

Macrophytic flora of Gossaihat Beel, Jalpaiguri Forest Division, West Bengal, India: I. Magnoliopsida

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Abstract

A botanical survey on aquatic vegetation at Gossai Hat Beel, Moraghat Range in Jalpaiguri Forest Division was carried out the first time on 18th March, 2012. A total of 176 species of Magnoliopsida covering 129 genera from 45 families were recorded from the water and from the moist surroundings. Of these, 44 species are fully aquatic and 132 species are marginal terrestrial. Voucher specimens are submitted to the NBU Herbarium.

Key words: Magnoliopsida, Aquatic vegetation, Gossai Hat Beel

INTRODUCTION

A botanical survey on aquatic vegetation at Gossai Hat Beel, Moraghat Range in Jalpaiguri Forest Division was carried out on 18th March, 2012. Geographical position of central part of the Beel is 26°41.41' North latitude and 88°59.23' East longitude with an area of about 15 Hecters. The vegetation type of the Beel and its surrounding Moraghat Forest are very similar to the vegetation of Foothills and Duars region of Jalpaiguri District. The climate and topography of the region made itself a beautiful natural habitat for native and migratory birds and fishes. Hooker (1872 – 1897) and Cowan & Cowan (1929) previously worked on the foothill part of this region. Recently Grierson & Long (1983 – 2001), Noltie (1994, 2000), Pearce & Cribb (2002), Das *et al* (2010 a,b) worked on the flora of Duars region and Banerjee (1993), Das *et al* (2003) worked on the floral structure of nearby Jaldapara Wildlife Sanctuary. Bandyopadhyay & Mukherjee (2005) made detailed survey on aquatic plants of Cooch Behar district. The Moraghat Forest Range is very near to the Darjeeling Hills and became a part of the IUCN recognized Himalaya Biodiversity Hotspot. The basic vegetation structure of this region is broadleaf evergreen forest and mixed deciduous forest (Champion & Seth 1968) and the northern part of the Beel is *Phragmites* dominated grassland.

METHODOLOGY

Random survey was made throughout the beel area. Immersed, submerged, floating and marginal, all category plant species were collected and tagged immediately. Collected specimens were processed and identified through conventional techniques (Jain & Rao 1977) in the Taxonomy and Environmental Biology Laboratory of the University of North Bengal. Preliminary identification of specimens were done using floras covering and nearby areas including Grierson & Long (1983, 1984, 1997, 1999, 2000, 2001), Noltie (1994, 2000), Bora & Kumar (2003), Anonymous (1997b), Anonymous (1993a, 1993b, 1993c, 1995a, 1995b, 1997a, 2000). Finally the specimens are matched and stored in the NBU Herbarium.

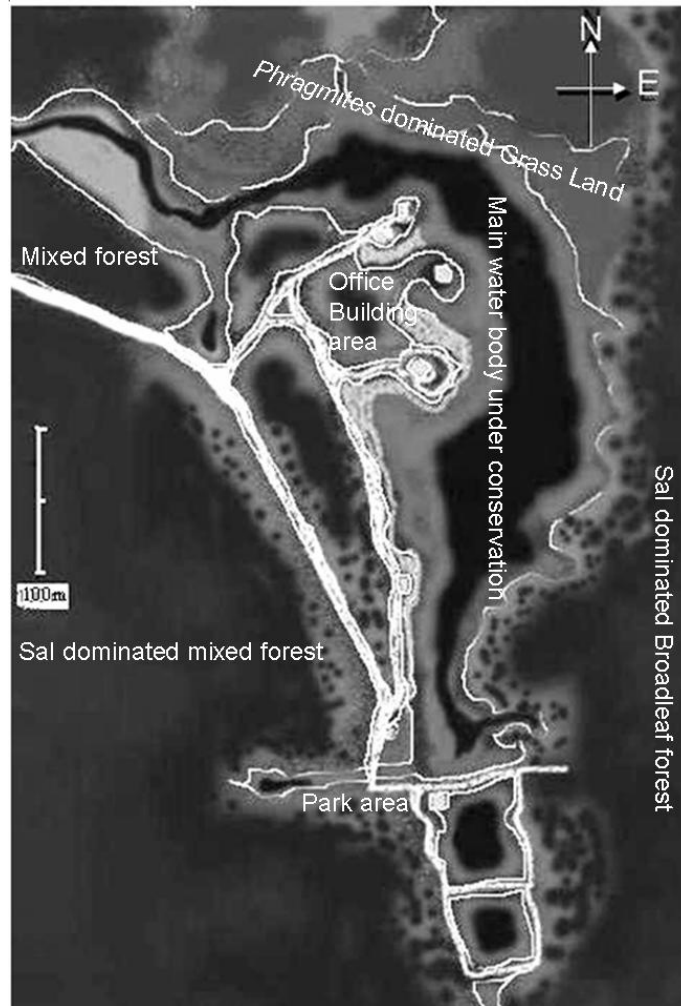


Fig. 1. Map of the Gossaihat Beel.

RESULT AND DISCUSSION

A total of 176 species of Magnoliopsida representing 129 genera and 45 families were recorded during the survey [ANNEXURE I]. This includes 138 species of herbs, 21 climbers, 15 shrubs and 2 trees. Out of these 5 species are free floating, 4 are rooted floating, 4 submerged, 31 emerged and 132 species are marginal to wetlands. Fig. 2 shows the hydrological classification of the recorded dicotyledonous plants and Fig. 3 shows their habit-group classification.

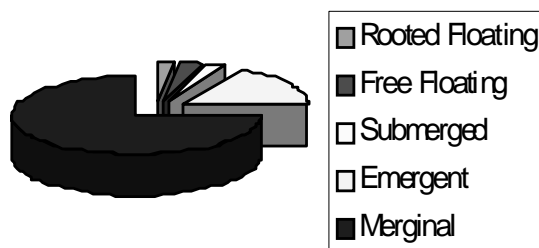


Fig. 2. Graphic representation of Hydrological classification

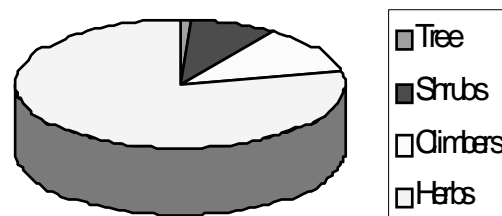


Fig. 3. Graphical representation of habit-group classification

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ANNEXURE - I

Check List of Magnoliopsida in the Gossaihat Beel

Acanthaceae

Asystasia gangetica (Linnaeus) T. Anderson in Thwaites, Enum. Pl. Zeyl. 235. 1860. *Justicia gangetica* Linnaeus, Amoen. Acad. 4: 299. 1759.

Exsiccattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 0983, 0984, dated 18. 03. 2012.

