

## ARBOREAL FLORA OF SOLAPUR CORPORATION

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**Abstracts-** Solapur is basically found on the south-eastern border of Maharashtra state and touches the border of Karnataka state. The Solapur city is spread on 180 Sq. Km. It covers 30 private, Institutional, Corporate gardens and one park. There are two lakes in corporation area, also some private government nurseries. Sideheshwar Van Vihar, a forest developed by Social forest department which is nearby the city belongs from corporation area. The arboreal flora of corporation is mostly of cultivated tree species and a very few number belongs from wild tree species. The present study reveals the tree species planted in private places, corridor, private garden, along roadside, institutional and government garden, nurseries and parks which reports 136 tree species belongs from 42 Families. Out of which 130 species are from dicotyledonae, 6 species from monocotyledonae. In the present paper the checklist of tree species along with the flower colour, period of flowering and vernacular names if any are provided.

**Key words:** Arboreal Flora, Solapur Corporation area,

### INTRODUCTION

Solapur is located on the south-eastern border of Maharashtra state and touches the border of Karnataka state. Solapur lies in the Seena and Bhima basins. It is located between 17.10 to 18.32 degrees to the north latitude while it is about 74.42 to 76.15 degrees to the east longitude. The elevation of Solapur city is 483.63 m above mean sea level. The total area of the city is 180 sq. m. Solapur city has variety of soil types which like black soil, coarse gray soil and reddish soil. The soil is shallow and poor, and does not retain moisture. The Average Rainfall is - 545.4 mms. (Min.415.3 mms and Max.1128.4 mms. in last 10 years) Solapur stands last in rainfall in Maharashtra state. The maximum temperature is 46 degrees Celsius and minimum temperature is 9 degrees Celsius.

The arboreal flora of Solapur is includes majority of cultivated species and very few number of wild tree species, which is very typical and interesting. No authentic Flora of Solapur district has been published until today. A very little attention has been paid to study the plant diversity of Solapur district and corporation area. Cooke has published a, 'Flora of the Presidency of Bombay'. But he has covered very few plants from Solapur district. The 'Flora of Maharashtra' is published by B. S. I. in 3 volumes (2000). In this recent research work only 80 plants are reported from entire Solapur district. There is no any separate authentic report on the arboreal flora of Solapur city is available in literature, so present work has been undertaken. The present work is outcome of two years innovations.

### MATERIAL AND METHOD

The frequent visits were arranged from last two years to city corporation area in different seasons. All the collected specimens were numbered and properly processed. Specimens were identified by using various regional and national floras and available literature of, Cooke, T. (1901-1908), Kate, Y. G. (1987), Mahajan and Vaidya (1987), Naik, V.N (1998), Sharma B. D., S. Karhikeyan and N. P. Singh (1996), Singh N. P., and S. Karthikeyan, (2000), Singh, N. P., P. Lakshminarasimhan, S. Karthikeyan; and P. V. Prasanna. (2001), Yadav, S. R., Sardesai, M. M. 2002. Identification was confirmed by the plant experts of Shivaji University, Kolhapur and Taxonomists of affiliated college of Solapur and Shivaji University. The voucher specimens were deposited in the Herbarium, Botany Department, Vidnyan Mahavidyalaya, Sangola. In the enumeration the sequence of families has been followed as per Bentham and Hooker's classification. The nomenclature has been based on the latest taxonomic literature for each species; botanical name is followed by local name if any, colour of flowers and period of flowering.

### RESULT AND DISCUSSION

The present work reports 136 species of angiosperms belonging to 42 families. Out of 136 species, 130 species are of dicotyledons and 6 species are of monocotyledons. The family Mimosaceae has the largest number of species followed by Caesalpinaceae.

| Groups         | Families | Genera | Species |
|----------------|----------|--------|---------|
| Dicotyledons   | 40       | 96     | 130     |
| Monocotyledons | 02       | 06     | 06      |
| Total          | 42       | 102    | 136     |

| Families       | No. of Species |
|----------------|----------------|
| Mimosaceae     | 16             |
| Caesalpinaceae | 14             |
| Moraceae       | 10             |
| Bignoniaceae   | 09             |
| Fabaceae       | 08             |

