

DOMINANT FLORA OF PALI-DISTRICT, RAJASTHAN, INDIA

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An account of the vegetation of Pali-district, along with a list of Angiosperm taxa comprising 362 species belonging to 260 genera spread over 78 families is given in this paper. Herbs are dominated flora followed by trees, shrubs, climbers and epiphytes. In the present paper an attempt has been made to ascertain the current status of the flora in all possible area of Pali-district. Fabaceae was the most dominant family of the area followed by Poaceae and Asteraceae. The local folk conservational strategies adapted by tribals and rural people of this district have also been discussed in this paper along with proper conservation and management of plants.

Keywords: - Flora, Pali-district, local floristic diversity, local conservational- practices.

Flora of Rajasthan has been explored by several workers since 19th century. The systematic work on phytodiversity of Indian desert was started with the publication of “famine food of Marwar” by King (1869), “Notes on vegetable products used as food during famine in Rajasthan” by King (1870) and “Sketch of the flora of Rajputana” by King (1879) and other research work about the vegetation of the Indian desert has attracted the attention of researchers and number of papers were published between 1950 and 1975 dealing with taxonomic account of desert flora. Taxonomy research got accelerate after publication of Flora of Western Rajasthan (Bhandari 1979), Flora of North Eastern part of Rajasthan (Sharma and Tiagi 1979), are Comprehensive Flora of Rajasthan in three volumes (Shetty and Singh 1987, 91, 93). Sharma (2002) published flora of Rajasthan which covers mainly the Eastern part of the state. Tiagi and Aery (2007) publish the flora of Rajasthan (South and South-East region). Flora on South –Central Rajasthan was published by Yadav and Meena (2011). Pandey *et al.* (2012) have also published depleting 65 taxa with their present status and conservation in Rajasthan.

Although district level flora in Rajasthan have also been investigated by several workers like Flora of Banswara (Singh 1983), Flora of

Bhilwara (Parmar and Singh 1982), Flora of Ganganagar (Singh and Dhillon 1989), Phytodiversity of Nagaur (Sharma and Aggarwal 2008) and Flora of Tonk District (Shetty and Pandey 1983). Some part of Pali district is also occupied by Todgarh-Raoli Wildlife Sanctuary. The ethno-medico-botanical study of Todgarh-Raoli Wildlife Sanctuary was done by Kanther and Gena (2012, 2013, 2014, Kanther *et al.* 2012). Rare and Threatened medicinal plants of Todgarh-Raoli wildlife sanctuary were worked by Kanther (2018). Dominant Flora of Todgarh-Raoli wildlife sanctuary was published by Kanther (2019). Pali district, a part of Thar Desert which is poor in forest resources, a lot of work has been done on the exploration of floristic diversity but references for taxonomic description about Pali district are less documented except the Flora of Pali district (Pandey and Shetty 1984) and further contribution to flora of Pali district (Pandey and Singh 1989). Considering this aspect the present work has been investigated mainly for identification, habit, habitat, phytodiversity and floristic analysis of the Pali district. It is a pre-requisite for developing strategies for their conservation. In the present paper an attempt has been made to present an account on taxonomical diversity along with local folk conservational practices of tribals and rural

people of Pali- district.

Study Area Profile: The Pali-district lies between 24° 45' and 26° 29' north latitudes and 72° 47' and 74° 18' east longitudes. The main topographic feature of Rajasthan is Aravalli range. The Great Aravalli range runs along the eastern side of the district from south west to north-west and it links this district with Ajmer, Rajsamand, Udaipur and Sirohi Districts. The shape of this district resembles to an irregular triangle and has undulated plains with scattered and exposed hills. This is the only district in Rajasthan which is surrounded by maximum, 8 districts namely are Jalore, Sirohi, Barmer, Rajsamand, Ajmer, Jodhpur, Nagaur, and Udaipur shown in (Fig. 1). Personal observations were taken in the field by visiting the study area and its different landforms. May month was hottest month of the year, temperature was between 26°C minimum to 44°C maximum. Coldest month of the year was January temperature raise between 8°C minimum to 30°C maximum. Most of the rainfall occurs in the monsoon period from July to September and winter rains are rare. The average annual rainfall was 300-400 mm. Most

of rainfall is received during monsoon in the month of July to September. After rains, the forest is luxuriant in vegetation and enriched with diversity in genera and species. The relative humidity was minimum in hot months and maximum in monsoon month.

MATERIAL AND METHODS

In the present study emphasis was laid on the investigation of floral diversity in Pali-district. It has been visited frequently with the aim to study the occurrence of angiospermic species growing in their natural habitats. Field surveys were made in different seasons in Pali-district in different botanical regions like Desuri-Naal (Velley), Jawai Dam, Goram Ghat, Foolad forest, Shriyari forest, Bagri forest, Jara roopnath ji ki Dhooni, some part of Todgarh-Raoli Wild life Sanctuary, some part of Kumbhal-Garh wild life sanctuary and Parash Ram Mahadev. The above botanical regions are visited frequently in rainy season. It was the best time to visit many places. Botanical excursions were made in different seasons so as to collect more and more plant species in flowering stage for better understanding of

