.) Urban.	
<i>Hydrocotyle asiatica</i> L.	Biswas 19
<i>Ludwigia prostrata</i> Roxb.	Biswas 35
<i>L. perennis</i> L.	Biswas 17
<i>Oenanthe javanica</i> (Bl.) DC.	
<i>O. benghalensis</i> Benth. and Hk. f.	Biswas 30

RUBIACEAE

<i>Borreria articularis</i> (L.f.) Williams	
<i>Spermacoce hispida</i> L.	Biswas 38
<i>Ixora arborea</i> Roxb. ex Smith	
<i>I. parviflora</i> Vahl	Biswas 33
<i>I. coccinea</i> L.	Biswas 83
<i>Pavetta indica</i> L.	Biswas 20

COMPOSITAE

<i>Blumea lacera</i> (Burm. f.) DC.	Biswas 21
<i>Tridax procumbens</i> L.	Biswas 36

OLEACEAE

<i>Jasminum arborescens</i> Roxb.	Biswas 37
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APOCYNACEAE

<i>Nerium indicum</i> Mill.	Biswas 27
<i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz	Biswas 64

MISCELLANEOUS NOTES

ASCLEPIADACEAE

- Calotropis procera* (Willd.)
Dryand ex W. Ait. Biswas 28
Pergularia daemia (Forsk.) Choiv.
Daemia extensa R. Br. Biswas 54

GENTIANACEAE

- Canscora diffusa* (Vahl.) R. Br. ex
Roem and Schult. Biswas 59

BORAGINACEAE

- Cordia dichotoma* Forst. f. Biswas 68
Heliotropium indicum L. Biswas 40
H. ovalifolium Forsk. Biswas 86

CONVOLVULACEAE

- Cuscuta reflexa*. Roxb. Biswas 71
Ipomea aquatica Forsk.
Ipomea reptans poir Biswas 74

SCROPHULARIACEAE

- Lindernia ciliata* (Colsm.) Pennell.
Bonnaya brachiata Link. Otto Biswas 75
Limnophila heterophylla (Roxb.)
Benth. Biswas 89

ACANTHACEAE

- Barleria prionitis* L. Biswas 90
Hygrophila auriculata (Schum.)
Heine Biswas 77
Rungia pectinata (L.) Nees
R. parviflora (Retz.) Nees var.
pectinata (L.) Cl. Biswas 91

VERBENACEAE

- Clerodendrum viscosum* vent.
C. infortunatum auct pl. (non L.) Biswas 78
Tectona grandis L. f. Biswas 43

LABIATAE

- Hyptis suaveolens* (L.) Poit. Biswas 45

AMARANTHACEAE

- Amaranthus spinosus* L. Biswas 47
A. viridis L. Biswas 49

EUPHORBIACEAE

- Acalypha indica* L. Biswas 51
Antidesma ghesmbilla Gaertn. Biswas 81
Croton bonplandianum Baill
C. sparsiflorum Morang Biswas 76
Jatropha gossypifolia L. Biswas 53
Phyllanthus fraternus webster
P. niruri Hook. f. Biswas 54

MONOCOTYLEDONS

HYDROCHARITACEAE

- Hydrilla verticillata* (L. f.) Royle Biswas 87

ORCHIDACEAE

- Vanda tessellata* (Roxb.) Hk. ex
G. Don *V. roxburghii* R. Br. Biswas 57

AMARYLLIDACEAE

- Curculigo orchiodes* Gaertn. Biswas 65

COMMELINACEAE

- Amischophacelus axilloris* (L.) Rolla Rao
and Kamm. *Cyanotis axillaris* (L.)
Roem and Schult. Biswas 69
Commelina appendiculata Cl. Biswas 41
C. benghalensis L. Biswas 66

CYPERACEAE

- Fimbristylis spathacea* Roth Biswas 24

POACEAE

ACKNOWLEDGEMENT

<i>Arundinella setosa</i> Trin.	Biswas 80
<i>Chrysopogon aciculatus</i> (Retz.) Trin.	
<i>Andropogon aciculatus</i> Retz.	Biswas 88
<i>Eragrostis coarctata</i> Stapf	Biswas 46
<i>Sclerostachya fusca</i> (Roxb.)	
A. Camus	Biswas 48

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August 12, 1982.

DILIP KUMAR BISWAS

29. OCCURRENCE OF *DESMODIUM SCORPIURUS* (SWARTZ)
DESVAUX IN WESTERN INDIA

(With five text-figures)

During routine plant collection around Pune, an unusual plant of *Desmodium* type was noticed. It showed quite different morphological features and we could not match it with any species of Papilionaceae occurring in Maharashtra. It grows near hedges among grasses and low shrubs. It thrives well in coarse soils. So far a single patch of this species has been observed in the Pune Municipal area. The plant has been identified as *Desmodium scorpiurus* (Sw.) Desv. and described as follows:

Desmodium scorpiurus (Sw.) Desv. Journ. Bot. 1: 122, 1813; DC. Prodr. 2: 333, 1825; Schubert, Fl. Peru, 8: 433, 1943; *Hedysarum scorpiurus* Sw. Prodr.: 107, 1788; *Meibomia scorpiurus* (Sw.) O. Ktze. Rev. Gen. 1: 198, 1891; *Nissoloides cylindrica* M. E. Jones, Contr. West. Bot. 18: 135, 1935 (Figs. 1 to 5). *Scorpiurus*, refers to the monoliform hairy pods showing much resemblance with the tail unit of the scorpion.

A diffuse straggling herb. Stem wiry, somewhat angled, grooved, ascending, covered with hooked hairs. Leaves trifoliate, alternate, glabrescent to puberulous; stipule foliaceous, 3-5 mm long, ovate, acuminate, amplexicaulauriculate at base; leaf rachis 3-7 cm long; petioles $\pm$ 1 mm; stipules filiform, $\pm$ 1 mm long; lateral leaflets 3-7 cm by 1.5-4.0 cm, ovate-oblong, or elliptic-oblong, obtuse; terminal leaflets 2.0-6.0 cm by 1.5-4.5 cm, elliptic or obovate, obtuse; main nerves 5-7 pairs; conspicuous beneath; leaflets sparsely hairy on both surfaces, more dense beneath with a few hooked hairs. Flowers in terminal and axillary racemes of 15-20 cm length, laxly arranged in few flowered (2-4) fascicles; pedicels filiform, 3-6 mm long, puberulous; bracts 2-3 mm long, persistent, lanceolate, acute, ciliate; calyx 2 mm long, hairy; teeth about as long as the tube, linear, acute, ciliate; corolla 3-4 mm long, standard white, wing purplish or white diffused with violet, ultimately fading to lemon-yellow;



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