

A Checklist of Spider Fauna (Arachnida: Araneae) of Sangli District (MS, India)

S. B. More¹, S. B. Patil²

¹Department of Zoology, P. V. P. Mahavidyalaya, Kavathe Mahankal, Sangli, (MS), India
Email: suvarnam446[at]gmail.com

² Department of Botany, P. V. P. Mahavidyalaya, Kavathe Mahankal
Email: swapnilpatil2151[at]gmail.com

Abstract: The survey of spider was carried out from the Sangli District which is located in the western part of Maharashtra. Tehsils in Sangli District includes Atpadi, Jath, Kadegaon, Kavathe Mahankal, Khanapur, Miraj, Palus, Shirla, Tasgaon and Walwa. Sangli district has distinct kind of environment. Eastern talukas of Shirala, Walwa, Palus are famous for high rainfall with hills and slopes with some bushy plants, grass and trees. Total area of Sangli is 8.572 km². Chandoli National Park is established in Sangli district of Shirala Tehsil notable as the southern portion of the Sahyadri Tiger Reserve. This region shows good number of spiders during the month of September to December. This is because of availability of food and breeding ground. Sagareswar Wildlife Sanctuary is a protected area in the Sangli district at the meeting of three Tehsils of Sangli district: Kadegaon, Walwa and Palus. It is an artificially cultivated forest with an area of 10.87 km². This region also shows good number of spider diversity. During study we reported 32 spider families, 155 genera and 345 species during year 2012-2017, with a dominance of Araneidae, Salticidae and Lycosidae spiders.

Keywords: Spider, Arachnida:Araneae, diversity, Sangli district

1. Introduction`

Spiders belong to class Arachnida, order Araneae of Phylum Arthropoda. They vary in size, shape and behavior. They comprise one of the largest orders of animals. The body of spider is divided into cephalothorax and abdomen with pedipalps and eight legs. They use the silk to wrap the prey, to hang from and to make egg sacs and nests (1867, 1968, 1975). The spider fauna of India has never been studied in its entirety despite of contributions by many arachnologists since Stoliczka (1869). The pioneering contribution on the taxonomy of Indian spiders is that of European arachnologist Stoliczka (1869). Review of available literature reveals that the earliest contribution by Blackwall (1867); Karsch (1873); Thorell (1895) and Pocock (1900) were the pioneer workers of Indian spiders. They described many species from India. Tikader (1980, 1982), Tikader, and Malhotra (1980a,b) described spiders from India. Tikader (1980) compiled a book on Thomisidae spiders of India, comprising two subfamilies, 25 genera and 115 species. Pocock (1900) and Tikader (1980, 1987) made major contributions to the Indian Arachnology, have high lightened spider studies to the notice of other researcher. Tikader (1987) also published the first comprehensive list of Indian spiders, which included 1067 species belonging to 249 genera in 43 families. From the last three decades, contribution of Gajbe (1995-2003) to the field of spiders is noteworthy. He described 147 new spider species from different habitats of India. He published 69 papers on Araneid, Gnaphosid, Lycosid, Thomisid and Oxyopid spiders and also State Fauna series (2007, 2008a, 2009). Platnick in his World Spider Catalog (2005) has estimated that, there are about 38000 species worldwide, arranged in 110 families. The updated spider checklist given by Keswani et al. (2012) of SGB Amravati University. According to world spider catalogue there are Spiders of protected areas in India, are studied by Gajbe (1995a) in Indravati Tiger Reserve and recorded 13 species. Rane and

Singh (1977) recorded five species and Gajbe (1995b) 14 species from Kanha Tiger Reserve, Madhya Pradesh. Gajbe (2003) prepared a checklist of 186 species of spiders in 69 genera under 24 families distributed in Madhya Pradesh and Chhattisgarh. Patel (2003) described 91 species belonging to 53 genera from Parabikulum Wildlife Sanctuary, Kerala. Manju Silwal et al. (2003) recorded 116 species from 66 genera and 25 families of spiders from Puma wildlife Sanctuary, Dangs, Gujarat. Bastawade (2004) described arachnid fauna of orders Araneae, Scorpionida and Solifugi from Melghat Tiger Reserve, Amravati, Maharashtra State. John Celab (2020) documented the spider fauna in the vicinity of asuburban lake (Araabath Lake) in Chennaiwas. So far nobody has worked out or studied the spider fauna of Sangli district; therefore we are going to explore the diversity of spiders from this region.