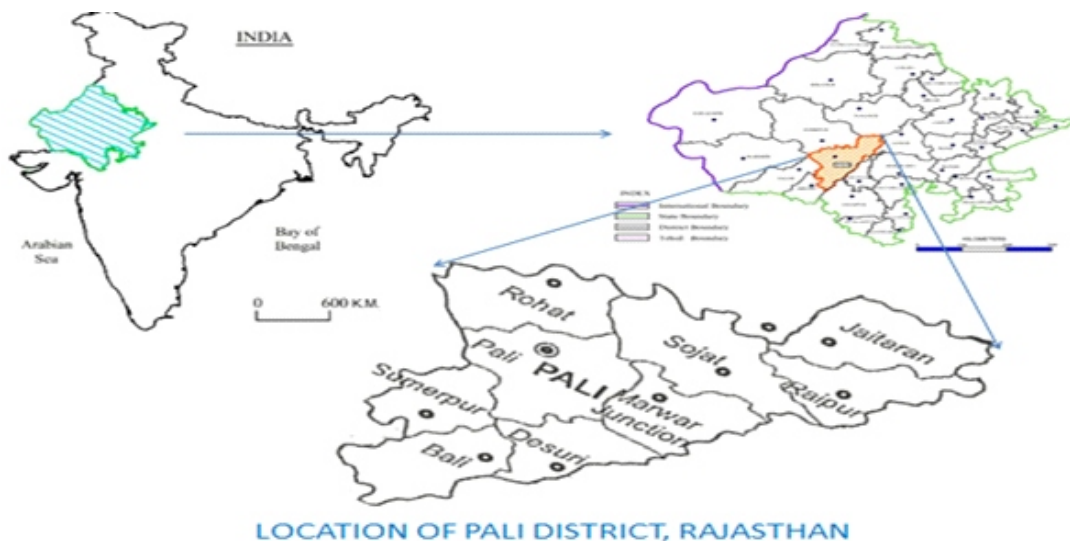


Figure 1: Location of Study Area

Table-1: Number of Genera and Species in each of plants family in Pali-district

| S. No | Family/ Name of the Plants | Local name | Habit | Mono-cot/ Dicot | Genera | Species |
|-------|--|------------------|---------|-----------------|--------|---------|
| | 1. ANNONACEAE | | | | 1 | 1 |
| 1 | <i>Annona squamosa</i> L | Sitaphal | Shrub | Dicot | | |
| | 2. MENISPERMACEAE | | | | 3 | 4 |
| 2 | <i>Cissampelos pareira</i> L | Patha | Climber | Dicot | | |
| 3 | <i>Cocculus hirsutus</i> (L.) Diels | Jal Jamni ki bel | Climber | Dicot | | |
| 4 | <i>Cocculus pendulus</i> (J. R. G) Diels | Pilwan | Climber | Dicot | | |
| 5 | <i>Tinospora cordifolia</i> (Thunb.) Miers | Neem giloy | Climber | Dicot | | |
| | 3. NYMPHAEACEAE | | | | 1 | 1 |
| 6 | <i>Nymphaea nouchali</i> Burm. f. | Kumud | Herb | Dicot | | |
| | 4. PAPAVERACEAE | | | | 1 | 1 |
| 7 | <i>Argemone mexicana</i> L. | Peeli Kateli | Herb | Dicot | | |
| | 5. FUMARIACEAE | | | | 1 | 1 |
| 8 | <i>Fumaria indica</i> Haussk. | Pitpapra | Herb | Dicot | | |
| | 6. BRASSICACEAE | | | | 5 | 5 |
| 9 | <i>Brassica juncea</i> (L.) Czen. & Coss. | Rai | Herb | Dicot | | |
| 10 | <i>Coronops didymus</i> (L.) Smith | Rudanti | Herb | Dicot | | |
| 11 | <i>Eruca vesicaria</i> L. | Tara meera | Herb | Dicot | | |
| 12 | <i>Farsetia hamiltonii</i> Royle | Hiran chhaboor | Herb | Dicot | | |
| 13 | <i>Lepidium sativum</i> L. | Asaliyo | Herb | Dicot | | |
| | 7. CLEOMACEAE | | | | 1 | 2 |
| 14 | <i>Cleome gynandra</i> L. | Arkakanta | Herb | Dicot | | |
| 15 | <i>Cleome viscosa</i> L. | Tilaparni | Herb | Dicot | | |
| | 8. CAPPARIDACEAE | | | | 4 | 5 |
| 16 | <i>Cadaba fruticosa</i> Roxb. | Bahuguni | Shrub | Dicot | | |
| 17 | <i>Capparis decidua</i> (Forssk.) Edgew | Ker, Kair | Shrub | Dicot | | |
| 18 | <i>Capparis sepiaria</i> L. | Bel kair | Shrub | Dicot | | |
| 19 | <i>Dipterygium glaucum</i> Dence | Moto chag | Shrub | Dicot | | |
| 20 | <i>Gynandropsis gynandria</i> L. | Tilaparni, | Herb | Dicot | | |
| | 9. VIOLACEAE | | | | 1 | 2 |
| 21 | <i>Viola odorata</i> L. | Vanapsa | Herb | Dicot | | |
| 22 | <i>Viola cinerea</i> Roxb | Khokha | Herb | Dicot | | |
| | 10. CARYOPHYLLACEAE | | | | 3 | 3 |
| 23 | <i>Polycarpaea corymbosa</i> (L.) Lamk. | Jhutanio | Herb | Dicot | | |
| 24 | <i>Spergula arvensis</i> Bhandari | Muchmachio | Herb | Dicot | | |
| 25 | <i>Sterllaria media</i> (L.) Vill. | Makhmal | Herb | Dicot | | |
| | 11. PORTULACACEAE | | | | 1 | 1 |
| 26 | <i>Portulaca oleracea</i> L. | Lunaki | Herb | Dicot | | |
| | 12. ELATINACEAE | | | | 1 | 2 |
| 27 | <i>Bergia ammannioides</i> Roth | Jal Bhangra | Herb | Dicot | | |
| 28 | <i>Bergia suffruticosa</i> (Del.) Fenzl | Ankh phootni | Climber | Dicot | | |
| | 13. MALVACEAE | | | | 11 | 16 |
| 29 | <i>Abutilon indicum</i> (L.) Sweet | Atibala | Herb | Dicot | | |
| 30 | <i>Abutilon bidentatum</i> Hochst | Kanghi | Herb | Dicot | | |
| 31 | <i>Abutilon fruticosum</i> Gull, & Perr. | Imarti | Herb | Dicot | | |
| 32 | <i>Bombax ceiba</i> L. | Semal | Tree | Dicot | | |
| 33 | <i>Corchorus capsularis</i> L. | Jute | Herb | Dicot | | |
| 34 | <i>Corchorus depressus</i> (L.) Stock | Cham Gas | Herb | Dicot | | |
| 35 | <i>Corchorus tridens</i> L. | Kaglar | Herb | Dicot | | |

| | | | | | | |
|----|--|---------------|---------|-------|----|----|
| 36 | <i>Grewia tenax</i> forsk.fiori. | Gangeran, | Shrub | Dicot | | |
| 37 | <i>Helicteres isora</i> L. | Marorphali | Climber | Dicot | | |
| 38 | <i>Hibiscus cannabinus</i> L. | Ambari | Shrub | Dicot | | |
| 39 | <i>Hibiscus abelmoschus</i> L. | Latakasturi | Shrub | Dicot | | |
| 40 | <i>Malhania futteyporensis</i> Munro exMast | Sata | Herb | Dicot | | |
| 41 | <i>Pterospermum acerifolium</i> (L.)Willd. | Muchkanda | Shrub | Dicot | | |
| 42 | <i>Sida cordifolia</i> L | Bal | Herb | Dicot | | |
| 43 | <i>Sterculia urens</i> Roxb. | Kada | Tree | Dicot | | |
| 44 | <i>Waltheria indica</i> L. | Bhasoda | Shrub | Dicot | | |
| | 14. ZYGOPHYLLACEAE | | | | 3 | 3 |
| 45 | <i>Fagonia indica</i> Hadidi. | Dhamaso | Herb | Dicot | | |
| 46 | <i>Tribulus terrestris</i> L. | Chhota Gokhru | Herb | Dicot | | |
| 47 | <i>Zygophyllum simplex</i> Roxb. | Lunvo | Herb | Dicot | | |
| | 15. OXALIDACEAE | | | | 1 | 1 |
| 48 | <i>Oxalis corniculata</i> L. | Khati-Buti | Herb | Dicot | | |
| | 16. RUTACEAE | | | | 4 | 4 |
| 49 | <i>Aegle marmelos</i> (L.) Corr. | Bilva-patra | Tree | Dicot | | |
| 50 | <i>Citrus medica</i> L. | Nimbu | Tree | Dicot | | |
| 51 | <i>Feronia lemonia</i> (L.) swingle | Kaith | Tree | Dicot | | |
| 52 | <i>Limonia acidissima</i> L. | Kakji | Tree | Dicot | | |
| | 17. SIMAROUBACEAE | | | | 1 | 1 |
| 53 | <i>Ailanthus excelsa</i> Roxb. | Aardu | Tree | Dicot | | |
| | 18. BALANITACEAE | | | | 1 | 1 |
| 54 | <i>Balanites aegyptiaca</i> (L.) Delile | Hingota | Tree | Dicot | | |
| | 19. BURSERACEAE | | | | 1 | 1 |
| 55 | <i>Boswellia serrata</i> Roxb. ex Cocls. | Salar | Tree | Dicot | | |
| | 20. MELIACEAE | | | | 2 | 2 |
| 56 | <i>Azadirachta indica</i> A. Juss | Neem | Tree | Dicot | | |
| 57 | <i>Melia azadarach</i> L. | Bakayan | Tree | Dicot | | |
| | 21. CELASTRACEAE | | | | 2 | 2 |
| 58 | <i>Celastrus paniculatus</i> Willd. | Malkangani | Shrub | Dicot | | |
| 59 | <i>Maytenus emarginata</i> Willd. | Kankera | Shrub | Dicot | | |
| | 22. RHAMNACEAE | | | | 1 | 3 |
| 60 | <i>Ziziphus mauritiana</i> Lam. | Bair,Badar | Shrub | Dicot | | |
| 61 | <i>Ziziphus nummularia</i> Wight.& Arn | Chota Ber | Shrub | Dicot | | |
| 62 | <i>Ziziphus jujube</i> L. | Bor | Shrub | Dicot | | |
| | 23. VITACEAE | | | | 2 | 2 |
| 63 | <i>Ampelocissus latifolia</i> (Roxb.) Planc. | Jangli angoor | Climber | Dicot | | |
| 64 | <i>Cissus quadrangularis</i> L. | Hadjod | Climber | Dicot | | |
| | 24. SAPINDACEAE | | | | 1 | 1 |
| 65 | <i>Cardiospermum halicocobum</i> L. | Kapal phori | Herb | Dicot | | |
| | 25. ANACARDIACEAE | | | | 3 | 3 |
| 66 | <i>Lannea coromandelica</i> (Houtt.) Merr. | Siddha | Tree | Dicot | | |
| 67 | <i>Mangifera indica</i> L. | Aam | Tree | Dicot | | |
| 68 | <i>Rhus sinuta</i> G. Don. | Dansara | Shrub | Dicot | | |
| | 26. MORINGACEAE | | | | 1 | 2 |
| 69 | <i>Moringa concanensis</i> L. | Sainjna | Tree | Dicot | | |
| 70 | <i>Moringa oleifera</i> Lam. | Sahanjna | Tree | Dicot | | |
| | 27. FABACEAE | | | | 28 | 45 |
| 71 | <i>Abrus precatorius</i> L. | Chirmi | Shrub | Dicot | | |
| 72 | <i>Acacia leucophloea</i> (Roxb)Willd. | Aronj | Tree | Dicot | | |
| 73 | <i>Acacia nilotica</i> (L.) Del.Subsp-indica | Desi Babul | Tree | Dicot | | |
| 74 | <i>Acacia nilotica</i> (L.) Del.Subsp-cupressiformis | Desi Babul | Tree | Dicot | | |
| 75 | <i>Acacia senegal</i> (L.) Willd | Kumatiya | Tree | Dicot | | |
| 76 | <i>Acacia tortillis</i> (Forssk.) Hayne | Israel Babool | Tree | Dicot | | |
| 77 | <i>Albizia lebbek</i> (L.) Benth | Sirish | Tree | Dicot | | |
| 78 | <i>Albizia procera</i> (Roxb.) Benth. | White Siris | Tree | Dicot | | |
| 79 | <i>Bauhinia racemosa</i> Lamk | Asundro | Tree | Dicot | | |

