

**ENDEMIC SPECIES OF FLOWERING PLANTS OF PENINSULAR INDIA OCCUR
IN SATPUDA MOUNTAIN RANGES OF NANDURBAR AND DHULE DISTRICTS,
MAHARASHTRA, INDIA WITH SPECIAL REFERENCE TO FAMILY FABACEAE**

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ABSTRACT

Present paper deals with list of 22 endemic species of flowering plants of Fabaceae of Peninsular India occur in Satpuda mountain ranges of Nandurbar and Dhule districts

Keywords: Endemic Species, Fabaceae

INTRODUCTION

Satpuda mountain ranges possess some well protected forest with high species diversity. Floristic studies are assets of the ecology and conservation of the forest area. The flora of this region is highly diversified in vegetation and has rich number of floristic composition. The current estimate shows that the region contains about 1245 species of higher plants, Thomas (2004). The flora of Satpuda has not been extensively explored except few report of Mahabale and Karnic (1958, 1959 a, b), Karnic (1955, 56, 57,61, 66) , Jain and Deshpande (1964) reported 365 species from Khandesh. Tropical forests show a high degree of species richness and endemism, Orians & Groom (2005).

The family Fabaceae is known as the pea family which includes 670 genera and nearly 20000 species of tree, shrubs, vines and herbs distributed worldwide. It is the most common family found in tropical forest and dry forest. In present study area, the family Fabaceae represent 31 genera and 123 species out of these 22 species of flowering plants of Peninsular India occur in satpuda mountain ranges of Nandurbar and Dhule districts. and its comes under the ten dominant family. The order of dominance is compared with that of floras of adjacent area in Maharashtra and Gujarat state. From that it is evident that the ten dominant families are almost same with that of adjoining area with few exceptions. This order of dominance in all the area suggests a trend of wide distribution of taxa of these families. The order of remaining dominant families is slightly variable in the adjacent areas. The similarities and variation in

the positions of the dominant families may be attributed to the geography, topography and size of the areas and biotic interferences.

Some important contribution to the flora, vegetation and endemic plants India and study area are of (Ahmedullah, et.al. 1987, Chatterjee,1939,19, Cherian,1969, Cooke, T. 1909-1908, Jain,et.al.1963, Lisboa,1986, Major,1988, Misra et.al,1998, Moghe,1957, Nayar, 1980a, 1984,1996, Yadav *et al.*, 1997; Garud et.al.1999, 2020, Singh and Karthikeyan, 2000; IUCN, 2008,) Based on the published literature the following taxa are endemic, occurring in the study area.

Table-1: Endemic Species in the study area

1	<i>Alysicarpus</i>	<i>belgaumensis</i>	Fabaceae
2	<i>Alysicarpus</i>	<i>bupleurifolius</i>	Fabaceae
3	<i>Alysicarpus</i>	<i>pubescens</i>	Fabaceae
4	<i>Alysicarpus</i>	<i>racemosus</i>	Fabaceae
5	<i>Cajanus</i>	<i>sericeus</i>	Fabaceae
6	<i>Crotalaria</i>	<i>decasperma</i>	Fabaceae
7	<i>Crotalaria</i>	<i>filipes</i>	Fabaceae
8	<i>Crotalaria</i>	<i>leptostachya</i>	Fabaceae
9	<i>Crotalaria</i>	<i>lutescens</i>	Fabaceae
10	<i>Crotalaria</i>	<i>madurensis</i>	Fabaceae
11	<i>Crotalaria</i>	<i>naikiana</i>	Fabaceae
12	<i>Crotalaria</i>	<i>pusilla</i>	Fabaceae
13	<i>Crotalaria</i>	<i>quinquefolia</i>	Fabaceae
14	<i>Crotalaria</i>	<i>vestita</i>	Fabaceae
15	<i>Desmodium</i>	<i>ritchei</i>	Fabaceae
16	<i>Indigofera</i>	<i>trita</i>	Fabaceae
17	<i>Pterocarpus</i>	<i>marsupium</i>	Fabaceae
18	<i>Smithia</i>	<i>purpurea</i>	Fabaceae
19	<i>Smithia</i>	<i>setulosa</i>	Fabaceae
20	<i>Tephrosia</i>	<i>collina</i>	Fabaceae
21	<i>Vigna</i>	<i>khandalensis</i>	Fabaceae
22	<i>Vigna</i>	<i>vexillata</i>	Fabaceae

Description of Taxa:

Each taxon with latest valid name is followed by vernacular name/s, habit, few morphological characters, flowering and fruiting period, distribution and world distribution status.

***Alysicarpus belgaumensis* Wight.**

Erect herb. Pods pubescent, joints 3-4, the reticulations honeycombed.

Fl. & Frts. : September-December.

Distri. : Common on hill slopes and scrub forest. Baradi, Borsira ,

World Distri. : Indian

Alysicarpus bupleurifolius (L.)

1. Pods sooth var. bupleurifolius
 1. Pods rugose var. hybridus

Alysicarpus bupleurifolius (L.) DC. var. bupleurifolius.

