

## Plants and Fungal Diversity from Pimpri Sandas, Pune District, Maharashtra

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### ABSTRACT

Pimpri Sandas small village 1560.49 hectares in Haveli Tehsil. The survey of the locality has been done as a part of social activity and making general floristic awareness to the people from conservation point of view. In all total 18 plant species and 10 species of fungi and lichens were reported from which 08 are pure fungi and 02 are lichenised fungi. Basidiomycetous fungi and plants belongs to Fabaceae are found to be dominant in the locality. Some interesting saxicolous species like *Caloplaca* and *Rhizocarpon* are commonly found in this area.

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### Introduction

Pimpri Sandas village is located in Haveli Tehsil of Pune district in Maharashtra, India. It is situated 30km away from sub-district headquarter Pune and 46km away from district headquarter Pune. As per 2009 stats, Pimpri Sandas is the gram panchayat of Pimpri Sandas village. The total geographical area of village is 1560.49 hectares. Pimpri Sandas has a total population of 3,392 peoples. There are about 645 houses in Pimpri Sandas village. Pune is nearest town to Pimpri Sandas which is approximately 30km away.

During the field survey of the plants from village Pimpri Sandas plants of the Family- Fabaceae were found to be dominant. The village is very much developed but the patches of the vegetation are conserved near the houses. Over all the region is dry and the members like *Acacia* are common.

Table No1. List of plants and family

Sr. No.	Name of the plant	Family
1	<i>Pongamia pinnata</i>	Fabaceae
2	<i>Ficus benghalensis</i>	Moraceae
3	<i>Ficus religiosa</i>	Moraceae
4	<i>Acacia chunara</i>	Fabaceae
5	<i>Cassia tora</i>	Fabaceae
6	<i>Zizyphus jujuba</i>	Rhamnaceae
7	<i>Azadirachta indica</i>	Meliaceae
8	<i>Melia azadirach</i>	Meliaceae
9	<i>Alternanthera sessilis</i>	Amaranthaceae
10	<i>Xanthium strumarium</i>	Asteraceae
11	<i>Sida cordifolia</i>	Malvaceae
12	<i>Sapathodia campanulata</i>	Bignoniaceae
13	<i>Combretum sp.</i>	Combretaceae
14	<i>Polygonum glabrum</i>	Polygonaceae
15	<i>Asclepias curasavica</i>	Apocynaceae
16	<i>Mangifera indica</i>	Anacardiaceae
17	<i>Polyalthia longifolia</i>	Annonaceae
18	<i>Albizia lebeck</i>	Fabaceae

Table No 2. Dominant Family of the area

Sr. No.	Name of the Family	No of Individuals
1	Fabaceae	04
2	Moraceae	02
3	Rhamnaceae	01
4	Meliaceae	01
5	Amaranthaceae	01
6	Asteraceae	01
7	Malvaceae	01
8	Bignoniaceae	01
9	Combretaceae	01
10	Polygonaceae	01
11	Apocynaceae	01
12	Anacardiaceae	01
13	Annonaceae	01

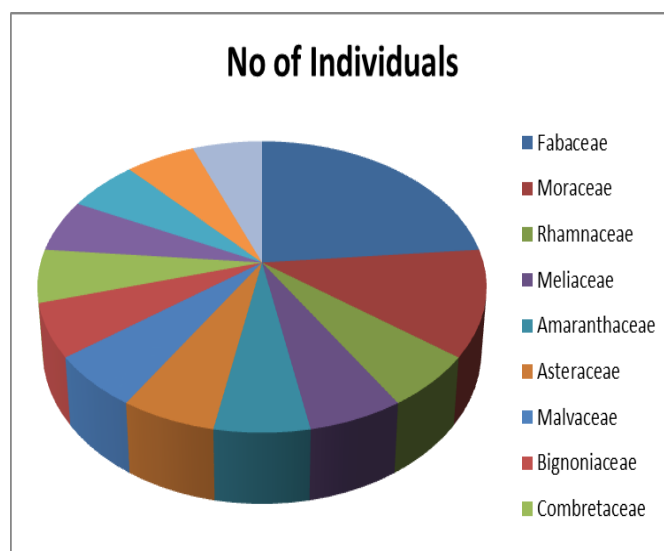


Figure No 1. Dominant Families of plants and their distribution.



