Faunal Biodiversity of Lycosidae (Araneomorphae: Araneae: Arachnida) in India: An Updated Checklist

Singh Rajendra

Department of Zoology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur 273009, India

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Abstract: Faunal biodiversity of the wolf spiders (Lycosidae: Araneomorphae: Araneae: Arachnida) in different states of India and union territories is presented herewith. A total of 155 species placed under 25 genera of Lycosidae were recorded in all states and union territories of India except Nagaland, Daman and Diu and Dadra and Nagar Haveli, and Lakshdweep, out of which 91 species (58.7%) were strictly endemic. However, among them 8 species seem to be erroneous report or misidentification. Maximum number of species were recorded in Maharashtra followed by 65 species in West Bengal, 57 species in Gujarat, 50 species in Uttarakhand, 39 species in Madhya Pradesh, 38 species in Kerala, 36 species in Karnataka, 33 species in Jammu and Kashmir and less than 30 species are recorded in other states. Six species of Lycosidae are widely distributed, viz. Wadicosa fidelis (O. Pickard-Cambridge, 1872) (25 states, 3 union territories), Pardosa sumatrana (Thorell, 1890) (23 states, 1 union territory), Pardosa pseudoannulata (Bösenberg and Strand, 1906) (19 states, 1 union territory), Hippasa agelenoides (Simon, 1884) (17 states, 1 union territory), Hippasa greenalliae (Blackwall, 1867) (16 states, 1 union territory), and Lycosa tista Tikader, 1970 (16 states). About one-third of the species of Lycosidae reported in India are recorded only in one state or from the type locality. Hence, extensive faunistic surveys for these spiders are required.

Keywords: Lycosidae, Checklist, Faunal distribution, Wolf spiders, India

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Introduction

The spiders are the common name of the arachnids that belong to the order Araneae (Arthropoda: Chelicerata: Arachnida) and are among the most common and abundant entomophagous creatures in the terrestrial ecosystems throughout the world. They are known to possess a very diverse range of lifestyles and foraging behaviours...
The spider community not only consumes approximately 400-800 million tons of prey (mostly insects) globally per year but also serve as a food source for an extremely diverse predators-parasitoids-parasites complex, birds, amphibians, lizards, snakes, shrews, mice, bats, fish etc. (Nyffeler and Birkhofer, 2017). At present, spiders consist of 49,243 species placed in 4,209 genera belonging to 128 families (WSC, 2021). Also, there are several species in the wild and museums that still await description and classification. It is estimated that about 70-80% of the species have yet to be described. Despite recent researches on the faunistic biodiversity surveys of spiders in India, their number is not enough as compared to other parts of the world. For example, Canada has a cold climate and has relatively limited biodiversity, yet 1,477 species of spiders belonging to 45 families are recorded (Bennett et al., 2019) while India has a very rich biodiversity, a tropical climate with biodiversity hotspots, and the manpower to conduct biodiversity surveys, but the best account so far lists only 1,859 species belonging to 477 genera (Caleb and Sankaran, 2021). Recently, the species distribution and checklist of 55 families of spiders have been updated in India (Sharma et al., 2020 a, b, 2021; Singh BB et al., 2020, 2021; Singh, 2021 a, b; Singh and Singh, 2020, 2021; Singh et al., 2020 a, b, c, d, e, f, 2021 a, b; Tiwari and Singh, 2021; Tiwari et al., 2021 a, b).

Lycosidae is one of the families of araneomorph and ecribellate spiders that commonly called wolf spiders. These spiders are 3-45 mm long, robust, agile, cryptically coloured in shades of brown, gray to almost black, depending on their surroundings. All legs are spinose and provided with 3 tarsal claws, usually with scopulae for adhesion. The abdomen is oval and always covered with dense hairs. The wolf spiders resemble nursery web spiders (family Pisauridae) but differ particularly in eye pattern and the fate of egg sacs. The eight eyes of wolf spiders are all dark in colour and arranged in three rows in a typical style. The anterior row has four small eyes set in a straight or slightly curved row, the second row has two large eyes further up on the vertical front, and the posterior row has two medium-sized eyes on the sides of the head which may be roughly steep-sided; while in nursery web spiders all eyes are of roughly equal size. The female wolf spiders carry their egg sacs attached to their spinnerets, while the nursery web spiders carry their egg sacs with their chelicerae and pedipalps (Tiwari and Singh, 2021). The majority of wolf spiders are diurnal and do not spin webs for capturing prey, but they run about in grass, leaf litter, over sandy or stony areas, across the surface of the water and many other places and hunt the prey actively (Foelix, 2011). Few wolf spiders are often found in man-made constructions. However, some genera, e.g. Aulonia C.L. Koch, 1847, Hippasa Simon, 1885 and Sosippus Simon, 1888 construct sheet webs provided with a funnel retreat; Alopecosa Simon, 1885, Arctosa C.L. Koch, 1847 and Trochosa C.L. Koch, 1847, make burrows in the ground lined with silk that serves as retreats and a place for the females to guard their egg sacks; Pirata Sundevall, 1833 build silk tubes in vegetation where they rest for a while; and Adelocosa Gertsch, 1973, live in a cave and are blind unlike most of the wolf spiders, and female carries the egg sac in her mouthparts until the spiderlings hatch. Female wolf spiders are
usually monogynous and devour the next males that attempt to mate her (Wilder and Rypstra, 2008). Among the spiders, wolf spiders are unique in the maternal care of spiderlings. After emergence from the egg sac, these spiderlings mount on the legs of the mother and take position onto the dorsum of her abdomen. The mother carries these spiderlings for several days or even weeks until they are ready to disperse. Morphological, phylogenetic and behavioural relationships between the species of Lycosidae are well illustrated by Rovner (1980), Zehethofer and Sturmbauer (1998), Murphy et al. (2006), Marshall and Martin (2011) and Planas et al. (2013).

Spiders are mostly entomophagous and are among the most abundant biocontrol/natural agents in many agroecosystems, still their role in biological control programme is still disputed because they not only consume pest populations but also other biocontrol agents (predators/parasitoids) and thus may hamper the biocontrol programme of the pests caused by those bioagents (Singh, 2021 a, b). However, in irrigated rice at the early crop stages, the natural control of insect population is mainly attributed to spiders and the most abundant spiders assessed across the cropping season are wolf spiders next to long-jawed spiders (Tetragnathidae) (Barrion and Litsinger, 1984; Singh and Singh, 2014; Huang et al., 2018). Despite their role as insect predators and being crucial to the health of terrestrial ecosystems, only 12 species, Adelocosa anops Gertsch, 1973 (endangered, cavernicolous in Hawaii) (World Conservation Monitoring Centre, 1996 a), Dolocosa dolosa (O. Pickard-Cambridge, 1873) (endangered, in St. Helena) (White et al., 2019 a), Hogna cinica (Tongiorgi, 1977) (critically endangered, in St. Helena) (White et al., 2019 b), Hogna inesorabilis (O. Pickard-Cambridge, 1870) (decreasing, in St. Helena) (White et al., 2019 c), Hogna ingens (Blackwall, 1857) (decreasing, in Madeira) (Cardoso, 2014), Hogna ligata (O. Pickard-Cambridge, 1870) (decreasing, in St. Helena) (White et al., 2019 d), Hogna nefasta Tongiorgi, 1977 (decreasing, in St. Helena) (White et al., 2019 e), Lycosa elysae Tongiorgi, 1977 (critically endangered, in St. Helena) (White et al., 2019 f), Lycosa ringens Tongiorgi, 1977 (endangered, in St. Helena) (White et al., 2019 g), Pardosa diuturna Fox, 1937 (vulnerable, in Canada, Alaska) (World Conservation Monitoring Centre, 1996 b), Sosippus placidus Brady, 1972 (vulnerable, in USA) (World Conservation Monitoring Centre, 1996 c), and Vesubia jugorum (Simon, 1881) (decreasing, in Italy) (Isaia and Mammola, 2018) were listed in IUCN Red List of Threatened Species as either critically endangered, endangered, vulnerable, or decreasing. However, none of the species recorded in India is on this list. Indeed, no attempt was made in this direction even though several species are known only from their type localities.

Information regarding the Indian Lycosidae is insufficient and highly incoherent primarily due to the unexplored diversity of these spiders in several parts of the country like other families of spiders (Sharma et al., 2020 a, b, 2021; Singh BB et al., 2020, 2021; Singh, 2021a, b; Singh and Singh, 2020, 2021; Singh et al., 2020 a, b, c, d, e, f, 2021; Tiwari and Singh, 2021; Tiwari et al., 2021 a, b). There are several species of these spiders yet to be described and several species recorded from India have also been misidentified as they are said to be identified by using existing
old literatures without a re-examination of the corresponding types and without consulting any spider taxonomist (Singh, 2021 a, b). Hence, these reports need re-examination. At present the faunal survey results of wolf spiders are all scattered in the literature and so far no consolidated account is available regarding their distribution pattern across the country. Therefore, this present report was undertaken to provide an up-to-date checklist of Indian Lycosidae in different states and union territories of India.

Materials and Methods

This checklist is based on the literature published in recent past books, journals and few authentic theses, websites, and World Species Catalog up to March 20, 2021. Some references of the faunistic surveys were omitted because of repetition. In most of the literature, published earlier, several errors crept in the scientific names of the spiders even in the recent ones. It happened because such contents become outdated quickly and, due to their perceived comprehensiveness, readers sometimes overlook newer sources of data. Additionally, the researches on spider taxonomy are continued with the description of new taxa, their modified status, and the publication of other nomenclatural decisions (Singh, 2021 a, b; Singh and Singh, 2020, 2021; WSC, 2021). If a spider species is identified only up to a generic level, it was considered as species if no other species of that genus is reported within the state. In the present checklist, attempts have been made to correct the errors in the scientific names of the spiders following World Spider Catalog. Only those synonymsies were mentioned that were reported in India. All the endemic species are marked with *. Seemingly, misidentified and erroneous records are marked with ❄️. Only those species were considered endemic that were exclusively found only in India. If the spider species is not endemic, its elsewhere distribution is also provided following the World Spider Catalog (WSC, 2021) and other existing literature.

Results and Discussion

In India, Walckenaer (1837) was probably the first who had described a wolf spider, Lycosa indagatrix from Tamil Nadu. Thereafter, Blackwall (1867) described a species, Hippasa greenalliae from western Uttar Pradesh. Later, in 1885, O. Pickard-Cambridge (1885 a) described three species, Hogna irascibilis, Hogna rubromandibulata and Trochosa propinqua from Leh (Ladakh) and Sind valley (Jammu and Kashmir); and Simon (1885 a) described four species, Crocodilosa leucostigma, Evippa rubiginosa, Lycosa chaperi and Pardosa partita from Karnataka.

In 1891, two more species of wolf spiders were described from Andaman and Nicobar Islands by Thorell (1891), namely Pardosa thalassia (Thorell, 1891) and Draposa nicobarica (Thorell, 1891). In 19th century, three more species were described, namely, Crocodilosa maindroni by Simon (1897) from Maharashtra, Lycosa phipsoni and Lycosa wroughtoni by Pocock (1899) from Maharashtra and Gujarat, respectively. With the beginning of 20th century, Pocock (1901) described seven species, Lycosa fuscana, Lycosa goliathus, Lycosa iranii, Lycosa madani, Lycosa masteri, Lycosa pictula and Lycosa prolific from Maharashtra. After two decades, Gravely (1924) described 16 species and recorded 5 more species of wolf spiders from different states of India. Again, after a decade, Reimoser (1934) described two species
[Arctosa lesserti Reimoser 1934, Geolycosa carli (Reimoser 1934)] and recorded two more species [Pardosa vagula (Thorell, 1890), Pardosa pusiola (Thorell, 1891)] from Tamil Nadu and Caporiacco (1935) described 7 species (Acantholycosa baltoroi, Pardosa flavisterna, Pardosa hydaspis, Pardosa tridentis, Schizocosa concolor, Evippomma evippiforme, Hippasa flavicoma) and recorded 4 species [Trochosa terricola (Thorell, 1856), Pardosa condolens (O. Pickard-Cambridge, 1885), Pardosa stellata (O. Pickard-Cambridge, 1885), Pardosa vindicata (O. Pickard-Cambridge, 1885)] from Jammu and Kashmir. Among the Indian authors, Sinha (1951) was the first to describe a species of Lycosidae, Arctosa khudiensis (Sinha, 1951) from Bihar. Later on, Sadana (1969), Tikader (1970, 1977 a, b), Tikader and Mukerji (1971), Tikader and Malhotra (1976, 1980), Biswas and Biswas (1992), Patel and Reddy (1993), Saha et al. (1994), Arora and Monga (1994) and Gajbe and Gajbe (1999) described several species of wolf spiders from different states and union territories of India. In the present century, 22 species were described from India, one species from Assam (Ahmed et al., 2014), 2 species from Kerala (Malamel et al., 2015, Kronestedt, 2017), 4 species from West Bengal (Majumder, 2004; Dhali et al., 2012), 6 species from Chhattisgarh (Gajbe, 2004) and 9 species from Madhya Pradesh (Bhandari and Gajbe, 2001; Gajbe UA, 2004; Gajbe PU, 2004).