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Table 1-

| Name of Family & Plant  | Local Name      | Flower Colour | Flr. & Fru. Period |
|---|-----------------|---------------|--------------------|
| <b>Magnoliaceae</b>   |                 |               |                    |
| <i>Michelia champaca</i> L.                                   | Pivla-chafa     | BY            | April - Sept.      |
| <b>Annonaceae</b>   |                 |               |                    |
| <i>Annona reticulata</i> L.                                   | Ramphal         | GW            | July - Nov.        |
| <i>Annona squamosa</i> L.                                     | Sitaphal        | G             | Mar. - Dec.        |
| <i>Polyalthia longifolia</i> (Sonn.) Thw.                     | Ashok           | GW            | Mar. - Sept.       |
| <i>Polyalthia longifolia</i> (Sonn.) Thw. var. <i>pendula</i> | Ulta Ashok      | GW            | Mar. - Sept.       |
| <b>Capparaceae</b>  |                 |               |                    |
| <i>Capparis decidua</i> (Forssk.) Edgew.                      | Nepti           | O Y           | Throughout year    |
| <i>Capparis divaricata</i> Lam.                               | Pachunda        | YG            | Feb. - Sept.       |
| <b>Flacourtiaceae</b>   |                 |               |                    |
| <i>Flacourtia indica</i> (Burm.f.) Merr.                      | Hekal           | GW            | Jan. - July        |
| <b>Malvaceae</b>  |                 |               |                    |
| <i>Thespesia populnea</i> (L.) Soland. ex Corr.               | Parosa pimpal   | LY            | Feb. - Sept.       |
| <b>Bombacaceae</b>  |                 |               |                    |
| <i>Adansonia digitata</i> L.                                  | Gorakh chinch   | W             | May - Oct.         |
| <i>Bombax ceiba</i> L.  | Kate Savar      | R             | Feb. - June        |
| <i>Ceiba pentandra</i> (L.) Gaertn.                           | Panhari - Savar | W             | Jan. - June        |
| <b>Sterculiaceae</b>  |                 |               |                    |
| <i>Dombeya acutangula</i> Cav.                                |                 | W             | Dec. - Jan.        |
| <i>Guazuma ulmifolia</i> Lam.                                 | Rudrakshi       | Y             | Mar. - Oct.        |
| <i>Pterospermum acerifolium</i> (L.) Willd.                   | Muchkund        | W             | Dec. - June        |
| <i>Sterculia urens</i> Roxb.                                  | Kandol          | R             | Dec. - May         |
| <b>Rutaceae</b>   |                 |               |                    |
| <i>Aegle marmelos</i> (L.) Corr.                              | Bel             | GW            | April - Nov.       |
| <i>Citrus aurantifolia</i> (Christm. & Pranz.) Swing.         | Limbu           | W             | Throughout year    |
| <i>Limonia acidissima</i> L.                                  | Kavath          | R             | Mar. - Aug.        |
| <i>Murraya koenigii</i> (L.) Spr.                             | Kadi-patta      | GW            | Feb. - June        |