**Figure No 2.** a) *Pongamia glabra* b) *Ficus benghalensis* c) *Ficus religiosa* d) *Cassia* sp. e) *Azadiracta indica* f) *Acacia* sp. g) *Polygonum glabrum* h) *Sida* i) *Alternanthera sessilis* j) *Xanthium strumarium* k) *Asclepias curassavica* l) *Polyalthia longifolia* m) *Albizia lebbek* n) *Spathodia campanulata*.



**Figure No 3.** A) *Xylaria*, B) *Caloplaca*, C) *Auricularia*, D) *Inonotus*, E) *Daedalea*, F) *Rhizocarpon*, G) *Cercospora*.

#### List of Fungi survey during NSS Camp to Pimpri-Sandas

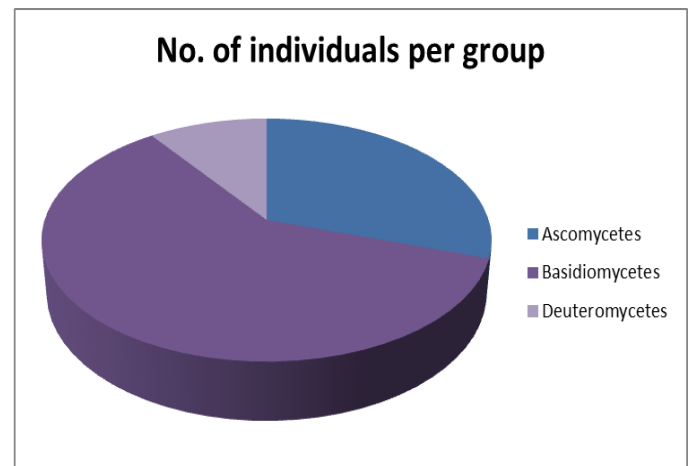
During this survey some of the lichen species are found on rocks. The trees were not showing the lichens at all which shows the region is equally polluted as that of the city. The wooden logs shows common members of the fungal community from Ascomycetes and Basidiomycetes. Fungi from Basidiomycetes are found to be dominant in the given locality.

**Table No 3.** List of Fungi/Lichens and Group.

Sr. No.	Name of the Fungus/Lichen	Group
1	<i>Xylaria</i> sp.	Ascomycetes
2	<i>Coprinus</i> sp.	Basidiomycetes
3	<i>Agaricus</i> sp.	Basidiomycetes
4	<i>Inonotus</i> sp.	Basidiomycetes
5	<i>Auricularia</i> sp.	Basidiomycetes
6	<i>Daedalea</i> sp.	Basidiomycetes
7	<i>Puccinia</i> sp.	Basidiomycetes
8	<i>Cercospora</i> sp.	Deuteromycetes
9	<i>Rhizocarpon</i> sp.	Ascomycetes
10	<i>Caloplaca</i> sp.	Ascomycetes

**Table No 4.** Dominant fungal Groups of the area.

Name of the Fungus	Group	No. of individuals per group
<i>Xylaria</i> sp.	Ascomycetes	03
<i>Rhizocarpon</i> sp (Lichen).		
<i>Caloplaca</i> sp.(Lichen)		
<i>Coprinus</i> sp.	Basidiomycetes	06
<i>Agaricus</i> sp.		
<i>Inonotus</i> sp.		
<i>Auricularia</i> sp.		
<i>Daedalea</i> sp.		
<i>Puccinia</i> sp.		
<i>Cercospora</i> sp.	Deuteromycetes	01



**Figure No 4.** Comparative data of the groups of fungi.

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