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### A preliminary exploration of Kudumulavari palli vascular flora, Peddamandyam mandal, Chittoor district, Andhra Pradesh, India

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### Abstract

In the present investigation, 100 vascular plants were deeply explored and recorded from the surroundings of Kudumulavari palli. The assessment was done by covering different habitats; and provided detailed information with Scientific name, Family, Habit, Habitat, Abundance, and associate plants along with pictorial evidence.

Keywords Kudumulavari palli, Vascular flora and Exploration

### Introduction

The floristic explorations will provide information about the updated nomenclature, abundance, and distribution; and have the paramount importance in understanding the plant diversity, helpful in identifying the source for different products like medicine, fibre, gums, etc., the plants are a source of food, shelter clothing, and medicine which are the basic need for the existence of human beings on the planet; Flora is key components of the global ecosystem, are now severe threat due to over-exploitation by human activities urbanization and industrialization, etc., The natural wealth of forests are depleting at an alarming rate accompanied the species loss, resulting in an imbalance of natural environment. In this contest, there is an urgent need for exploration and documentation of plant resources for the social, economic, and cultural growth of any country (Pullaiah et al. 2018).

Explored and collected plants intensively throughout the presidency including Telugu speaking districts and specimens were housed in K, CAL, MH, and DD; and wrote the "Flora of Presidency of Madras"(Gamble et al. 1915-1935).

Exploration of flora by plant taxonomists is proverbial throughout the world to have information about the plants. Flora is a compilation of all plant species

growing in any geographic area. Through these floristic studies, valuable data is recorded which could be used as a reference for future studies. Floristic studies are helpful in the proper identification of plant-wealth for their utilization on a scientific and systematic basis. The identification of local plants along with the description of an area is very important because it can show specific species of the local area and their occurrence, growing season, species hardness, distinct species, finding new species and the effect of climatic conditions like drought and overgrazing on vegetation. The study of floristic composition of the vegetation is crucial for conservation management and the ecologically sustainable management of natural resources that provides the starting point for more detailed study. It aids in the identification and correct naming of species, essential biodiversity estimates and biogeographic resources for studies. Furthermore, this information provides important public outreach and fundamental information to use in addressing the biodiversity crisis. Floristic study and assessments are necessary to understand the diversity present diversity status and conservation of biodiversity. importance Floristic studies acquire increasing in recent years in response to the need of developing

and under developing countries to assess their plant wealth (Siddique et al. 2014)

### Methodology

All plants are identified with Flora of Presidency of Madras, Flora of Andhra Pradesh, Trees of Andhra Pradesh through

their habit and habitat information and with their photographs; and recorded information about Scientific name, Family, Habit, Habitat, Abundance and with their associate plants (Table-1; Plate-1; Plate-2; Plate-3; Plate-4; Plate-5; Plate-6; Plate-7; Plate-8; Plate-9; Plate-10; Plate-11)