At present, 155 species belonging to 25 genera were described or recorded from India, out of which, 91 species (58.7%) were strictly endemic, i.e. recorded only in India. However, the Indian record is only 6.4% of the world Lycosidae fauna (2,428 species placed in 124 genera (WSC, 2021). All these spiders were distributed in all the Indian states except Nagaland and two union territories, Dadra and Nagar Haveli and Daman and Diu, and Lakshadweep (Fig. 1). Eight species marked with † seem to be erroneous report or misidentification. Caleb and Sankaran (2021) enlisted only 130 species of Lycosidae described under 19 genera and the rest of the species recorded in India are either overlooked by them or are cases of misidentification. The distribution of one species, Hogna irascibilis (O. Pickard-Cambridge, 1885) was mentioned in Turkmenistan in World Spider Catalogue (2021), but Pickard-Cambridge (1885) mentioned its type locality in Leh (Ladakh).

Maximum of 76 species of these spiders were recorded from Maharashtra followed by 65 species from West Bengal, 57 species from Gujarat, 50 species from Uttarakhand, 39 species from Madhya Pradesh, 38 species from Kerala, 36 species from Karnataka, 33 species from Jammu and Kashmir and less than 30 species are recorded from other states (Fig. 1). No species of wolf spiders is recorded from Nagaland and Dadra and Nagar Haveli and Daman and Diu. Indeed, no survey was conducted in these regions and need extensive researches in these regions.

Out of 155 species of Lycosidae recorded from India, 6 species are widely distributed (in more than 15 states and union territories), viz. Wadicosa fidelis (O. Pickard-Cambridge, 1872) (25 states, 3 union territories), Pardosa sumatrana (Thorell, 1890) (23 states, 1 union territory), Pardosa pseudoannulata (Bösenberg and Strand, 1906) (19 states, 1 union territory), Hippasa agelenoides (Simon, 1884) (17 states, 1 union territory), Hippasa greenalliae (Blackwall, 1867) (16 states, 1 union territory), and Lycosa tista Tikader,
1970 (16 states). About one-third of the species of Lycosidae reported from India are recorded only from one state or from the type locality. Hence, extensive faunistic surveys for these spiders are required.

Following is the detailed list of spiders distributed in Indian states and union territories and elsewhere:

1. Checklist of wolf spiders (Lycosidae) in Indian States and Union Territories

1. *Acantholycosa baltoroi* (Caporiacco, 1935)
   Syn. *Pardosa baltoroi* Caporiacco, 1935
   - Jammu and Kashmir (Caporiacco, 1935; Dhali *et al.*, 2016)
   Elsewhere: China, Nepal

2. *Acantholycosa lignaria* (Clerck, 1757)
   - Maharashtra (Deshmukh and Tekade, 2019)
   Elsewhere: China, Europe, Russia

3. *Acantholycosa sp.*
   - Gujarat (Parmar and Patel, 2015)

4. *Agalenocosa subinermis* (Simon, 1897)*
   - Maharashtra (Dhali *et al.*, 2016)

5. *Alopecosa sp.*
• Jammu and Kashmir (Punjoo and Bhat, 2015)

6. **Anoteropsis hilaris (L. Koch, 1877)**†
   Syn. **Lycosa hilaris** L. Koch, 1877
   • Rajasthan (Kumari *et al.*, 2017)

Elsewhere: Newzealand

7. **Arctosa himalayensis** **Tikader and Malhotra, 1980**
   Syn. **Arctosa tappaensis** Gajbe, 2004 (Sankaran *et al.*, 2021)
   • Chhattisgarh (Gajbe and Sharma, 1994; Kujur and Ekka, 2016)
   • Jammu and Kashmir (Khan, 2006, 2011; Punjoo and Bhat, 2015)
   • Madhya Pradesh (Gajbe and Singh, 1994; Gajbe P, 2004; Gajbe PU, 2004; Dhali *et al.*, 2016)
   • Maharashtra (Rithe, 2012)
   • Uttar Pradesh (Biswa and Biswas, 1992; Khan and Misra, 2003; Dhali *et al.*, 2016)
   • Uttarakhand (Tikader and Malhotra, 1980)

8. **Arctosa indica** **Tikader and Malhotra, 1980**
   Syn. **Arctosa indicus** Tikader and Malhotra, 1980
   • Chhattisgarh (Kujur and Ekka, 2016)
   • Gujarat (Parmar and Patel, 2015)
   • Jammu and Kashmir (Khan, 2006)
   • Madhya Pradesh (Gajbe P, 2003; Gajbe PU, 2004)
   • Maharashtra (Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Rithe, 2012; Dhali *et al.*, 2016)
   • Rajasthan (Malhotra *et al.*, 2019)
   • Uttar Pradesh (Hore and Uniyal, 2008 a, b, c)
   • Uttarakhand (Biswa and Biswas, 2010)

9. **Arctosa khudiensis** **(Sinha, 1951)**
   Syn. **Lycosa khudiensis** Sinha, 1951
   • Bihar (Sinha, 1951; Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Dhali *et al.*, 2016)
   • Gujarat (Yadav *et al.*, 2017)
   • Kerala (Mathew *et al.*, 2014)
   • Meghalaya (Biswa and Majumder, 1995; Majumder, 2004 a, 2005)
   • Uttarakhand (Uniyal and Hore, 2006)
   • West Bengal (Biswa and Majumder, 1995; Majumder, 2004 a, 2005)

Elsewhere: China

10. **Arctosa lesserti** **Reimoser 1934**
   Syn. **Arctosa mulani** (Dyal, 1935), m.i. by Tikader and Malhotra 1980 (Sankaran *et al.*, 2021)
   • Maharashtra (Tikader and Malhotra, 1980)
   • Tamil Nadu (Reimoser, 1934; Dhali *et al.*, 2016; Karthikeyani *et al.*, 2017; Caleb and Karthikeyani, 2020)

11. **Arctosa littoralis** **(Hentz, 1844)**†
   • Maharashtra (Wankhade and Manwar, 2016)
Elsewhere: North and Central America

12. *Arctosa mulani* (Dyal, 1935)
- Gujarat (Yadav *et al.*, 2017)
- Maharashtra (Biswas and Majumder, 1995; More and Sawant, 2013; Dhali *et al.*, 2016; Lu *et al.*, 2016)
- Meghalaya (Biswas and Majumder, 1995; Majumder, 2004 a, 2005)
- Uttarakhand (Biswas and Biswas, 2010)
- West Bengal (Majumder, 2004 a, 2005)

Elsewhere: Pakistan

13. *Arctosa sandeshkhaliensis* Majumder, 2004*
- Jammu and Kashmir (Khan, 2011; Punjoo and Bhat, 2015)
- Madhya Pradesh (Gajbe PU, 2004; Dhali *et al.*, 2016)
- Maharashtra (Rithe, 2012)
- West Bengal (Majumder, 2004 b, 2005; Dhali *et al.*, 2016)

14. *Arctosa sp.*
- Gujarat (Parmar *et al.*, 2015)
- Himachal Pradesh (Uniyal, 2006)
- Jammu and Kashmir (Khan, 2009; Khan and Rather, 2012)
- Karnataka (Nautiyal *et al.*, 2017)
- Odisha (Siliwal and Molur, 2008)
- Tamil Nadu (Sugumaran *et al.*, 2007)
- Uttar Pradesh (Hore and Uniyal, 2008 a, b, c)
- Uttarakhand (Gupta and Siliwal, 2012)

15. *Crocodilosa leucostigma* (Simon, 1885)*
Syn. *Lycosa leucostigma* Simon, 1885; *Hippasa leucostigma* (Simon, 1885)
- Bihar (Gravely, 1924)
- Karnataka (Simon, 1885 a)
- Kerala (Sunil Jose *et al.*, 2008; Dhali *et al.*, 2016)
- Maharashtra (Gravely, 1924)
- Odisha (Gravely, 1924)
- Tamil Nadu (Gravely, 1924; Dhali *et al.*, 2016)
- West Bengal (Gravely, 1924)

16. *Crocodilosa maindroni* (Simon, 1897)*
Syn. *Lycosa maindroni* Simon, 1897
- Maharashtra (Simon, 1897; Dhali *et al.*, 2016)

17. *Draposa amkhasensis* (Tikader and Malhotra, 1976)*
Syn. *Pardosa amkhasensis* Tikader and Malhotra, 1976
- Chhattisgarh (Kujur and Ekka, 2016)
- Kerala (Sebastian *et al.*, 2011)
- Mizoram (Chowdhury *et al.*, 2017)
- Tamil Nadu (Karthikeyani, 2013)

18. *Draposa nicobarica* (Thorell, 1891)
Syn. *Lycosa nicobarica* Thorell, 1891; *Pardosa nicobarica* (Thorell, 1891)
- Andaman and Nicobar Islands (Roewer, 1955; Kronestedt, 2010; Dhali *et al.*, 2016)

19. *Draposa atropalpis* (Gravely, 1924)
Syn. *Pardosa atropalpis* Gravely, 1924
• Andhra Pradesh (Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Majumder, 2004 a; Rao et al., 2005)
• Bihar (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004; Majumder, 2004 a)
• Karnataka (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004; Majumder, 2004 a)
• Kerala (Sudhikumar et al., 2005 a; Sunil Jose et al., 2008; Joseph and Premila, 2016)
• Manipur (Biswas and Biswas, 2004; Kananbala et al., 2018)
• Odisha (Gravely, 1924; Tikader and Malhotra, 1980; Biswas, 1987; Biswas and Biswas, 1992; Biswas and Biswas, 2004; Majumder, 2004 a)
• Rajasthan (Kashmeera et al., 2020)
• Tamil Nadu (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Biswas, 2004; Majumder, 2004 a; Kronestedt, 2010; Dhali et al., 2016; Karthikeyani et al., 2017; Caleb, 2020 a)
• Telangana (Rao et al., 2005)
• Uttar Pradesh (Biswas and Biswas, 2010)
• West Bengal (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004; Majumder, 2004 a)

Elsewhere: Sri Lanka


Syn. *Pardosa burasantiensis* Tikader and Malhotra, 1976

• Andhra Pradesh (Majumder, 2005)
• Bihar (Majumder, 2005)
• Karnataka (Majumder, 2005)
• Manipur (Kananbala et al., 2018)
• Odisha (Majumder, 2005)
• Tamil Nadu (Majumder, 2005)
• Uttar Pradesh (Biswas and Biswas, 2010)

21. *Draposa lyrivulva* (Bösenberg and Strand, 1906)

Syn. *Lycosa lyrivulva* Bösenberg and Strand, 1906; *Pardosa leucopalpis* Gravely, 1924

• Andhra Pradesh (Tikader and Malhotra, 1980; Majumder, 2004 a, 2005)
• Kerala (Tikader and Malhotra, 1980; Majumder, 2004 a, 2005)
• Maharashtra (More and Sawant, 2013)
• Odisha (Gravely, 1924; Tikader and Malhotra, 1980; Biswas, 1987; Majumder, 2004 a, 2005)
• Tamil Nadu (Gravely, 1924; Reimoser, 1934; Tikader and Malhotra, 1980; Kronestedt, 2010; Karthikeyani et al., 2017; Caleb, 2020 b)
• Uttar Pradesh (Biswas and Biswas, 2010)
• West Bengal (Tikader and Biswas, 1981; Biswas and Biswas, 1992; Majumder, 2004 a, 2005; Talukdar and Majumder, 2008)

Elsewhere: Maldives, Pakistan, Sri Lanka

22. *Draposa nicobarica* (Thorell, 1891)*

Syn. *Lycosa nicobarica* Thorell 1891; *Pardosa nicobarica* (Thorell 1891)

• Andaman and Nicobar Islands (Thorell, 1891; Roewer, 1955; Kronestedt, 2010; Dhali et al., 2016)
23. *Draposa oakleyi* (Gravely, 1924)  
Syn. *Pardosa oakleyi* Gravely 1924  
- Arunachal Pradesh (Biswas and Biswas, 2006)  
- Bihar (Gravely, 1924; Biswas and Biswas, 1992, 2006, 2007; Dhali *et al.*, 2016)  
- Gujarat (Dhali *et al.*, 2016)  
- Karnataka (Biswas and Biswas, 1992, 2006; Nautiyal *et al.*, 2017)  
- Kerala (Patel, 2003a)  
- Mizoram (Biswas and Biswas, 2007)  
- Odisha (Choudhury *et al.*, 2019)  
- Tamil Nadu (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2006; Kronestedt, 2010; Dhali *et al.*, 2016; Karthikeyani *et al.*, 2017)  
- Uttarakhand (Biswas and Biswas 2010)  
Elsewhere: Bangladesh, Pakistan, United Arab Emirates  

24. *Draposa porpaensis* (Gajbe, 2004)*  
Syn. *Pardosa porpaensis* Gajbe, 2004  
- Chhattisgarh (Gajbe UA, 2004; Dhali *et al.*, 2016)  