2. Methods and Materials

A site wise distribution table was prepared for Sangli district. Sāngli district has a latitude of 16°51'8.63"N and a longitude of 74°34'53.32"E. Various places visited during year. For present study selected various places from each tehsils of Atpadi, Jath, Kadegaon, Kavathe Mahankal, Khanapur, Miraj, Palus, Shirla, Tasgaon and Walwa including Chandoli National Park. (Fig.1). The Taxonomic list of spiders was recorded during the period of 2012 to 2017. The survey was carried out every month of year. The habitat, behavior of spiders and movements and identification marks was studied. The techniques used for spider study was active visual search, litter sampling, grass sweep netting, pitfall trapping and tree beating. The survey was made during early morning hours (6 hours to 9 hours) and day time (16 hours to 18 hours), from different parts of the microhabitats, like, rolled or folded leaves, plant branches, leaf litter, tree trunks, rock surface, grass blades, dry hay and grasses, moist places, under stones, pebbles, humus, bushes, on the bark and

Volume 12 Issue 9, September 2023

www.ijsr.net

Licensed Under Creative Commons Attribution CC BY

branches of trees, water logged locations etc. The Lycosids and Gnaphosids were studied from the soil surface and also from the river beds. Each spider was identified mainly on the basis of morphological characteristics, epigyne and or palp structure by using the literature (Kaston, 1978; Barrion and Litsinger, 1995; Tikader, 1987, Levy and Amitai 1982, 1983 Levi and Randolph, 1975; Namkung et al., 2002; Perveen et al., 2012, and Mujumdar, 2007). The details of body parts of specimens were examined under a good quality stereo zoom microscope. The identification of species was carried out by the comparison of morphological features with the help of published literature, standard books and field guides.

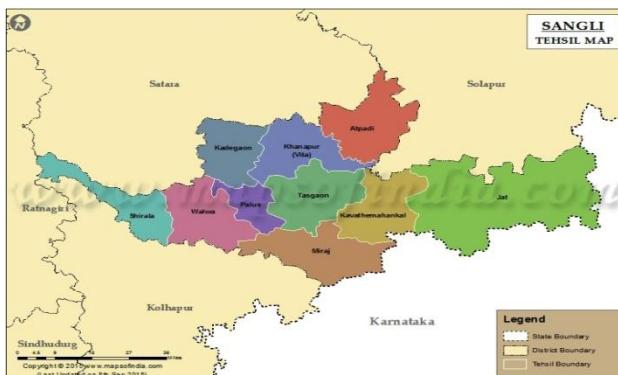


Figure 1: Study area – Sangli district

3. Observations and Results

The present study constitutes the spider species in various parts of Sangli district. The following taxonomic list was recorded which constitutes spiders representing 32 families, 155 genera and 345 species from study area of Sangli district. Araneidae was the dominant family constituting 61 species under 24 genera and followed by Salticidae with 45 species under 24 genera.

Checklist of spiders from sangli district

1. Family : Araneidae – Orb Web Spiders

1. *Araneus mitificus* (Simon 1886) Female
2. *Araneus viridiventris* (Yaginuma 1969)
3. *Araneus nox* (Simon 1877)
4. *Araneus himalayaensis* (Tikader 1975)
5. *Araneus ellipticus* (Tikader and Bal ,1981)
6. *Arachnura* sp. (New)
7. *Argiope lobata* (Pallas 1972)
8. *Argiope aemula* (Walckenaer 1841) Female
9. *Argiope aemula* (Thorell1857) Male
10. *Argiope anasuja* Female (Thorell 1857)
11. *Argiope trifasciata* (Forsskal 1975)
12. *Argiope* sp. *argentata* Silver argiope spider (Fabricius 1775)
13. *Crytophora citricola* (Forskal 1775)
14. *Crytophora moluccensis* (Doleschall 1859)
15. *Chorizopes anjanies* (Tikader 1965)
16. *Chorizopes bengalensis* (Tikader 1975)
17. *Chorizopes khanjanies* (Pocock 1965)
18. *Cyrtarachne raniceps* (Pocock 1900)
19. *Cyclosa bifida* (Doleschall 1859) Female
20. *Cyclosa hexatuberculata* (Tikader 1982) Female
21. *Cyclosa confragata* (Thorell 1892)
22. *Cyclosa spirifera* (Simon 1889)