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|-----|--|-----------------|---------|-------|----|----|
| 80 | <i>Bauhinia variegata</i> L. | Kachnar | Tree | Dicot | | |
| 81 | <i>Butea monosperma</i> (Lam)Taub. | Palash,Dhak | Tree | Dicot | | |
| 82 | <i>Caesalpinia bonducella</i> Roxb. | Lata Karanj | Shrub | Dicot | | |
| 83 | <i>Cassia fistula</i> L. | Amaltas | Tree | Dicot | | |
| 84 | <i>Cassia roxburghii</i> DC. | Dudhi | Herb | Dicot | | |
| 85 | <i>Cassia alba</i> L. | Chakshusuya | Herb | Dicot | | |
| 86 | <i>Cassia angustifolia</i> L. | Markandika | Herb | Dicot | | |
| 87 | <i>Cassia auriculata</i> Lam. | Anwal | Shrub | Dicot | | |
| 88 | <i>Cassia occidentalis</i> L. | Kasamarda | Herb | Dicot | | |
| 89 | <i>Cassia siamea</i> Lam. | Kesarsama | Tree | Dicot | | |
| 90 | <i>Cassia italic</i> L. | Kasark | Herb | Dicot | | |
| 91 | <i>Cassia sena</i> L. | Sonamukhi | Herb | Dicot | | |
| 92 | <i>Cassia tora</i> L. | Chakramard | Herb | Dicot | | |
| 93 | <i>Clitoria ternatea</i> L. | Aparajita | Climber | Dicot | | |
| 94 | <i>Crotalaria burhia</i> Buch | Shinio | Herb | Dicot | | |
| 95 | <i>Crotalaria juncea</i> L. | Sann, Hann | Herb | Dicot | | |
| 96 | <i>Crotalaria medicagenia</i> Lam. | Morli | Herb | Dicot | | |
| 97 | <i>Dalbergia sissoo</i> Roxb. | Sisham | Tree | Dicot | | |
| 98 | <i>Delonix regia</i> Hook. | Gulmohar | Tree | Dicot | | |
| 99 | <i>Indigofera tinctoria</i> L. | Neel | Herb | Dicot | | |
| 100 | <i>Indigofera linifolia</i> (L.) Retz. | Bakeria | Herb | Dicot | | |
| 101 | <i>Indigofera oblongifolia</i> Forsk | Goilia, Jhil | Herb | Dicot | | |
| 102 | <i>Melilotus indica</i> (L.)All. | Marvo | Herb | Dicot | | |
| 103 | <i>Mimosa pudica</i> L. | Lajvanti | Herb | Dicot | | |
| 104 | <i>Mucuna prurins</i> (L.) DC. | Kaunch phali | Climber | Dicot | | |
| 105 | <i>Moringa oleifera</i> L. | Sahijana | Tree | Dicot | | |
| 106 | <i>Parkinsonia microphylla</i> L. | Keshu | Shrub | Dicot | | |
| 107 | <i>Pithecellobium dulce</i> (Roxb.)Benth | Jangal jalebi | Tree | Dicot | | |
| 108 | <i>Prosopis cineraria</i> (L.) Druce | Khejari | Tree | Dicot | | |
| 109 | <i>Prosopis juliflora</i> (Swartz) DC. | Vilayati babool | Shrub | Dicot | | |
| 110 | <i>Pongamia pinnata</i> (L.)Pierre | Papro | Herb | Dicot | | |
| 111 | <i>Sesbania bispinosa</i> (Jacq.)Wight | Ikad | Herb | Dicot | | |
| 112 | <i>Saraca asoca</i> L. | Sita Ashoka | Tree | Dicot | | |
| 113 | <i>Tamarindus indica</i> L. | Imli | Tree | Dicot | | |
| 114 | <i>Tephrosia purpurea</i> (L) Pers. | Mava | Herb | Dicot | | |
| 115 | <i>Tephrosia villosa</i> (L) Pers. | Pila Mava | Herb | Dicot | | |
| | 28.ROSACEAE | | | | 1 | 1 |
| 116 | <i>Rosa involucreta</i> L. | Jangali Gulab | Shrub | Dicot | | |
| | 29.COMBRETACEAE | | | | 3 | 4 |
| 117 | <i>Anogeissus latifolia</i> (Roxb.) Wall. ex Guill.& Perr. | Okara | Tree | Dicot | | |
| 118 | <i>Anogeissus pendula</i> Edgew. | Dhokra | Tree | Dicot | | |
| 119 | <i>Terminalia arjuna</i> Wight & Arn | Arjun | Tree | Dicot | | |
| 120 | <i>Quisqualis indica</i> L. | Jhamka bel | Climber | Dicot | | |
| | 30.MYRTACEAE | | | | 3 | 3 |
| 121 | <i>Callistemon citrinus</i> (Curt) stapf | Bottle brush | Tree | Dicot | | |
| 122 | <i>Eucalyptus camaldulensis</i> Dehnb. | Safeda | Tree | Dicot | | |
| 123 | <i>Eugenia jambolana</i> Lam. | Jamun | Tree | Dicot | | |
| | 31. LYTHRACEAE | | | | 1 | 1 |
| 124 | <i>Lawsonia inermis</i> L. | Mehandi | Shrub | Dicot | | |
| | 32. TRAPACEAE | | | | 1 | 1 |
| 125 | <i>Trapa natans</i> L. | Singhara | Aquatic | Dicot | | |
| | 33.CUCURBITACEAE | | | | 10 | 16 |
| 126 | <i>Citrullus colocynthis</i> (L.)Schrad | Indrayan, | Climber | Dicot | | |
| 127 | <i>Coccinia grandis</i> (L.) Voigt. | Tindori | Climber | Dicot | | |
| 128 | <i>Cucumis callosus</i> L. | Kachri | Climber | Dicot | | |
| 129 | <i>Cucumis melo</i> L. Var. agrestis | Matira | Climber | Dicot | | |
| 130 | <i>Cucumis melo</i> L. Var. momordica | Matira | Climber | Dicot | | |
| 131 | <i>Cucumis prophetarum</i> L. | Khat-kachro | Climber | Dicot | | |
| 132 | <i>Corallocarpus epigaeus</i> (Rotti. & Willd.) Hook. F. | Karvi mirch bel | Climber | Dicot | | |