General Distribution: India, Bhutan, Thailand, Indo-China peninsula to Malaysia.

Asystasia macrocarpa Nees in Wallich, Pl. As. Rar. 3: 89. 1832.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0991*, dated 18. 03. 2012.

General Distribution: Subtropical Himalayas.

Dicliptera bupleuroides Nees in Wallich, Pl. Asiat. Rar. 3: 111. 1832.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0980*, dated 18. 03. 2012.

Distribution: India, Himalayas, Bangladesh, Afghanistan, Thailand, Indo-China.

Hygrophila phlomioides Nees in Wallich, Pl. Asiat. Rar. 3: 80. 1832.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0994*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Indonesia, Philippines, Indo-China, Pakistan.

Hygrophila polysperma (Roxburgh) T. Anderson, J. Linn. Soc., Bot. 9: 456. 1867. *Justicia polysperma* Roxburgh, Fl. Ind. 1:120. 1820.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0751, 0857, 0757, 0846, 0831*, dated 18. 03. 2012.

General Distribution: N. E. India, Bhutan, China, Malaysia.

Hygrophila salicifolia (Vahl) Nees in Wallich, Pl. Asiat. Rar.3: 81.1832. *Ruellia salicifolia* Vahl, Sym. Bot. 3: 84. 1794

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0988*, dated 18. 03. 2012.

General Distribution: India, Nepal, Bhutan, Chin, Japan.

Lepidagathis incurva Buchanan-Hamilton ex D. Don, Prodr. Fl. Nepal. 119. 1825.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0812*, dated 18. 03. 2012.

General Distribution: N. India, Bhutan, Indo-China, China, Myanmar, Malaysia, Philippines.

Nelsonia canescens (Lamarck) Sprengel, Syst. Veg. 1: 42. 1825. *Justicia canescens* Lamarck, Tabl. Encycl. 1: 41. 1791.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0844, 0866, 0727, 0881*, dated 18. 03. 2012.

General Distribution: India, Nepal, Bhutan, China, Tropical Asia, Africa, and Australia.

Phaulopsis imbricata (Frosskal) Sweet, Hort. Brit. ed. 1. 327. 1827. *Ruellia imbricate* Frosskal, Fl. Aegypt – Arab. 113. 1775.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0997, 0995*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Chin, Sri Lanka, Tropical Africa

Phlogacanthus thyrsiflorus (Hardwicke) Mabblerley in Bot. Hist. Hortus Malabaricus 83. 1980. *Justicia thyrsiformis* Hardwicke in Asiat. Res. 6: 349. 1799.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0999*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal.

Rungia pectinata (Linnaeus) Nees, Prodr. (DC.) 11: 470. 1847. *Justicia pectinata* Linnaeus, Cent. Pl. II 3. 1756.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0923, 0918*, dated 18. 03. 2012.

General Distribution: India, Nepal, Bhutan, China, Myanmar, Indo-China, Sri Lanka, Thailand.

Amaranthaceae

Achyranthes bidentata Blume, Bijdr. Fl. Ned. Ind. 545. 1826.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0981*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Japan, Korea, Laos, Malaysia, Myanmar, New Guinea, Philippines, Russia, Thailand, Vietnam.

Amaranthus lividus Linnaeus, Sp. Pl. 1: 990. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0996*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Himalayas, Myanmar, Indo-China, S. China.

Amaranthus spinosus Linnaeus, Sp. Pl. 2: 991. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1011, 1013*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to neotropics, now cosmopolitan in warm-temperate and tropical regions.

Amaranthus viridis Linnaeus, Sp. Pl. 2: 1405. 176.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0992*, dated 18. 03. 2012.

General Distribution: Pantropical.

Alternanthera paronychioides A. Saint-Hilaire, Voy. Distr. Diam. 2: 439. 1833.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1015*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to tropical America.

Alternanthera philoxeroides (C. Martius) Grisebach, Abh. Königl. Ges. Wiss. Göttingen 24: 36. 1879. *Bucholzia philoxeroides* C. Martius, Nov. Act. Acad. Caes. Leop.-Carol. Nat. Cur. 13(1): 107. 1825.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0811*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to South America.

Alternanthera sessilis (Linnaeus) R. Brown *ex* DC., Cat. Pl. Horti Monsp. 77. 1813. *Gomphrena sessilis* Linnaeus, Sp. Pl. 1: 225. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1009*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Thailand, Vietnam.

Deeringia amaranthoides (Lamarck) Merrill, Interpr. Herb. Amb. 211. 1917. *Achyranthes amaranthoides* Lamarck, Encycl. 1: 548. 1785.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1007, 1006*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Laos, Malaysia, Myanmar, Thailand, Vietnam; Australia.

Gomphrena celosioides C. Martius, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 13(1): 301. 1825.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1001*, dated 18. 03. 2012.

General Distribution: Pantropical.

Pupalia atropurpurea (Lamarck) Moquin-Tandon, Prodr. Syst. Nat. Reg. Veget. 13(2): 331. 1849. *Achyranthes atropurpurea* Lamarck, Encycl. Meth. Bot. 1(2): 546. 1785.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1020*, dated 18. 03. 2012.

General Distribution: Tropical parts of India, Bhutan, Nepal, Sri Lanka, South Africa and Philippines.

Apiaceae

Centella asiatica (Linnaeus) Urban in Martius, Fl. Brasil 11:287, t. 78, f.1.1879. *Hydrocotyle asiatica* Linnaeus, Sp. Pl. 1: 234. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1017, 1019*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Indonesia, Japan, Korea, Laos, Malaysia, Myanmar, Nepal, Pakistan, Thailand, Vietnam; Widespread throughout tropical and subtropical countries worldwide.

Hydrocotyle sibthorpioides Lamarck, Encycl. Meith. 3:153. 1789.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1031*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Korea, Japan, Malaysia, Australia.

Oenanthe benghalensis (Roxburgh) Kurz, J. Asiat. Soc. Bengal 2: 115. 1877. *Seseli benghalense* Roxburgh, Fl. Ind., ed. 1832, 2: 93. 1832.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0839, 0737, 0760*, dated 18. 03. 2012.

General Distribution: N. India, Bhutan, China.

Apocynaceae

Centella asiatica (Linnaeus) Urban in Martius, Fl. Brasil 11:287, t. 78, f.1.1879. *Hydrocotyle asiatica* Linnaeus, Sp. Pl. 1: 234. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1017, 1019*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Indonesia, Japan, Korea, Laos, Malaysia, Myanmar, Nepal, Pakistan, Thailand, Vietnam; Widespread throughout tropical and subtropical countries worldwide.

Hydrocotyle sibthorpioides Lamarck, Encycl. Meith. 3:153. 1789.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1031*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Korea, Japan, Malaysia, Australia.