23. *Cyclosa moonduensis* (Tikader 1963)
24. *Cyclosa insulans* (Costa 1934)
25. *Delfochus zelivira* (Simon 1894)
26. *Eriophora transmarina* (Keyserling 1865)
27. *Eriophora laglaisei* (Simon 1877)
28. *Eriovixia gryffi* ndori (Ahmed, Khalap and Sumukha 2016)
29. *Eriovixia* sp. (New)
30. *Gasteracantha hasselti* (C. L. Koch 1837)
31. *Gasteracantha geminata* (Fabricius 1798) Female
32. *Gasteracantha kuhli* (C. L. Koch 1837) Female
33. *Gasteracantha dalyi* (Pocock 1900)
34. *Gasteracantha remifera* (Butler 1873)
35. *Gea subarmada* Female (C. L. Koch 1843)
36. *Telecantha brevispina* (Doleschall 1856) Female
37. *Larinia chloris* (Audouin 1826)
38. *Larinia emertoni* (Gajbe and gajbe 2004)
39. *Lipocrea fusiformis* (Thorell 1877)
40. *Larinoides cornutus* (Clerck 1757)
41. *Larinoides* sp. (Clerck)
42. *Neoscona domiciliorum* (Hentz 1847)
43. *Neoscona punctigera* (Doleschall 1857)
44. *Neoscona subfuscata* (Walckenaer 1841)
45. *Neoscona mukerjei* (Tikader 1980) Female
46. *Neoscona bengalensis* (Tikader and Bal 1981)
47. *Neoscona nautical* (L.Koch 1875)
48. *Neoscona parambikulamensis* (Patel 2003)
49. *Neoscona bengalensis* (Tikader and Bal 1981)
50. *Neoscona crucifera* (Lucas 1839)
51. *Neoscona theisi* (Walckenaer 1842)
52. *Neoscona vigilans* (Blackwell 1865)
53. *Nephila pilipes* (Fabricius 1993)
54. *Nephila khulii* (Tikader 1982)
55. *Herennia multipunctata* (Doleschall 1859)
56. *Pasilobus kotigeharus* Female (Tikader 1963)
57. *Parawixia dehaani* (Doleschall 1859)
58. *Polytes columnaris* (C. L. Koch 1843)
59. *Polystylus illepidus* (C. L. Koch 1843)
60. *Polystylus nagpurensis* (Tikader 1982)
61. *Zygiella indica* (Tikader and Bal 1980)

2. Family: Barychelidae - Brush-footed trapdoors

62. *Tigidia rutilofronis* (Simon 1889)

3. Family: Clubionidae - Sac Spiders

63. *Clubiona iridula* (Hirotugu Ono 1989)
64. *Clubiona bengalensis* (Biswas 1984)
65. *Clubiona tikaderi* (Mujumdar and Tikader 1991)

4. Family: Corinnidae – Ant Mimicking Sac Spiders

66. *Castianeira zetes* (Simon 1897) Female
67. *Castianeira bengalensis* (Biswas 1984)
68. *Castianeira himalayensis* (Gravely 1931)
69. *Castianeira fl avipes* (Gravely 1931)
70. *Coenoptychus pulcher* (Simon 1885)
71. *Trachelas oreophilus* (Simon 1906)
72. *Gastianeira longipalpa* (Hentz 1847)
73. *Graptartia granulose* (Karsch 1880)

5. Family: Dipluridae – Curtain Web Spiders

74. *Chilobrachys assamensis* (Karsch 1892)
75. *Euagrus diplurid* Funnel Web Mygalomorph (Ausserer 1875)

76. Indithele sp.
77. Plesiothrixus sp.
78. Tigidae rutilofronis

6. Family: Dictynidae – Mesh Web Spider

79. Dictyna sp. (Simon, 1905)
80. Nigma puella

7. Family: Eresidae – Social Spiders

81. Stegodyphus sarasinorum (Karsch, 1891) Female
82. Stegodyphus tibialis (O. P. Cambridges 1869)

8. Family: Filistatidae – Crevice Weavers

83. Pritha insularis (Thorell 1891)

9. Family: Gnaphosidae – Ground Spiders/Mouse Spiders

84. Drassodes sitjbe (Tikadar and Gajbe 1975)
85. Drassodes deoprayagensis (Tikadar and Gajbe 1975)
86. Drassodes tikaderi (Gajbe 1987)
87. Drassodes villosus (Thorell 1856)
88. Drassodes viveki (Gajbe 1992)
89. Drassodes cupresus (Blackwell 1834)
90. Drassodes sp. (Westring 1851)
91. Gnaphosa poonaensis (Tikadar 1973)
92. Haplodrassus sp. (Emerton 1909)
93. Poecilochroa harmani (Tikadar 1982)
94. Scotophaesia bharatae (Gajbe 1989)
95. Scotophaeus blackwalli (Thorell 1871)
96. Sergiolus montanus (Emerton 1890)
97. Zelotes nasikensis (Tikadar and Gajbe 1976)
98. Zelotes poonaensis (Tikadar 1982)
99. Zelotes naliniae (Tikadar and Gajbe 1979)