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|-----|---|-----------------------|---------|-------|--|----|----|
| 133 | <i>Dactyliandra welwitschii</i> Hook. F. | Badi Bel | Climber | Dicot | | | |
| 134 | <i>Lagenaria siceraria</i> Standl. | Bittergaurd | Climber | Dicot | | | |
| 135 | <i>Luffa cylindrical</i> (L.)M J Roem | Ghia torai | Climber | Dicot | | | |
| 136 | <i>Luffa echinata</i> Roxb. | Dutar toru | Climber | Dicot | | | |
| 137 | <i>Melothria maderas patina</i> L. | Kachri | Climber | Dicot | | | |
| 138 | <i>Momordica balsamina</i> L. | Kikoro | Climber | Dicot | | | |
| 139 | <i>Momordica charantia</i> L. | Karela | Climber | Dicot | | | |
| 140 | <i>Momordia dioca</i> Roxb. | Kinakora | Climber | Dicot | | | |
| 141 | <i>Mukia maderaspatana</i> (L.) Spreng. | Ank photnikibel | Climber | Dicot | | | |
| | 34. CACTACEAE | | | | | 1 | 1 |
| 142 | <i>Opuntia elatior</i> Mill. | Naghphani | Shrub | Dicot | | | |
| | 35. AIZOACEAE | | | | | 1 | 2 |
| 143 | <i>Trianthema portulacastrum</i> L. | Safed Santo | Herb | Dicot | | | |
| 144 | <i>Trianthema triquetra</i> Rottl.ex Willd. | Lutanki | Herb | Dicot | | | |
| | 36.MOLLUGINACEAE | | | | | 3 | 3 |
| 145 | <i>Glinus lotoides</i> L. | Sata | Herb | Dicot | | | |
| 146 | <i>Mollugo cerviana</i> (L.) DC | Chirya ki bajri | Herb | Dicot | | | |
| 147 | <i>Gisekia pharanceoides</i> L. | Patalighas, Sureli | Herb | Dicot | | | |
| | 37.ASTERACEAE | | | | | 22 | 24 |
| 148 | <i>Acanthospermum hispidium</i> DC. | Dokanta | Herb | Dicot | | | |
| 149 | <i>Ageratum conyzoides</i> L. | Visadodi | Herb | Dicot | | | |
| 150 | <i>Artemisia merittima</i> L. | Bana | Herb | Dicot | | | |
| 151 | <i>Biden biternata</i> (Lour.) Merr. &Sherff. | Katlo | Herb | Dicot | | | |
| 152 | <i>Blainvillea acmella</i> (L.) Phill. | Kanghi | Herb | Dicot | | | |
| 153 | <i>Blepharis repens</i> L. | Bhangri | Herb | Dicot | | | |
| 154 | <i>Blumea lacera</i> DC. | Kukundra | Herb | Dicot | | | |
| 155 | <i>Cirsium arvense</i> (L.) Scop | Kanti | Herb | Dicot | | | |
| 156 | <i>Conyza bonariensis</i> L. | Asthmaweed | Herb | Dicot | | | |
| 157 | <i>Dicoma tomentosa</i> Cass. | Cholohaarna- charo | Herb | Dicot | | | |
| 158 | <i>Echinops echinatus</i> Roxb. | Kantalo | Herb | Dicot | | | |
| 159 | <i>Eclipta prostrata</i> (L.) Ment. | Bhringraj | Herb | Dicot | | | |
| 160 | <i>Eclipta alba</i> (L.) Hassk. | Bhangra | Herb | Dicot | | | |
| 161 | <i>Glossocardia bosvallea</i> (L. F.) DC. | Chirya chuga | Herb | Dicot | | | |
| 162 | <i>Spharanthus indicus</i> L. | Gorakh mundi | Herb | Dicot | | | |
| 163 | <i>Pluchea lanceolata</i> (L.)Gaert. | Rasna | Herb | Dicot | | | |
| 164 | <i>Vernonia cinerea</i> (L.) Less. | Sahadevi | Herb | Dicot | | | |
| 165 | <i>Parthenium hysterophorus</i> L. | Gajar gass | Herb | Dicot | | | |
| 166 | <i>Pulicaria crispa</i> (Forsk.) Benth&Hook. | Dhola lingru | Herb | Dicot | | | |
| 167 | <i>Tridax procumbens</i> L. | Shatia | Herb | Dicot | | | |
| 168 | <i>Peristrophe bicalyculata</i> (Retz.) Nees. | Julhan | Herb | Dicot | | | |
| 169 | <i>Sonchus asper</i> (L.) Hill. | Kalijibi | Herb | Dicot | | | |
| 170 | <i>Sonchus aleraceus</i> L. | Ankhali | Herb | Dicot | | | |
| 171 | <i>Xanthium indicum</i> Koen. | Adhasisi | Herb | Dicot | | | |
| | 38. PLUMBAGINACEAE | | | | | 1 | 1 |
| 172 | <i>Plumbago zeylanica</i> L. | Chitrak | Herb | Dicot | | | |
| | 39. SAPOTACEAE | | | | | 3 | 3 |
| 173 | <i>Madhuca indica</i> J. F. Gmelin. | Madhuca, Ma hua | Tree | Dicot | | | |
| 174 | <i>Manilkara hexandra</i> (Roxb.)Dub. | Khirmi | Tree | Dicot | | | |
| 175 | <i>Mimusops elengi</i> L. | Maulakshi | Tree | Dicot | | | |
| | 40. SALVADORACEAE | | | | | 1 | 2 |
| 176 | <i>Salvadura oleoides</i> Decne. | Kharo Jal | Tree | Dicot | | | |
| 177 | <i>Salvadora persica</i> L. | Mithe Jal ,Pilu | Tree | Dicot | | | |
| | 41. APOCYNACEAE | | | | | 15 | 17 |
| 178 | <i>Alstonia scholaris</i> (L.)R. Br. | Saptarni | Herb | Dicot | | | |