### Table 1 Enumeration list of vascular plants

| S.       |  |                                       |          |                                     |            |   |
|----------|--|---------------------------------------|----------|-------------------------------------|------------|---|
| No.      | Scientific Name                              | Family                                | Habit    | Habitat                             | Abundance  | Associate Plants                                      |
|          |  | e e e e e e e e e e e e e e e e e e e |          | Among rocks of                      |            |   |
| 1        | Acalypha scabrosa Sw.                        | Euphorbiaceae                         | Shrub    | mounds                              | Occasional | Cymbopogon caesius                                    |
|          | Ageratum conyzoides                          |                                       |          |                                     |            |   |
| 2        | L.   | Asteraceae                            | Herb     | Along water bodies                  | Occasional | Cyanotis axillaris                                    |
|          | Alangium salviifolium                        |                                       |          | Along streams and                   |            |   |
| 3        | (L.f.) Wangerin                              | Cornaceae                             | Tree     | fields                              | Rare       | Borasus flabellifer                                   |
|          | Andrographis                                 |                                       |          |                                     |            |   |
|          | serpyllifolia (Rottler ex                    |                                       |          |                                     |            |   |
| 4        | Vahl) Wight                                  | Acanthaceae                           | Herb     | Forest peripheries                  | Rare       | Oldelandia umbellate                                  |
|          |  |                                       |          | Along bunds of fields               |            |   |
| 5        | Ariatida antanan Data                        | Desses                                | Harb     | and other sun exposing              | Common     | C   |
| 5        | Aristida setacea Retz.<br>Azadirachta indica | Poaceae                               | Herb     | areas of hills<br>Fields and forest | Common     | Cymbopogon caesius                                    |
| 6        | A.Juss.                                      | Fabaceae                              | Tree     | outskirts streams                   | Common     | Phoenix sylvestris                                    |
|          |  | 1 40 40 0 40                          | 1100     | Fields and forest                   | Common     | Phyllanthus   |
| 7        | Boerhavia diffusa L.                         | Nyctaginaceae                         | Herb     | peripheries                         | Common     | maderaspatanus  |
| 8        | Borassus flabellifer L.                      | Arecaceae                             | Tree     | Along canals                        | Occasional | Phoenix sylvestris                                    |
| 0        | Calotropis gigantea                          | 1110000000                            |          | Fields and forest                   |            |   |
| 9        | (L.) W.T.Aiton                               | Apocynaceae                           | Shrub    | peripheries                         | Common     | Lantana camera  |
|          | Caralluma adscendens                         |                                       |          | Wastelands and forest               |            | Catunaregum   |
| 10       | (Roxb.) Haw.                                 | Apocynaceae                           | Shrub    | outskirts                           | Rare       | spinosa   |
|          | ~ · · · ·                                    |                                       | <i>.</i> | Fields and Forest                   |            | -   |
| 11       | Carissa spinarum L.                          | Apocynaceae                           | Shrub    | outskirts                           | Occasional | Lantana camera  |
| 12       | <i>Cascabela thevetia</i> (L.)<br>Lippold    | Anogunggaga                           | Shrub    | Along conols                        | Rare       | Catunaregum<br>spinosa                                |
|          |  | Apocynaceae                           |          | Along canals                        |            |   |
| 13       | Cassia fistula L.                            | Fabaceae                              | Tree     | An hill slopes                      | Occasional | Canthium dicoccum                                     |
|          | Catunaregam spinosa                          |                                       |          |                                     |            |   |
| 14       | (Thunb.) Tirveng.                            | Rubiaceae                             | Shrub    | Forest outskirts                    | Common     | Flacourtia indica                                     |
| 15       | Chloris barbata Sw.                          | Poaceae                               | Herb     | In Fields                           | Common     | Commelina undulate                                    |
| 15       | Shoris burbutu Siv.                          | 1 Ouccue                              | 11010    | Bunds of fields,                    | Common     |   |
|          | Chrysopogon fulvus                           |                                       |          | Wastelands and sun                  |            | Lophopogon  |
| 16       | (Spreng.) Chiov.                             | Poaceae                               | Herb     | exposing rocky hills                | Common     | tridentatus   |
|          | Cissus quadrangularis                        |                                       |          |                                     |            |   |
| 17       | L.   | Vitaceae                              | Climber  | Forest outskirts                    | Occasional | Flacourtia indica                                     |
| 10       | <i>C</i> 1                                   | Class                                 |          | Along human                         | Gam        |   |
| 18       | Cleome gynandra L.                           | Cleomaceae                            | Herb     | habitations and fields              | Common     | <i>Cleome monophylla</i><br><i>Perotis indica</i> and |
|          |  |                                       |          |                                     |            | Spermacoce  |
| 19       | Cleome monophylla L.                         | Cleomaceae                            | Herb     | In Fields                           | Occasional | articualaris  |
|          |  |                                       |          | Along human                         |            |   |
| 20       | Cleome viscosa L.                            | Cleomaceae                            | Herb     | habitations and fields              | Common     | Tephrosia purpurea                                    |
|          | Coccinia grandis (L.)                        |                                       |          | Along human                         |            |   |
| 21       | Voigt  | Cucurbitaceae                         | Climber  | habitations and streams             | Occasional | Cryptostegia grandis                                  |
|          | Combretum                                    |                                       |          |                                     |            | Pterolobium   |
| 22       | ovalifolium Roxb. ex                         | Combretaceae                          | Liana    | Hill slopes                         | Occasional | hexapetalum   |
| <u> </u> | oranjonani Rozo. Cz                          | combretaceae                          | Liana    | init stopes                         | Occusional | пслиренини  |