Oenanthe benghalensis (Roxburgh) Kurz, J. Asiat. Soc. Bengal 2: 115. 1877. *Seseli benghalense* Roxburgh, Fl. Ind., ed. 1832, 2: 93. 1832.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0839, 0737, 0760*, dated 18. 03. 2012.

General Distribution: N. India, Bhutan, China.

Apocynaceae

Ichnocarpus frutescens (Linnaeus) W. T. Aiton, Hortus Kew. ed. 2, 2: 69. 1811. *Apocynum frutescens* Linnaeus, Sp. Pl. 1: 213. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1027*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Bangladesh, Cambodia, Indonesia, Laos, Malaysia, Myanmar, New Guinea, Pakistan, Philippines, Sri Lanka, Thailand, Vietnam; Australia.

Asclepiadaceae

Dregea volubilis (Linnaeus f.) Bentham ex J.D. Hooker, Fl. Brit. India 4: 46. 1883. *Asclepias volubilis* Linnaeus f., Suppl. Pl. 170. 1781.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1024*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Bangladesh, Cambodia, Indonesia, Kashmir, Laos, Malaysia, Philippines, Sri Lanka, Thailand, Vietnam.

Asteraceae

Acmella calva (DC.) R.K. Jansen, Syst. Bot. Monogr. 8: 41. 1985. *Spilanthes calva* DC. in Wight, Contr. Bot. Ind. 19. 1834.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1044*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Myanmar, Philippines, Sri Lanka, Thailand.

Acmella uliginosa (Swartz) Cassini in F. Cuvier, Dict. Sci. Nat. 24: 331. 1822. *Spilanthes uliginosa* Swartz, Prodr. 110. 1788.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1037*, dated 18. 03. 2012.

General Distribution: Native throughout the tropics in Asia, America, and Africa; naturalized in the Pacific islands.

Ageratum conyzoides Linnaeus, Sp. Pl. 2: 839. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0849*, dated 18. 03. 2012.

General Distribution: India, Nepal, and SE Asia, Native to tropical America; widespread weed throughout Africa.

Ageratum houstonianum Miller, Gard. Dict., ed. 8, Ageratum no. 2. 1768.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1033*, dated 18. 03. 2012.

General Distribution: Native to tropical America; naturalized in India, Nepal, Myanmar, Thailand, Africa.

Blainvillea acmella (Linnaeus) Philipson, Blumea 6: 350. 1950. *Verbesina acmella* Linnaeus, Sp. Pl. 2: 901. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1041*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Malaysia, Myanmar, Philippines, Thailand, Vietnam; Africa, Australia, South America.

Bidens pilosa Linnaeus, Sp. Pl. 2: 832. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1036*, dated 18. 03. 2012.

General Distribution: Tropical and subtropical regions.

Blumea lacera (N.L. Burman) Candolle in Wight, Contr. Bot. India, 14. 1834. *Conyza lacera* N. L. Burman, Fl. Indica, 180. 1768.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0814, 0788*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, China, Japan, Laos, Malaysia, Myanmar, New Guinea, Pakistan, Sri Lanka, Thailand, Vietnam; Africa, N Australia, Pacific islands.

Chromolaena odorata (Linnaeus) R. M. King & H. Robinson in Phytologia 20: 204. 1970. *Eupatorium odoratum* Linnaeus, Syst. Nat. ed. 10: 1205. 1759.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0829*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Native to Mexico; widely naturalized in tropical Asia.

Crassocephalum crepidioides (Benth) S. Moore in J. Bot. 1:211.1912. *Gynura crepidioides* Benth in Hook. f., Fl. Niger. 438.1849.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0775*, dated 18. 03. 2012.

General Distribution: India, Bhuta, native to Africa; pantropical weed of S and SE Asia, Australia, Central and South America, and Pacific islands.

Eclipta prostrata (Linnaeus) Linnaeus, Mant. Pl. 2: 286. 1771. *Verbesina prostrata* Linnaeus, Sp. Pl. 2: 902. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0931, 0886*, dated 18. 03. 2012.

General Distribution: India, Bhuta, China, Native to Central, North, and South America; introduced in Africa, Asia, Australia, Europe, and Pacific islands.

Elephantopus scaber Linnaeus, Sp. Pl. 2: 814. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1039*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Widely distributed in tropical areas of Africa, America, and Asia.

Eleutheranthera ruderalis (Swartz) Schultz Bipontinus, Bot. Zeitung (Berlin) 24: 165. 1866. *Melampodium ruderale* Swartz, Fl. Ind. Occid. 3: 1372. 1806, nom. cons.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1043*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Widespread in Central and South America but also found in W Africa and Australia.

Emilia sonchifolia (Linnaeus) D. Candolle in Wight, Contr. Bot. India, 24. 1834. *Cacalia sonchifolia* Linnaeus, Sp. Pl. ed. 1, 835. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1041*, dated 18. 03. 2012.

General Distribution: Pantropical.

Enydra fluctuans Loureiro, Fl. Cochinch. 511. 1790.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0797, 0896*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Indonesia, Malaysia, Myanmar, Thailand, Vietnam; Australia.

Erigeron canadensis Linnaeus, Sp. Pl. 2: 863. 1753.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1047, 1035*, dated 18. 03. 2012.

General Distribution: India, Bhuta, China, Native to North America.

Galinsoga parviflora Cavanilles, Icon. 3: 41. 1795.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1056*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to South America.

Gnaphalium affine D. Don, Prodr. Fl. Nepal. 173. 1825.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0855*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Japan, Korea, Myanmar, Afghanistan, Pakistan, Philippines, Vietnam; SW Asia (Iran), Australia.

Gamochaeta purpurea (Linnaeus) Cabrera, Bol. Soc. Argent. Bot. 9: 377. 1961. *Gnaphalium purpureum* Linnaeus, Sp. Pl. 2: 854.1753, nom. cons.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1050, 1051*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to North America; introduced in Asia, Europe, and South America.

Grangea maderaspatana (Linnaeus) Poiret, Encycl. Suppl. 2: 825. 1812. *Artemisia maderaspatana* Linnaeus, Sp. Pl. 2: 849. 1753.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1080, 1057*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Laos, Malaysia, Myanmar, Pakistan, Cambodia, Sri Lanka, Thailand, Vietnam; tropical Africa.

Mikania micrantha Kunth in Humboldt *et al.*, Nov. Gen. Sp. 4(15): 105 (ed. fol.). 1818 [1820 publ. 26 Oct 1818]

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0947*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to the Caribbean, Central and South America, and Mexico; widely introduced in Asia and the Pacific islands.

Parthenium hysterophorus Linnaeus, Sp. Pl. 2: 988. 1753.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1077*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to tropical America; a widely introduced weed in the tropics.

