

New plant records for Toranmal flora of Satpuda range, Nandurbar distict of Maharashtra state

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ABSTRACT

Five new flowering plant species are reported for the first time form Toranmal Satpuda region of Maharashtra state.

Key words: New plant records, Toranmal, Satpuda.

INTRODUCTION

The flora of Satpuda has not been extensively explored except few reports of Mahabale and Karnik (1960), Karnik (1955, 56, 57, 66) Jain and Deshpande (1964) reported 365 species form Khandesh, Mahabale and Karnik has reported 484 species spread over 322 genera and 80 families. Mathew (1988) reported 474 species from entire Dhule District. During the couse of botanical exploration (1998-2000) in Tornmal region, Nandurbar district. We have collected plant species which are not recorded in Flora of Maharashtra state Ed. Singh *et al.*, (1996, 200 and 2001) and Dhule district Mathew (1998). The species reported in the present paper in recorded first time form Toranmal Satpuda region.

Tribulus alatus Del. Family: Zygophyllaceae
Agyp. Arab, 111.62.1812; FBIL 423.1874, Cook 1.171.1958, Shah 1: 139. 1978.

Procumbent or ascending, densely silky-villous herb. Leaflets 3-6 paris 0.5-1.2 cm long, - appressed - ericeo- villous, linear-oblong to ellipic oblong. Flower 1-1.2 cm acrss, yellow. Cocci 5, hirsute, each coccus 2 seeded.

Fls. and Frs. : Oct. - Dec.
Distribution : North Africa, Arabia, Western India
Critical note : An addition to the flora of Dhule district
Exisccata : BDG (Ranipur) 111.

Vicica hirsuta (L.)

S.F. Gray. Family: Papilionaceae

Nat. Arr. PI 2: 614.1821, FBI 2: 177.1876, Shah 255.1978.

Ervum hissutum

L. Sp PI 138. 1753

Slender, straggling or clmbing herbs. Leaves 2.3-3.2 cm long. Leaflets 5-10 pairs, 0.4-1cm long, appressed pubescent. Corolla smaller, Scarrely exserted from calyx. Pod oblidque, more turgid, finally black.

Fls. and Frs. : July - Nov.
Distribution : Cultivated throughout
Critical note : As an escape, usually a weed in cultivated field. Extremely rare.

Critical notes : An addition to the flora of Dhule district.
 Exisccata : BDG (Toranmal Ghat) 532.

Cassia leschanaultiana

Wall. Ex. Dc. Family: Caesalpinaceae
 Prodr. 2: 504. 1825; Gamble. Fl. Madras 1: 286, 1957, Shah 270.1978. *C. Wallichiana* Wall. Ex. Dc. Prodr. 2.505. 1825. *Cassia minosoides* L. var. *Wallichiana* Baker in Hk. f. FBI. 2: 266. 1878.

A low diffuse perennial with slender shrubby finely down branches. Leaves 1"-3" long. leaflets 60-100, linear, obliquely mucronate. Flower 1-2, together in the axis of leaves on short pedicels. Pod. glabrescent or finely downy septa more or less oblique.

Fls. and Frs. : Oct.
 Distribution : Cosmopolitan in tropics
 Critical note : An addition to the flora of Dhule district
 Exisccata : BDG (Toranmal) 566.

***Trapa natnas* L. var. *bispinosa* (Roxb) Makino in Inluma. Family: Trapaceae.**

Somoku - dzusetz (ed. 3) 1:37.1907; Shah 314-1978.

***Trapa bispinosa* Roxb.**

Pl. Cor. 3: t. 234-1819 and F. Ind (ed. Carey) 1: 428. 1832; FBI 2: 590. 1879; Cooke 1: 551. 1958

Floating herbs, stems flexuose, ascending in water, leaves alternate, Crowded on the upper part of the stem, broadly ovate-rhomboid, glarous dark green above and prominently nerved beneath. flowers white above water surface. axillary, solitary. nut 1.4-2.5 cm long and as much broad, black with a short conical beak in the centre at the apex, 1-seeded.

Fls. : Sep. - Oct.
 Frs. : Oct. - Dec.
 Distribution : Throughout India, Malaya, Tropical Africa
 Ecological note : Cultivated in ponds at some places.
 Crinical note : Fruits roasted and eaten by the local. An addition to the Flora or Dhule district
 Exisccata : BDG (Ranipur) 495.

***Dichrocephala integrifolia* (L.f.) Kuntz; Family: Asteracea**

Rev. Ge. Pl. 133. 1891, Hara in Fl. East. Himal. 338. 1955: Almeida 1: 226. 1990. *Hippia integrifolia* L.f. Suppl. Pl. 389. 1781. *Grangea latifolia* Lam. Tab. Encycl. t. 699. F.I. 1796. *D. latifolia* (Lamk) DC. In Wight, Contrib. Bot. Ind II. 1834; FBI 3: 245. 1881; Cooke 2: 70. 1985.

An annual herb, rooting at nodes. stem branched, pubescent. Leaves very variable alternate, obovate or broadly ovate, nerves prominent. Capitula few, globose, paniced long, each with a linear, acute bracts near the centre. Involucral bract minute, linear, inner disc florets yellow. Corolla 4-5 toothed. Outer floret filiform, curved. Achenes compressed, smooth

Fls. and Frs. : Nov. - Mar.
 Distribution : India, Sri-Lanka, Malaya, China, Africa
 Ecological note : Common weed along road-sides
 Critical note : An addition to the flora of Dhule district
 Exisccata : BDG (Velkheda) 539.

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