|          | G.Don   |                      |                    |  |                          |   |
|----------|---|----------------------|--------------------|--|--------------------------|---|
|          | Commelina undulata                                    |                      |                    |  |                          |   |
| 23       | R.Br.   | Commelinaceae        | Herb               | In Fields  | Common                   | Cholris barbata                                       |
| 24       | Crinum latifolium L.                                  | Amaryllidaceae       | Herb               | Among rocks of mounds and hills                    | Rare                     | Senna monatana  |
| 25       | Crotalaria hebecarpa<br>(DC.) Rudd                    | Fabaceae             | Herb               | Forest outskirts                                   | Occasional               | Andrographis<br>serpilifolia                          |
|          | Crotalaria paniculata                                 |                      |                    |  |                          |   |
| 26       | Willd. Cryptostegia                                   | Fabaceae             | Herb               | Forest peripheries                                 | Occasional               | Tephrosia purpurea                                    |
| 27       | grandiflora Roxb. ex<br>R.Br.                         | Apocynaceae          | Straggler          | Along streams and embakment of ponds               | Occasional               | Lantana camera  |
| 28       | <i>Cyanotis axillaris</i> (L.)<br>D.Don ex Sweet      | Commeliaceae         | Herb               | In fields  | Occasional               | Phyllanthus<br>maderaspatanus                         |
|          | Cyanthillium albicans                                 |                      |                    |  |                          |   |
| 29       | (DC.) H.Rob.  | Asteraceae           | Herb               | On hills and slopes                                | Occasional               | Sida cordata  |
| 30       | Cycas sphaerica Roxb.<br>Dalbergia lanceolaria        | Cycadaceae           | Palm               | On high elevation hills                            | Rare                     | Cymbopogon caesius                                    |
| 31       | subsp. <i>paniculata</i><br>(Roxb.) Thoth             | Fabaceae             | Tree               | Forest peripheries and on hills                    | Occasional               | Azadirachta indica                                    |
| 32       | Datura innoxia Mill.                                  | Solanaceae           | Herb               | Wastelands   | Common                   | Tephrosia purpurea                                    |
| 33       | <i>Dendrophthoe falcata</i> (L.f.) Ettingsh.          | Loranthaceae         | Epiphytic<br>shrub | Along streams                                      | Occasional               | <i>Catunaregum</i><br>spinosa and<br>Pongamia pinnata |
| 34       | Dichrostachys cinerea<br>(L.) Wight & Arn.            | Fabaceae             | Tree               | Forest outskirts                                   | Occasional               | Lantana camera  |
| 35       | Dodonaea viscosa Jacq.                                | Sapindaceae          | Shrub              | Forest peripheries and<br>on rocky hills           | Common                   | Senna monatana  |
| 36       | <i>Eclipta prostrata</i> (L.)<br>L.                   | Asteraceae           | Herb               | Along water bodies                                 | Common                   | Phyllanthus<br>maderaspatanus                         |
|          | Epaltes divaricata                                    |                      |                    |  |                          | Polycarpon  |
| 37       | Cass.<br>Eriocaulon                                   | Asteraceae           | Herb               | Along water bodies                                 | Rare                     | prostratum  |
| 38       | <i>richardianum</i> (Fyson)<br>R.Ansari & N.P.Balakr. | Eriocaulaceae        | Herb               | Along perennial water bodies                       | Occasional               | Utricularia<br>polygonoides                           |
| 39       | <i>Euphorbia cristata</i><br>B.Heyne ex Roth          | Euphorbiaceae        | Herb               | On hills   | Occasional               | Cymbopogon caesius                                    |
| 40       | Euphorbia<br>heterophylla L.                          | Euphorbiaceae        | Herb               | Fields   | Occasional               | Phyllanthus<br>maderaspatanus                         |
| 41       | Euphorbia hirta L.                                    | Euphorbiaceae        | Herb               | In fields  | Common                   | Phyllanthus<br>maderaspatanus                         |
|          | Exacum pedunculatum                                   |                      |                    | Along canals of forests                            |                          |   |
| 42       | L.  | Gentianaceae         | Herb               | or fields  | Occasional               | Physalis minima                                       |
| 43       | <i>Flacourtia indica</i> (Burm.f.) Merr.              | Salicaceae           | Shrub              | Forest peripheries and along hill slopes           | Occasional               | Tarenna asiatica,<br>Senna auriculata                 |
| 44       | Gloriosa superba L.                                   | Colchicaceae         | Climber            | Along canals of forests                            | Rare                     | Dodonaea viscosa                                      |
| 45       | <i>Glossocardia bosvallia</i> DC.                     | Asteraceae           | Herb               | Wastelands and forests                             | Common                   | Oldelandia umbellata                                  |
| 46       | <i>Holoptelea integrifolia</i> (Roxb.) Planch.        | Urticaceae           | Tree               | Forest peripheries and on hills                    | Occasional               | Pterospermum<br>xylocarpum                            |
| 17       | Unconia comata I am                                   | Lincore              | Liona              | Forest peripheries and                             | Occorrent                | Combratum alli Lun                                    |
| 47<br>48 | Hugonia serrata Lam.<br>Indigofera coerulea<br>Roxb.  | Linaceae<br>Fabaceae | Liana<br>Shrub     | along hill slopes<br>Under shade of hill<br>slopes | Occasional<br>Occasional | Combretum albidum<br>Tephrosia acuminata              |
| 49       | Indigofera trita L.f.                                 | Fabaceae             | Herb               | An rocky hill slopes                               | Rare                     | Cymbopogon caesius                                    |
| 77       | maigojera mua L.1.                                    | 1 abaceae            | 11010              | 7 m rocky min slopes                               | ixait                    | Cymoopogon cuestus                                    |