- Andhra Pradesh (Patel and Reddy, 1993; Dhali *et al.*, 2016)  
- Maharashtra (More and Sawant, 2013)  
Elsewhere: Sri Lanka  

- West Bengal (Saha *et al.*, 2017)  

27. *Evippa banarensis* Tikader and Malhotra, 1980*  
- Gujarat (Patel and Vyas, 2001; Yadav *et al.*, 2017)  
- Kerala (Adarsh and Nameer, 2016)  
- Maharashtra (Rithe, 2012; More and Sawant, 2013)  
- Meghalaya (Biswas and Majumder, 1995)  
- Rajasthan (Tikader and Malhotra, 1980; Tikader, 1982; Biswas and Majumder, 1995; Dhali *et al.*, 2016; Jangid *et al.*, 2019)  

28. *Evippa jabalpurenensis* Gajbe, 2004*  
- Madhya Pradesh (Gajbe UA, 2004; Dhali *et al.*, 2016)  
- Maharashtra (Rithe, 2012)  

29. *Evippa mandlaensis* Gajbe, 2004*  
- Madhya Pradesh (Gajbe UA, 2004)  
- Maharashtra (More and Sawant, 2013)  

30. *Evippa praelongipes* (O. Pickard-Cambridge, 1871)  
- Assam (Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Dhali *et al.*, 2016)  
- Gujarat (Patel and Pillai, 1988; Tikader and Malhotra, 1980; Trivedi, 2009; Dhali *et al.*, 2016; Yadav *et al.*, 2017)  
- Meghalaya (Biswas and Majumder, 1995)  
- Punjab (Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Dhali *et al.*, 2016)  
- Rajasthan (Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Dhali *et al.*, 2016; Kumari *et al.*, 2017)  
- West Bengal (Biswas and Majumder, 1995)
Elsewhere: Egypt, Israel, Kazakhstan, Libya, North Africa, Pakistan (?), Russia, Saudi Arabia, Transcaucasia, Tripoli, Turkmenistan (?), Yemen

31. *Evippa rajasthanea* Tikader and Malhotra, 1980*

Syn. *Evippa rajasthaneus* Tikader and Malhotra 1980

- Andhra Pradesh (Rao *et al.*, 2005)
- Gujarat (Patel and Pillai, 1988; Trivedi, 2009; Yadav *et al.*, 2017)
- Rajasthan (Tikader, 1982; Tikader and Malhotra, 1980; Dhali *et al.*, 2016)
- Uttarakhand (Uniyal and Hore, 2006)

32. *Evippa rubiginosa* Simon, 1885*

- Andhra Pradesh (Gravely, 1924; Tikader and Malhotra, 1980; Dhali *et al.*, 2016)
- Assam (Tikader and Malhotra, 1980; Dhali *et al.*, 2016)
- Gujarat (Patel and Vyas, 2001; Yadav *et al.*, 2017)
- Karnataka (Simon, 1885 a)
- Tamil Nadu (Tikader and Malhotra, 1980; Dhali *et al.*, 2016)

33. *Evippa shivajii* Tikader and Malhotra, 1980*

- Arunachal Pradesh (Biswa and Biswas, 2006)
- Gujarat (Yadav *et al.*, 2017)
- Maharashtra (Tikader and Malhotra, 1980; Biswas and Biswas, 2006; More and Sawant, 2013; Dhali *et al.*, 2016)

34. *Evippa sohani* Tikader and Malhotra, 1980*

- Gujarat (Patel and Pillai, 1988; Yadav *et al.*, 2017)
- Himachal Pradesh (Uniyal, 2006)
- Maharashtra (Tikader and Malhotra, 1980; Dhali *et al.*, 2016)
- Uttarakhand (Uniyal and Hore, 2006)

35. *Evippa solanensis* Tikader and Malhotra, 1980*

- Himachal Pradesh (Tikader and Malhotra, 1980; Dhali *et al.*, 2016)
- Uttar Pradesh (Uniyal and Hore, 2009)

36. *Evippa sp.*

- Gujarat (Siliwal *et al.*, 2003; Parmar *et al.*, 2015; Yadav *et al.*, 2017)
- Jammu and Kashmir (Khan, 2011)
- Kerala (Sunil Jose *et al.*, 2008)
- Odisha (Choudhury *et al.*, 2019)
- West Bengal (Ghosh *et al.*, 2018)

37. *Evippomma evippiforme* (Caporiacco, 1935)*


- Jammu and Kashmir (Caporiacco, 1935; Dhali *et al.*, 2016)

38. *Evippomma evippinum* (Simon, 1897)

- Maharashtra (Dhali *et al.*, 2016)

Elsewhere: Pakistan

39. *Geolycosa carli* (Reimoser, 1934)*

Syn. *Hogna carli* Reimoser 1934


40. *Geolycosa charitonovii* (Mcheidze, 1997)
• Maharashtra (Phartale et al., 2016)
Elsewhere: Azerbaijan, Georgia, Russia

41. **Geolycosa sp.**
• Odisha (Palita, 2016)

42. **Hippasa agelenoides (Simon, 1884)**
Syn. *Hippasa greenalliae* (Blackwall 1867) in Simon 1885a; *Pirata agelenoides* Simon, 1884
• Andhra Pradesh (Bastawade and Borkar, 2008)
• Arunachal Pradesh (Biswas and Biswas, 2006; Sen et al., 2015)
• Chhattisgarh (Gajbe and Sharma, 1994; Gajbe P, 2003; Kujur and Ekka, 2016)
• Goa (Bastawade and Borkar, 2008; Dhali et al., 2016; Pandit and Pai, 2017)
• Gujarat (Parmar and Patel, 2015; Yadav et al., 2017)
• Jammu and Kashmir (Punjoo and Bhat, 2015)
• Karnataka (Tikader and Malhotra, 1980; Biswas and Biswas, 2006; Sen et al., 2015; Dhali et al., 2016)
• Kerala (Tikader and Malhotra, 1980; Patel, 2003 a; Sudhikumar et al., 2005 a; Biswas and Biswas, 2006; Sunil Jose et al., 2008; Joseph and Premila, 2016)
• Madhya Pradesh (Gajbe PU, 2004; Dhali et al., 2016)
• Maharashtra (Rithe, 2012)

43. **Hippasa charamaensis Gajbe, 2004**
• Madhya Pradesh (Gajbe PU, 2004; Dhali et al., 2016)
• Maharashtra (Rithe, 2012)

44. **Hippasa fabreae Gajbe and Gajbe, 1999**
• Madhya Pradesh (Gajbe and Gajbe, 1999 a; Gajbe P, 2003; Dhali et al., 2016)

45. **Hippasa flavicoma Caporiacco, 1935**
• Jammu and Kashmir (Caporiacco, 1935; Dhali et al., 2016)

46. **Hippasa greenalliae (Blackwall, 1867)**
Syn. *Lycosa greenalliae* Blackwall, 1867; *Hippasa pantherina* Pocock, 1899
• Andhra Pradesh (Rao et al., 2005; Sen et al., 2015)
• Chhattisgarh (Gajbe P, 2003; Gajbe and Sharma, 1994; Kujur and Ekka, 2016)
• Goa (Pandit and Pai, 2017)
• Gujarat (Patel, 2003 b; Yadav et al., 2017)
• Jammu and Kashmir (Sharma, 2014)
• Karnataka (Caleb, 2020 a; Tikader and Malhotra, 1980; Sen et al., 2015; Dhali et al., 2016)
• Kerala (Pocock, 1899, 1900; Tikader and Malhotra, 1980; Patel, 2003 a; Sudhikumar et al., 2005 a; Sunil Jose et al., 2008; Adarsh and Nameer, 2016; Dhali et al., 2016)
• Madhya Pradesh (Gajbe P, 2003; Gajbe UA, 2004; Keswani, 2014; Dhali et al., 2016)
• Maharashtra (Caleb, 2020 a; Tikader and Malhotra, 1980; More and Sawant, 2013; Dhali et al., 2016)
• Manipur (Biswas and Biswas, 2004; Kananbala et al., 2018)
• Odisha (Gravely, 1921; Tikader and Malhotra, 1980; Biswas, 1987; Biswas and Biswas, 2004; Panda et al., 2011; Sen et al., 2015; Palita, 2016; Dhali et al., 2016)
• Sikkim (Tikader, 1970; Tikader and Malhotra, 1980; Biswas and Biswas, 2004; Sen et al., 2015; Dhali et al., 2016)
• Tamil Nadu (Simon, 1885 a; Sherriffs, 1919; Tikader and Malhotra, 1980; Sen et al., 2015; Dhali et al., 2016; Karthikeyani et al., 2017; Caleb, 2020 a, b)
• Tripura (Dey et al., 2013)
• Uttar Pradesh (Blackwall, 1867; Sen et al., 2015)
• Uttarakhand (Biswas and Biswas, 2010; Quasin and Uniyal, 2013)

• West Bengal (Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Majumder, 2004 a, 2005; Dhali et al., 2012, 2016, 2017; Majumder and Talukdar, 2013; Sen et al., 2015; Raychaudhuri et al., 2016; Saha et al., 2016)

Elsewhere: Bangladesh, Sri Lanka

47. *Hippasa hansae* Gajbe and Gajbe, 1999*

• Chhattisgarh (Ekka and Kujur, 2015)
• Madhya Pradesh (Gajbe and Gajbe, 1999 a; Gajbe P, 2003; Gajbe PU, 2004; Patil, 2012; Dhali et al., 2016)
• Maharashtra (Rithe, 2012; More and Sawant, 2013)

48. *Hippasa haryanensis* Arora and Monga, 1994*

• Haryana (Arora and Monga, 1994; Dhali et al., 2016)
• Punjab (Singh and Mavi, 1984)

49. *Hippasa himalayensis* Gravely 1924*

• Assam (Saha et al., 2016)
• Himachal Pradesh (Dhali et al., 2016)
• Jammu and Kashmir (Sharma, 2014)
• Karnataka (Saha et al., 2016)
• Kerala (Dhali et al., 2016)
• Meghalaya (Gravely, 1924)
• Tamil Nadu (Tikader and Malhotra, 1980)
• Uttar Pradesh (Hore, 2009)
• West Bengal (Majumder and Talukdar, 2013; Raychaudhuri et al., 2016; Dhali et al., 2016; Saha et al., 2016)

50. *Hippasa holmerae* Thorell, 1895

• Arunachal Pradesh (Biswas and Biswas, 2006)
• Gujarat (Thumar, 2019)
• Jammu and Kashmir (Khan, 2006)
• Karnataka (Deshpande and Paul, 2016)
• Kerala (Sebastian et al., 2011; Joseph and Premila, 2016; Adarsh and Nameer, 2016)
• Maharashtra (More and Sawant, 2013; Deshmukh and Tekade, 2019)
• Manipur (Tikader and Biswas, 1981; Biswas and Biswas, 1992, 2006; Biswas and Majumder, 2000; Majumder, 2005; Dhali et al., 2016)
• Tripura (Biswas and Majumder, 2000)
• Uttar Pradesh (Biswas and Biswas, 1992, 2006; Biswas and Majumder, 2000; Majumder, 2005; Sharma and Singh, 2018 a, b)
• Uttar Pradesh and Malhotra, 1980; Dhali et al., 2016)
• West Bengal (Tikader and Malhotra, 1990; Tikader and Biswas, 1981; Biswas and Biswas, 1992, 2006; Biswas and Majumder, 2000; Majumder, 2005; Talukdar and Majumder, 2008; Majumder and Talukdar, 2013; Dhali et al., 2016)
• Uttar Pradesh and Malhotra, 1980; Dhali et al., 2016; Gujrat (Patel, 2003 b)
• West Bengal (Biswas and Biswas, 1992)

51. Hippasa loundesi Gravely, 1924*

• Gujarat (Prajapati et al., 2016; Yadav et al., 2017)
• Tamil Nadu (Gravely, 1924; Tikader and Malhotra, 1980; Karthikeyani et al., 2013; Dhali et al., 2016; Karthikeyani et al., 2017)
• Uttar Pradesh and Malhotra, 1980; Dhali et al., 2016; Gujrat (Patel, 2003 b)
• Maharashtra (Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Bastawade, 2008 a; Rithe, 2012; More and Sawant, 2013; Dhali et al., 2016)
• Rajasthan (Sen et al., 2009; Kaur et al., 2014; Lawania and Trigunayat, 2015; Saha et al., 2015; Dhali et al., 2016)
• West Bengal (Biswas and Biswas, 1992)

52. Hippasa lycosina Pocock, 1900

Syn. Hippasa nilgiriensis Gravely, 1924; Hippasa mahabaleshwarensis Tikader and Malhotra, 1980
• Delhi (Malik et al., 2015)
• Gujarat (Patel, 2003 b; Siliwal et al., 2003; Kumar and Shivakumar, 2004)
• Karnataka (Caleb, 2020 a)
• Kerala (Tikader and Malhotra, 1980; Patel, 2003 a; Sudhikumar et al., 2005 a; Sunil Jose et al., 2008; Dhali et al., 2016)
• Maharashtra (Caleb, 2020 a; Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Bastawade and Khandal, 2006; Dhali et al., 2016)
• Manipur (Kananbala et al., 2018)
• Meghalaya (Biswas and Majumder, 1995)
• Tamil Nadu (Gravely, 1924; Tikader and Malhotra, 1980; Dhali et al., 2016; Karthikeyani et al., 2017; Saranya et al., 2019)
• Uttar Pradesh and Malhotra, 1980; Biswas and Biswas, 2010; Dhali et al., 2016)