10. Family: Hexathelidae – Tunnel Web Spider

100. Hexathele sp. (Simon 1892)

11. Family: Hersiliidae – Two Tailed Spiders/Bark Spiders

101. Hersilia Savignyi (Lucas 1836) Female
102. Hersilia tibialis (Baehr and Baehr 1993)

12. Family: Idiopidae – Trapdoor Spiders

103. Heligmomerus barkudensis Idiops (Simon 1889)
104. Idiops rubrolimbatus (Mirza & Sanap 2012)

13. Family: Lycosidae – Wolf Spiders

105. Archtosa indica (Tikadar and Malhotra 1980)
106. Arctosa mulani (Dyal 1935)
107. Evippa baneraensis (Tikadar and Malhotra 1980)
108. Evippa mandlaensis (Gajbe 2004)
109. Evippa shivajii (Tikadar and Malhotra 1980)
110. Geolycosa curli (Reimoser 1934)
111. Hippasa agelenoides (Simon 1884)
112. Hippasa greenalliae (Blackwell 1867)
113. Hippasa hansae (Gajbe and Gajbe 1999)
114. Hippasa holmerae (Thorell 1895)
115. Hippasa loundesi (Gravely 1924)
116. Hippasa madhuuae (Tikadar and Malhotra 1980)
117. Hanga stictopyga (Thorell 1895)
118. Lycosa balaranai (Patel and Reddy 1993)
119. Lycosa bhatnagari (Sadana 1969)
120. Lycosa fuscana (Pocock 1901)

121. Lycosa geotubalis (Tikadar and Malhotra 1980)
122. Lycosa praegrandis (C. L. Koch 1836)
123. Lycosa poonaensis (Tikadar and Malhotra 1980)
124. Lycosa thoracica (Patel and Reddy 1993)
125. Lycosa mackenziei (Gravely 1924)
126. Pardosa birmanica (Simon 1884)
127. Pardosa leucopalpis (Gravely 1924)
128. Pardosa partita (Simon 1885)
129. Pardosa ranjani (Gajbe 2004)
130. Pardosa subhadrae (and Rrddy 1993)
131. Pardosa milvina (Hentz 1844)
132. Trochosa gunturifera (Gravely 1924)
133. Wadicosa quadrifera (Gravely 1924)
134. Zoica puellula (Simon 1898)

14. Family: Miturgidae – Dark Sac Spiders

135. Argoctenus sp. (L. Koch, 1878)
136. Cheiracanthium danieli (Tikader 1975) Female
137. Cheiracanthium indicum (O. P. Cambridge 1874)
138. Cheiracanthium inclusum (Hentz 1847)
139. Cheiracanthium melanostomum (Thorell 1895)
140. Cheiracanthium erraticum (Walckenaer 1802)
141. Cheiracanthium oncognathum (Thorell 1871)
142. Miturga sp. (Thorell)

15. Family: Oonopidae – Dwarf Hunting Spiders

143. Opopaea indica sp. Female (Simon 1890)

16. Family : Oecobiidae - Disc Web Spiders

144. Uroctea durandi (Lucas 1846)
145. Oecobius annulipes (Lucas 1846)

17. Family: Oxyopidae – Lynx Spiders

146. Hamataliwa sp. (Keyserling 1887)
147. Hamadruas sp. (Thorell 1887)
148. Hamadruas sp. (New) (Thorell 1887)
149. Oxyopes javanus (Thorell 1887) Female
150. Oxyopes chittrae (Tikader 1965) Female
151. Oxyopes bharatae (Gajbe 1999)
152. Oxyopes biramanicus (Thorell 1887)
153. Oxyopes indicus (Walekenaer 1805)
154. Oxyopes kamalae (Gajbe 1999 Gajbe and Gajbe 1999)
155. Oxyopes ketani (Gajbe and Gajbe 1999)
156. Oxyopes pankaj (Gajbe and Gajbe 2001)
157. Oxyopes shweta (Tikadar 1970)
158. Oxyopes sameeri Female
159. Oxyopes tikaderi (Biswas and Majumdar 1995)
160. Oxyopes sweta (Tikader 1970)
161. Oxyopes quadrifasciatus (Latreille 1804)
162. Peucetia elegans (Blackwell 1864)
163. Peucetia viridians (Stoliczka 1869)

18. Family: Philodromidae – Running Crab Spiders

164. Philodromus barman (Tikadar 1980)
165. Philodromus pali (Gajbe 2000)
166. Tmarus angulatus (Walckenaer 1837)
167. Tibellus oblongus (Tikadar 1960)
168. Tibellus sp. (Tikadar 1960)
169. Tibellus elongates (Tikadar 1960)
170. Tibellus poonaensis (Tikadar 1962)
171. Tibellus vitilis (Simon 1906)
172. Thanatus ketani (Bhandari and Gajbe 2001)
173. Thanatus dhakuricus (Tikadar 1960)

174. *Thanatus indicus* (Simon 1885)**19. Family: Pholcidae – Daddy Long Leg Spiders/Cellar Spiders**