Arboreal flora of Solapur corporation

|  |               |       |                 |
|--|---------------|-------|-----------------|
| <b>Simaroubaceae</b>                                       |               |       |                 |
| <i>Ailanthus excelsa</i> Roxb.                             | Maharukh      | G     | Jan. - July     |
| <b>Balanitaceae</b>  |               |       |                 |
| <i>Balanites aegyptiaca</i> (L.) Del.                      | Hingan bet    | GW    | Mar. - June     |
| <b>Meliaceae</b>   |               |       |                 |
| <i>Azadirachta indica</i> A. Juss.                         | Neem          | W     | Mar. - June     |
| <i>Melia azedarach</i> L.                                  | Limbara       | V     | Jul. - Aug.     |
| <b>Rhamnaceae</b>  |               |       |                 |
| <i>Ziziphus mauritiana</i> Lam.                            | Bor           | GW    | Sept. - Oct.    |
| <i>Ziziphus nummularia</i> (Burm. f.) Wight & Arn.         | Bor           | GW    | Oct. - Dec.     |
| <b>Sapindaceae</b>   |               |       |                 |
| <i>Sapindus emarginatus</i> Vahl                           | Ritha         | W/GW  | Feb. - May      |
| <i>Sapindus laurifolius</i> Vahl                           | Ritha         | W/GW  | Nov. - Mar.     |
| <b>Anacardiaceae</b>                                       |               |       |                 |
| <i>Anacardium occidentale</i> L.                           | Kaaju         | Y     | Dec. - May      |
| <i>Mangifera indica</i> L.                                 | Amba          | W     | Jan - June      |
| <b>Moringaceae</b>   |               |       |                 |
| <i>Moringa oleifera</i> Lam.                               | Shevaga       | W     | Jan. - April    |
| <b>Fabaceae</b>  |               |       |                 |
| <i>Butea monosperma</i> (lam.) Taub.var. <i>monosperma</i> | Palas         | O     | Jan. - June     |
| <i>Dalbergia latifolia</i> Roxb.                           | Shisav        | CW    | Aug - Dec.      |
| <i>Dalbergia sissoo</i> Roxb.                              | Shisahm       | W     | Feb. - Oct.     |
| <i>Erythrina variegata</i> L.                              | Pangara       | R     | Jan. - June     |
| <i>Gliricidia sepium</i> (Jacq.) Kunth ex Walp.            | Giripushpa    | P     | Feb. - Mar.     |
| <i>Pongamia pinnata</i> (L.) Pierre                        | Karanj        | W, Pr | Feb - May       |
| <i>Sesbania grandiflora</i> (L.) Poir.                     | Hadaga        | W     | Nov. - Feb.     |
| <i>Sesbania sesban</i> (L.) Merr.                          | Shevari       | Y     | Feb. - Mar.     |
| <b>Caesalpinaceae</b>                                      |               |       |                 |
| <i>Bauhinia purpurea</i> L.                                | Rakta-Kanchan | Pr    | Oct. - Jan.     |
| <i>Bahunia racemosa</i> Lam.                               | Apta          | W, Y  | Apr. - Oct.     |
| <i>Bahunia variegata</i> L.                                | Kanchan       | W, Pr | Throughout year |
| <i>Caesalpinia pulcherrima</i> (L.) Sw.                    | Shankasur     | Y/R   | Throughout year |
| <i>Cassia fistula</i> L.                                   | Bahava,       | Y     | Apr. - Oct.     |