Elsewhere: China, Laos

53. Hippasa madhuae Tikader and Malhotra, 1980*

• Gujarat (Patel, 2003 b)
• West Bengal (Biswas and Biswas, 1992)

54. Hippasa madraspatana Gravely, 1924*
Syn. *Lycosa madraspatana* (Gravely, 1924), misnamed by Umarani and Umamaheswari, 2013

- Gujarat (Tikader and Malhotra, 1980; Sen *et al.*, 2015; Dhali *et al.*, 2016; Yadav *et al.*, 2017)
- Meghalaya (Biswas and Majumder, 1995)
- Tamil Nadu (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Umarani and Umamaheswari, 2013; Sen *et al.*, 2015; Dhali *et al.*, 2016; Karthikeyani *et al.*, 2017; Caleb, 2020 a)
- Uttarakhand (Biswas and Biswas, 2010)
- West Bengal (Sen *et al.*, 2015; Dhali *et al.*, 2012, 2016, 2017)

### 55. *Hippasa olivacea* (Thorell, 1887)

- Andhra Pradesh (Rao *et al.*, 2005)
- Goa (Dhali *et al.*, 2016)
- Gujarat (Yadav *et al.*, 2017)
- Karnataka (Bastawade and Borkar, 2008)
- Kerala (Sudhikumar *et al.*, 2005 a; Sunil Jose *et al.*, 2008)
- Madhya Pradesh (Gajbe P, 2003; Gajbe PU, 2004; Dhali *et al.*, 2016)
- Maharashtra (Bastawade, 2008 a; Bastawade and Borkar, 2008)
- Mizoram (Biswas and Biswas, 2007)
- Tamil Nadu (Bastawade and Borkar, 2008)
- Telangana (Rao *et al.*, 2005)
- Uttarakhand (Leardi, 1901; Bastawade and Borkar, 2008)
- West Bengal (Majumder, 2004 a, 2005; Bastawade and Borkar, 2008)

Elsewhere: Myanmar

### 56. *Hippasa partita* (O. Pickard-Cambridge, 1876)

- Arunachal Pradesh (Biswas and Biswas, 2006)
- Chhattisgarh (Gajbe P, 2003; Gajbe PU, 2004)
- Gujarat (Tikader and Malhotra, 1980; Patel, 2003 b; Dhali *et al.*, 2016; Yadav *et al.*, 2017)
- Madhya Pradesh (Gajbe UA, 1995; Gajbe P, 2003; Patil, 2012; Dhali *et al.*, 2016)
- Manipur (Biswas and Biswas, 2004; Kanabala *et al.*, 2018)
- Mizoram (Biswas and Biswas, 2007)
- Odisha (Majumder, 2005)
- Rajasthan (Tikader and Malhotra, 1980; Dhali *et al.*, 2016)
- Uttar Pradesh (Singh and Singh, 2014; Sharma and Singh, 2018 a, b)
- West Bengal (Biswas and Biswas, 1992, 2006; Saha *et al.*, 1994; Majumder, 2004 a, 2005; Dhali *et al.*, 2012; Majumder and Talukdar, 2013)

Elsewhere: Egypt, Bangladesh, Pakistan

### 57. *Hippasa pisaurina* Pocock, 1900

- Andhra Pradesh (Palem *et al.*, 2016)
- Bihar (Gravely, 1924; Tikader and Malhotra, 1980; Dhali *et al.*, 2016)
- Goa (Pandit and Pai, 2017)
- Gujarat (Tikader and Malhotra, 1980; Patel and Pillai, 1988; Patel and Vyas, 2001; Siliwal *et al.*, 2003; Bhatt, 2014; Dhali *et al.*, 2016; Yadav *et al.*, 2017; Yadav and Kumar, 2019)
- Karnataka (Caleb, 2020 a; Gravely, 1924; Tikader and Malhotra, 1980; Dhali *et al.*, 2016; Nautiyal *et al.*, 2017)
• Kerala (Patel, 2003 a; Adarsh and Nameer, 2015; Dhali et al., 2016)

• Madhya Pradesh (Gajbe and Singh, 1994; Gajbe UA, 1995, 2004; Patil, 2012; Dhali et al., 2016)

• Maharashtra (Caleb, 2020 a; Tikader, 1966; Tikader and Malhotra, 1980; Biswas and Biswas, 2004; Rithe, 2012; Dhali et al., 2016)

• Manipur (Biswas and Biswas, 2004; Kananbala et al., 2018)

• Rajasthan (Tikader, 1966; Chauhan et al., 2009; Kaur et al., 2014; Lawania and Trigunayat, 2015; Kumari et al., 2017; Jangid et al., 2019)

• Tamil Nadu (Umarani and Umamaheswari, 2013)

• Uttar Pradesh (Hore and Uniyal, 2008 a, b, c)

• Uttarakhand (Uniyal and Hore, 2006)

• West Bengal (Biswas and Biswas, 2004; Ghosh et al., 2018)

Elsewhere: Bangladesh, Iraq, Pakistan

58. **Hippasa valiveruensis** Patel and Reddy, 1993*

• Andhra Pradesh (Patel and Reddy, 1993; Dhali et al., 2016)

59. **Hippasa wigglesworthi** Gajbe and Gajbe, 1999*

• Madhya Pradesh (Gajbe and Gajbe, 1999 a; Gajbe P, 2003, Gajbe PU, 2004; Patil, 2012; Dhali et al., 2016)

60. **Hippasa sp.**

• Assam (Chetia and Kalita, 2012; Das et al., 2015)

• Chhattisgarh (Ekka and Kujur, 2015)

• Gujarat (Siliwal et al., 2003; Parasharya and Pathan, 2013; Parmar et al., 2015)

• Karnataka (Bhat et al., 2013)

• Kerala (Sebastian et al., 2005 a)

• Maharashtra (Nerlekar et al., 2016)

• Meghalaya (Bhattacharya et al., 2017)

• Mizoram (Chowdhury et al., 2017)

• Odisha (Siliwal and Molur, 2008)

• Rajasthan (Chauhan et al., 2009; Kumari et al., 2017; Jangid et al., 2019)

• Tamil Nadu (Kapoor, 2008)

• Uttar Pradesh (Hore and Uniyal, 2008 a, b)

61. **Hogna himalayensis** (Gravely, 1924)

Syn. **Lycosa himalayensis** Gravely, 1924

• Andhra Pradesh (Majumder, 2005)

• Assam (Biswas and Majumder, 1995; Biswas and Biswas, 2004; Sen et al., 2015; Dhali et al., 2016)

• Karnataka (Sen et al., 2015)

• Kerala (Sen et al., 2015)

• Maharashtra (Sen et al., 2015)

• Manipur (Biswas and Biswas, 2004; Sen et al., 2015)

• Meghalaya (Biswas and Majumder, 1995; Biswas and Biswas, 2004; Sen et al., 2015)

• Tamil Nadu (Sen et al., 2015)

• Uttar Pradesh (Sen et al., 2015)

• Uttarakhand (Biswas and Biswas, 2010)

• West Bengal (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Majumder, 2004 a, 2005; Majumder and Talukdar, 2013; Sen et al., 2015; Dhali et al., 2012, 2016, 2017)
Elsewhere: Bhutan, China

62. *Hogna irascibilis* (O. Pickard-Cambridge, 1885)*

Syn. *Tarentula irascibilis* O. Pickard-Cambridge, 1885

- Ladakh (Pickard-Cambridge, 1885)

63. *Hogna lenta* (Hentz, 1844)†

- Odisha (Palita, 2016)

Elsewhere: USA

64. *Hogna rubromandibulata* (O. Pickard-Cambridge, 1885)

Syn. *Lycorma rubromandibulata* O. Pickard-Cambridge, 1885; *Trochosa rubromandibulata* (O. Pickard-Cambridge, 1885)

- Jammu and Kashmir (Pickard-Cambridge, 1885; Caporiacco, 1935; Dhali et al., 2016)

Elsewhere: Pakistan

65. *Hogna stictopyga* (Thorell, 1895)

- Bihar (Gravely, 1924; Dhali et al., 2016)

- Maharashtra (More and Sawant, 2013)

- Punjab (Dhali et al., 2016)

- Uttarakhand (Leardi, 1901)

- West Bengal (Gravely, 1924; Dhali et al., 2016)

Elsewhere: Myanmar, Singapore

66. *Lycosa arambagensis* Biswas and Biswas, 1992*

- West Bengal (Biswas and Biswas, 1992; Dhali et al., 2016)

67. *Lycosa balaramai* Patel and Reddy, 1993*

- Andhra Pradesh (Patel and Reddy, 1993; Dhali et al., 2016)

- Maharashtra (More and Sawant, 2013)

68. *Lycosa barnesi* Gravely, 1924*

- Kerala (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 2004; Dhali et al., 2016; Adarsh and Nameer, 2016)

- Maharashtra (Rithe, 2012)

- Manipur (Biswas and Biswas, 2004; Kananbala et al., 2018)

- Meghalaya (Biswas and Majumder, 1995; Biswas and Biswas, 2004)

- Tamil Nadu (Saranya et al., 2019)

69. *Lycosa bhatnagari* Sadana, 1969*

- Maharashtra (Rithe, 2012; More and Sawant, 2013)

- Punjab (Sadana, 1969; Dhali et al., 2016)

70. *Lycosa bistriata* Gravely, 1924

- Chhattisgarh (Kujur and Ekka, 2016)

- Arunachal Pradesh (Biswas and Biswas, 2006)

- Bihar (Gajbe PU, 2004)

- Gujarat (Patel, 2003 b)

- Karnataka (Gravely, 1924; Nautiyal et al., 2017)

- Kerala (Adarsh and Nameer, 2016)

- Madhya Pradesh (Gajbe P, 2003; Sen et al., 2015; Dhali et al., 2016)

- Maharashtra (Rithe, 2012)

- Manipur (Kananbala et al., 2018)

- Rajasthan (Jangid et al., 2019)

- Tamil Nadu (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 2006; Sen et al., 2015; Dhali et al., 2016; Karthikeyani et al., 2017; Caleb, 2020 a)
West Bengal (Gravely, 1924; Sinha, 1951; Biswas and Biswas, 2006; Majumder and Talukdar, 2013; Sen et al., 2015; Dhali et al., 2012, 2016, 2017)

Elsewhere: Bhutan

71. *Lycosa carmichaeli* Gravely, 1924*

- Arunachal Pradesh (Biswas and Biswas, 2006)
- Assam (Gravely, 1924; Tikader, 1970; Tikader and Malhotra, 1980; Biswas and Biswas, 2006; Bastawade and Borkar, 2008; Sen et al., 2015; Dhali et al., 2016)
- Goa (Bastawade and Borkar, 2008; Dhali et al., 2016)
- Jharkhand (Agrawal and Ghose, 1995)
- Kerala (Sudhikumar et al., 2005 a; Joseph et al., 2017)
- Meghalaya (Biswas and Biswas, 2006)
- Sikkim (Tikader, 1970)
- Uttar Pradesh (Gravely, 1924; Biswas and Biswas, 2006; Bastawade and Borkar, 2008; Sen et al., 2015; Dhali et al., 2016)
- Uttarakhand (Gravely, 1924; Tikader, 1970; Tikader and Malhotra, 1980; Bastawade and Borkar, 2008)
- West Bengal (Gravely, 1924; Tikader, 1970; Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2006; Bastawade and Borkar, 2008; Dhali et al., 2012, 2016, 2017; Majumder and Talukdar, 2013; Sen et al., 2015)

72. *Lycosa chaperi* Simon, 1885

- Andhra Pradesh (Tikader and Malhotra, 1980; Dhali et al., 2016)
- Gujarat (Patel and Vyas, 2001; Yadav et al., 2017)
- Karnataka (Simon, 1885 a)
- Punjab (Sadana, 1972; Tikader and Malhotra, 1980; Dhali et al., 2016)
- Tamil Nadu (Pocock, 1900; Sherriffs, 1919; Karthikeyani et al., 2017)
- Uttarakhand (Biswas and Biswas, 2010)
- West Bengal (Majumder, 2004 a, 2005)

Elsewhere: Pakistan

73. *Lycosa choudhuryi* Tikader and Malhotra, 1980

- Maharashtra (Rithe, 2012)
- West Bengal (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004 a, 2005; Talukdar and Majumder, 2008; Dhali et al., 2016)

Elsewhere: China

74. *Lycosa fuscana* Pocock, 1901*

- Anhtra Pradesh (Biswas and Biswas, 2006)
- Maharashtra (Pocock, 1901; Tikader and Malhotra, 1980; Biswas and Biswas, 2006; More and Sawant, 2013; Dhali et al., 2016)
- Uttarakhand (Biswas and Biswas, 2010)