Sphaeranthus indicus Linnaeus, Sp. Pl. 2: 927. 1753.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1067*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Cambodia, Laos, Malaysia, Thailand, Vietnam; Africa, Australia.

Synedrella nodiflora (Linnaeus) Gaertner, Fruct. Sem. Pl. 2: 456. 1791. *Verbesina nodiflora* Linnaeus, Cent. Pl. 1: 28. 1755.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1088*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Pantropical weed of South American origin.

Tridax procumbens Linnaeus, Sp. Pl. 2: 900. 1753.

Exsiccattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1091*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Native to tropical America; now a pantropical weed.

Vernonia cinerea (Linnaeus) Lessing, Linnaea 4: 291. 1829. *Conyza cinerea* Linnaeus, Sp. Pl. 2: 862. 1753

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0827, 0828*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Indonesia, Japan, Malaysia, Myanmar, Papua New Guinea, Philippines, Sri Lanka, Thailand, Vietnam; Africa, Arabia, Australia, Pacific islands; introduced to the Americas.

Xanthium strumarium Linnaeus, Sp. Pl. 2: 987. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1082*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Pantropical weed, known to be widely distributed in both Old and New Worlds, but most probably originating in the New World.

Youngia japonica (Linnaeus) D. Candolle, Prodr. 7: 194. 1838. *Prenanthes japonica* Linnaeus, Mant. Pl. 1: 107. 1767.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1063*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Present in all easterly and southerly neighboring countries; originating probably from China and introduced pantropically, extending into adjacent subtropical regions.

Brassicaceae

Cardamine hirsuta Linnaeus, Sp. Pl. 2: 655. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1066*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Indonesia, Japan, Laos, Malaysia, New Guinea, Pakistan, Philippines, Sri Lanka, Thailand, Turkmenistan, Vietnam; SW Asia, Europe; naturalized in S Africa, Australia, North and South America.

Rorippa benghalensis (DC.) H. Hara, J. Jap. Bot. 49: 132. 1974. *Nasturtium benghalense* DC., Syst. Nat. 2: 198. 1821.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1069*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Bangladesh, Cambodia, Laos, Malaysia, Myanmar, Thailand, Vietnam.

Caesalpiaceae

Cassia alata Linnaeus, Sp. Pl. 378. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1086*, dated 18. 03. 2012.

General Distribution: Pantropical.

Cassia occidentalis Linnaeus, Sp. Pl. 1: 377. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1055*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to tropical America; widely introduced in the tropics and subtropics elsewhere.

Cassia tora Linnaeus, Sp. Pl. 1: 376. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1074*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Native to tropical America; widely cultivated in the tropics and subtropics.

Cannabaceae

Cannabis sativa Linnaeus, Sp. Pl. 2: 1027. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1076*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Native to Central Asia and naturalized in temperate and tropical world.

Caryophyllaceae

Drymaria cordata (Linnaeus) Schultes in Roemer & Schultes, Syst. Veg. 5: 406. 1819.

Holosteum cordatum Linnaeus, Sp. Pl. 1: 88. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1058*, dated 18. 03. 2012.

General Distribution: India, Bhutan, native to Central and South America.

Polycarpon prostratum (Forsskål) Ascherson & Schweinfurth in Ascherson, Oesterr. Bot. Z. 39: 128. 1889. *Alsine prostrata* Forsskål, Fl. Aegypt.-Arab. 207. 1775.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 1083, dated 18. 03. 2012.

General Distribution: India, Bhutan, Tropical regions of Asia and Africa.

Stellaria alsine Grimm, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 3. App. 313. 1767.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 1084, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Japan, Kashmir, Korea, Pakistan, Vietnam; Europe.

Stellaria media (Linnaeus) Villars, Hist. Pl. Dauphiné 3: 615. 1789. *Alsine media* Linnaeus, Sp. Pl. 1: 272. 1753.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 1059, dated 18. 03. 2012.

General Distribution: India, Bhutan, Japan, Korea, Afghanistan, Pakistan, Russia, Europe.

Stellaria wallichiana Bentham ex Haines in Bull. Misc. Inf. Kew 1920: 66. 1920.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 1060, dated 18. 03. 2012.

General Distribution: India, Bhutan, Himalayas, Myanmar, Indo-China, S. China.

Chenopodiaceae

Chenopodium ambrosioides Linnaeus, Sp. Pl. 1: 219. 1753.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 1075, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to tropical America; now widely naturalized in tropical, subtropical, and warm-temperate regions of the world.

Convolvulaceae

Argyreia roxburghii Choisy in Mem. S. Phys. Hist. Nat. Geneve 6: 419. 1834.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 1119, dated 18. 03. 2012.

General Distribution: Pantropical.

Evolvulus nummularius (Linnaeus) Linnaeus, Sp. Pl. ed. 2. 391. 1762. *Convolvulus nummularius* Linnaeus, Sp. Pl. 1: 157. 1753.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 1096, dated 18. 03. 2012.

General Distribution: Naturalized in India and Malaysia; India, Bhutan, Africa, native in North and South America.

Ipomoea aquatica Forsskal, Fl. Aegypt. Arab. 44. 1775.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 0736, dated 18. 03. 2012.

General Distribution: India, Nepal, Bhutan, Bangladesh, Cambodia, Indonesia, Laos, Malaysia, Myanmar, New Guinea, Pakistan, Philippines, Sri Lanka, Thailand, Vietnam, Africa, Australia, Pacific Islands, South America.

Ipomoea carnea Jacquin subsp. *fistulosa* (Martius ex Choisy) D. F. Austin, Taxon 26: 237. 1977. *Ipomoea fistulosa* Martius ex Choisy in A. de Candolle, Prodr. 9: 349. 1845.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 1118, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Japan (Ryukyu Islands), Cambodia, Myanmar, New Guinea, Pakistan, Sri Lanka, Thailand; North America, Pacific Islands, South America.

Ipomia linifolia Blume, Bijdr. Fl. Ned. Ind. 13: 721. 1826.

Exsicattus: Gossaihat Beel, Anurag, Rajib & A.P.Das 0873, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Indonesia, Laos, Malaysia, Myanmar, Philippines, Thailand, Vietnam; N Australia.

Ipomoea nil (Linnaeus) Roth, Catal. Bot. 1: 36. 1797. *Convolvulus nil* Linnaeus, Sp. Pl. ed. 2. 1: 219. 1762.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1052*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Japan, Kashmir, Myanmar, New Guinea, Pakistan, Sri Lanka, Thailand; native of South America, now nearly circumtropical.

Merremia vitifolia (N.L. Burman) H. Hallier, Bot. Jahrb. Syst. 16: 552. 1893. *Convolvulus vitifolius* N.L. Burman, Fl. Indica 45. 1768.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1072, 1064*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Laos, Malaysia, Myanmar, Sri Lanka, Thailand, Vietnam.