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| Jatropha gossypiifolia         Euphorbiaceae         Shrub         Canal embakments         Occasional           52         Lantana camara L.         Verbenaceae         Shrub         Forest outskirts         Common         I           53         Hack.         Poaceae         Herb         Open lands of Forest         I         I           54         Martynia annua L.         Pedaliaceae         Herb         Vastelands         Occasional         I           54         Martynia annua L.         Pedaliaceae         Herb         vastelands         Occasional         I           54         Martynia annua L.         Pedaliaceae         Herb         open lands of Forest         Rare         I           55         C.E.C.Fisch.         Poaceae         Herb         Forest peripheries         Common         I           56         DC.         Rubiaceae         Herb         Forest peripheries         Occasional         I           57         (Willd.) A.Chev.         Fabaceae         Shrub         Among and along rocks         Occasional         I           58         L.         Rubiaceae         Herb         peripheries         Common         I           60         Kuntze         Amaranthaceae         Herb </th <th>Cymbopogon caesius<br/>Dodonaea viscosa<br/>Dodonaea viscosa<br/>Melanocenchris<br/>monoica<br/>Tephrosia purpurea<br/>Lophopogon<br/>tridentatus<br/>Perotis indica and<br/>Spermacoce<br/>articualaris</th>  | Cymbopogon caesius<br>Dodonaea viscosa<br>Dodonaea viscosa<br>Melanocenchris<br>monoica<br>Tephrosia purpurea<br>Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris |
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| Jatropha gossypiifolia       Euphorbiaceae       Shrub       Canal embakments       Occasional         52       Lantana camara L.       Verbenaceae       Shrub       Forest outskirts       Common       I         53       Hack.       Poaceae       Herb       Open lands of Forest       I       I         54       Martynia annua L.       Pedaliaceae       Herb       Vastelands       Occasional       I         54       Martynia annua L.       Pedaliaceae       Herb       Vastelands       Occasional       I         55       C.E.C.Fisch.       Poaceae       Herb       Open lands of Forest       I       I         56       DC.       Rubiaceae       Herb       Forest peripheries       Occasional       I         57       C.E.C.Fisch.       Poaceae       Herb       Forest peripheries       Occasional       I         56       DC.       Rubiaceae       Herb       Forest peripheries       Occasional       I         58       L.       Rubiaceae       Herb       Open lands of Forest       Occasional       I         60       Mundulea sericea       Shrub       Among and along rocks       Occasional       I         58       L.       Rubiaceae  | Dodonaea viscosa<br>Dodonaea viscosa<br>Melanocenchris<br>monoica<br>Tephrosia purpurea<br>Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris                       |
| 51       L.       Euphorbiaceae       Shrub       Canal embakments       Occasional         52       Lantana camara L.       Verbenaceae       Shrub       Forest outskirts       Common       Image: Common <td>Dodonaea viscosa<br/>Melanocenchris<br/>monoica<br/>Tephrosia purpurea<br/>Lophopogon<br/>tridentatus<br/>Perotis indica and<br/>Spermacoce<br/>articualaris</td> | Dodonaea viscosa<br>Melanocenchris<br>monoica<br>Tephrosia purpurea<br>Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris   |
| 52       Lantana camara L.       Verbenaceae       Shrub       Forest outskirts       Common       I         53       Hack.       Poaceae       Herb       peripheries       Rare       I         54       Martynia annua L.       Pedaliaceae       Herb       wastelands       Occasional       I         54       Martynia annua L.       Pedaliaceae       Herb       wastelands       Occasional       I         55       C.E.C.Fisch.       Poaceae       Herb       peripheries       Common       I         56       DC.       Rubiaceae       Herb       peripheries       Occasional       I         56       DC.       Rubiaceae       Herb       Forest peripheries       Occasional       I         57       (Wild.) A.Chev.       Fabaceae       Shrub       Among and along rocks       Occasional       I         58       Oldenlandia umbellata       Open lands of Forest       Open lands of Forest       Occasional       I         59       Gawl.) Haw.       Cactaceae       Shrub       Among and along rocks       Occasional       I         60       Kuntze       Amaranthaceae       Herb       wastelands and fields       Occcasional       I         61 <td>Dodonaea viscosa<br/>Melanocenchris<br/>monoica<br/>Tephrosia purpurea<br/>Lophopogon<br/>tridentatus<br/>Perotis indica and<br/>Spermacoce<br/>articualaris</td>  | Dodonaea viscosa<br>Melanocenchris<br>monoica<br>Tephrosia purpurea<br>Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris   |
| Lophopogon<br>tridentatus (Roxb.)       Poaceae       Herb       Open lands of Forest<br>peripheries       Rare       I         53       Hack.       Poaceae       Herb       Along fields and<br>wastelands       Occasional       I         54       Martynia annua L.       Pedaliaceae       Herb       Wastelands       Occasional       I         54       Martynia annua L.       Pedaliaceae       Herb       Open lands of Forest<br>peripheries       Occasional       I         55       C.E.C.Fisch.       Poaceae       Herb       Open lands of Forest<br>peripheries       Common       I         56       DC.       Rubiaceae       Herb       Forest peripheries       Occasional       I         58       L.       Rubiaceae       Herb       Forest peripheries       Common       I         59       Opuntia dillenii (Ker       Cactaceae       Shrub       Along fields and forest<br>ouret lanata (L.)       Occasional       I         60       Kuntze       Amaranthaceae       Herb       Wastelands       Common       I         61       Kuntze       Poaceae       Herb       Wastelands and fields       Occasional       I         63       mderaspatensis L.       Pyllanthaceae       Herb       Fields and   | Melanocenchris<br>monoica<br>Tephrosia purpurea<br>Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris   |