75. *Lycosa geotubalis* Tikader and Malhotra, 1980*

- Gujarat (Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Patel and Vyas, 2001; Patel, 2003 b; Parmar et al., 2015; Dhali et al., 2016; Yadav et al., 2017)
- Jammu and Kashmir (Khan, 2006)
- Maharashtra (Tikader and Malhotra, 1980; Biswas and Majumder, 1995; More and Sawant, 2013; Dhali et al., 2016)
- Meghalaya (Biswas and Majumder, 1995)
76. *Lycosa goliathus* Pocock, 1901*

- Gujarat (Patel and Vyas, 2001; Yadav *et al.*, 2017)
- Maharashtra (Pocock, 1901; Tikader and Malhotra, 1980; Dhali *et al.*, 2016)

77. *Lycosa grahami* Fox, 1935†

- Gujarat (Siliwal, 2000; Kumar and Shivakumar, 2006)

Elsewhere: China

78. *Lycosa indagatrix* Walckenaer, 1837

Syn. *Lycosa catula* Simon, 1885

- Andhra Pradesh (Gravely, 1924; Tikader and Malhotra, 1980; Rao *et al.*, 2005; Biswas and Biswas, 2006; Dhali *et al.*, 2016)
- Arunachal Pradesh (Biswas and Biswas, 2006)
- Karnataka (Simon, 1885 b; Pocock, 1900; Gravely, 1924; Reimoser, 1934)
- Maharashtra (More and Sawant, 2013)
- Puducherry (Simon, 1984, 1885 a; Pocock, 1900)
- Tamil Nadu (Walckenaer, 1837; Simon, 1885 b; Pocock, 1900; Sherriffs, 1919; Gravely, 1924; Reimoser, 1934; Tikader and Malhotra, 1980; Biswas and Biswas, 2006; Dhali *et al.*, 2016; Karthikeyani *et al.*, 2017; Caleb, 2020 a)
- West Bengal (Dhali *et al.*, 2012, 2016, 2017)

Elsewhere: Sri Lanka

79. *Lycosa iranii* Pocock, 1901*

- Arunachal Pradesh (Biswas and Biswas, 2006)

80. *Lycosa jagadalpurensis* Gajbe, 2004*

- Chhattisgarh (Gajbe UA, 2004; Kujur and Ekka, 2016)
- Madhya Pradesh (Dhali *et al.*, 2016)
- Maharashtra (Rithe, 2012)

81. *Lycosa kempi* Gravely, 1924

- Andhra Pradesh (Rao *et al.*, 2005)
- Arunachal Pradesh (Biswas and Biswas, 2006; Dhali *et al.*, 2016)
- Assam (Sinha, 1951; Tikader, 1970; Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2006, 2006; Biswas and Majumder, 1995; Dhali *et al.*, 2016)
- Manipur (Biswas and Biswas, 2004; Dhali *et al.*, 2016; Kananbala *et al.*, 2018)
- Meghalaya (Biswas and Majumder, 1995; Biswas and Biswas, 2004, 2006)
- Odisha (Choudhury *et al.*, 2019)
- Uttarakhand (Biswas and Biswas, 2010)
• West Bengal (Gravely, 1924; Sinha, 1951; Tikader, 1970; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Biswas and Biswas, 2004, 2006; Majumder, 2004 a, 2005; Talukdar and Majumder, 2008; Majumder and Talukdar, 2013; Dhali et al., 2012, 2016, 2017)

Elsewhere: Bhutan, China, Pakistan

82. *Lycosa lambai* Tikader and Malhotra, 1980*

• Gujarat (Yadav et al., 2017)

• Maharashtra (Tikader and Malhotra, 1980; Dhali et al., 2016)

• Uttarakhand (Biswas and Biswas, 2010)

83. *Lycosa mackenziei* Gravely, 1924

• Assam (Singh et al., 2012; Basumatyary and Brahma, 2017)

• Bihar (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Sen et al., 2015; Dhali et al., 2016)

• Gujarat (Bhatt, 2014; Yadav et al., 2017)

• Haryana (Malik and Goyal, 2017)

• Jammu and Kashmir (Khan, 2006)

• Karnataka (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Sen et al., 2015; Dhali et al., 2016; Fernandes and Ganesh, 2020)

• Kerala (Mathew et al., 2014; Sen et al., 2015; Dhali et al., 2016)

• Meghalaya (Bhattacharya et al., 2017)

• Odisha (Panda et al., 2011)

• Punjab (Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Sen et al., 2015; Dhali et al., 2016)

• Rajasthan (Lawania and Trigunayat, 2015; Jangid et al., 2019)

• Tripura (Dey et al., 2013)

• Uttar Pradesh (Singh and Singh, 2014; Sharma and Singh, 2018 a, b)

• West Bengal (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Majumder, 2004 a, 2005; Sen et al., 2015; Dhali et al., 2012, 2016, 2017; Ghosh et al., 2018)

Elsewhere: Bangladesh, Pakistan

84. *Lycosa madani* Pocock, 1901*

• Andhra Pradesh (Sen et al., 2015; Dhali et al., 2016)

• Arunachal Pradesh (Biswas and Biswas, 2006)

• Bihar (Biswas and Biswas, 2004; Sen et al., 2015; Dhali et al., 2016)

• Gujarat (Trivedi, 2009; Parasharya and Pathan, 2013; Yadav et al., 2017)

• Karnataka (Biswas and Biswas, 2004; Sen et al., 2015; Nautiyal et al., 2017)

• Kerala (Patel, 2003 a; Biswas and Biswas, 2004; Sunil Jose et al., 2008; Sen et al., 2015; Dhali et al., 2016)

• Madhya Pradesh (Gaïbe and Singh, 1994)

• Maharashtra (Pocock, 1901; Tikader and Malhotra, 1980; Biswas and Biswas, 2004, 2006; Sen et al., 2015; Dhali et al., 2016)

• Manipur (Biswas and Biswas, 2004; Kananbala et al., 2018)

• Odisha (Biswas, 1987; Biswas and Biswas, 2004; Sen et al., 2015; Dhali et al., 2016)

• Rajasthan (Sivaperuman and Rathore, 2004)

• Uttar Pradesh (Singh and Singh, 2014; Sharma and Singh, 2018 a, b)
• West Bengal (Sen et al., 2015; Dhali et al., 2016, 2017)

85. *Lycosa mahabaleshwarensis* Tikader and Malhotra, 1980*

- Goa (Bastawade and Borkar, 2008; Dhali et al., 2016)
- Gujarat (Siliwal et al., 2003; Yadav et al., 2017)
- Jharkhand (Agrawal and Ghose, 1995)
- Maharashtra (Tikader and Malhotra, 1980; Bastawade and Borkar, 2008; Rithe, 2012; Dhali et al., 2016)
- Tamil Nadu (Karthikeyani, 2013)
- Uttarakhand (Biswas and Biswas, 2010)
- West Bengal (Majumder, 2004 a, 2005)

86. *Lycosa masteri* Pocock, 1901*

- Maharashtra (Pocock, 1901; Tikader and Malhotra, 1980; Dhali et al., 2016)
- West Bengal (Majumder, 2004 a, 2005)

87. *Lycosa moulmeinensis* Gravely 1924†

- Gujarat (Yadav et al., 2017)
- Elsewhere: Myanmar

88. *Lycosa nigrotibialis* Simon, 1884

- Assam (Tikader and Malhotra, 1980; Biswas and Majumder, 1995, 2000; Sen et al., 2015; Dhali et al., 2016)
- Bihar (Tikader and Malhotra, 1980; Biswas and Majumder, 1995, 2000; Dhali et al., 2016)
- Chhattisgarh (Gajbe and Sharma, 1994)
- Gujarat (Biswas and Majumder 1995, 2000; Dhali et al., 2016; Yadav et al., 2017)
- Himachal Pradesh (Tikader and Malhotra, 1980; Biswas and Majumder 1995, 2000; Dhali et al., 2016)
- Karnakta (Strand, 1909)
- Madhya Pradesh (Gajbe P, 2003; Gajbe UA, 2007; Patil, 2012; Dhali et al., 2016)
- Maharashtra (Tikader and Malhotra, 1980; Biswas and Majumder, 1995, 2000; Bastawade, 2008 a; Dhali et al., 2016)
- Meghalaya (Biswas and Majumder, 1995)
- Sikkim (Biswas and Majumder, 1980; Biswas and Majumder, 1995, 2000; Dhali et al., 2016)
- Telangana (Rao et al., 2005)
- Uttarakhand (Biswas and Biswas, 2010)
- West Bengal (Oppenheimer and Tikader, 1976)
- Elsewhere: Bhutan, Myanmar

89. *Lycosa phipsoni* Pocock, 1899

- Assam (Dhali et al., 2016)
- Goa (Bastawade and Borkar, 2008; Dhali et al., 2016)
- Gujarat (Siliwal, 2000; Yadav et al., 2017)
- Karnataka (Pocock, 1900; Strand, 1909)
- Kerala (Sumesh and Sudhikumar, 2020)
- Maharashtra (Pocock, 1899, 1900; Sinha, 1951; Tikader and Malhotra, 1980; Bastawade and Khandal, 2006; Bastawade and Borkar, 2008; Sen et al., 2015; Dhali et al., 2016)
- Odisha (Sen et al., 2015; Dhali et al., 2016)
- Tripura (Biswas and Majumder, 2000)
- Uttarakhand (Biswas and Biswas, 2010)
- West Bengal (Tikader and Malhotra, 1980; Biswas and Majumder, 1995, 2000; Dhali et al., 2012, 2016; Majumder and Talukdar, 2013; Sen et al., 2015; Raychaudhuri et al., 2016; Saha et al., 2016, 2017)
- Elsewhere: China, Taiwan
90. *Lycosa pictula* Pocock, 1901*

- Arunachal Pradesh (Biswas and Biswas, 2006)
- Gujarat (Siliwal, 2000; Patel and Vyas, 2001; Siliwal *et al.*, 2003; Kumar and Shivakumar, 2004)
- Karnataka (Nautiyal *et al.*, 2017)
- Maharashtra (Pocock, 1901; Tikader and Malhotra, 1980; Biswas and Biswas, 2006)
- Rajasthan (Lawania and Trigunayat, 2015; Jangid *et al.*, 2019)
- Uttar Pradesh (Anjali and Prakash, 2012; Lawania and Mathur, 2014)
- Uttarakhand (Biswas and Biswas, 2010)
- West Bengal (Majumder, 2004 a, 2005)

91. *Lycosa poonaensis* Tikader and Malhotra, 1980*

- Andhra Pradesh (Palem *et al.*, 2016)
- Arunachal Pradesh (Biswas and Biswas, 2006)
- Chhattisgarh (Gajbe P, 2003; Gajbe and Sharma, 1994; Kujur and Ekka, 2016; Ekka and Kujur, 2015)
- Kerala (Sebastian *et al.*, 2011)
- Madhya Pradesh (Gajbe UA, 1995; Keswani, 2014)
- Maharashtra (Tikader and Malhotra, 1980; Biswas and Biswas, 2006; Rithe, 2012; More and Sawant, 2013; Dhali *et al.*, 2016; Lu *et al.*, 2016)
- Mizoram (Chowdhury *et al.*, 2017)
- West Bengal (Majumder, 2004 a, 2005; Biswas and Biswas, 2006)

92. *Lycosa prolifica* Pocock, 1901*

- Arunachal Pradesh (Biswas and Biswas, 2006)
- Gujarat (Patel and Vyas, 2001; Patel, 2003 b; Yadav *et al.*, 2017)
- Karnataka (Nautiyal *et al.*, 2017)
- Maharashtra (Pocock, 1901; Tikader and Malhotra, 1980; Biswas and Biswas, 2006; Dhali *et al.*, 2016)
- Odisha (Choudhury *et al.*, 2019)
- Punjab (Tikader and Malhotra, 1980; Biswas and Biswas, 2006)
- Uttar Pradesh (Biswas and Biswas, 2006)
- Uttarakhand (Tikader and Malhotra, 1980; Biswas and Biswas, 2010)

93. *Lycosa shahapuraensis* Gajbe, 2004*

- Madhya Pradesh (Gajbe UA, 2004)
- Maharashtra (Rithe, 2012)

94. *Lycosa shaktae* Bhandari and Gajbe, 2001*

- Chhattisgarh (Kujur and Ekka, 2016; Ekka and Kujur, 2015)
- Madhya Pradesh (Bhandari and Gajbe, 2001; Gajbe P, 2003)
- Maharashtra (Rithe, 2012)

95. *Lycosa shillongensis* Tikader and Malhotra, 1980*

- Maharashtra (Meshram, 2011)
- Manipur (Biswas and Biswas, 2004; Sen *et al.*, 2015; Dhali *et al.*, 2016; Kananbala *et al.*, 2018)
• Meghalaya (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004; Biswas and Majumder, 1995; Majumder, 2005; Sen et al., 2015; Dhali et al., 2016)
• Mizoram (Biswas and Biswas, 2007)
• Uttarakhand (Biswas and Biswas, 2010)
• West Bengal (Biswas and Biswas, 1992; Majumder, 2005; Dhali et al., 2012, 2016, 2017; Sen et al., 2015)