Poranopsis paniculata (Roxburgh) Roberty, Candollea 14: 26. 1952. *Porana paniculata* Roxburgh, Pl. Coromandel 3: 31. pl. 235. (1815) 1819.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1125*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Myanmar, Pakistan.

Cucurbitaceae

Coccinia grandis (Linnaeus) Voigt, Hort. Suburb. Calcutt. 59. 1845. *Bryonia grandis* Linnaeus, Syst. Nat., ed. 12, 2: 640; Mant. Pl. 1: 126. 1767.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1089*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Tropical Africa and Asia.

Diplocyclos palmatus (Linnaeus) Jeffrey in Kew Bull. 15: 352. 1962. *Bryonia palmata* Linnaeus, Sp. Pl. 1012. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1093*, dated 18. 03. 2012.

General Distribution: Tropical and sub-tropical parts of India, Bhutan, Bangladesh, Sri Lanka, Myanmar, Pakistan, Malaysia, China, Africa, Australia.

Luffa aegyptiaca Miller, Gard. Dict. ed. 8, 4: 500. 1785.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1099*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Tropics of the Old World; cultivated in warm countries.

Momordica charantia Linnaeus, Sp. Pl. ed. 1: 1009. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1113*, dated 18. 03. 2012.

General Distribution: Tropical and sub-tropical parts of the world.

Mukia maderaspatana (Linnaeus) M. J. Roemer, Syn. Mon. 2: 47. 1846. *Cucumis maderaspatanus* Linnaeus, Sp. Pl. 2: 1012. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1121*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Tropical Africa and Asia, Australia.

Zehneria japonica (Thunberg) H.Y. Liu, Bull. Nation. Mus. Nat. Sci. (Taiwan) 1: 40. 1989. *Bryonia japonica* Thunberg, Syst. Veg., ed. 14: 870. 1784.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1110*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Tropical and sub-tropical parts of the world.

Zanonia indica Linnaeus, Syst. Nat., ed. 10, 2: 1292. 1759.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1071*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam.

Elatinaceae

Bergia ammannioides Roxburgh ex Roth, Nov. Pl. Sp. 219. 1821.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1098*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Laos, Indonesia, Tajikistan, Thailand, Vietnam, and probably elsewhere in tropical Asia; tropical Africa, Australia.

Euphorbiaceae

Euphorbia heyneana Sprengel, Syst. Veg. 3: 791. 1826. *Euphorbia microphylla* B. Heyne ex Roth, Nov. Pl. Sp. 229. 1821, non Lamarck (1788);

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1097*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Bangladesh, Malaysia, Myanmar, Pakistan, Thailand, Vietnam; Indian Ocean islands.

Euphorbia hirta Linnaeus, Sp. Pl. 454. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1054*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Tropical and subtropical regions in both hemispheres.

Flueggea virosa (Roxburgh ex Willdenow) Voigt, Hort. Suburb. Calcutt. 152. 1845. *Phyllanthus virosus* Roxburgh ex Willdenow, Sp. Pl. 4: 578. 1805;

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1116*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, widespread in Africa, E and SE Asia, and Oceania.

Mallotus philippensis (Lamarck) Müller Argoviensis, Linnaea 34: 196. 1865. *Croton philippensis* Lamarck, Encycl. 2(1): 206. 1786.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1051*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Bangladesh, Laos, Malaysia, Myanmar, Nepal, New Guinea, Pakistan, Philippines, Sri Lanka, Thailand, Vietnam; N. Australia.

Phyllanthus amarus Schumacher & Thonning, Kongl. Danske Vidensk. Selsk. Skr. 4: 195. 1829.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0926*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Pantropical weed possibly originating in the Americas.

Phyllanthus urinaria Linnaeus, Sp. Pl. 2: 982. 1753; Müll. Arg., Linnaea 32: 19, 1863.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1061*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Japan, Laos, Malaysia, Sri Lanka, Thailand, Vietnam; South America.

Phyllanthus virgatus G. Forster, Fl. Ins. Austr. Prodr.: 65 ('virgata'), 1786.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1081*, dated 18. 03. 2012.

General Distribution: Pantropical.

Sauropus androgynus (Linnaeus) Merrill, Bull. Bur. Forest. Philipp. Islands 1: 30. 1903. *Clutia androgyna* Linnaeus, Mant. Pl. 1: 128. 1767;

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1073*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Bangladesh, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam.

Sauropus quadrangularis (Willdenow) Müller Argoviensis, Linnaea 32: 73. 1863. *Phyllanthus quadrangularis* Willdenow, Sp. Pl. 4: 585. 1805;

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1105*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Cambodia, Laos, Myanmar, Thailand, Vietnam.

Fabaceae (s.s.)

Crotalaria alata Buchanan-Hamilton ex D. Don, Prodr. Fl. Nepal. 241. 1825.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1085*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Bangladesh, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Sri Lanka, Thailand, Vietnam; cultivated and naturalized in Africa and Madagascar.

Crotalaria pallida Aiton, Hort. Kew. 3: 20. 1789.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1096*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Bangladesh, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Pakistan, Philippines, Sri Lanka, Thailand, Vietnam; Africa, tropical America.

Desmodium gangeticum (Linnaeus) DC., Prodr. 2: 327. 1825. *Hedysarum gangeticum* Linnaeus, Sp. Pl. 2: 746. 1753;

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1145*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, China, Cambodia, Kashmir, Laos, Malaysia, Myanmar, Sri Lanka, Thailand, Vietnam; tropical Africa, Australia, Pacific islands; naturalized in the West Indies.

Desmodium laxiflorum Candolle, Ann. Sci. Nat. (Paris) 4: 100. 1825.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1180*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Laos, Malaysia, Myanmar, New Guinea, Philippines, Thailand, Vietnam.

Desmodium triflorum (Linnaeus) DC., Prodr. 2: 334. 1825. *Hedysarum triflorum* Linnaeus, Sp. Pl. 2: 749. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1165*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Cambodia, , Laos, Malaysia, Myanmar, Sri Lanka, Thailand, Vietnam; tropics of Africa, Americas, SW Asia, Australia, Pacific islands.

Pueraria phaseoloides (Roxburgh) Benth, J. Linn. Soc., Bot. 9: 125. 1865. *Dolichos phaseoloides* Roxburgh, Fl. Ind., ed. 1832, 3: 316. 1832;

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1114*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Cambodia, Laos, Malaysia (Peninsular), Myanmar, Thailand, Vietnam; widely cultivated elsewhere in the tropics.

Smithia grandis Benth, ex Baker in Hooker f., Fl. Brit. Ind. 2: 151. 1876.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1191*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Japan, Malaysia, Philippines, Thailand, Vietnam.