| tridentatus (Roxb.)     Poaceae     Herb     Open lands of Forest<br>peripheries     Rare     I       53     Hack.     Poaceae     Herb     Martynia annua L.     Rare     I       54     Martynia annua L.     Pedaliaceae     Herb     Wastelands     Occasional     I       54     Melanocenchris<br>monoica (Rottler)     Deen lands of Forest     Open lands of Forest     Occasional     I       55     C.E.C.Fisch.     Poaceae     Herb     Peripheries     Common     I       56     DC.     Rubiaceae     Herb     Forest peripheries     Occasional     I       56     DC.     Rubiaceae     Herb     Forest peripheries     Occasional     I       57     (Willd.) A.Chev.     Fabaceae     Shrub     Among and along rocks     Occasional     I       58     L.     Rubiaceae     Herb     Peripheries     Common     I       58     L.     Rubiaceae     Herb     Open lands of Forest     Occasional     I       59     Gawl.) Haw.     Cactaceae     Shrub     Outskirts streams     Occasional     I       60     Kuntze     Amaranthaceae     Herb     Wastelands and fields     Occasional     I       61     Kuntze     Poaceae     He   | monoica<br>Tephrosia purpurea<br>Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris   |
| tridentatus (Roxb.)     Poaceae     Herb     Open lands of Forest<br>peripheries     Rare     I       53     Hack.     Poaceae     Herb     Martynia annua L.     Rare     I       54     Martynia annua L.     Pedaliaceae     Herb     Wastelands     Occasional     I       54     Melanocenchris<br>monoica (Rottler)     Deen lands of Forest     Open lands of Forest     Occasional     I       55     C.E.C.Fisch.     Poaceae     Herb     Peripheries     Common     I       56     DC.     Rubiaceae     Herb     Forest peripheries     Occasional     I       56     DC.     Rubiaceae     Herb     Forest peripheries     Occasional     I       57     (Willd.) A.Chev.     Fabaceae     Shrub     Among and along rocks     Occasional     I       58     L.     Rubiaceae     Herb     Peripheries     Common     I       58     L.     Rubiaceae     Herb     Open lands of Forest     Occasional     I       59     Gawl.) Haw.     Cactaceae     Shrub     Outskirts streams     Occasional     I       60     Kuntze     Amaranthaceae     Herb     Wastelands and fields     Occasional     I       61     Kuntze     Poaceae     He   | monoica<br>Tephrosia purpurea<br>Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris   |
| 54       Martynia annua L.       Pedaliaceae       Herb       Along fields and<br>wastelands       Occasional         Melanocenchris<br>monoica (Rottler)       Poaceae       Herb       Open lands of Forest<br>peripheries       Occasional         55       C.E.C.Fisch.       Poaceae       Herb       Forest peripheries       Common         56       DC.       Rubiaceae       Herb       Forest peripheries       Occasional       4         57       (Willd.) A.Chev.       Fabaceae       Shrub       Among and along rocks       Occasional       4         58       L.       Rubiaceae       Herb       Open lands of Forest<br>peripheries       Common       4         58       L.       Rubiaceae       Herb       Open lands of Forest<br>peripheries       Coccasional       4         60       Muntze       Cactaceae       Shrub       Outskirts streams       Occasional       4         60       Kuntze       Poaceae       Herb       Wastelands and fields       Occasional       4         61       Kuntze       Poaceae       Herb       Along fields and       6       6         63       maderaspatensis L.       Pyllanthaceae       Herb       FieldsCommon       4         64       G.Forst. <td>Tephrosia purpurea<br/>Lophopogon<br/>tridentatus<br/>Perotis indica and<br/>Spermacoce<br/>articualaris</td>   | Tephrosia purpurea<br>Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris  |
| 54       Martynia annua L.       Pedaliaceae       Herb       wastelands       Occasional         Melanocenchris<br>monoica (Rottler)       Open lands of Forest<br>peripheries       Open lands of Forest<br>peripheries       Image: Common       Image: Common         55       C.E.C.Fisch.       Poaceae       Herb       Peripheries       Common       Image: C   | Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris  |
| Melanocenchris<br>monoica (Rottler)       Poaceae       Herb       Open lands of Forest<br>peripheries       Common         55       C.E.C.Fisch.       Poaceae       Herb       peripheries       Common       Image: Common </td <td>Lophopogon<br/>tridentatus<br/>Perotis indica and<br/>Spermacoce<br/>articualaris</td>  | Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris  |
| Melanocenchris<br>monoica (Rottler)       Poaceae       Herb       Open lands of Forest<br>peripheries       Common         55       C.E.C.Fisch.       Poaceae       Herb       peripheries       Common       Image: Common </td <td>Lophopogon<br/>tridentatus<br/>Perotis indica and<br/>Spermacoce<br/>articualaris</td>  | Lophopogon<br>tridentatus<br>Perotis indica and<br>Spermacoce<br>articualaris  |
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| 57       (Willd.) A.Chev.       Fabaceae       Shrub       Among and along rocks       Occasional       Among and fields of Forest       Fields and forest       Fields and forest       Common       Among and along rocks       Common       Among and along rocks       Matrix streams       Occasional       Among and along rocks       Common       Among and forest   | Catunaregum  |
| Oldenlandia umbellata<br>58RubiaceaeHerbOpen lands of Forest<br>peripheriesCommon58L.RubiaceaeHerbperipheriesCommon60Gawl.) Haw.CactaceaeShruboutskirts streamsOccasional60KuntzeAmaranthaceaeHerbWastelands and fieldsOccasional61KuntzePoaceaeHerbwastelandsCommon61KuntzePoaceaeHerbwastelandsCommon62Roxb.ArecaceaePalmAlong streamsOccasional63maderaspatensis L.PyllanthaceaeHerbFieldsCommon64G.Forst.PhyllanthaceaeHerbFields and water bodiesCcasional65Physalis angulata L.SolanaceaeHerbFields and water bodiesCcasional66Schweinf.CaryophyllaceaeHerbFields and water bodiesOccasional67(L.) Wight & Arn.MalvaceaeHerbSlopesOccasional68Gaertn.RubiaceaeTerestreams and slopesOccasional   | spinosa  |