Herb. Pods moniliform, joints 4-8..

Fl. & Frts. : June-January.

Distri. : Common in forest. Daman, Wakad,

World Distri. : Tropical-Asian

Alysicarpus bupleurifolius (L.) DC var. hybridus.

Herbs. Fruit pods, rugose, jointed.

Fl. & Frts. : September-October.

Distri. : Common on hill slopes and open fields. Navapada, Bamani,

World Distri. : Tropical-Asian.

Alysicarpus pubescens Law. var. vasavadae (Hemadri) Sanj.

Herbs. .Fruits pods, long, obovoid.

Fl. & Frts. : October-November.

Distri. : Common on hill slopes and grasses. Asarapani, Daman

World Distri. : Indian

Alysicarpus racemosus Bth.

Herbs. .Pod 3-4 jointed, scarcely moniliform.

Fl. & Frts. : September-November.

Distri. : Common on hill slopes and grasses. Asarapani, Bardi,

World Distri. : Indian

Cajanus sericeus (Bth. ex Baker) van der Maesen.

An erect shrub.

Fl. & Frts. : September-February.

Distri. : Occasional on hill slopes of dry deciduous forest. Khirve, Lalmati,

World Distri. : Indian.

Crotalaria decasperma

Herb.

Fl. & Frts. : September-November.

Distri. : Occasional on hill slopes and valleys. Balghat, Falai,

World Distri. : Indian.

Crotalaria filipes Bth. var. filipes

A prostrate herb.

Fl. & Frts. : August-February.

Distri. : Occasional in grasses and waste lands. Dhamanmal, Bamani,

World Distri. : Indian.

Crotalaria leptostachya Bth.

Tag

A erect shrub, Seeds subreniform.

Fl. & Frts. : October-November.

Distri. : Common on hill slopes and hedges. Nimbari, Kalapani,

World Distri. : Indian.

Crotalaria lutescens Dalz.

Annual undershrubs.

Fl. & Frts. : August-December.

Distri. : Common in grasses and waste lands. Dhamanmal, Baradi,

World Distri. : Indian

Crotalaria madurensis Wight & Arn.

A branched erect undershrubs.

Fl. & Frts. : December-February.

Distri. : Occasional on hill slopes. Astambha,

World Distri. : Indian

Crotalaria naikiana Zate

Pubescent herbs.

Fl. & Frts. : September-November.

Distri. : Occasional on hill slopes and grasses. Nimbari, Kakadmal,

World Distri. : Indian.

Crotalaria pusilla Heyne ex. DC.

A much-branched leafy herb.

Fl. & Frts. : August-October.

Distri. : Common in grasses. Kolasapani, Ambe, Dab,

World Distri. : Indo-Malayan

Crotalaria quinquefolia L.

An erect annual herb.

Fl. & Frts. : November-February.

Distri. : Occasional in waste lands and fields. Dhamanmal,

World Distri. : Tropical-Asian

Crotalaria vestita Baker

15-25 cm tall herbs. Leaves sessile, hairy. Flowers yellow 4-5 in racemes.

Fl. & Frts. : Sep- Feb.

Distri. : In slopes and forest undergrowth.

World Distri. : Indo-Malayan

Desmodium ritchei Sanj.

An erect much-branched herb as an undergrowth..

Fl. & Frts. : September-December.

Distri. : Common in dry deciduous and scrub forest, Debramal, Dab,

World Distri. : Indian.

Indigofera trita L. f. var. **trita**

An undershrub.

Fl. & Frts. : October-January.

Distri. : Occasional in grasses and open areas. Bhusa, Veri,

World Distri. : Paleotropis.

Pterocarpus marsupium Roxb. var. **marsupium** Bibla

A deciduous tree with a stout crooked bark .

Fl. & Frts. : December-March.

Distri. : Occasional on hill slopes.. Bijrigavhan, Nigdi,

World Distri. : Indian.

Smithia purpurea Hook. Burkar.

Herbs.

Fl. & Frts. : September-February.

Distri. : Occasional on hilltops. Falai, Dab,

World Distri. : Indian.

Smithia setulosa Dalz.

Herbs, with densely clothed hairy bristles. .

Fl. & Frts. : August-December.

Distri. : Frequent on hill slopes and open fields. Nimbari, Jhapi,

World Distri. : Indian.

Tephrosia collina Sharma.

Herbs.

Fl. & Frts. : August-October.

Distri. : Occasional in grasses. Akkalkuwa, Jugadi,

World Distri. : Indian.

Vigna khandalensis (Sant.) Raghavan & Wadhwa.

Erect herbaceous, 5-angled.

Fl. & Frts. : September-October.

Distri. : Occasional on hill slopes. Amlibari, Dab,

World Distri. : Indian

Vigna vexillata (L.) A. Rich. var. **vexillata** Bhurmuli

Twining,

Fl. & Frts. : August-December.

Distri. : Occasional on hill slopes. Langda-amba, Kakadmal,

World Distri. : Cosmopolitan.

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