- 175. *Artema atlanta* (Walckenaer 1837)
- 176. *Grossopriza lyani* (Blackwell 1867)
- 177. *Pholcus phalangioides* (*Artema Fuesslin* 1775)
- 178. *Smeringopus pallidus* (Blackwell 1858)
- 179. *Physocyclus globus* (Taczanowski 1874)

20. Family: Pisauridae – Nursery Web Spiders

- 180. *Dendrolycosa gracilis* (Thorell 1981)
- 181. *Dolomedes tenebrosus* (Hentz 1844)
- 182. *Dolomedes plantarius* (Clerck 1757)
- 183. *Pisaura gitae* (Tikadar 1970) Female
- 184. *Pisaura putiana* (Barrión and litsinger 1995)
- 185. *Nilus marginatus* (Simon 1888)
- 186. *Thalassius albocinctus* (Doleschall 1859)
- 187. *Thaumasia velox* (Simon 1898)

21. Family : Psechridae - Jungle Cribellate Spiders

- 188. *Psechrus* sp. (Pocock 1899)

22. Family : Salticidae – Jumping Spiders

- 189. *Aelurillus quadrimaculatus* (Simon 1889)
- 190. *Asemonea tenuipes* O. P. (Cambridge 1869)
- 191. *Bianor angulosus* (Karsch 1879)
- 192. *Cosmophasis miniaceomicans* (Simon 1888)
- 193. *Epeus albus* (Proszynski 1992)
- 194. *Epeus fl avobilineatus* (Doleschall 1859)
- 195. *Epocilla aurentiaca* sp. (Simon 1885)
- 196. *Hasarius adansoni* (Audouin 1826)
- 197. *Hyllus semicupreus* (Simon 1885)
- 198. *Harmochirus insulanus* (Simon 1885)
- 199. *Ligura latidens* (Simon, 1903)
- 200. *Lyssomanes* sp. (Hentz 1845)
- 201. *Mopsus penicillatus* (Karch 1878)
- 202. *Marpissa tigrina* (Tikadar 1965)
- 203. *Marpissa muscosa* (Clerck 1757)
- 204. *Marpissa singhi* (Monga, Singh and Sadana 1989)
- 205. *Menemerus bivittatus* (Dufour 1831)
- 206. *Myrmarachne incerta* (Narayan 1915)
- 207. *Myrmarachne jajpurensis* (Proszynski 1992)
- 208. *Myrmarachne Maratha* (Tikadar 1973)
- 209. *Myrmarachne orientalis* (Tikadar 1973)
- 210. *Myrmarachne plataleoides* (O. P. Cambridge 1869)
- 211. *Myrmarachne providens* (Peckham and Peckham 1892)
- 212. *Myrmarachne satarensis* (Narayan 1915)
- 213. *Myrmarachne uniseriata* (Narayan 1915)
- 214. *Phintella vittata* (C. L. Koch 1846)
- 215. *Phintella versicolor* (C. L. Koch 1846)
- 216. *Plexippus paykulli* (Savingyn and Audouin 1825)
- 217. *Plexippus petersi* Female (Karsch 1878)
- 218. *Paraphidippus aurantius* (Lucas 1833)
- 219. *Portia fl mibiata* (Doleschall 1859)
- 220. *Portia labiata* (Thorell 1887)
- 221. *Portia* sp. (New)
- 222. *Rhene danieli* (Tikadar 1973)
- 223. *Rhene decorate* (Tikadar 1977)
- 224. *Rhene fl avicomans* (Simon 1902)
- 225. *Rhene haldanei* (Gajbe 2004)
- 226. *Rhene indica* (Tikadar 1973)
- 227. *Rhene danieli* Female Tikadar 1973

228. *Rhene fl avigera* (Tikader 1873)

- 229. *Telamonia dimidiata* (simon 1899) Female
- 230. *Telamonia peckhami* (Thorell 1891)
- 231. *Telamonia festiva* (Thorell 1887)
- 232. *Thania bhamoensis* Female (Thorell 1887)
- 233. *Thyene imperialis* (Rossi 1846)
- 234. *Zygoballus pashanensis* (Tikadar 1975)

23. Family : Scytodidae – Spitting Spiders

- 235. *Scytodes alfredi* (Gajbe 2004)
- 236. *Scytodes fusca* (Walckenaer 1837)
- 237. *Scytodes pallidae* (Doleschall 1859)
- 238. *Scytodes thoracica* (Latrelle 1802)

24. Family : Sicariidae – Violin Spiders

- 239. *Loxosceles rufescens* (Dufour 1820)
- 240. *Sicarius* sp. (Walckenaer 1847)

25. Family : Sparassidae – Giant Crab Spiders

- 241. *Heteropoda kandiana* (Pocock 1899) Female
- 242. *Heteropoda venatoria* (Linnaeus 1767)
- 243. *Heteropoda maxima* (Latrelle 1804)
- 244. *Olios millet* (Pocock 1901)
- 245. *Olios iranii* (Pocock 1901)
- 246. *Olios lamarcki* (Latrelle 1806)
- 247. *Olios giganteus* (Keyserling 1884)
- 248. *Olios correvoi* (Lessert 1921)
- 249. *Olios argelasius* (Walckenaer 1805)