Vicia sativa Linnaeus, Sp. Pl. 2: 736. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1093*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, China, Japan, Kazakhstan, Korea, Afghanistan, Kyrgyzstan, Mongolia, Pakistan, Russia, Tajikistan, Turkmenistan, Uzbekistan; Africa, S.W. Asia, N. Atlantic islands, Europe; widely introduced and naturalized elsewhere.

Hydrophyllaceae

Hydrolea zeylanica (Linnaeus) Vahl, Symb. Bot. 2: 46. 1791. *Nama zeylanica* Linnaeus, Sp. Pl. 1: 226. 1753;

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1178*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Malaysia, Philippines, Sri Lanka; Africa, SW Asia, Australia.

Hypericaceae

Hypericum japonicum Murray, Syst. Veg. ed. 14: 702. 1784.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0913*, dated 18. 03. 2012.

General Distribution: India (chiefly in Himalayas), Bhutan, Nepal, Bangladesh, Myanmar, China, Taiwan, Vietnam, Sri Lanka.

Icacinaceae

Natsiatum hepaticum Buchanan - Hamilton ex Arnott in Edinb. New Philos. Journ. 16: 314. 1834.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1127*, dated 18. 03. 2012.

General Distribution: N. India, Bhutan, Nepal, Bangladesh, NE Laos, S Myanmar, Sri Lanka, NE Thailand, N Vietnam.

Mimosaceae

Mimosa pudica Linnaeus, Sp. Pl. 1: 518. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0808*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to tropical America; naturalized in tropical regions of the world.

Lamiaceae

Leucas indica (Linnaeus) R. Brown *ex* Vatke in Oesterr. Bot. Zeits. 25: 95.1875. *Leonurus indicus* Linnaeus, Syst. ed 10: 1101. 1760.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0815, 0773*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Indonesia, Malaysia, Philippines, Thailand.

Prunella vulgaris Linnaeus, Sp. Pl. 2: 600. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1130*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Japan, Kazakhstan, Korea, Kyrgyzstan, Pakistan, Russia, Tajikistan, Turkmenistan, Uzbekistan; Africa, SW Asia, Europe, North America.

Lentibulariaceae

Utricularia aurea Loureiro, Fl. Cochinch. 26. 1790.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0795, 0801*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Malaysia to Tropical Australia

Utricularia bifida Linnaeus, Sp. Pl. 1: 18, 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1131*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Bangladesh, Sri Lanka, Myanmar, Malaya, East Asia, Japan.

Utricularia gibba Linnaeus, Sp. Pl. 1: 18. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0935*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Japan, Malaysia, Myanmar, Papua New Guinea, Philippines, Sri Lanka, Thailand, Vietnam; Africa, tropical America, SW Asia, Europe, Indian Ocean islands, Madagascar, North and South America, Pacific islands.

Utricularia hirta Klein *ex* Link, Jahrb. Gewäch. 1, 3: 55. 1820.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0927*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Thailand, Malaya.

Lythraceae

Ammannia baccifera Linnaeus, Sp. Pl. 120. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1132*, dated 18. 03. 2012.

General Distribution: Pantropical.

Cuphea hyssopifolia Kunth, Nov. gen. sp. 6:157. 1823.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0854*, dated 18. 03. 2012.

General Distribution: Tropical Asia, America.

Cuphea procumbens Ortega, Nov. Rar. Pl. Descr. Dec. 17. 1797.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0950, 0764*, dated 18. 03. 2012.

General Distribution: Pantropical.

Rotala cordata Koehne, Bot. Jahrb. Syst. 1(2): 172. 1880.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0943*, dated 18. 03. 2012.

General Distribution: Tropical Asia.

Rotala rotundifolia (Buchanan-Hamilton) Koehne, Bot. Jahrb. 1: 175. 1881. *Ammannia rotundifolia* Buchanan-Hamilton in Don Prodr. 220. 1825.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0939, 0839, 0856*, dated 18. 03. 2012.

General Distribution: India, Bhutan and China.

Malvaceae

Sida acuta Burman f., Fl. Ind. 147. 1768.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1177*, dated 18. 03. 2012.

General Distribution: Pantropical.

Sida cordifolia Linnaeus, Sp. Pl. 684. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1167*, dated 18. 03. 2012.

General Distribution: India (throughout the dry waste places); pantropical.

Sida rhombifolia Linnaeus, Species Plantarum 684. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0851, 0730*, dated 18. 03. 2012.

General Distribution: Tropical India, Bhutan, China.

Urena lobata Linnaeus, Species Plantarum 692. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1144*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Pantropic.

Melastomataceae

Melastoma malabathricum Linnaeus, Sp. Pl. 390. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1163*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Tropical Himalayas, China, Sri Lanka, Myanmar, Malaysia and Australia.

Osbeckia nepalensis Hooker, Exot. Fl. 1: t. 31. 1822.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1166*, dated 18. 03. 2012.

General Distribution: India, Nepal, Bhuta, China, Mayanmar, Thailand.

Menispermaceae

Cissampelos pareira Linnaeus, Species Plantarum 1031. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1174*, dated 18. 03. 2012.

General Distribution: India, Pantropic.

Stephania glabra (Roxburgh) Miers, Contrib. Bot. 3: 217. 1817. *Cissampelos glabra* Roxburgh, Fl. Ind. 3: 840. 1832.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1171*, dated 18. 03. 2012.

General Distribution: Arunachal India, Tropical Himalayas, Western Peninsula.

Stephania japonica (Thunbergh) Miers in Ann. Mag. Nat. Hist. ser. 3, 18: 14. 1866. *Menispermum japonicum* Thunbergh ex J.A. Murray, Syst. Veg., ed. 14: 892. 1784.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0826*, dated 18. 03. 2012.

General Distribution: Tropical to temperate regions of Asia and Africa.

Menyanthaceae

Nymphoides hydrophylla (Loureiro) Kuntze, Rev. Gen. Pl. 429. 1891. *Menyanthes hydrophylla* Loureiro, Fl. Cochinch. 1: 129. 1790.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0952, 0798*, dated 18. 03. 2012.

General Distribution: India, Bhutan, S. China, Myanmar, Java and Malasia.

Nymphoides indica (Linnaeus) O. Kuntze, Rev. Gen. Pl. 429. 1891. *Menyanthes indica* Linnaeus, Sp. Pl. 1: 145. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1164*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Kabul, S. E. Asia, Malaya, Australia to Fiji.

Molluginaceae

Glinus oppositifolius (Linnaeus) A. DC., Bull. Herb. Boiss. 2, 1: 552. 1901. *Mollugo oppositifolia* Linnaeus, Sp. Pl. 89. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1137*, dated 18. 03. 2012.

General Distribution: Pantropical.