|   |                    |        |                 |
|---|--------------------|--------|-----------------|
| <i>Cassia javanica</i> L.   |                    | P      | April - June    |
| <i>Cassia siamea</i> lam.   | Kashid             | Y      | Aug. - June     |
| <i>Delonix elata</i> (L.) Gamble  | Pivala Gulmohor    | Y      | June - Dec.     |
| <i>Delonix regia</i> (Boj. ex Hook.) Raf.   | Gul - mohor        | S/R O  | April - Sept.   |
| <i>Hardwickia binata</i> Roxb.  | Anjan              | YG     | Aug. - Jan.     |
| <i>Parkinsonia aculeata</i> L.  | Vilayati Khair     | Y      | Apr. - Nov.     |
| <i>Peltophorum pterocarpum</i> DC. Baker ex K. Heyne                              | Sonmohor           | Y      | Jan. - June     |
| <i>Saraca asoca</i> (Roxb.) de Wilde  | Sitecha Ashok,     | O-Y    | Jan. - June     |
| <i>Tamarindus indica</i> L.   | Chinch             | Y      | Feb. - June     |
| <b>Mimosaceae</b>   |                    |        |                 |
| <i>Acacia catechu</i> (L.f.) Willd.   | Khair              | PY     | Jul. - Feb.     |
| <i>Acacia chundra</i> (Roxb. ex Rottl.) Willd.                                    | Lal Khair          | PY     | Throughout year |
| <i>Acacia leucophloea</i> (Roxb.) Willd.  | Hiwar              | W-Y    | Aug. - Feb.     |
| <i>Acacia longifolia</i> Willd.   | Australian Babhul  | BY     | Aug. - Nov.     |
| <i>Acacia mangium</i> Willd.  | Australian Babhul  | Y      | Jan. - Mar.     |
| <i>Acacia nilotica</i> (L.) Willd. ssp. <i>indica</i> (Bth)                       | Babul              | Y      | Throughout year |
| <i>Acacia nilotica</i> (L.) Willd. ssp. <i>cupressiformis</i> (J. L. Stewart)     | Ramkathi           | Y      | Aug. - Feb.     |
| <i>Adenanthera pavonina</i> L.  | Thorla-gunj        | PY     | Mar. - May      |
| <i>Albizia labbeck</i> (L.) Bth. Var <i>lebbeck</i>                               | Shirish, Chinchola | W      | Apr. - Aug.     |
| <i>Dichrostacys cinerea</i> (L.) Wight & Arn. var. <i>indica</i> Branen & Brummit | Durangi babhul     | Y, R/P | Aug. - Dec.     |
| <i>Leucaena latisiliqua</i> (L.) Gillis   | Subabhul           | W      | Throughout year |
| <i>Parkia biglandulosa</i> Wight & Arn.   | Chenduphal         | W      | Dec. - May      |
| <i>Pithecellobium dulce</i> (Roxb.) Bth.  | Wilayati Chinch    | DW     | Jan.- June      |
| <i>Prosopis cineraria</i> (L.) Druce  | Shami, Sondad      | Y      | Nov. - April    |

Arboreal flora of Solapur corporation

|   |                  |       |                 |
|---|------------------|-------|-----------------|
| <i>Prosopis juliflora</i> (Swartz.) DC.                             | Wilayati Babhul  | PY    | Feb. - May      |
| <i>Samanea saman</i> (Jacq.) Merr.                                  | Parjanya Vruksha | P     | May - Sept.     |
| <b>Combrataceae</b>   |                  |       |                 |
| <i>Anogeissus latifolia</i> (Roxb. ex DC.) Wall. ex Guill. & Perr.  | Dhawda           | G-Y   | Mar - Sept.     |
| <i>Terminalia bellirica</i> (Gaertn.) Roxb.                         | Behada           | YB    | May - Sept.     |
| <i>Terminalia catappa</i> L.  | Deshi Badam      | W/ YG | Apr. - Oct.     |
| <i>Terminalia cuneata</i> Roth.                                     | Arjun Sadada     | G     | Feb. - Nov.     |
| <b>Myrtaceae</b>  |                  |       |                 |
| <i>Callistemon citrinus</i> (Curtis) Skeels                         | Bottle brush     | CR    | Throughout year |
| <i>Eucalyptus globulus</i> Labill.                                  | Nilgiri          | WY    | Feb. - May      |
| <i>Psidium guajava</i> L.   | Peru             | W     | Nov. - June     |
| <i>Syzygium cumini</i> (L.) Skeels                                  | Jambhul          | W     | Mar. - June     |
| <b>Lecythidaceae</b>  |                  |       |                 |
| <i>Couropita guianensis</i> Abul.                                   | Kailashpati      | R     | Sept. - Nov.    |
| <b>Lythraceae</b>   |                  |       |                 |
| <i>Lagerstroemia reginae</i> Roxb.                                  | Tamas            | Pr    | Aug - Oct.      |
| <i>Lawsonia inermis</i> L.  | Mehndi           | W     | Jan. - Dec.     |
| <b>Punicaceae</b>   |                  |       |                 |
| <i>Punica granatum</i> L.   | Dalimb           | R     | Aug. - Nov.     |
| <b>Caricaceae</b>   |                  |       |                 |
| <i>Carica papaya</i> L.   | Papai            | G-Y   | Throughout year |
| <b>Alangiaceae</b>  |                  |       |                 |
| <i>Alangium salvifolium</i> (L.f.) Wangerin ssp. <i>salvifolium</i> | Ankol            | CW    | Feb. - Apr.     |
| <b>Rubiaceae</b>  |                  |       |                 |
| <i>Catunaregam spinosa</i> (Thunb.) Tirveng.                        | Gela             | W     | Mar. - Nov.     |
| <i>Gardenia resinifera</i> Roth.                                    | Dikamali         | W     | Jan. - Sept.    |
| <i>Ixora pavetta</i> Andr.  | Lokhandi         | W     | Throughout year |
| <i>Mitragyna parvifolia</i> (Roxb.) Korth                           | Kalamb           | G-Y   | Throughout year |
| <i>Morinda citrifolia</i> L.  | Bartondi         | W     | Aug. - Mar.     |