26. Family : Tetragnathidae - Long-jawed orb weavers

- 250. *Leucauge decorate* (Blackwall 1864) Female
- 251. *Tetragnatha mandibulata* (Walckenaer 1841) (Male and Female)
- 252. *Tetragnatha javanus* (Thorell 1890)
- 253. *Tetragnatha viridorufa* (Gravely 1921)
- 254. *Tetragnatha Montana* (Simon 1874)
- 255. *Opadometa fastigata* (Simon 1877) Female

27. Family : Theridiidae – Comb Footed Spiders/Cob Web Spiders

- 256. *Achaearanea mundulum* (L. Koch 1872)
- 257. *Achaearanea triangularis* (Patel 2005)
- 258. *Achaearanea durgae* (Tikader 1970)
- 259. *Achaearanea tepidariorum* (C. L. Koch 1841)
- 260. *Argyrodes elevates* (Taczanowski 1873)
- 261. *Argyrodes fl agellum* (Doleschall 1857)
- 262. *Argyrodes jamkhedes* (Tikadar, 1963)
- 263. *Argyrodes rainbow* (Rainbow W. J. 1920)
- 264. *Argyrodes* sp. (Simon 1864)
- 265. *Ariamnes* sp. (New) (Thorell 1869)
- 266. *Ariamnes pavesii* (Leardi 1902)
- 267. *Chrysso picturata* (Simon 1895)
- 268. *Chrysso argyrodiformis* Female (Yaginuma 1952)
- 269. *Chrysso pulcherrima* (Mella Loitao 1917)
- 270. *Euryopis* sp (Keyserling 1890)
- 271. *Euryopis flvomaculata* (C. L. Koch 1836)
- 272. *Euryopis episinoides* (Walckenaer 1847)
- 273. *Euryopis flavomaculata* (C. L. Koch 1836)
- 274. *Latrodectus hasselti* (Thorell 1870)
- 275. *Phycosoma* sp. (Cambridge 1879)
- 276. *Phorodectus testudo* (O. P. Cambridge 1873)
- 277. *Propostira quadraangulata* (Simon 1894)
- 278. *Rhomphaea projiciens* (O. P. Cambridge 1896)

279. Rhomphaea nasica (Simon 1873)
 280. Steatoda rufoannulata (Somon 1899)
 281. Steatoda bipunctata (False black widow spider) (Linnaeus 1758)
 282. Theridion incertum (O. P. Cambridge 1885)
 283. Theridion spinosissimum (Caporiacco 1934)
 284. Theridion tikaderi (Patel 1973)
 285. Theredion angula (Tikader 1970)
 286. Theridion pyramidale (L. Koch 1867)
 287. Theridion mundula Female (L. Koch 1872)
 288. Thwaitesia sp. (Simon 1892)

28. Family : Theridiosomatidae – Ray spider

289. Theridisoma sp.

29. Family : Thomisidae – Crab Spiders/Flower Spiders

290. Amyciaea forticeps (O. P. Cambridge 1887)
 291. Camaricus bipunctatus (Bastawade 2002)
 292. Camaricus formosus (Thorell 1887)
 293. Camaricus maugei (Thorell 1887)
 294. Diaea bengalensis (Biswas and Majumdar 1981)
 295. Diaea puncta (Thorell 1869)
 296. Diaea dorata (Fabricius 1777)
 297. Ebrechtella tricuspidata (Fabricius 1775)
 298. Misumena vatia (Clerck 1757)
 299. Misumena greenae (Tikadar 1965)
 300. Misumena indra (Tikadar 1963)
 301. Misumenops khandalaensis (Tikadar 1965)
 302. Otylate elongate (Tikadar 1980)
 303. Otylate virens (L. Koch 1878)
 304. Ozyptila chandosiensis (Tikadar 1980)
 305. Ozyptilia Maratha (Tikadar 1971)
 306. Runcinia khandari (Gajbe 2004)
 307. Runcinia pooneus (Tikadar 1965)
 308. Runcinia affi nis (Simon 1897)
 309. Strigoplus molur (Patel 2003)
 310. Thomisus granulifrons (Simon 1906)
 311. Thomisus pathaki (Gajbe 2004)
 312. Thomisus pooneus (Tikadar 1965)
 313. Thomisus viveki (Gajbe 2004)
 314. Thomisus anustus (Walckenaer 1805)
 315. Tmarus rimosus (Paik 1973)
 316. Tmarus jabalpurensis (Gajbe and Gajbe 1999)
 317. Tmarus kotigeharus (Tikadar 1963)
 318. Xysticus bharatae (Gajbe and Gajbe 1999)
 319. Xysticus breviceps (O. P. Cambridge 1885)
 320. Xysticus robustus (Hahn 1832)
 321. Xysticus khasiensis (Tikadar 1980)
 322. Xysticus tikaderi (Bhandari and Gajbe 2001)
 323. Indixysticus mimutus (Tikader 1960)