Myrsinaceae

Ardisia solanacea Roxburgh, Pl. Corom. 1: 27. 1795.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1166*, dated 18. 03. 2012.

General Distribution: India, Nepal, Singapore, Sri Lanka, Hawaii.

Maesa indica (Roxburgh) DC. In Trans. Linn. Soc. Lond. 17: 134. 1834. *Baeobotrya indica* Roxburgh, Fl. Ind. 2: 230. 1824.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1140*, dated 18. 03. 2012.

General Distribution: India, Bhutan, South China, Africa.

Nyctaginaceae

Boerhavia coccinea Miller, Gard. Dict., ed. 8. n. 4. 1768; FB 1(2): 194. 1984.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1179*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native of tropical America; pantropical.

Nymphaeaceae

Nymphaea pubescens Willdenow, Sp. Pl. 2: 1154. 1799; FI 1: 431. 1993.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1151*, dated 18. 03. 2012.

General Distribution: India, Bhuta, Bangladesh, Malaysia, Africa, Java, Philippines and Hungary.

Onagraceae

Ludwigia adscendens (Linnaeus) Hara in J. Jap. Bot. 28: 291. 1953. *Jussiaea adscendens* Linnaeus, Sp. Pl. 1: 272. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0745*, dated 18. 03. 2012.

General Distribution: Pantropic.

Ludwigia octovalvis (Jacquin) Raven ssp. *sessiliflora* (Mich.) Raven in Reinw. 6: 362. 1963. *Oenothera octavulvis* Jacquin, Enum. 19. 1760.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1135*, dated 18. 03. 2012.

General Distribution: Pantropical

Ludwigia perennis Linnaeus, Sp. Pl. 1: 119. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0880, 0782*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Sri Lanka, Madagascar, S. E. Asia, Malaysia to tropical Africa, Australia and New Caledonia.

Oxalidaceae

Oxalis corniculata Linnaeus, Sp. Pl. 1: 435. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0874, 0875, 0919, 0903, 0883*, dated 18. 03. 2012.

General Distribution: Tropical and sub-tropical parts of the world.

Oxalis corymbosa DC., Prodr. 1: 696. 1824.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1157*, dated 18. 03. 2012.

General Distribution: Tropical and sub-tropical parts of the world.

Polygonaceae

Persicaria barbata (Linnaeus) H. Hara, in FEH 70. 1966. *Polygonum barbatum* Linnaeus, Sp. Pl.: 362. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0816*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Myanmar, Thailand, Vietnam.

Persicaria chinensis (Linnaeus) H. Gross, Bot. Jahrb. 49: 269. 1913. *Polygonum chinense* Linnaeus, Sp. Pl. 1: 363. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1136*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Japan, Malaysia, Myanmar, Philippines, Thailand, Vietnam.

Persicaria hydropiper (Linnaeus) Spach, Hist. Veg. 10: 536. 1841. *Polygonum hydropiper* Linnaeus, Sp. Pl. 1: 361. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0822, 0731*, dated 18. 03. 2012.

General Distribution: India (Plains and wet places), Bhutan, China, Europe and N. Africa.

Persicaria strigosa (R. Brown) Nakai in Rigakkai 24. 299. 1926. *Polygonum strigosum* R. Brown, Prodr. 420. 1810.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1160*, dated 18. 03. 2012.

General Distribution: Tropical India, Bhutan, Malaysia, Myanmar, Sri Lanka.

Polygonum plebeium R. Brown, Prodr. 420. 1810.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0615*, dated 18. 03. 2012.

General Distribution: Tropical India, Bhutan, Tropical and Sub Tropical Asia, Africa and Australia.

Rumex dentatus Linnaeus, Mant. Pl. Altera 226. 1771.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1156*, dated 18. 03. 2012.

General Distribution: Tropical Asia.

Portulacaceae

Portulaca oleracea Linnaeus, Sp. Pl. 1: 445. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1158*, dated 18. 03. 2012.

General Distribution: Pantropical.

Ranunculaceae

Ranunculus sceleratus Linnaeus, Sp. Pl. 1: 551. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1129*, dated 18. 03. 2012.

General Distribution: Asia, Europe, North Africa and temperate America.

Rhamnaceae

Zizyphus mauritiana Lamarck, Encycl. 3: 319. 1789.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1169*, dated 18. 03. 2012.

General Distribution: Tropical and sub-tropical parts of the world.

Rosaceae

Duchesnea indica (Andrews) Focke in Engler & Prantl, Nat. Pflanzenfam. 3(3): 33. 1888.

Fragaria indica Andrews, Bot. Rep. 7: t. 479, 1807.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0743*, dated 18. 03. 2012.

General Distribution: Tropical and sub-tropical parts of the world.

Rubiaceae

Borreria alata (Aublet) DC., Prodr. 4: 544. 1830. *Spermacoce alata* Aublet, Hist. Pl. Guiane 1: 55. 1775.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1148*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to the Neotropics; Central America, North America, widespread in tropical South America; naturalized in Africa, S and SE Asia, Australia, Madagascar, and perhaps North America.

Borreria ocymoides (Burman f.) DC., Prodr. 4: 544. 1830. *Spermacoce ocymoides* Burman f., Fl. Ind. 34. 1768.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1147*, dated 18. 03. 2012.

General Distribution: Tropical Asia.

Dentella repens (Linnaeus) J. R. Forster & G. Forster, Char. Gen. Pl. 13. 1775. *Oldenlandia repens* Linnaeus, Syst. Nat., ed. 12, 2: 126.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1133*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Malaysia, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam; Australia, Oceania; adventive in North America.

Hedyotis corymbosa (Linnaeus) Lamarck, Tabl. Encycl. 1: 272. 1792. *Oldenlandia corymbosa* Linnaeus, Sp. Pl. ed. 1(1): 119. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0915, 0853, 0852*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Tropical Asia and Africa; widely adventive in the Americas and the Pacific region.

Hedyotis scandens Roxburgh, Fl. Ind. 1: 369. 1820.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1162*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Bangladesh, Myanmar, Vietnam.

Mitracarpus verticillatus (Schum. et Thonn.) Vatke, Linnaea 40:196. 1876.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1153*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to the Antilles and Central, North, and South America; naturalized in tropical Africa, Asia, Australia, and Pacific islands.

Paederia foetida Linnaeus, Mant. Pl. 1: 52. 1767.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1178*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Bangladesh, Borneo, Cambodia, Indonesia, Japan, N. Korea, Laos, Malaysia, Myanmar, Philippines, Thailand, Vietnam; also occasionally cultivated, and naturalized in United States and Sri Lanka.

Psilanthus bengalensis (Roemer & Schultes) J.F. Leroy, Bull. Mus. Natl. Hist. Nat., B, Adansonia Ser. 4, 3(3): 252. 1982. *Coffea bengalensis* Roemer & Schultes, Fl. Ind. 1: 540. 1820.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1150*, dated 18. 03. 2012.