|  |                  |      |                 |
|--|------------------|------|-----------------|
| <i>Morinda pubescens</i> J.E. Sm.                                    | Bartondi         | CW   | Mar - Dec.      |
| <i>Neolamarckia cadamba</i> (Roxb.)                                  | Kadamb           | W/CY | Nov. - Feb.     |
| <b>Sapotaceae</b>  |                  |      |                 |
| <i>Manilkara zapota</i> (L.) van Royen                               | Chikku           | W    | Throughout year |
| <i>Mimusops elengi</i> L.  | Bakul            | W    | Jan. - Mar.     |
| <b>Ebenaceae</b>   |                  |      |                 |
| <i>Diospyros melanoxylon</i> Roxb.                                   | Tembhurni        | Br   | Feb - April     |
| <b>Oleaceae</b>  |                  |      |                 |
| <i>Nyctanthes arbor-tristis</i> L.                                   | Parijatak        | W    | Throughout year |
| <b>Salvadoraceae</b>   |                  |      |                 |
| <i>Salvadora persica</i> L. var. <i>wightiana</i> (Planch. ex. Thw.) | Pilu             | G-Y  | Nov. - Feb.     |
| <b>Apocynaceae</b>   |                  |      |                 |
| <i>Alstonia scholaris</i> (L.) R. Br.                                | Saptarni         | GW   | Dec. - Mar.     |
| <i>Plumeria rubra</i> L.   | Lal Chapha       | W/R  | Mar - Sept.     |
| <i>Wrightia tinctoria</i> R. Br.ssp. <i>Tinctoria</i>                | Kala Kuda        | W    | Mar. - May      |
| <b>Boraginaceae</b>  |                  |      |                 |
| <i>Cordia dichotoma</i> Forst. f.                                    | Bhokar           | W    | Feb - June      |
| <i>Cordia gharaf</i> (Forssk.) Ehrenb & Asch.                        | Gondani          | W    | April - Oct.    |
| <i>Cordia sebestena</i> L.   |                  | O R  | Jan. - July     |
| <b>Bignoniaceae</b>  |                  |      |                 |
| <i>Dolichandrone falcata</i> (Wall. ex DC.) Seem                     | Medsingi         | W    | Mar. - Dec.     |
| <i>Jacaranda acutifolia</i> Humb. & Bonpl.                           | Nil-Mohar        | Bl   | Mar. - Oct.     |
| <i>Kigelia africana</i> (Lam.) Bth.                                  | Hattiphal        | DPr  | Mar. - Oct.     |
| <i>Millingtonia hortensis</i> L. f.                                  | Booch/Akash Neem | W    | Sept. - Dec.    |
| <i>Spathodea campanulata</i> P. Beauv.                               | Pichkari         | O C  | Jul. - Mar.     |
| <i>Tabebuia argentea</i> (Bru. & Schum.) Britt.                      |                  | BY   | Mar. - May      |
| <i>Tabebuia pallida</i> (Lindl.) Miers                               |                  | P/W  | Mar. - May      |
| <i>Tabebuia rosea</i> (Bertol.) DC.                                  |                  | P    | Dec - April     |
| <i>Tecoma stans</i> (Linn.) H. B. & K.                               | Pivali Phutani   | Y    | Throughout year |