| | | | | | | |
|-----|---|--------------------|---------|-------|---|----|
| 179 | <i>Calotropis gigantea</i> (L.) R. Br. | Safed Aak | Shrub | Dicot | | |
| 180 | <i>Calotropis procera</i> (Ait.) Ait. | Aark,Aak | Shrub | Dicot | | |
| 181 | <i>Carissa carandas</i> Wight. | Karonda | Shrub | Dicot | | |
| 182 | <i>Catharanthus roseus</i> (L.) G. Don | Sadabaha | Herb | Dicot | | |
| 183 | <i>Ceropegia bulbosa</i> Roxb.Var. Bulbosa | Jangli Kanda | Herb | Dicot | | |
| 184 | <i>Leptadenia pyrotechnica</i> Decne | Jivanti,Kheep | Shrub | Dicot | | |
| 185 | <i>Leptadenia reticulate</i> (Retz.)Wight. | Belwala Kheep | Tree | Dicot | | |
| 186 | <i>Nerium indicum</i> L. | Kaner | Shrub | Dicot | | |
| 187 | <i>Pergularia daemia</i> (Forsk.) Chiov. | Gadaria ki bel | Climber | Dicot | | |
| 188 | <i>Plumeria rubra</i> L. | Champa | Shrub | Dicot | | |
| 189 | <i>Sarcostemma acidum</i> (Roxb.) voigt. | Somlata | Shrub | Dicot | | |
| 190 | <i>Tabernemontana divaricate</i> L. | Chandni | Shrub | Dicot | | |
| 191 | <i>Thevetia peruviana</i> (Pers) Merrill | Pili Kaner | Shrub | Dicot | | |
| 192 | <i>Tylophora hirsute</i> (Wall.)Wight. & Arn | Antamul | Shrub | Dicot | | |
| 193 | <i>Wrightia tinctoria</i> (Roxb.)R. Br. | Bhakar Aak | Tree | Dicot | | |
| 194 | <i>Wattakaka volubills</i> L. | Pilovan Bel | Shrub | Dicot | | |
| | 42. PERIPLOCACEAE | | | | 1 | 1 |
| 195 | <i>Cryptostegia grandiflora</i> R. Br. | Chabuk chari | Climber | Dicot | | |
| | 43. BORAGINACEAE | | | | 3 | 4 |
| 196 | <i>Arnebia hispidissima</i> DC. | Ram –Bui | Herb | Dicot | | |
| 197 | <i>Heliotropium supinum</i> Linn. | Kulpa, Kali Bui | Herb | Dicot | | |
| 198 | <i>Heliotropium marifoloum</i> Retz | Lana | Herb | Dicot | | |
| 199 | <i>Tricodesma indicum</i> var. <i>amplexicaule</i> Cook. | Sial Kanto | Herb | Dicot | | |
| | 44. EHRETIACEAE | | | | 1 | 2 |
| 200 | <i>Cordia dichotoma</i> Forster. | Lasora | Tree | Dicot | | |
| 201 | <i>Cordia garaf</i> Forsk. | Gundi | Tree | Dicot | | |
| | 45. CONVULVULACEAE | | | | 6 | 11 |
| 202 | <i>Argyrea nervosa</i> (Burm.f.)Bojer | <i>Ghav bel</i> | Climber | Dicot | | |
| 203 | <i>Convolvulus microphyllus</i> L. | Shank Pushpi | Herb | Dicot | | |
| 204 | <i>Cressa cretica</i> L. | Rudenti | Herb | Dicot | | |
| 205 | <i>Evolvulus alsinoides</i> L. | Sankhpushpi | Herb | Dicot | | |
| 206 | <i>Ipomoea cornea</i> Jacqu. | Besharmi | Herb | Dicot | | |
| 207 | <i>Ipomoea eriocarpa</i> L. | Shanki | Herb | Dicot | | |
| 208 | <i>Ipomoea indica</i> (Burm.f.) Merrill | Morning Glory | Climber | Dicot | | |
| 209 | <i>Ipomoea nil</i> (L.) Roth. | Krishnabeej | Climber | Dicot | | |
| 210 | <i>Ipomoea pes-tigridis</i> L. | Panchpati Bel | Climber | Dicot | | |
| 211 | <i>Ipomoea sindica</i> Stapf. | Rotabel | Climber | Dicot | | |
| 212 | <i>Cuscuta reflexa</i> Roxb. | Amarbel | Climber | Dicot | | |
| | 46. SOLANACEAE | | | | 5 | 9 |
| 213 | <i>Datura innoxia</i> Mill. | Datura | Shrub | Dicot | | |
| 214 | <i>Datura stramonium</i> L. | Bada Datura | Shrub | Dicot | | |
| 215 | <i>Solanum indicum</i> L. | Ringi | Herb | Dicot | | |
| 216 | <i>Solanum nigrum</i> L. | Makoy | Herb | Dicot | | |
| 217 | <i>Solanum melongena</i> Prain. | Bhurigni | Herb | Dicot | | |
| 218 | <i>Solanum surattense</i> Lam | Bhurant | Herb | Dicot | | |
| 219 | <i>Lycium barbarum</i> L. | Murali | Herb | Dicot | | |
| 220 | <i>Lycopersicon lycopersicum</i> L. | Tamatar | Herb | Dicot | | |
| 221 | <i>Withania coagulens</i> Dunel. | Akri | Herb | Dicot | | |
| | 47. SCROPHULARIACEAE | | | | 2 | 2 |
| 222 | <i>Baccopa monnieri</i> (L.)Wettst. | Brahmi | Herb | Dicot | | |
| 223 | <i>Lindenbergia indica</i> (L.) Vatke | Shankhi | Herb | Dicot | | |
| | 48. BIGNONIACEAE | | | | 1 | 1 |
| 224 | <i>Tecomella undulate</i> (Sm) Seem. | Rohira | Tree | Dicot | | |
| | 49. PEDALIACEAE | | | | 2 | 3 |
| 225 | <i>Pedaliium murex</i> L. | Gokhru | Shrub | Dicot | | |
| 226 | <i>Sesamum indicum</i> L. | Til | Herb | Dicot | | |
| 227 | <i>Sesamum malayanum</i> Nair & Bull | Jangli Til | Herb | Dicot | | |
| | 50. MARTYNIACEAE | | | | 1 | 1 |

| | | | | | | |
|-----|---|--------------------|---------|-------|----|----|
| 228 | <i>Martynia annua</i> L. | Bagh Nakhi | Herb | Dicot | | |
| | 51. ACANTHACEAE | | | | 10 | 11 |
| 229 | <i>Adhotoda vesica</i> Medic | Vasa, Adusa | Herb | Dicot | | |
| 230 | <i>Andrographis paniculata</i> (Burm.f.) Wall | Kalmegh | Herb | Dicot | | |
| 231 | <i>Barleria prionitis</i> L. | Bajardanti | Herb | Dicot | | |
| 232 | <i>Blepharis indica</i> (Vahl.) Roth. | Utangana | Herb | Dicot | | |
| 233 | <i>Dipteracanthus patulus</i> (Jacq.) Nees | Sindra | Herb | Dicot | | |
| 234 | <i>Elytraria acaulis</i> (L.F.) Lindau | Pathar chatti | Herb | Dicot | | |
| 235 | <i>Justicia simplex</i> D. Don | Santha | Herb | Dicot | | |
| 236 | <i>Justicia procumbance</i> L. | Simari | Herb | Dicot | | |
| 237 | <i>Lepidoghathis trinervis sensu</i> Blatt. & Hall. | Patharphod Buti | Herb | Dicot | | |
| 238 | <i>Ruellia tuberosa</i> L. | Chhota kanda | Herb | Dicot | | |
| 239 | <i>Rungia repens</i> (L.) Nees | Pitpapa | Herb | Dicot | | |
| | 52. VERBENACEAE | | | | 4 | 4 |
| 240 | <i>Clerodendrum multiflorum</i> (Brum) Kuntze | Bhandira | Shrub | Dicot | | |
| 241 | <i>Gmelina arborea</i> Roxb. | Gambhari | Tree | Dicot | | |
| 242 | <i>Lantana camara</i> L. var. <i>aculeate</i> (L.) Mold | Lalten | Shrub | Dicot | | |
| 243 | <i>Vitex negundo</i> L. | Nirgundi | Shrub | Dicot | | |
| | 53. LAMIACEAE | | | | 4 | 11 |
| 244 | <i>Clerodendrum phlomoides</i> L. F. | Arni | Shrub | Dicot | | |
| 245 | <i>Leucas aspera</i> (Willd.) Spreng | Dargal | Herb | Dicot | | |
| 246 | <i>Leucas cephalotes</i> Spreng. | Dronpushpi | Herb | Dicot | | |
| 247 | <i>Leucas leucocephala</i> (Lam.) Wit | Subabool | Herb | Dicot | | |
| 248 | <i>Leucas urticaefolia</i> R. Br. | Panihari | Herb | Dicot | | |
| 249 | <i>Leucas officinalis</i> L. | Gotta | Herb | Dicot | | |
| 250 | <i>Ocimum basilicum</i> L. | Van Tulsi | Herb | Dicot | | |
| 251 | <i>Ocimum canum</i> Sims. | Kali Tulsi | Herb | Dicot | | |
| 252 | <i>Ocimum sanctum</i> L. | Tulsi | Herb | Dicot | | |
| 253 | <i>Ocimum amricanum</i> L. | Bapchi | Herb | Dicot | | |
| 254 | <i>Majorana hortensis</i> L. | Maruaa | Herb | Dicot | | |
| | 54. PLANTAGINACEAE | | | | 1 | 1 |
| 255 | <i>Plantago ovate</i> Ktze. | Ishabgole | Herb | Dicot | | |
| | 55. NYCTAGENECEAE | | | | 3 | 5 |
| 256 | <i>Boerhavia diffusa</i> L. | Punarnava, santi | Herb | Dicot | | |
| 257 | <i>Boerhavia elegans</i> Choisy | Santi | Herb | Dicot | | |
| 258 | <i>Boerhavia repens</i> L. | Santa | Herb | Dicot | | |
| 259 | <i>Bougainvillea spectabilis</i> Willd. | Boganvillia | Climber | Dicot | | |
| 260 | <i>Nyctanthes arbor-tristis</i> L. | Harsringar | Shrub | Dicot | | |
| | 56. AMARANTHACEAE | | | | 8 | 14 |
| 261 | <i>Achyranthus aspera</i> L. var. <i>aspera</i> | Andhijara | Herb | Dicot | | |
| 262 | <i>Achyranthus aspera</i> L. var. <i>argentea</i> Hook | Latzera | Herb | Dicot | | |
| 263 | <i>Achyranthus aspera</i> L. var. <i>porphyristachya</i> Hook | Undo kanto | Herb | Dicot | | |
| 264 | <i>Alternanthera pungens</i> Kunth. | Khakhi | Herb | Dicot | | |
| 265 | <i>Amaranthus graecizans</i> L. | Lal Chouli | Herb | Dicot | | |
| 266 | <i>Amaranthus spinosus</i> L. | Kanteli Chouli | Herb | Dicot | | |
| 267 | <i>Amaranthus viridis</i> L. | Chouli | Herb | Dicot | | |
| 268 | <i>Aerva lanata</i> (L.) Juss. ex. Schult | Kali Bui | Herb | Dicot | | |
| 269 | <i>Aerva persica</i> (Burm.f.) Merrill | Safed Bui | Herb | Dicot | | |
| 270 | <i>Aerva pseudotomentosa</i> Forssk | Bui | Herb | Dicot | | |
| 271 | <i>Celosia argentea</i> L. | Pilovan | Shrub | Dicot | | |
| 272 | <i>Digera muricata</i> (L.) Mart. | kadapa | Herb | Dicot | | |
| 273 | <i>Pupalian lappacea</i> (L.) Juss | Chiptio Bharut | Herb | Dicot | | |
| 274 | <i>Suaeda fruticosa</i> L. | Lunio | Herb | Dicot | | |
| | 57. CHENOPODIACEAE | | | | 2 | 3 |
| 275 | <i>Chenopodium album</i> L. | Chil | Herb | Dicot | | |
| 276 | <i>Chenopodium miracle</i> L. | Chandloi | Herb | Dicot | | |
| 277 | <i>Salsola baryosma</i> Schult. | Lunio | Herb | Dicot | | |
| | 58. BASELLACEAE | | | | 1 | 1 |