30. Family : Theraphosidae – Mygalomorphs - Tarantula

324. Haploclastus sp. (Simon 1892)
 325. Thrigmopoeus insignis (Pocock 1899)
 326. Chilobrachys fimbriatus (Pocock 1899)
 327. Chilobrachys hardwickii (Pocock 1985)
 328. Poecilotheria regalis (Pocock 1899)

31. Family : Uloboridae - Cribellate Orb Weavers

329. Miagrammopes indicus (Tikadar 1971)
 330. Miagrammopes poonaensis (Tikadar 1971)
 331. Miagrammopes sp. (Tikadar 1971)
 332. Miagrammopes sp. (Tikadar 1971)

333. Miagrammopes sp. (New)
 334. Miagrammopes sp. (Akerman, C. 1932)
 335. Uloborus khasiensis (Tikadar 1969)
 336. Uloborus krishnae (Tikadar 1970)
 337. Uloborus plumipes (Thorell 1869)
 338. Uloborus variabilis (Keyserling 1986)
 339. Zosis geniculata (Oliver 1789)

32. Family : Zodariidae – Ant Hunting Spiders

340. Zodarion styliferum (Simon 1870)
 341. Zodarian italicum (Canestrini 1868)
 342. Storosa obscura (Jacque 1991)
 343. Asceua cingulata (Simon 1905)
 344. Lutica bengalensis (Tikadar and Patel 1975)
 345. Lutica deccanensis (Tikadar and Malhotra 1976)

4. Discussion

Considering the duration of the current study and the large number of specimens in the study provides a good representation of spider families occurring in the Sangli district. The abundance of grasses like; *Andropogon pumilus*, *Aristida adscensionis*, *Brachiaria eruciformis*, *Chrysopogon fulvus*, *Cyperus rotundus*, *Dactyloctenium aegyptium*, *Digitaria ciliaris*, *Dinebra retroflexa*, *Lephopogon tridentatus* etc. are favourable for spiders from family Oxyopidae and philodromidae. During study of year 2012 to 2017 we reported that 32 spider families with 155 genera and 345 species from Sangli district including Chandoli National Park (Sahyadri Tiger Reserve) which provides wonderful vistas of the surrounding landscape. The most distinct feature of this national park is the presence of numerous barons rocky and laetile plateau called as Zolambi Sada. This plateau is good source of lycosidae and thomisidae spiders. Additionally the study provided new information on the distribution of all species concerned and provides material that can be used in future taxonomic work.

Acknowledgement

Author thanks Prof. (Dr.) V. A. Sawant, former head Dept. Of Zoology Shivaji University, Kolhapur for his encouragements.

References

- [1] Barrion, A.T and Litsinger, J. A. (1995): Riceland spiders of south and Southeast Asia, CAB International, Cambridge, UK: 1-700.
- [2] Bastawade, D. B. (2004): Arachnid fauna of orders araneae, Scorpionida and Solifugi from inelghat Tiger Reserve, Distt. Amravati, Maharashtra.
- [3] Biswas, B. and Biswas, K. (2004): Araneae: Spiders. In: Fauna of Manipur, State Fauna Series 10, Zoological Survey of India: 25-46.
- [4] Blackwell, J. (1867): Description of seven new species of East Indian spiders received from the Rev. O P. Cambridge. Annals and Magazine of Natural History. (3)14: 36-45.
- [5] Champion , H. G. and S. K. Seth.(1968): Revised survey of the Forest types of India, Govt. of India. Publ. New Delhi.