Arboreal flora of Solapur corporation

|  |             |       |                 |
|--|-------------|-------|-----------------|
| <b>Verbenaceae</b>                             |             |       |                 |
| <i>Gmelina arborea</i> Roxb.                   | Shivan      | Y     | Feb. - Jul.     |
| <i>Tectona grandis</i> L. f.                   | Saag        | W     | Aug. - Dec.     |
| <i>Vitex negundo</i> L. var. <i>negundo</i>    | Nirgudi     | BP    | Jan. - June     |
| <b>Proteaceae</b>                              |             |       |                 |
| <i>Grevillea robusta</i> A. Cunn. ex. R. Br.   | Silver Oak  | G-Y   | Mar - July      |
| <b>Santalaceae</b>                             |             |       |                 |
| <i>Santalum album</i> L.                       | Chandan     | Br-Pr | Mar. - Aug.     |
| <b>Euphorbiaceae</b>                           |             |       |                 |
| <i>Drypetes roxburghii</i> (Wall.) Hurusawa    | Putranjiv   | GW    | April - Oct.    |
| <i>Emblica officinalis</i> Gaertn.             | Avala       | GW    | Feb - Oct       |
| <i>Ricinus communis</i> L.                     | Erand       | Y     | Feb. - June     |
| <b>Ulmaceae</b>                                |             |       |                 |
| <i>Holoptelea integrifolia</i> (Roxb.) Planch. | Wavli       | Br    | Jan. - June     |
| <b>Moraceae</b>                                |             |       |                 |
| <i>Artocarpus incisus</i> L.f.                 | Kapa Phanas | G     | Sept -Jan       |
| <i>Ficus amplissima</i> J. E. Sm.              | Pimparni    | WY    | April - Sept.   |
| <i>Ficus benghalensis</i> L.                   | Wad         | WY    | April - June    |
| <i>Ficus benjamina</i> L.                      |             | WY    | Apr. - May      |
| <i>Ficus carica</i> L.                         | Anjir       | WY    | March - May     |
| <i>Ficus elastica</i> Roxb. ex. Horn           | Rubber tree | WY    | not seen        |
| <i>Ficus microcarpa</i> L. f.                  | Nandruk     | WY    | March - June    |
| <i>Ficus racemosa</i> L.                       | Umbar       | WY    | Feb. - June     |
| <i>Ficus religiosa</i> L.                      | Pimple      | WY    | March - Aug.    |
| <i>Morus alba</i> L.                           | Tuti        | WY    | Jul. - Mar.     |
| <b>Casuarinaceae</b>                           |             |       |                 |
| <i>Casuarina equisetifolia</i> L.              | Suru        | G     | Feb. - March    |
| <b>Araceae</b>                                 |             |       |                 |
| <i>Areca catechu</i> L.                        | Supari      | Y     | Throughout year |
| <i>Caryota urens</i> L.                        | Bherli-mad  | Y     | Throughout year |



|   |             |    |                            |
|---|-------------|----|----------------------------|
| <i>Cocos nucifera</i> L.                  | Naral       | GW | Throughout year            |
| <i>Phoenix sylvestris</i> (L.) Roxb.      | Shindi      | W  | Jan. - Oct.                |
| <i>Roystonea regia</i> (H.B& K.) Cooke    | Bottle Palm | GW | Sept. - Mar.               |
| <b>Poaceae</b>                            |             |    |                            |
| <i>Bambusa aurundinacea</i> (Retz.) Willd | Kalak       | Br | Once in life, Sept. - May. |

**ABBREVIATIONS**

Bl – Blue

BY - Bright Yellow

CY - Creamy-yellow

GW - Greenish-White

P – Pink

RO - Reddish-Orange

WY -Whitish-Yellow

BP - Bluish-Purple

C – Crimson

DPr - Dark Purple

LY - Light-Yellow

Pr – Purple

S – Scarlet

Y – Yellow

Br – Brownish

CR - Crimson-Red

DW - Dull White

O – Orange

PY - Pale-Yellow

V – Violet

YB - Yellowish-Brown

BrP - Brownish-Purple

CW - Creamy-white

G -Green, Greenish

OY - Orange-Yellow

R – Red, Reddish

W - White, Whitish

YG - Yellowish-Green