96. Lycosa thoracica Patel and Reddy, 1993*

• Andhra Pradesh (Patel and Reddy, 1993; Dhali et al., 2016)
• Assam (Singh et al., 2012)
• Maharashtra (More and Sawant, 2013)

97. Lycosa tista Tikader, 1970

• Arunachal Pradesh (Biswas and Biswas, 2006; Dhali et al., 2016)
• Assam (Singh et al., 2012; Singh and Borkotoki, 2014)
• Goa (Halarnkar and Pai, 2018)
• Gujarat (Patel and Pillai, 1988; Siliwal et al., 2003; Trivedi, 2009; Parmar and Patel, 2015; Parmar et al., 2015; Yadav et al., 2017)
• Karnataka (Mubeen and Basavarajappa, 2018; Fernandes and Ganesh, 2020)
• Kerala (Mathew et al., 2014; Adarsh and Nameer, 2015, 2016; Dhali et al., 2016; Rajeevan et al., 2019)
• Madhya Pradesh (Patil et al., 2013)
• Maharashtra (Lanka et al., 2017)
• Manipur (Biswas and Biswas, 2004; Dhali et al., 2016, 2017; Kananbala et al., 2018)
• Mizoram (Chowdhury et al., 2017)

98. Lycosa wroughtoni Pocock, 1899*

• Gujarat (Pocock, 1899, 1900; Tikader and Malhotra, 1980; Dhali et al., 2016; Yadav et al., 2017)
• Madhya Pradesh (Gajbe P, 2004)
• Punjab (Sadana, 1981)

99. Lycosa sp.

• Assam (Chetia and Kalita, 2012; Das et al., 2015)
• Chhattisgarh (Mishra and Shrivastava, 2002)
• Gujarat (Patel and Vyas, 2001; Siliwal et al., 2003; Parasharya and Pathan, 2013; Parmar and Patel, 2015; Parmar et al., 2015; Yadav et al., 2017)
• Jammu and Kashmir (Khan, 2009, 2011; Punjoo and Bhat, 2015)
• Karnataka (Nautiyal et al., 2017; Mubeen and Basavarajappa, 2018; Kokilamani et al., 2019)
• Kerala (Patel, 2003 a; Sebastian et al., 2005 a, b; Sunil Jose et al., 2008)
• Maharashtra (Nerlekar et al., 2016)
• Rajasthan (Sivaperuman and Rathore, 2004; Chauhan et al., 2009; Kumari et al., 2017; Jangid et al., 2019; Malhotra et al., 2019)
• Tamil Nadu (Kapoor, 2008; Dharmaraj et al., 2018)
• Telangana (Sailu et al., 2017)
• Uttar Pradesh (Sharma and Singh, 2018 a)
• Uttar Pradesh (Biswas and Majumder, 1995; Dhali et al., 2016)
• Tripura (Biswas and Majumder, 2000)
• West Bengal (Majumder, 2004 a, 2005)
Elsewhere: Madagascar, Saudi Arabia, Senegal, Sudan, Turkey

104. Ovia procurva (Yu and Song, 1988)
Syn. Pardosa procurva Yu and Song, 1988
• Kerala (Sankaran et al., 2017)
• West Bengal (Dhali et al., 2012, 2016, 2017)
Elsewhere: China, Taiwan

105. Ovia quinquedens (Dhali et al., 2012)*
Syn. Arctosa quinquedens Dhali et al., 2012
• West Bengal (Dhali et al., 2012, 2016, 2017; Sankaran et al., 2021)

106. Pardosa algoides Schenkel, 1963
• Arunachal Pradesh (Biswas and Biswas, 2006)
• Jammu and Kashmir (Biswas and Biswas, 2006; Khan, 2011; Khan and Rather, 2012; Marusik et al., 2014; Dhali et al., 2016)
• Ladakh (Tikader, 1977 a; Tikader and Malhotra, 1980; Uniyal, 2006)
• Uttar Pradesh (Biswas and Biswas, 2010)
Elsewhere: Bangladesh, China, Pakistan

107. Pardosa alii Tikader, 1977*
• Gujarat (Parmar et al., 2015)
• Jammu and Kashmir (Majumder, 2004 a, 2005; Dhali et al., 2016)
• Ladakh (Tikader, 1977 a; Tikader and Malhotra, 1980)
• West Bengal (Majumder, 2004 a, 2005)
- Jammu and Kashmir (Khan, 2011; Khan and Rather, 2012)
- Karnataka (Nautiyal et al., 2017)
- Madhya Pradesh (Patil et al., 2013)
- Maharashtra (Rithe, 2012)
- Uttar Pradesh (Tikader and Malhotra, 1980; Dhali et al., 2016)
Elsewhere: China

109. *Pardosa balaghatensis* Gajbe, 2004*
- Madhya Pradesh (Gajbe UA, 2004; Dhali et al., 2016)
- Maharashtra (Rithe, 2012)

110. *Pardosa bargaonensis* Gajbe, 2004*
- Chhattisgarh (Gajbe UA, 2004; Dhali et al., 2016)
- Maharashtra (Rithe, 2012)

111. *Pardosa bastarensis* Gajbe, 2004*
- Chhattisgarh (Gajbe UA, 2004; Dhali et al., 2016)
- Maharashtra (Rithe, 2012)

112. *Pardosa chambaensis* Tikader and Malhotra, 1976*
- Himachal Pradesh (Tikader and Malhotra, 1976, 1980; Sen et al., 2015; Dhali et al., 2016)
- Kerala (Sumesh and Sudhikumar, 2020)
- West Bengal (Majumder, 2004 a, 2005; Sen et al., 2015; Dhali et al., 2012, 2016, 2017)

113. *Pardosa condolens* (O. Pickard-Cambridge, 1885)
- Jammu and Kashmir (Caporiacco, 1935)
Elsewhere: Central Asia, Iran

114. *Pardosa debolinae* Majumder, 2004*
- Himachal Pradesh (Gravely, 1924; Tikader and Malhotra, 1980; Dhali et al., 2016)
- Punjab (Tikader and Malhotra, 1980; Dhali et al., 2016)
- Sikkim (Tikader, 1970; Tikader and Malhotra, 1980; Dhali et al., 2016)
- Uttar Pradesh (Dhali et al., 2016)
- Uttar Pradesh (Tikader and Malhotra, 1980)

115. *Pardosa duplicata* Saha et al., 1994*
- Maharashtra (Rithe, 2012)
- West Bengal (Saha et al., 1994; Dhali et al., 2012, 2016)

116. *Pardosa flavisterna* Caporiacco, 1935*
- Jammu and Kashmir (Caporiacco, 1935; Punjoo and Bhat, 2015; Dhali et al., 2016)

117. *Pardosa fletcheri* (Gravely, 1924)*
- Gujarat (Patel and Pillai, 1988)
- Himachal Pradesh (Gravely, 1924; Tikader and Malhotra, 1980; Dhali et al., 2016)
- Punjab (Tikader and Malhotra, 1980; Dhali et al., 2016)
- Sikkim (Tikader, 1970; Tikader and Malhotra, 1980; Dhali et al., 2016)
- Uttar Pradesh (Dhali et al., 2016)
- Uttar Pradesh (Tikader and Malhotra, 1980)

118. *Pardosa fuscula* Thorell, 1875†
Elsewhere: Canada, USA

119. *Pardosa gopalai* Patel and Reddy, 1993*
- Andhra Pradesh (Patel and Reddy, 1993; Dhali et al., 2016)

120. *Pardosa haupti* Song, 1995
- Jammu and Kashmir (Marusik et al., 2014; Dhali et al., 2016)
Elsewhere: China

121. Pardosa heterophthalma (Simon, 1898)
- Andhra Pradesh (Majumder, 2005)
- Arunachal Pradesh (Biswas and Biswas, 2006)
- Gujarat (Siliwal, 2000; Yadav et al., 2017)
- Meghalaya (Biswas and Majumder, 1995; Biswas and Biswas, 2006)
- Odisha (Majumder, 2005)
- Rajasthan (Sivaperuman and Rathore, 2004)
- Tamil Nadu (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2006; Biswas and Majumder, 1995, 2000; Sen et al., 2015; Dhali et al., 2016)
- Tripura (Biswas and Majumder, 2000)
- Uttar Pradesh (Hore and Uniyal, 2008 a, b)
- West Bengal (Majumder, 2005)

Elsewhere: Bangladesh, Indonesia

122. Pardosa hydaspis Caporiacco, 1935*
- Jammu and Kashmir (Caporiacco, 1935; Dhali et al., 2016)

123. Pardosa jabalpurensis Gajbe and Gajbe, 1999*
- Chhattisgarh (Kujur and Ekka, 2016; Ekka and Kujur, 2015)
- Madhya Pradesh (Gajbe and Gajbe, 1999b; Gajbe P, 2003; Patil, 2012; Dhali et al., 2016)
- Maharashtra (Rithe, 2012)

124. Pardosa kalpiensis Gajbe, 2004*

125. Pardosa kupupa (Tikader, 1970)*
Syn. Lycosa kupupa Tikader 1970
- Kerala (Sumesh and Sudhikumar, 2020)
- Sikkim (Tikader, 1970; Tikader and Malhotra, 1980; Sen et al., 2015; Dhali et al., 2016)
- Uttar Pradesh (Hore and Uniyal, 2008 a, b)
- West Bengal (Majumder, 2004 a, 2005; Talukdar and Majumder, 2008; Sen et al., 2015; Dhali et al., 2012, 2016)

Elsewhere: Bangladesh

126. Pardosa minuta Tikader and Malhotra, 1976
- Gujarat (Kumar and Shivakumar, 2006; Yadav et al., 2017)
- Himachal Pradesh (Tikader and Malhotra, 1976, 1980; Biswas and Biswas, 2004; Bastawade, 2008 b; Dhali et al., 2016)
- Jammu and Kashmir (Thakur et al., 1995)
- Kerala (Sebastian et al., 2005 a, 2011)
- Maharashtra (Biswas and Majumder, 1995; Biswas and Biswas, 2004)
- Manipur (Biswas and Biswas, 2004; Kananbala et al., 2018)
- Meghalaya (Biswas and Majumder, 1995; Biswas and Biswas, 2004)
- Uttar Pradesh (Hore and Uniyal, 2008 a, b)
- Uttarakhand (Biswas and Biswas, 2010)
- West Bengal (Majumder, 2005)

Elsewhere: Bangladesh
127. *Pardosa mukundi* Tikader and Malhotra, 1980*

- Arunachal Pradesh (Biswa and Biswas, 2006)
- Chhattisgarh (Kujur and Ekka, 2016)
- Gujarat (Patel and Pillai, 1988; Siliwal, 2000; Kumar and Shivakumar, 2004; Prajapati et al., 2016)
- Maharashtra (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2006; Meshram, 2011; Rithe, 2012; More and Sawant, 2013; Dhali et al., 2016)
- Odisha (Choudhury et al., 2019)
- Tamil Nadu (Umarani and Ummahakswari, 2013)
- Uttar Pradesh (Biswa and Biswas, 2010)
- West Bengal (Biswa and Biswas, 1992, 2006)

128. *Pardosa mysorensis* (Tikader and Mukerji, 1971)*

Syn. *Lycosa mysorensis* Tikader and Mukerji, 1971

- Arunachal Pradesh (Biswa and Biswas, 2006)
- Gujarat (Yadav et al., 2017)
- Karnataka (Tikader and Mukerji, 1971; Tikader and Malhotra, 1980; Biswas and Biswas, 2006; Dhali et al., 2016)
- Kerala (Rajeevan et al., 2019)
- West Bengal (Majumder, 2004 a, 2005; Nautiyal et al., 2017)

129. *Pardosa orcchaensis* Gajbe, 2004*

- Chhattisgarh (Gajbe UA, 2004; Dhali et al., 2016)

130. *Pardosa oriens* (Chamberlin, 1924)

- Madhya Pradesh (Keswani, 2014)
- Maharashtra (Keswani and Vankhede, 2014)
- Elsewhere: China, Japan, Okinawa

131. *Pardosa partita* Simon, 1885*

- Karnataka (Simon, 1885 a; Dhali et al., 2016)
- Madhya Pradesh (Gajbe and Singh, 1994)
- Maharashtra (Rithe, 2012; More and Sawant, 2013)
- Tamil Nadu (Hadole et al., 2015; Dhali et al., 2016)

132. *Pardosa pseudoannulata* (Bösenberg and Strand, 1906)

Syn. *Lycosa annandalei* Gravely, 1924; *Pardosa annandalei* (Gravely, 1924)

- Andhra Pradesh (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Majumder, 2004 a, 2005)
- Assam (Tikader, 1964; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Singh et al., 2012; Singh and Borkotoki, 2014; Basumary and Brahma, 2017)
- Bihar (Gravely, 1924; Tikader, 1964; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Yadav et al., 2016)
- Gujarat (Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Patle and Vyas, 2001; Patle, 2003 b; Kumar and Shivakumar, 2004; Trivedi, 2009; Parasharya and Pathan, 2013; Parmar and Patel, 2015; Yadav et al., 2017)
Jammu and Kashmir (Thakur et al., 1995; Khan, 2006)