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| 59Gawl.) Haw.CactaceaeShruboutskirts streamsOccasionalA60KuntzeAmaranthaceaeHerbWastelands and fieldsOccasionalA61KuntzePoaceaeHerbWastelands and fieldsOccasionalA61KuntzePoaceaeHerbwastelandsCommonA62Roxb.ArecaceaePalmAlong streamsOccasionalA63maderaspatensis L.PyllanthaceaeHerbFieldsCommonA64G.Forst.PhyllanthaceaeHerbFieldsCommonA65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasionalA66Schweinf.CaryophyllaceaeHerbFields and water bodiesOccasionalA67(L.) Wight & Arn.MalvaceaeHerbSlopesOccasionalA68Gaertn.RubiaceaeTreeAlong hills, peripheries,<br>streams and slopesOccasionalA  | Shi ysopogon juivus  |
| Ouret lanata (L.)AmaranthaceaeHerbWastelands and fieldsOccasional60KuntzePerotis indica (L.)Along fields andAlong fields and61KuntzePoaceaeHerbwastelandsCommon61KuntzePoaceaeHerbwastelandsCommon62Roxb.ArecaceaePalmAlong streamsOccasional63maderaspatensis L.PyllanthaceaeHerbFieldsCommon64G.Forst.PhyllanthaceaeHerbAn hill slopesCommon65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasional66Schweinf.CaryophyllaceaeHerbAlong perennial waterImage: Along perennial water67(L.) Wight & Arn.MalvaceaeHerbslopesOccasional68Gaertn.RubiaceaeTreeAlong hills, peripheries, streams and slopesOccasional   | Flacourtia indica  |
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| Perotis indica (L.)PoaceaeHerbAlong fields and<br>wastelandsCommon61KuntzePoaceaeHerbwastelandsCommon62Roxb.ArecaceaePalmAlong streamsOccasional62Roxb.ArecaceaePalmAlong streamsOccasional63maderaspatensis L.PyllanthaceaeHerbFieldsCommon64G.Forst.PhyllanthaceaeHerbAn hill slopesCommon65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasional66Schweinf.CaryophyllaceaeHerbbodiesRare67(L.) Wight & Arn.MalvaceaeHerbslopesOccasional68Gaertn.RubiaceaeTreeAlong hills, peripheries,<br>streams and slopesOccasional   |  |
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| Phoenix sylvestris (L.)ArecaceaePalmAlong streamsOccasional62Roxb.ArecaceaePalmAlong streamsOccasional263maderaspatensis L.PyllanthaceaeHerbFieldsCommon764G.Forst.PhyllanthaceaeHerbAn hill slopesCommon765Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasional765Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasional766Schweinf.CaryophyllaceaeHerbbodiesRare767(L.) Wight & Arn.MalvaceaeHerbslopesOccasional668Gaertn.RubiaceaeTreestreams and slopesOccasional7  | T  |
| 62Roxb.ArecaceaePalmAlong streamsOccasionalArecaceae63PhyllanthusPyllanthaceaeHerbFieldsCommonFields63maderaspatensis L.PyllanthaceaeHerbFieldsCommonFields64G.Forst.PhyllanthaceaeHerbAn hill slopesCommonFields65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasionalFields65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasionalFields66Schweinf.CaryophyllaceaeHerbbodiesRareFields66Schweinf.CaryophyllaceaeHerbSolopesOccasionalFields67(L.) Wight & Arn.MalvaceaeHerbslopesOccasionalFields68Gaertn.RubiaceaeTreeStreams and slopesOccasionalFields   | Tragus monogolorum   |
| 62Roxb.ArecaceaePalmAlong streamsOccasionalArecaceae63PhyllanthusPyllanthaceaeHerbFieldsCommonFields63maderaspatensis L.PyllanthaceaeHerbFieldsCommonFields64G.Forst.PhyllanthaceaeHerbAn hill slopesCommonFields65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasionalFields65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasionalFields66Schweinf.CaryophyllaceaeHerbbodiesRareFields66Schweinf.CaryophyllaceaeHerbSolopesOccasionalFields67(L.) Wight & Arn.MalvaceaeHerbslopesOccasionalFields68Gaertn.RubiaceaeTreeStreams and slopesOccasionalFields   | Termianalia arjuna,  |
| 63Phyllanthus<br>maderaspatensis L.PyllanthaceaeHerbFieldsCommonI63Phyllanthus virgatus<br>G.Forst.PhyllanthaceaeHerbFieldsCommonI64G.Forst.PhyllanthaceaeHerbAn hill slopesCommonI65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasionalI65Physalis angulata L.SolanaceaeHerbFields and water bodiesOccasionalI66Schweinf.CaryophyllaceaeHerbbodiesRareI66Schweinf.CaryophyllaceaeHerbbodiesRareI67(L.) Wight & Arn.MalvaceaeHerbslopesOccasionalI68Gaertn.RubiaceaeTreestreams and slopesOccasionalI  | Syzygium cumini  |
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| 65       Physalis angulata L.       Solanaceae       Herb       Fields and water bodies       Occasional       Herb         65       Polycarpon prostratum       Along perennial water       Herb       Along perennial water       Herb         66       Schweinf.       Caryophyllaceae       Herb       Bodies       Rare       Herb         67       (L.) Wight & Arn.       Malvaceae       Herb       slopes       Occasional       Herb         68       Gaertn.       Rubiaceae       Tree       streams and slopes       Occasional       Herb  | Utricularia scandens   |
| Polycarpon prostratum<br>(Forssk.) Asch. &<br>66Polycarpon prostratum<br>(Forssk.) Asch. &<br>CaryophyllaceaeAlong perennial water<br>bodiesAlong perennial water<br>Rare66Schweinf.CaryophyllaceaeHerbbodiesRare67(L.) Wight & Arn.MalvaceaeHerbslopesOccasional68Gaertn.RubiaceaeTreestreams and slopesOccasional  |  |
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| Pseudarthria viscidaUnder shade of hill67(L.) Wight & Arn.MalvaceaeBest diamondaryHerbslopesConstructionOccasional68Gaertn.RubiaceaeTreestreams and slopesOccasional   | Utricularia  |
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| Psydrax dicoccosAlong hills, peripheries,<br>streams and slopesOccasional  | <i>c i</i> .   |
| 68 Gaertn. Rubiaceae Tree streams and slopes Occasional  | Cymbopogon caesius   |
|  |  |
| Pterolobium  | Flacourtia indica  |
|  |  |
| hexapetalum (Roth) Climbing  | a .  |
|  | Secamone emetic  |
| Pterospermum   |  |
| xylocarpum (Gaertn.)   | ~ . <i>t</i> -   |
|  | Cassia fistula   |
|  | Phyllanthus  |
|  | maderaspatanus   |
| Sapindus emarginatus   |  |
|  | Dalbergia paniculata   |
| Scurrula cordifolia Epiphytic  |  |
|  | Dalbergia paniculata   |
| Searsia mysorensis   |  |
| 74 (G.Don) Moffett Anacardiaceae Shrub On mounds Rare  |  |
|  | Cymbopogon caesius   |
|  |  |
| 75 (Retz.) R.Br. ex Sm. Apocynaceae Liana on hills Occasional  | Cymbopogon caesius<br>Pterolobium<br>hexapetalum   |