| | | | | | | |
|-----|--|--------------------|----------|----------------|---|----|
| 278 | <i>Basella indica</i> L. | Rati Bel | Climber | Dicot | | |
| | 59. POLYGONACEAE | | | | 3 | 4 |
| 279 | <i>Calligonum polygonoides</i> L. | Unt phog | Shrub | Dicot | | |
| 280 | <i>Polygonum barbetum</i> L. | Charo | Shrub | Dicot | | |
| 281 | <i>Polygonum glabrum</i> Willd. | Rato charo | Shrub | Dicot | | |
| 282 | <i>Rumex dentatus</i> L. | Cukra | Shrub | Dicot | | |
| | 60. PROTEACEAE | | | | 1 | 1 |
| 283 | <i>Grevillea robusta</i> Cunn.ex.R. Br. | Silk oak | Tree | Dicot | | |
| | 61. ARISTOLOCHIACEAE | | | | 1 | 1 |
| 284 | <i>Aristolochia bractolata</i> Lamk. | Batakbel | Herb | Dicot | | |
| | 62. LORANTHACEAE | | | | 1 | 1 |
| 285 | <i>Dendrophthoe falcate</i> (L. F.) Ett. | Banda patta | Epiphyte | Dicot | | |
| | 63. EUPHORBIACEAE | | | | 7 | 12 |
| 286 | <i>Acalypta indica</i> L. | Kuppi | Herb | Dicot | | |
| 287 | <i>Chrozophora rotleri</i> Geiss. | Papri | Herb | Dicot | | |
| 288 | <i>Euphorbia caducifolia</i> Haines. | Danda Thor | Shrub | Dicot | | |
| 289 | <i>Euphorbia hirta</i> L. | Dudhi | Herb | Dicot | | |
| 290 | <i>Euphorbia thymifolia</i> L. | Lal Dudhi | Herb | Dicot | | |
| 291 | <i>Euphorbia prostrate</i> Alt. | Choto Kanto | Herb | Dicot | | |
| 292 | <i>Euphorbia pulcherrima</i> Willd. | Lalpata | Herb | Dicot | | |
| 293 | <i>Emblica officinalis</i> Lam. | Aanwala | Tree | Dicot | | |
| 294 | <i>Jatropha curcas</i> L. | Ratan jot | Shrub | Dicot | | |
| 295 | <i>Phyllanthus amarus</i> Schum. & Th. | Googa janti | Herb | Dicot | | |
| 296 | <i>Phyllanthus niruri</i> Linn. | Hajar dana | Herb | Dicot | | |
| 297 | <i>Ricinus communis</i> L. | Arandio | Shrub | Dicot | | |
| | 64. ULMACEAE | | | | 1 | 1 |
| 298 | <i>Holoptelea integrifolia</i> (Roxb.) Planch. | Chirabilva | Tree | Dicot | | |
| | 65. CANNABINACEAE | | | | 1 | 1 |
| 299 | <i>Cannabis sativa</i> L. | Bhang | Herb | Dicot | | |
| | 66. MORACEAE | | | | 1 | 3 |
| 300 | <i>Ficus benghalensis</i> L. | Vat, Bargad | Tree | Dicot | | |
| 301 | <i>Ficus racemose</i> L. | Gular | Tree | Dicot | | |
| 302 | <i>Ficus religiosa</i> L. | Peepal | Tree | Dicot | | |
| | 67. CASURINACEAE | | | | 1 | 1 |
| 303 | <i>Casuarina equisetifolia</i> L. | Faras | Tree | Dicot | | |
| | 68. HYDROCHARITACEAE | | | | 1 | 1 |
| 304 | <i>Hydrilla verticillata</i> (L. f.) | Jhani Kureli | Aquatic | Dicot | | |
| | 69. MUSACEAE | | | | 1 | 1 |
| 305 | <i>Canna indica</i> L. | Keli | Herb | Monocot | | |
| | 70. AMARYLLIDACEAE | | | | 1 | 1 |
| 306 | <i>Crinum asiatica</i> L. | Bhuie | Herb | Monocot | | |
| | 71. AGAVACEAE | | | | 1 | 1 |
| 307 | <i>Agave americana</i> L. | Narwas, Rambas | Shrub | Monocot | | |
| | 72. LILIACEAE | | | | 5 | 5 |
| 308 | <i>Aloe vera</i> L. | Gwarpatta | Herb | Monocot | | |
| 309 | <i>Asparagus racemosus</i> Willd. | Shatavari | Climber | Monocot | | |
| 310 | <i>Asphodelus tenuifolius</i> Cav. | Piazi | Herb | Monocot | | |
| 311 | <i>Gloriosa superba</i> L. | Langali, Raja raar | Climber | Monocot | | |
| 312 | <i>Urginea indica</i> (Roxb.) Kunt. | Jangali pyaj | Herb | Monocot | | |
| | 73. COMMELINACEAE | | | | 1 | 2 |
| 313 | <i>Commelina benghalensis</i> L. | Bakhana | Herb | Monocot | | |
| 314 | <i>Commelina cristata</i> (L.) D. Don. | Kalifuly | Herb | Monocot | | |
| | 74. ARECACEAE | | | | 1 | 1 |
| 315 | <i>Phoenix sylvestris</i> (L.) Roxb. | Khajoor | Tree | Monocot | | |
| | 75. TYPHACEAE | | | | 1 | 1 |
| 316 | <i>Typha augustata</i> Bory & Chaub. | Kanro | Herb | Monocot | | |
| | 76. POTOMOGETONACEAE | | | | 1 | 1 |
| 317 | <i>Potamogeton pectinatus</i> L. | Nada khat | Herb | Monocot | | |
| | 77. CYPERACEAE | | | | 2 | 12 |
| 318 | <i>Cyperus arenarius</i> Retz. | Motho | Herb | Monocot | | |
| 319 | <i>Cyperus bulbosa</i> Vahl | Moth | Herb | Monocot | | |