Karnataka (Gravely, 1924; Tikader, 1964; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Nautiyal et al., 2017; Mubeen and Basavarajappa, 2018; Fernandes and Ganesh, 2020)

Kerala (Gravely, 1924; Tikader, 1964; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Patel, 2003 a; Sudhikumar et al., 2005 b; Sebastian et al., 2005 a; Mathew et al., 2014; Adarsh and Nameer, 2015, 2016; Dhali et al., 2016)


Maharashtra (Gravely, 1924; Tikader, 1964; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Keswani and Vankhede, 2014; Nerlekar et al., 2016)

Manipur (Tikader and Malhotra, 1980; Majumder, 2004 a; Kananbala et al., 2018)

Meghalaya (Tikader, 1964; Biswas and Majumder, 1995)

Mizoram (Chowdhury et al., 2017)

Odisha (Mohapatra et al., 2014; Palita, 2016)

Punjab (Tikader, 1964)

Rajasthan (Lawania and Trigunayat, 2015; Jangid et al., 2019; Malhotra et al., 2019)

Tamil Nadu (Gravely, 1924; Tikader, 1964; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Ganesh Kumar and Velusamy, 1996; Majumder, 2004 a; Dhali et al., 2016; Karthikeyani et al., 2017; Dharmaraj et al., 2018; Saranya et al., 2019; Caleb, 2020 b)

Telangana (Anitha and Vijay, 2016)

Uttar Pradesh (Khan and Misra, 2003; Anjali and Prakash, 2012; Singh and Singh, 2014; Sharma and Singh, 2018 a, b)

Uttarakhand (Quasin and Uniyal, 2011; Siddhu et al., 2020)

West Bengal (Gravely, 1924; Tikader, 1964; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Majumder, 2004 a, 2005; Dhali et al., 2012, 2016, 2017; Majumder and Talukdar, 2013; Sengupta et al., 2014)

Elsewhere: China, Indonesia, Japan, Korea, Laos, Pakistan, Philippines, Taiwan

133. *Pardosa pusiola* (Thorell, 1891)

Syn. *Lycosa pusiola* Thorell 1891

Arunachal Pradesh (Biswas and Biswas, 2006)

Chhattisgarh (Ekka and Kujur, 2015)

Gujarat (Kumar and Shivakumar, 2004)

Gujarat (Yadav et al., 2017)

Karnataka (Nautiyal et al., 2017)

Madhya Pradesh (Patil et al., 2013)

Rajasthan (Sivaperuman and Rathore, 2004; Jangid et al., 2019)

Tamil Nadu (Reimoser, 1934)

West Bengal (Tikader and Malhotra, 1980; Biswas and Biswas, 2006; Majumder and Talukdar, 2013; Sen et al., 2015; Dhali et al., 2012, 2016, 2017)

Elsewhere: Bangladesh, Bhutan, China, Indonesia, Laos, Nepal, Malaysia, Myanmar, Sri Lanka...
Lanka

134. *Pardosa ranjani* Gajbe, 2004*

- Chhattisgarh (Ekka and Kujur, 2015)
- Madhya Pradesh (Gajbe PU, 2004; Patil, 2012; Dhali *et al.*, 2016)
- Maharashtra (Rithe, 2012; More and Sawant, 2013)

135. *Pardosa rhenockensis* (Tikader, 1970)*

Syn. *Lycosa rhenockensis* Tikader, 1970

- Gujarat (Patel, 1971; Biswas and Biswas, 2007; Yadav *et al.*, 2017)
- Kerala (Dhali *et al.*, 2016)
- Madhya Pradesh (Patil *et al.*, 2013)
- Manipur (Kanabala *et al.*, 2018)
- Mizoram (Biswas and Biswas, 2007)
- Sikkim (Tikader, 1970; Tikader and Malhotra, 1980; Biswas and Biswas, 2007; Dhali *et al.*, 2016)
- Uttarakhand (Biswa and Biswas, 2010)
- West Bengal (Majumder, 2004 a, 2005)


Syn. *Lycosa shyamae* Tikader, 1970

- Gujarat (Siliwal *et al.*, 2003; Bhatt, 2014; Yadav *et al.*, 2017)
- Karnataka (Nautiyal *et al.*, 2017)
- Kerala (Sudhikumar, 2007)
- Sikkim (Tikader, 1970)
- Uttarakhand (Biswa and Biswas, 2010; Pooja *et al.*, 2019)
- West Bengal (Tikader, 1970; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Majumder, 2005; Majumder and Talukdar, 2013; Dhali *et al.*, 2016)

Elsewhere: Bangladesh, China

137. *Pardosa songosa* Tikader and Malhotra, 1976*

- Assam (Saha *et al.*, 2016)
- Karnataka (Nautiyal *et al.*, 2017)
- Rajasthan (Kaur *et al.*, 2014; Lawania and Trigunayat, 2015)
- Uttar Pradesh (Tikader and Malhotra, 1976, 1980; Sen *et al.*, 2015; Dhali *et al.*, 2016)

Elsewhere: Bangladesh, China

138. *Pardosa stellata* (O. Pickard-Cambridge, 1885)

- Jammu and Kashmir (Caporiacco, 1935)

Elsewhere: Central Asia, China,

139. *Pardosa suchismitae* Majumder, 2004*

- West Bengal (Majumder, 2004 b, c, 2005; Dhali *et al.*, 2016)

140. *Pardosa sumatrana* (Thorell, 1890)

Syn. *Lycosa sumatrana* Thorell, 1890

- Andaman and Nicobar Islands (Tikader, 1977 b; Bastawade and Khandal, 2006; Bastawade and Borkar, 2008)
- Andhra Pradesh (Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Rao *et al.*, 2005; Bastawade
and Borkar, 2008; Sen et al., 2015; Palem et al., 2016; Dhali et al., 2016)

- Arunachal Pradesh (Tikader and Malhotra, 1980; Biswas and Majumder, 1995, 2000; Biswas and Biswas, 2004, 2006; Bastawade and Borkar, 2008; Sen et al., 2015; Dhali et al., 2016)
- Assam (Tikader, 1977b; Singh et al., 2012; Singh and Borkotoki, 2014; Dhali et al., 2016)
- Bihar (Tikader, 1977b; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 2000; Bastawade and Borkar, 2008; Sen et al., 2015; Dhali et al., 2012, 2016, 2017)
- Chhattisgarh (Gajbe P, 2003; Gajbe and Sharma, 1994)
- Goa (Bastawade and Borkar, 2008; Dhali et al., 2016)
- Gujarat (Tikader and Malhotra, 1980; Patel and Pillai, 1988; Biswas and Majumder, 1995, 2000; Siliwal, 2000; Patel and Vyas, 2001; Siliwal et al., 2003; Patel, 2003b; Kumar and Shivakumar, 2004; Parasharya and Pathan, 2013; Bhatt, 2014; Sen et al., 2015; Yadav et al., 2017; Dhali et al., 2016)
- Haryana (Malik and Goyal, 2017)
- Himachal Pradesh (Tikader, 1977b; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995, 2000; Bastawade and Borkar, 2008; Sen et al., 2015; Dhali et al., 2016)
- Karnataka (Tikader, 1977b; Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Bastawade and Borkar, 2008; Sen et al., 2015; Dhali et al., 2016; Nautiyal et al., 2017)
- Kerala (Tikader, 1977b; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Sebastian et al., 2005a, b; Sudhikumar, 2007; Sunil Jose et al., 2008; Mathew et al., 2014; Adarsh and Nameer, 2015, 2016; Dhali et al., 2016)
- Madhya Pradesh (Tikader and Malhotra, 1980; Biswas and Majumder, 1995, 2000; Bastawade and Khandal, 2006; Bastawade and Borkar, 2008; Rithe, 2012; Dhali et al., 2016)
- Manipur (Biswas and Biswas, 2004; Sen et al., 2015; Kananbala et al., 2018)
- Meghalaya (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004; Biswas and Majumder, 1995, 2000; Bastawade and Borkar, 2008; Sen et al., 2015; Dhali et al., 2016)
- Odisha (Choudhury et al., 2019)
- Rajasthan (Tikader and Malhotra, 1980; Biswas and Majumder, 1995, 2000; Biswas and Biswas, 2004; Sivaperuman and Rathore, 2004; Chauhan et al., 2009; Sen et al., 2015; Dhali et al., 2016; Kumari et al., 2017)
- Tamil Nadu (Tikader, 1977b; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Bastawade and Borkar, 2008; Umarani and Umamaheswari, 2013; Sen et al., 2015; Dhali et al., 2016; Karthikeyani et al., 2017; Dharmaraj et al., 2018)
- Telangana (Sailu et al., 2017)
- Tripura (Tikader and Biswas, 1981; Biswas and Majumder, 1995; Biswas and Biswas, 2004; Majumder, 2004a, 2005)
- Uttar Pradesh (Tikader, 1977b; Singh and Singh, 2014; Kumar et al., 2017; Sharma and
Singh, 2018 a, b)
- Uttarakhand (Biswas and Biswas, 2010; Quasin and Uniyal, 2011; Siddhu et al., 2020)
- West Bengal (Tikader, 1977 b; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Saha et al., 1994; Biswas and Majumder, 1995, 2000; Majumder, 2004 a, 2005; Bastawade and Borkar, 2008; Majumder and Talukdar, 2013; Sen et al, 2015; Dhali et al., 2016, 2017)

Elsewhere: Bangladesh, Bhutan, China, Indonesia, Myanmar, Nepal, Philippines, Sri Lanka

141. Pardosa sutherlandi (Gravely, 1924)
Syn. Lycosa sutherlandi Gravely, 1924
- Gujarat (Yadav et al., 2017)
- Jammu and Kashmir (Khan, 2006)
- Maharashtra (Rithe, 2012; Lu et al., 2016)
- Meghalaya (Biswas and Majumder, 1995)
- Tripura (Biswas and Majumder, 2000)
- West Bengal (Gravely, 1924; Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995, 2000; Majumder, 2004 a, 2005; Majumder and Talukdar, 2013; Dhali et al., 2016)

Elsewhere: Nepal

142. Pardosa tappaensis Gajbe, 2004*
- Chhattisgarh (Gajbe UA, 2004; Dhali et al., 2016)

143. Pardosa thalassia (Thorell, 1891)*
Syn. Lycosa thalassia Thorell 1891
- Andaman and Nicobar Islands (Thorell, 1891; Dhali et al., 2016)

144. Pardosa tikaderi Arora and Monga, 1994*
- Haryana (Arora and Monga, 1994; Dhali et al., 2016)

145. Pardosa timidula (Roewer, 1951)
Syn. Lycosa timida Simon, 1882; Pardosa timida (Simon, 1882)
- Chhattisgarh (Kujur and Ekka, 2016)
- Gujarat (Yadav et al., 2017)
- Maharashtra (Patil et al., 2013)
- Manipur (Biswas and Biswas, 2004; Kananbala et al., 2018)
- Uttar Pradesh (Hore, 2009; Uniyal and Hore, 2009)

Elsewhere: Pakistan, Sri Lanka, Yemen

146. Pardosa tridentis Caporiacco, 1935
Syn. Lycosa tatensis Tikader, 1964; Pardosa tatensis (Tikader, 1964)
- Arunachal Pradesh (Biswas and Biswas, 2006)
- Gujarat (Siliwal et al., 2003; Yadav et al., 2017)
- Jammu and Kashmir (Caporiacco, 1935; Sen et al., 2015; Dhali et al., 2016)
- Uttarakhand (Sen et al., 2015; Dhali et al., 2016)
- West Bengal (Dhali et al., 2012, 2016, 2017; Sen et al., 2015)

Elsewhere: Nepal

147. Pardosa vagula (Thorell, 1890)
Syn. Lycosa vagula Thorell, 1890
- Tamil Nadu (Reimoser, 1934)

Elsewhere: Indonesia

148. Pardosa vindicata (O. Pickard-Cambridge, 1885)
• Jammu and Kashmir (Caporiacco, 1935; Dhali et al., 2016)

Elsewhere: China

149. Pardosa sp.
• Andhra Pradesh (Palem et al., 2016)
• Arunachal Pradesh (Chetry and Moran, 2019)
• Assam (Das et al., 2015; Basumatary and Brahma, 2017)
• Bihar (Priyadarshini et al., 2015)
• Chhattisgarh (Mishra and Shrivastava, 2002; Ekka and Kujur, 2015)
• Goa (Pandit and Dharwadkar, 2020)
• Gujarat (Patel and Vyas, 2001; Parasharya and Pathan, 2013; Parmar et al., 2015; Yadav et al., 2017)
• Jammu and Kashmir (Khan, 2009; Punjoo and Bhat, 2015)
• Karnataka (Gravely, 1924; Tikader, 1966; Tikader and Malhotra, 1980; Majumder, 2004 a; Dhali et al., 2016)