|     | Senna auriculata (L.)                                  |                      |         | Bunds of fields,<br>Wastelands, forest                  | _          | Mundulea sericea,<br>Dodonaea viscosa<br>and Catunaregum |
|-----|--|----------------------|---------|---|------------|--|
| 76  | Roxb.  | Fabaceae             | Shrub   | peripheries and on hills                                | Common     | spinosa  |
| 77  | Senna montana<br>(B.Heyne ex Roth)<br>V.Singh          | Fabaceae             | Shrub   | Forest peripheries and along hill slopes                | Common     | Catunaregum<br>spinosa                                   |
| 78  | Senna surattensis<br>(Burm.f.) H.S.Irwin &<br>Barneby  | Fabaceae             | Shrub   | Under shade of hill slopes                              | Rare       | Flacourtia indica  |
| 79  | Senna uniflora (Mill.)<br>H.S.Irwin & Barneby          | Fabaceae             | Herb    | Along streams and<br>embakment of ponds                 | Occasional | Tragia involucrta  |
| 80  | Shorea roxburghii<br>G.Don                             | Dipterocarpacea<br>e | Tree    | On high elevation hills                                 | Rare       | Pterospermum<br>xylocarpum                               |
| 81  | <i>Sida cordata</i> (Burm.f.)<br>Borss.Waalk.          | Malvaceae            | Herb    | Hill slopes   | Occasional | Cyanthelium albicans                                     |
| 82  | Solanum pubescens<br>Willd.                            | Solanaceae           | Shrub   | Forest outskirts  | Occasional | Senna auriculata   |
| 83  | Solanum virginianum<br>L.                              | Solanaceae           | Herb    | Wastelands and forest outskirts                         | Occasional | Tanhrosia nurnuraa                                       |
|     | Sphaeranthus indicus                                   |                      |         |   |            | Tephrosia purpurea                                       |
| 84  | L.<br>Striga asiatica (L.)                             | Asteraceae           | Herb    | Fields  | Common     | Commelina undulata                                       |
| 85  | Kuntze<br>Synostemon                                   | Orobanchaceae        | Herb    | Among rocks   | Occasional | Cymbopogon caesius                                       |
| 86  | <i>bacciformis</i> (L.)<br>G.L.Webster                 | Phyllanthaceae       | Herb    | Along forest water<br>bodies                            | Rare       | Polycarpon<br>prostratum                                 |
| 87  | <i>Tarenna asiatica</i> (L.)<br>Kuntze ex K.Schum.     | Rubiaceae            | Shrub   | Among, along rocks of<br>hill slopes and<br>peripheries | Common     | Senna auriculata and<br>Flacourtia indica                |
| 07  |  | Rublaceae            | Silluo  | peripheries   | Common     |  |
| 88  | <i>Tephrosia lanceolata</i><br>Graham ex Gamble        | Fabaceae             | Shrub   | Hill slopes   | Occasional | Cymbopogon caesius                                       |
| 89  | <i>Tephrosia purpurea</i> (L.) Pers.                   | Fabaceae             | Herb    | Along fields,<br>wastelands and forests                 | Common     | Crotalaria<br>paniculata                                 |
|     | Terminalia   |                      |         |   |            |  |
| 90  | <i>anogeissiana</i> Gere & Boatwr.                     | Combretaceae         | Tree    | On high elevation hills                                 | Rare       | Canthium dicoccum  |
| 91  | Tragia involucrata L.                                  | Euphorbiaceae        | Climber | Along streams and<br>embakment of ponds                 | Occasional | Senna uniflora   |
| 92  | Trianthema<br>portulacastrum L.                        | Aizoaceae            | Herb    | Fields  | Common     | Eclipta prostrata  |
| 93  | Typha angustifolia L.                                  | Typhaceae            | Herb    | Along water bodies                                      | Common     | Exacum<br>pedunculatum                                   |
| 94  | Utricularia<br>polygaloides Edgew.                     | Lentibulariaceae     | Herb    | Along perennial water<br>bodies                         | Rare       | Bacopa monnieri  |
| 95  | Utricularia scandens<br>Benj.                          | Lentibulariaceae     | Herb    | Along perennial water<br>bodies                         | Rare       | Eriocaulons  |
| 96  | <i>Vachellia nilotica</i> (L.)<br>P.J.H.Hurter & Mabb. | Fabaceae             | Tree    | Along streams and fields                                | Occasional | Azadirachta indica                                       |
| 97  | <i>Ventilago denticulata</i><br>Willd.                 | Rhamnaceae           | Liana   | Hill slopes   | Rare       | Dalbergia paniculata                                     |
| 98  | Vincetoxicum indicum<br>(Burm.f.) Mabb.                | Apocynaceae          | Climber | Along foot hills and<br>bunds of fields                 | Occasional | Carissa spinarum   |
| 99  | Vitex altissima L.f.                                   | Lamiaceae            | Tree    | On hills  | Rare       | Pterospermum<br>xylocarpum                               |
| 100 | Vitex negundo L.                                       | Lamiaceae            | Shrub   | Along canals  | Occasional | Azadirachta indica                                       |