| | | | | | | |
|-----|--|---------------------|--------------------|---------------------|----|----|
| 320 | <i>Cyperus conglomeratus</i> Rottb. | Mandusi | Herb | Monocot | | |
| 321 | <i>Cyperus pumilus</i> L. | Kangi | Herb | Monocot | | |
| 322 | <i>Cyperus rotundus</i> L. | Motha, Mustak | Herb | Monocot | | |
| 323 | <i>Cyperus alulatus</i> Kern. | Alhagi | Herb | Monocot | | |
| 324 | <i>Cyperus compressus</i> L. | Moth | Herb | Monocot | | |
| 325 | <i>Cyperus flavescens</i> L. | Kaghi | Herb | Monocot | | |
| 326 | <i>Cyperus natans</i> Vahl. | June | Herb | Monocot | | |
| 327 | <i>Cyperus pygmaeus</i> Rottb. | Choto Kato | Herb | Monocot | | |
| 328 | <i>Cyperus squarrosus</i> L. | Musa | Herb | Monocot | | |
| 329 | <i>Scirpus tuberosus</i> Desf. | Morlo | Herb | Monocot | | |
| | 78. POACEAE | | | | 22 | 33 |
| 330 | <i>Aristida funiculata</i> Trin. Et. Rupr. | Lamp | herb | Monocot | | |
| 331 | <i>Brachiaria ramose</i> (L.) Stapf | Kuri | Herb | Monocot | | |
| 332 | <i>Chloris virgate</i> SW | Choto aranio | Herb | Monocot | | |
| 333 | <i>Chrysopogon fulvus</i> (Spreng.) Chiov. | Kateli | Herb | Monocot | | |
| 334 | <i>Cenchrus biflorus</i> Roxb. | Bhurant | Herb | Monocot | | |
| 335 | <i>Cenchrus ciliaris</i> L. | Dhaman | Herb | Monocot | | |
| 336 | <i>Cenchrus prieurii</i> (Kunth) Maire | Lambio Bhurat | Herb | Monocot | | |
| 337 | <i>Cenchrus setigerus</i> Vahl. | Chota Dhaman | Herb | Monocot | | |
| 338 | <i>Cymbopogon jawarancusa</i> (Jones) Schult | Buraro | Herb | Monocot | | |
| 339 | <i>Cynodon dactylon</i> (L) Pers. | Durva | Herb | Monocot | | |
| 340 | <i>Dactyloctenium aegyptium</i> (L.) P. Beauv. | Makro | Herb | Monocot | | |
| 341 | <i>Dactyloctenium indicum</i> Boiss. | Tantia | Herb | Monocot | | |
| 342 | <i>Dendrocalamus stricum</i> (Roxb.) Nees | Bans | Herb | Monocot | | |
| 343 | <i>Desmostachya bipinnata</i> (L.) Stapf | Kush | Herb | Monocot | | |
| 344 | <i>Dichantium annulatum</i> (Forsk.) Stapf. | Kharad | Herb | Monocot | | |
| 345 | <i>Digitaria ablutens</i> Veldk. | Carbgrass | Herb | Monocot | | |
| 346 | <i>Digitaria biformis</i> Willd. | Jernio | Herb | Monocot | | |
| 347 | <i>Digitaria ciliaris</i> (Retz.) Koeler | Pullu | Herb | Monocot | | |
| 348 | <i>Echinochloa colonum</i> (L.) Link | Jirio | Herb | Monocot | | |
| 349 | <i>Eleusine compressa</i> Forsk. | Madua | Herb | Monocot | | |
| 350 | <i>Eragrostis ciliaris</i> (L.) R. Br. | Under punchho | Herb | Monocot | | |
| 351 | <i>Eragrostis pilosa</i> (L.) P. Beauv | Poongio | Herb | Monocot | | |
| 352 | <i>Eragrostis tremula</i> (Lam.) Hochst. Ex Steud. | Dholpalio | Herb | Monocot | | |
| 353 | <i>Pennisetum tergidium</i> Forsk. | Muratio Gas | Herb | Monocot | | |
| 354 | <i>Perotis indica</i> (L.) Kuntze. | Comet Grass | Herb | Monocot | | |
| 355 | <i>Phragmites karka</i> Retz. | Narkul | Herb | Monocot | | |
| 356 | <i>Setaria ericiliata</i> L. | Bristle grass | Herb | Monocot | | |
| 357 | <i>Tetrapogon tenellus</i> Chiov. | Lampada | Herb | Monocot | | |
| 358 | <i>Tragus biflorus</i> (Roxb.) Schult | Charcharia | Herb | Monocot | | |
| 359 | <i>Saccharum banghalensis</i> Retz | Munj | Herb | Monocot | | |
| 360 | <i>Saccharum munja</i> Roxb. | Munj deshi | Herb | Monocot | | |
| 361 | <i>Setaria glauca</i> (L.) P. Beauv. | Bandra | Herb | Monocot | | |
| 362 | <i>Urochloa penicoides</i> P. Beauv. | Kuri | Herb | Monocot | | |
| | TOTAL= | Families =78 | Genera =260 | Species =362 | | |

floral composition of the district. However it was lowest in May and highest in August and December when plants of angiosperm were in their full bloom. The special attention was paid on the collection of ephemerals, which complete their life-cycle within a few days and disappear with the onset of drier conditions. It was a great help that the field staff of forest department was associated always in the field. Efforts were made to identify the plant

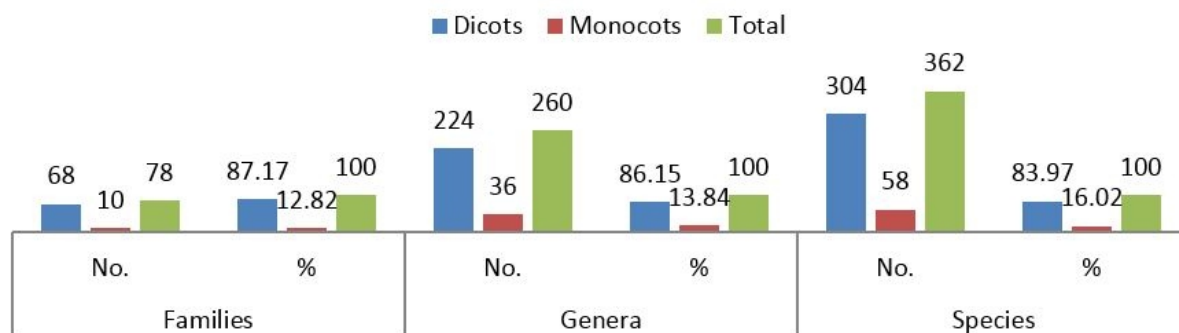
materials. The species were identified with the help of the flora of the Indian desert, flora of South Central Rajasthan and the flora of Rajasthan Vol.-I, II, III. Identification was done with the help of well-known botanist, taxonomist and former Vice-Chancellor Dr. C. B. Gena.

Table-2: Ten Dominant families along with number of Genera and species in Pali-district

| S. No. | Families | No. of Genera | No. of Species |
|--------|---------------|---------------|----------------|
| 1. | FABACEAE | 28 | 45 |
| 2. | POACEAE | 22 | 33 |
| 3. | ASTERACEAE | 22 | 24 |
| 4. | APOCYNACEAE | 15 | 17 |
| 5. | MALVACEAE | 11 | 16 |
| 6. | CUCURBITACEAE | 10 | 16 |
| 7. | AMARANTHACEAE | 08 | 14 |
| 8. | EUPHORBIACEAE | 07 | 12 |
| 9. | CYPERACEAE | 02 | 12 |
| 10. | ACANTHACEAE | 10 | 11 |

Table-3 Synopsis of indigenous flora-ten dominant families of Pali district and adjoining regions.

| S. No | Flora of Pali district (Present Work) | W. Rajasthan (M. M. Bhandari, 1978) | Rajasthan (South and South East). Tiagi and Aery 2007. | South Central Rajasthan. Yadav and Meena 2011. |
|-------|--|--|--|---|
| 1. | Fabaceae | Poaceae | Leguminosae | Leguminosae |
| 2. | Poaceae | Leguminosae | Poaceae | Poaceae |
| 3. | Asteraceae | Asteraceae | Asteraceae | Asteraceae |
| 4. | Apocynaceae | Cyperaceae | Cyperaceae | Cyperaceae |
| 5. | Malvaceae | Convolvulaceae | Acanthaceae | Malvaceae |
| 6. | Cucurbitaceae | Malvaceae | Euphorbiaceae | Euphorbiaceae |
| 7. | Amaranthaceae | Euphorbiaceae | Lamiaceae | Acanthaceae |
| 8. | Euphorbiaceae | Acanthaceae | Malvaceae | Convolvulaceae |
| 9. | Cyperaceae | Cucurbitaceae | Rubiaceae | Amaranthaceae |
| 10. | Acanthaceae | Amaranthaceae | Convolvulaceae | Lamiaceae |