General Distribution: Subtropical Himalaya, Bangladesh, Myanmar.

Scrophulariaceae

Bacopa monnieri (Linnaeus) Pennell, Proc. Acad. Nat. Sci. Philadelphia 98: 96. 1946.

Lysinachia monniero Linnaeus, Cent. Pl. II. t. 9.1756.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1186*, dated 18. 03. 2012.

General Distribution: Widespread in tropics and subtropics.

Linnophila heterophylla (Roxburgh) Benth, Scroph. Ind. 25. 1835. *Columnea heterophylla* Roxburgh, Fl. Ind. ed. 1832, 3: 97. 1832.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0963*, dated 18. 03. 2012.

General Distribution: India, Nepal, Malaysia, Myanmar, Cambodia, Sri Lanka, Thailand, Vietnam.

Linnophila repens (Benth) Benth in A. de Candolle, Prodr.10: 387. 1846. *Stemodia repens* Benth in Lindley, Bot. Reg. 17: ad t. 1470. sp.11.1832.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0960, 0911*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam, Australia.

Lindernia anagallis (Burman f.) Pennell in J. Arn. Arbor. 24: 252. 1943. *Ruellia anagallis* Burman f., Fl. Ind. 135. 1768.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1122*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Sri Lanka, Malaya, Indonesia, Thailand, China, Philippines Islands and Java.

Lindernia antipoda (Linnaeus) Alston in Trimen, Hand. Fl. Ceylon 6(suppl.): 24. 1931.

Ruellia antipoda Linnaeus, Sp. Pl. 2: 635. 1753.

Exscicattus: Gossaihat Beel Anurag, Rajib & A.P.Das 0759, 0825, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Japan (Ryukyu Islands), Laos, Malaysia, Myanmar, Cambodia, Philippines, Sri Lanka, Thailand, Vietnam; Australia, Pacific Islands.

Lindernia ciliata (Colsmann) Pennell, Brittonia. 2: 182. 1936. *Gratiola ciliata* Colsmann, Prodr. Descr. Gratiol. 14. 1793.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0956*, dated 18. 03. 2012.

General Distribution: India, Bhutan, China, Japan, Laos, Malaysia, Myanmar, Cambodia, Philippines, Vietnam; N Australia.

Lindernia crustacea (Linnaeus) F. Mueller, Syst. Census Austral. Pl. 1: 97. 1882. *Capraria crustacea* Linnaeus, Mant. Pl. 1: 87. 1767.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0908*, dated 18. 03. 2012.

General Distribution: Widely distributed in tropics and subtropics.

Lindernia parviflora (Roxburgh) Haines, in Bot. Bihar Orissa 4: 635, 1922. *Gratiola parviflora* Roxburgh, Pl. Corom. 3. 3, t. 204, 1819.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0863*, dated 18. 03. 2012.

General Distribution: India, Burma, Indo-China, Himalaya, Malaya, Tropical Africa.

Lindernia procumbens (Krocker) Borbás, Békés Vámegey Fl. 80. 1881. *Anagalloides procumbens* Krocker, Fl. Siles 2(1): 398. 1790.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1185*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Indonesia, Japan, Afghanistan, Kazakstan, Laos, Pakistan, Russia, Tajikistan, Thailand, Vietnam, S Europe.

Mazus pumilus (Burman f.) Steenis in Nova guinea n. sect. 9: 31. 1958. *Lobelia pumila* Burman f., Fl. Ind. 186. t. 60, f. 3. 1768.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1123*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Myanmar, Malaya, Afghanistan, China, Japan, Java and Philippines.

Mecardonia procumbens (Miller) Small, Fl. South-east U.S. 1065, 1338. 1903. *Erinus procumbens* Miller, Gaed. Dict. Ed. 8, Ni.6. 1768.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1124*, dated 18. 03. 2012.

General Distribution: Native of America and naturalized in India.

Scoparia dulcis Linnaeus, Sp. Pl. ed. 1, 116. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1181*, dated 18. 03. 2012.

General Distribution: Pantropical.

Torrenia asiatica Linnaeus, Sp. Pl. 619. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0938*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Nepal, Sri Lanka, East China, Myanmar, Malaysia.

Solanaceae

Lycopersicon esculentum Miller, Gard. Dict. (ed. 8) n.2.1768.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1146*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Native to tropical America.

Solanum nigrum Linnaeus, Sp. Pl. 1: 183. 1783.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1205*, dated 18. 03. 2012.

General Distribution: India, Bhutan, S. E. Asia, Tropical Africa, Australia and America.

Solanum torvum Swartz, Prodr. 47. 1788.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1199*, dated 18. 03. 2012.

General Distribution: Tropical India, Bhutan, China, Malaya, Philippines and Tropical America.

Solanum viarum Dunal in A. DC., Prodr. 13(1): 240. 1852.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0961*, dated 18. 03. 2012.

General Distribution: Tropical and sub-tropical parts of the world.

Tiliaceae

Triumfetta rhomboidea Jacquin, Enum. Pl. Carib. 22. 1760.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1201*, dated 18. 03. 2012.

General Distribution: India, South East Asia.

Urticaceae

Gonostegia hirta Miquel, Ann. Mus. Bot. Lud. Bat. 4: 303. 1869.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0951, 0766, 0765, 0876*, dated 18. 03. 2012.

General Distribution: India (Tropical Himalayas), Bhutan, China, Malaysia, Australia.

Pouzolzia zeylanica (Linnaeus) Bennete, Pl. Jav. Rar. 67. 1838. *Prietaria zeylanica* Linnaeus, Sp. Pl. 2: 1052. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 0739*, dated 18. 03. 2012.

General Distribution: Tropical sub tropical india, Bhutan, Sri lanka, Bangladesh, Myanmar and China.

Ulmaceae

Trema orientalis (Linnaeus) Blume, Mus. Bot. Lugd. Bot. 2: 58. 1856. *Celtis orientalis* Linnaeus, Sp. Pl. 2: 1044. 1753.

Exscicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1198, 1197*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Himalaya, W. and S. China, Tropical Africa, Sri Lanka, and Australia.

Verbenaceae

Clerodendrum viscosum Ventenat, Jard. Malamina 1: 25. 1803.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1204*, dated 18. 03. 2012.

General Distribution: India, Bhutan, Indo – Malaysia.

Phyla nudiflora (Linnaeus) Greene in Pittonia 4: 46. 1899. *Verbena nodiflora* Linnaeus, Sp. Pl. 1: 20. 1753.

Exsicattus: Gossaihat Beel, *Anurag, Rajib & A.P.Das 1207,0618,1214*, dated 18. 03. 2012.

General Distribution: Pantropical