Acalypha scabrosa



Ageratum conyzoides



Alangium salvifolium



Andrographis serpyllifolia



Boerhavia diffusa





Borasus flabellifer



Azadirachta indica



Calotropis gigantea



Caralluma adscendens



Carissa spinarum



Cascabela thevetia



Cassia fistula



Chrysopogon fulvus



Catunaregum spinosa



Cissus quadrangularis



Chloris barbata



Cleome gynandra



Cleome monophylla



Cleome viscosa



Coccinia grandis



Combretum ovalifolium



Crotalaria hebecarpa



Commelina undulata



Crotalaria paniculata



Crinum latifolium



Cryptostegia grandiflora



Cyanotis axillaris



Cyanthilium albicans



Cycas sphaerica



Dalbergia lanceolaria



Dichrostachys cinerea



Datura innoxia



Dodonaea viscosa



Dendropthoe falcata



Eclipta prostrata



Epaltes divaricata



Eriocaulon richardianum



Euphorbia cristata



Euphorbia heterophylla



Flacourtia indica



Euphorbia hirta



Gloriosa superba



Exacum pedunculatum



Glossocordia bosvallia



Holoptelea integrifolia



Hugonia serrata



Indigofera coerulea



Indigofera trita



Lophopogon tridentatus



Ipomoea obscura



Lantana camara



Jatropha gossypiifolia



Martynia annua



Melanocenchris monoica



Mirtacarpus hirtus



Mundulea sericea



Oldenlandia umbellata



Perotis indica



Opuntia dilleneii



Phoenix sylvestris



Ouret lanata



Phyllanthus maderaspatensis



Phyllanthus virgatus



Physalis angulata



Polycarpon prostratum



Pseudarthria viscida



Pterospermum xylocarpum



Psydrax dicoccos



Ruellia prostrata



Pterolobium hexpetalum



Sapindus emarginatus



Scurrula cordifolia





Searsia mysorensis



Seccamone emetica



Senna auriculata



Senna uniflora



Senna montana



Shorea roxburghii



Senna surattensis



Sida cordata



Solanum pubescens





Solanum virginianum



Sphaeranthus indicus



Striga asiatica



Tephrosia lanceolata



Synostemon bacciformis



Tephrosia purpurea



Tarenna asiatica



Terminalia anogeissiana



Tragia involucrata



Trianthema portulacastrum



Typha angustifolia





Ventilago denticulata



Utricularia scandens



Vincetoxicum indicum



Vachellia nilotica



Vitex altissima

### **Results and Discussion**

Deeply explored and recorded vascular plants surroundings of Kudumulavari palli, through the covering different habitats, I.e. Forest outskirts, Hill slopes, In Fields, Along with perennial water bodies, On hills, Along canals, Along with fields and wastelands, Along streams and embankment of ponds, Forest peripheries, Along hill slopes, On high elevation hills, Open lands of Forest peripheries, Under the shade of hill slopes, Along with human habitations and fields, Along streams, Fields and forest outskirt streams, Along bunds of fields and other sun exposing areas of hills, Along canals of forests, Along with forest water bodies, Among and along rocks, Among rocks of mounds, An rocky hill slopes, Canal embankments; recorded 100 plants which belong 44 families and 86 genera, most dominant families are Fabaceae with 17 species, Apocynaceae 7 species, Asteraceae 6 species, Euphorbiaceae 6 species and Poaceae with 6 species; dominant genera followed by Senna with 4 species, Cleome 3 species and Euphorbia with 3 species; Habit wise followed by Herbs 49, Shrubs 21, Trees 14, Climbers 6, Lianas 4, Epiphytic shrubs 2, Palms 2, Climbing shrub 1and Straggler 1; Abundance wise followed by Occasional distributed 50 species. Common 28 species and 22 species have rare distribution. 100 species were recorded with detailed information.

### **Conflict of Interest**

The author hereby declares no conflict of interest.

### **Consent for publication**

The author declares that the work has consent for publication.

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