**Figure 2:** Proportional relationship of Dicotyledonous and Monocotyledonous Taxa in Pali-district.

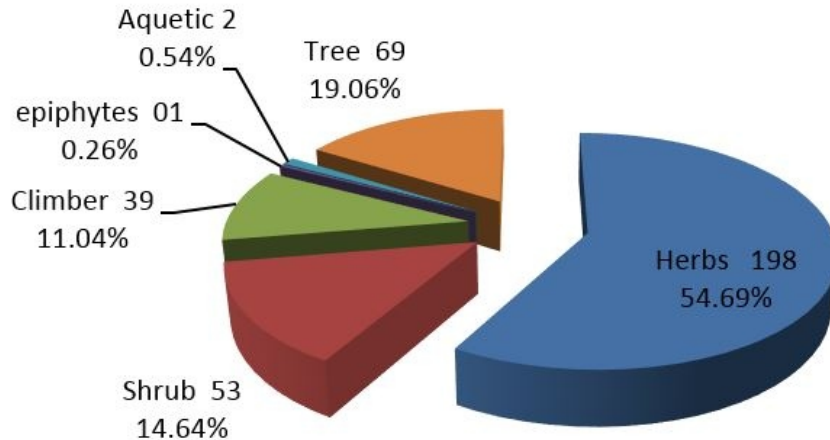


Figure 3: Habit-wise comparison of vegetation of Pali-district

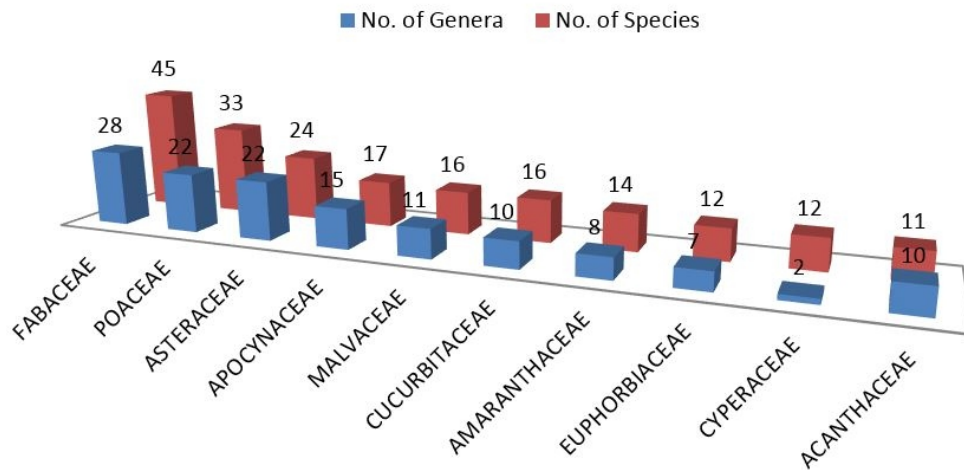


Figure 4: Ten Dominant families along with number of Genera and species in the Pali-district

OBSERVATIONS

Conservation practices

The devastating propensities of goat and camel have been beautifully summarized in a Rajasthani Proverb:

*“Oont Chhode Akaro,
Bakri Chhode Kankro”*

The erosion of plant biodiversity is a matter of global concern. One by one the building blocks of entire ecosystem are disappearing. The 2008 IUCN Red Data list shows that in India

hundreds of taxa are under the list of threatened and at the risk of extinction. The life of tribal people and rural communities of Pali-district are closely interwoven with their environment and local flora. It becomes the integrated parts of their culture, custom and folklore. These A large number of plants are being used by tribal to cure human and veterinary ailments, thus they co-relate it with god or spiritual power or religious ethics. The plants growing around them form an integral part of their culture and customs.

It is our duty to recognize and support the

conservational strategies adopted by tribal and rural people by the term of faith, myths, taboos, tradition, religious aspect, sacred grove etc. Conservation of threatened species is the responsibility of each and everyone's.

DISCUSSION

After thorough investigation in different habitat and localities of Pali-district the present study reveals that the Dicotyledonous have been represented in higher number of families, genera and species in comparison to Monocotyledons.

The habit wise comparison of vegetation of Pali-district shows that the contribution of ground flora is more than 50 % of total flora as shown in Fig.4 Herbs are dominated flora followed by trees, shrubs climbers and epiphytes. Dominance of phanerophytes indicates the tropical dry, sub-humid and deciduous climate.

The comparison of ten dominant families occurring in Pali-district with that of Western-Rajasthan, Rajasthan (South and South East), and South Central Rajasthan in order of the frequency of species reveals that all these floras have genera resemblance.

After thorough investigation in different habitat and localities of Pali-district it was evident that the floristic composition of Pali-district is quite rich as compare to flora of Indian desert by Bhandari (1978) who could record 67 families from the entire desert belt of Rajasthan. Higher number of angiospermic taxa (1378 species, 721 genera and 126 family) in South and south-east Rajasthan as reported by Tiagi and Aery (2007) is due to the humid climatic conditions of this part of the state. Yadav and Meena (2011) have reported 686 species belonging 416 genera and 117 families from South Central Rajasthan. Flora of Pali-district shares the elements of Western Rajasthan desert flora due to its locations in the western region of Aravalli. Vegetation occurs

as mixed formation. So far numbers of angiospermic taxa in Rajasthan are concerned, a total of 1910 species belonging to 779 genera and 153 families have been reported by Shetty and Singh (1987-93). The number of families represented by single families (31 families) is quite high as compared to Indian desert (23 families) reported by Bhandari (1978) and South and South Central Rajasthan (26 Families) reported by Tiagi and Aery, 2007. It is interested that Shetty and Singh (1987-93) has enumerated 46 families represented by single species from this state.

The ratio of the total number of genera and species is 1 : 1.31 which is rather low in comparison to corresponding ratio for entire India (1 : 7) and Whole Rajasthan is 1 :2.4 (Shetty and Singh 1987-93) and higher than the Rajasthan Desert 1: 1.19 (Bhandari 1978) and South Central Rajasthan 1:1.62 (Yadav and Meena 2011).

Land-wise floral diversity and plant community structure of Pali-district - This is tropical dry deciduous region and main economically valuable species are Khejri (*Prosopis cineraria*), Deshi babool (*Acacia nilotica*), Aronj (*Acacia leucophlea*), dhak (*Butea monosperma*), kair (*Capparis decidua*), ber (*Zizyphus mauritiana*) with having lot of ground flora comprised of shrubs, herbs, climbers and grasses etc.

Vegetation of Magras - Magras are hard landscape with gravel and stony surface. These surfaces are so stiff that roots of most of the plant do not easily penetrate it. Therefore the vegetation covers on such surfaces are scanty. The plant community of Magras is *Asparagus recemosus*, *Maytenus emarginata*, *Crotolaria burrhia*, *Evolvulus alsinoides*, *Fagonia cretica*, *Indigophora* and *Zizyphus nummularia*.

Vegetation of hillocks - The eastern border of Pali-district touches the Aravalli range. Some discontinued hills locks and small exposed hill areas are also there. The plant community of

this region is *Rhus sinuta*, *Acacia senegal*, *Acacia leucophloea*, *Euphorbia caducifolia*, *Barleria prionitis*, *Aristida funiculata*, *Asperagus recemosus*, *Maytenus emarginata*, and *Dicoma tomentosa*.

Vegetation series of Aravalli range- *Ailanthus excels*, *Bauhinia racemose*, *Cassia fistula*, *Balanites aegyptiaca*, *Boswellia serrata* and *Anogeissus pendula*.

Vegetation of Plain regions- *Prosopis cineraria*, *Acacia nilotica*, *Phoenix sylvestris*, *Ziziphus zuzuba*, *Calotropis procera*, *Leptadenia pyrotechnica*, *Azadirachta indica*, *Ziziphus nummularia*, *Ziziphus mauritiana*, *Maytenus emarginata*, *Bauhinia variegata*, *Crotolaria burhia* and *Leucas officinalis*.

Vegetation near ponds and Aquatic - *Trapa natans*, *Hydrilla verticillata*, *Nymphaea nouchali* and *Typha augustata* are aquatic and *Chrozaphora rottleri*. *Glinus lotoides* are usually grows in crevasses near ponds.

Invasive alien flora of flora- *Prosopis juliflora*, *Parthenium hysterophoresis*, *Lantana camera*, *Ipomea* Spp.

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