- [6] Gajbe, P. (2003): Checklists of Spiders (Arachnid; Araneae) of Madhya Pradesh and Chhattisgarh. Zoos. Print Journal 18 (10): 1223-1226.
- [7] Gajbe, U. A. (1995a): Spiders Fauna of Conservation Areas: Fauna of Kanha Tiger Reserve, Madhya Pradesh. Z000logical Survey of India, Publication: 27-30.
- [8] Gajbe, U. A. (1995b): Spiders, Fauna of Conservation Areas: Fauna of Indravati Tiger Reserve, Madhya Pradesh. Zoological Survey of India, Publication: 53-56.
- [9] Gajbe, U. A. (1999): Studies on some spiders of the family Oxyopidae (Araneae: Arachnida) from India: Records of Zoological Survey of India 97(3): 31-79.
- [10] Gajbe, U. A.(1987): A new scopodes spiders from India Araneae: Gnaphosidae). Bulletin of Zoological Survey of India. 8: 285-287.
- [11] Karsch, E. (1873): Verzeichniss Westfälischer Spinnen (Araneiden) Verh.naturh. Ver. Preuss.Rhein.Westfal.10: 113-160.
- [12] Kaston, B. J. (1978): How to know spiders? The pictured key Nature series. Wm. C. Brown. Co. Publishers. Dubuque, Iowa, USA: 1-272.
- [13] Keshwani, S.; Hadole, P. and Rajoria, A.(2012): Checklist of spiders (Arachnida: Araneae) From India 2012. Ind. j. Arachnol. Voil(1); 1-129.
- [14] Levy G. & P.Amitai. 1982. The Comb-footed spider genera *Theridion*, *Achaearanea* and *Anelosimus* of Israel .Journal of Zoology (London). 196, 81 – 131.
- [15] Levy, G. & P.A mitai. (1983). Revision of the widow-spider genus *Latrodectus* (Araneae:Theridiidae) in Israel. Zoological Journal of the Linnean Society, 77: 39-63.
- [16] Levi HW, Randolph DE. (1975). A key and checklist of American spiders of the family Theridiidae north of Mexico Araneae). Journal of Arachnology, 3: 31-51
- [17] Majumder ,S.C. (2007): Pictorial handbook on spiders of Sunderbans :West Bengal.Zoological Survey of India :138pp.
- [18] Manju Silwal; B.Suresh and Bonny Pilo. (2003): Spiders of Puma wildlife Sanctuary, Dangs, Gujarat. Zoos. Print Journal 18 (11): 1259 -1263.
- [19] Mobeen Ghazanfar, Mubashar Hussain, Muhammad Hashim, Ata Ul Mustafa fahid, Check list of spider (Araneae) fauna of Pakistan:A review, Journal of Entomology and Zoology Studies 2016; 4(1): 245-246
- [20] Namkung J, Im' MS, Kim ST, Lee JH. 2002. Spider fauna of Jeju Island in Korea. Journal Asia-Pacific Entomology, 5(1): 55-74
- [21] Nyffeler M, G Benz. Spiders in Natural Pest Control: A Review. Journal of Applied Entomology. 1987; 103:321-329
- [22] Perveen F, Jamal A, Yasmin N. 2012 . Key for identification of spiders fauna of FR Peshawar, FATA, Pakistan. Pakistan Journal of Entomology Karachi, 27(1): 39-48
- [23] Patel, B. H. (2002): Fauna of Protected Areas —I, Spiders of Vansda National Park, Gujarat. Zoos. Print Journal 18 (4): 1079 -1083.
- [24] Patel, B. H. (2003): Fauna of Protected Areas - A Preliminary list of Spiders with the descriptions of three new species from Parambikulum Wildlife sanctuary, Kerala. Zoos. Print Journal 18 (10): 1207 -1212.
- [25] Patel, B. H. and Vyas, R. V. (2001): Spiders of Hingolgadh Nature Sanctuary, Gujarat, India. Zoos Print Journal. 16(9): 589-590.
- [26] Platnick, N. I. (2013): The world spider catalog, version 13.5. American Museum of Natural History,onlineat <http://research.amnh.org/iz/spiders/catalog>.
- [27] Pocock, R. I. (1900): The Fauna of British India, Arachnida. Taylor and Francis, London: 279pp.
- [28] Rane, P. D and Singh, R. K.(1977): Spiders (Arachnida: Araneae) from Kanha National Park, Madhya Pradesh, India. Newsletter Zoological Survey of India., 3(2): 84.
- [29] Stoliczka, F. (1869): Contribution towards the Knowledge of Indian Arachnoidae. Journal of Asiatic Society of Bengal. 38: 201-251.
- [30] Thorell, T. (1895): Descriptive Catalogue of the spiders of Burma. Brit. Mus. Lond. UK: 1-406 ,
- [31] Tikader, B. K and Malhotra, M.S. (1980): The fauna of India. Spiders (Thomisidae and Lycosidae). Zoological Survey of India, Calcutta: 44pp.
- [32] Tikader, B. K. (1980): Fauna of India - Araneae: Spiders, Vol. I (Araneidae & Gnaphosidae). Zoological Survey of India. 448 pp.
- [33] Tikader, B. K. (1982): Fauna of India - Araneae: Spiders, Vol. II (Thomisidae and Lycosidae). Zoological Survey of India. 533 pp.
- [34] Tikader, B. K. (1987): Hand book of Indian Spiders. Zoological Survey of India: 251 pp.
- [35] Turnbull A.L. Ecology of the True Spiders,(Araneomorphae). Annual Review of Entomology 1973; 18:305-348.