150. Pirata sp.†
• Bihar (Goswami et al., 2015)

151. Schizocosa concolor (Caporiacco, 1935)*
Syn. Hogna concolor Caporiacco, 1935
• Jammu and Kashmir (Caporiacco, 1935; Dhali et al., 2016)

152. Schizocosa sp.
• Maharashtra (Keswani and Vankhede, 2014)

153. Shapna pluvialis Hippa and Lehtinen, 1983*
• Meghalaya (Hippa and Lehtinen, 1983; Dhali et al., 2016)

154. Trochosa gunturensis Patel and Reddy, 1993*
• Andhra Pradesh (Patel and Reddy, 1993; Dhali et al., 2016)
• Maharashtra (Rithe, 2012; More and Sawant, 2013)

155. Trochosa himalayensis Tikader and Malhotra, 1980*
• Uttar Pradesh (Hore and Uniyal, 2008 a, b)
• Uttarakhand (Tikader and Malhotra, 1980; Biswas and Biswas, 2010; Dhali et al., 2016)

156. Trochosa propinqua O. Pickard-Cambridge, 1885*
• Jammu and Kashmir (Pickard-Cambridge, 1885; Caporiacco, 1935)

157. Trochosa punctipes (Gravely, 1924)*
Syn. Crocodilosa punctipes (Gravely, 1924); Lycosa punctipes Gravely, 1924
• Bihar (Gravely, 1924; Tikader, 1966; Majumder, 2004 a, 2005)
• Karnataka (Gravely, 1924; Tikader, 1966; Tikader and Malhotra, 1980; Majumder, 2004 a; Dhali et al., 2016)
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- Kerala (Sudhikumar, 2007; Mathew et al., 2014)
- Maharashtra (Tikader, 1966)
- Rajasthan (Tikader, 1966)
- Tamil Nadu (Gravely, 1924; Karthikeyani et al., 2017)
- Uttar Pradesh (Gravely, 1924; Tikader, 1966; Majumder, 2004 a, 2005)
- Uttar Pradesh (Hore and Uniyal, 2008 a, b)
- Uttarakhand (Uniyal et al., 2011)

161. **Wadicosa fidelis** (O. Pickard-Cambridge, 1872)

Syn. *Lycosa birmanica* (Simon, 1844); *Pardosa bhatnagari* Sadana, 1971; *Pardosa birmanica* Simon, 1844 (m.i. by Tikader and Malhotra, 1980, Tikader and Biswas, 1981; Gajbe P, 2007; Sen et al., 2015 following Kronestedt, 2017); *Wadicosa bhatnagari* (Sadana, 1971)

- Andaman and Nicobar Islands (Tikader, 1977 b)
- Andhra Pradesh (Tikader and Malhotra, 1980; Biswas and Biswas, 1992; Biswas and Majumder, 1995; Rao et al., 2005; Bastawade and Khandal, 2006; Biswas and Biswas, 2006; Palem et al., 2016; Dhali et al., 2016)
- Arunachal Pradesh (Biswas and Biswas, 2006)
- Assam (Tikader, 1977 b; Singh et al., 2012; Singh and Borkotoki, 2014)
- Bihar (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004, 2006; Biswas and Majumder, 1995; Majumder, 2004 a; Bastawade and Khandal, 2006; Sen et al., 2015; Dhali et al., 2016)
- Chhattisgarh (Tikader and Biswas, 1981; Gajbe P, 2003; Gajbe and Sharma, 1994; Kujur and Ekka, 2016)
- Delhi (Malik et al., 2015)
- Gujarat (Tikader and Malhotra, 1980; Patel and Pillai, 1988; Biswas and Majumder, 1995; Siliwal, 2000; Patel and Vyas, 2001; Patel, 2003 b; Biswas and Biswas, 2004, 2006; Kumar and Shivakumar, 2004, 2006; Trivedi, 2009; Parasharya and Pathan, 2013; Parmar
and Patel, 2015; Parmar et al., 2015; Dhali et al., 2016; Yadav et al., 2017; Yadav and Kumar, 2019)

- Haryana (Malik and Goyal, 2017)
- Himachal Pradesh (Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2006; Biswas and Majumder, 1995; Bastawade and Khandal, 2006; Sen et al., 2015; Dhali et al., 2016)
- Jammu and Kashmir (Sharma and Sharma, 1977; Thakur et al., 1995; Khan, 2006)
- Jharkhand (Tikader and Malhotra, 1980)
- Karnataka (Tikader, 1966; Biswas and Biswas, 1992, 2006; Nautiyal et al., 2017; Fernandes and Ganesh, 2020)
- Kerala (Patel, 2003 a; Adarsh and Nameer, 2015; Sumesh and Sudhikumar, 2020)
- Maharashtra (Tikader, 1966; Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004, 2006; Biswas and Majumder, 1995; Bastawade and Khandal, 2006; Meshram, 2011; Rithe, 2012; More and Sawant, 2013; Keswani and Vankhede, 2014; Sen et al., 2015; Dhali et al., 2016; Lu et al., 2016)
- Manipur (Biswas and Biswas, 2004; Kananbala et al., 2018)
- Meghalaya (Tikader and Malhotra, 1980; Biswas and Majumder, 1995; Majumder, 2004 a; Biswas and Biswas, 2006, 2007; Sen et al., 2015; Dhali et al., 2016)
- Mizoram (Biswas and Biswas, 2007)
- Odisha (Tikader, 1977 b; Tikader and Malhotra, 1980; Biswas, 1987; Biswas and Biswas, 1992, 2004, 2006; Biswas and Majumder, 1995; Majumder, 2004 a; Bastawade and Khandal, 2006; Panda et al., 2011; Sen et al., 2015; Dhali et al., 2016; Palita, 2016)
- Punjab (Tikader and Malhotra, 1980; Kumari, 1983; Biswas and Biswas, 1992, 2006; Biswas and Majumder, 1995; Bastawade and Khandal, 2006; Sen et al., 2015; Dhali et al., 2016)
- Rajasthan (Tikader, 1966; Tikader and Malhotra, 1980; Tikader and Biswas, 1981; Biswas and Biswas, 1992, 2004, 2006; Majumder, 2004 a; Sen et al., 2015; Kaur et al., 2014; Lawania and Trigunayat, 2015; Dhali et al., 2016; Jangid et al., 2019; Jangid et al., 2019)
- Tamil Nadu (Tikader, 1977 b; Tikader and Malhotra, 1980; Biswas and Biswas, 1992, 2004, 2006; Biswas and Majumder, 1995; Majumder, 2004 a; Karthikeyani, 2013; Umarani and Umamaheswari, 2013; Sen et al., 2015; Dhali et al., 2016, 2017; Karthikeyani et al., 2017; Saranya et al., 2019; Caleb, 2020 b)
- Telangana (Rao et al., 2005; Sailu et al., 2017)
- Tripura (Sen et al., 2015)
- Uttar Pradesh (Tikader, 1966; Biswas and Biswas, 1992, 2004, 2006; Biswas and Majumder, 1995; Khan and Misra, 2003; Hore and Uniyal, 2008 a, b, c; Anjali and Prakash, 2012; Lawania and Mathur, 2014; Singh and Singh, 2014; Dhali et al., 2016; Sharma and Singh, 2018 a, b)
- Uttarakhand (Tikader and Malhotra, 1980; Biswas and Biswas, 2010; Gupta and Siliwal, 2012)
- West Bengal (Tikader, 1966; Tikader and

Elsewhere: Bangladesh, Caucasus, Central Asia, Europe, Indonesia; Japan, Macaronesia, Middle East, North Africa, Pakistan, Philippines, Southern China

162. **Wadicosa ghatica** Kronestedt, 2017*
- Karnataka (Kronestedt, 2017)
- Kerala (Kronestedt, 2017)

163. **Wadicosa prasantae** Ahmed et al., 2014*
- Assam (Ahmed et al., 2014; Dhali et al., 2016)

164. **Wadicosa quadrifera** (Gravely, 1924)

Syn. *Lycosa quadrifera* Gravely, 1924
- Karnataka (Gravely, 1924; Tikader and Malhotra, 1980; Dhali et al., 2016)
- Kerala (Tikader and Malhotra, 1980; Kronestedt, 1993, 2017; Patel, 2003 a; Sunil Jose et al., 2008; Adarsh and Nameer, 2016; Dhali et al., 2016)
- Maharashtra (More and Sawant, 2013)
- Rajasthan (Malhotra et al., 2019)
- Tamil Nadu (Gravely, 1924; Tikader and Malhotra, 1980; Dhali et al., 2016; Karthikeyani et al., 2017; Caleb, 2020 a)
- Uttarakhand (Biswas and Biswas, 2010)

Elsewhere: Sri Lanka

165. **Zoica puellula** (Simon, 1898)

Syn. *Flanona puellula* Simon, 1898
- Kerala (Sankaran and Sebastian, 2017)
- Maharashtra (More and Sawant, 2013)
- West Bengal (Majumder, 2004 a, 2005, 2007)

Elsewhere: Sri Lanka

II. Checklist of Wolf Spiders (Lycosidae) in Indian States


- **Assam:** Evippa praelongipes, Evippa rubiginosa, Hippasa himalayensis, Hogna himalayensis, Lycosa carmichaeli, Lycosa kempi, Lycosa mackenziei, Lycosa nigrotibialis, Lycosa phipsoni, Lycosa thoracica, Lycosa tista, Pardosa pseudoannulata, Pardosa songosa, Pardosa sumatrana, Trochosa urbana, Wadicosa fidelis, Wadicosa prasantae

- **Bihar:** Arctosa khudiensis, Crocodilosa leucostigma, Draposa atropalpis, Draposa
burasantiensis, Draposa oakleyi, Hippasa pisaurina, Hogna stictopyga, Lycosa bistriata, Lycosa mackenziei, Lycosa madani, Lycosa nigrotibialis, Ocyale pilosa, Pardosa pseudoannulata, Pardosa sumatran, Pirata sp., Trochosa punctipes, Wadicosa fidelis

**Chhattisgarh:** Arctosa himalayensis, Arctosa indica, Draposa amkhasensis, Draposa porpaensis, Hippasa agelenoides, Hippasa greenalliae, Hippasa hansae, Hippasa partita, Lycosa bistriata, Lycosa jagadalpurensis, Lycosa nigrotibialis, Lycosa poonaensis, Lycosa shaktae, Pardosa bargaonensis, Pardosa bastarensis, Pardosa jabalpurensis, Pardosa mukundi, Pardosa orchaensis, Pardosa pusiola, Pardosa ranjani, Pardosa sumatran, Pardosa tappaensis, Pardosa timidula, Wadicosa fidelis

**Goa:** Hippasa agelenoides, Hippasa greenalliae, Hippasa olivacea, Hippasa pisaurina, Lycosa carmichaeli, Lycosa mahabaleshwarensis, Lycosa phipsoni, Lycosa tista, Pardosa sumatran


**Haryana:** Hippasa haryanensis, Pardosa tikaderi, Lycosa mackenziei, Pardosa sumatran, Wadicosa fidelis

**Himachal Pradesh:** Arctosa sp., Evippa sohani, Evippa solanensis, Hippasa himalayensis, Lycosa nigrotibialis, Pardosa chambensis, Pardosa fletcheri, Pardosa minuta, Pardosa sumatran, Wadicosa fidelis

**Jharkhand:** Lycosa carmichaeli, Lycosa mahabaleshwarensis, Wadicosa fidelis


**Kerala:** Arctosa khudiensis, Crocodilosa leucostigma, Draposa amkhasensis, Draposa atropalpis, Draposa lyrivulva, Draposa oakleyi, Evippa banarensis, Hippasa agelenoides,


- **Meghalaya**: Arctosa khudiensis, Arctosa mulani, Evippa banarensis, Evippa praelongipes, Hippasa himalayensis, Hippasa lycosina, Hippasa madraspatana, Hogna himalayensis, Lycosa barnesi, Lycosa
carmichaeli, Lycosa geotubalis, Lycosa iranii, Lycosa kempi, Lycosa mackenziei, Lycosa nigrotibialis, Lycosa shillongensis, Margonia himalayensis, Ocyale pilosa, Pardosa heterophthalma, Pardosa minuta, Pardosa pseudoannulata, Pardosa sumatran, Pardosa sutherlandi, Shapna pluvialis, Wadicosa fidelis

- **Mizoram**: Draposa amkhasensis, Draposa oakleyi, Hippasa olivacea, Hippasa partita, Lycosa poonaensis, Lycosa shillongensis, Lycosa tista, Pardosa pseudoannulata, Pardosa rhenockensis, Wadicosa fidelis

- **Odisha**: Arctosa sp., Crocodilosa leucostigma, Draposa atropalpis, Draposa burasantiensis, Draposa lyrivulva, Draposa oakleyi, Evippa sp., Geolycosa sp., Hippasa agelenoides, Hippasa greenalliae, Hippasa partita, Hogna lenta, Lycosa iranii, Lycosa mackenziei, Lycosa madani, Lycosa pipsoni, Lycosa prolifica, Ocyale pilosa, Pardosa heterophthalma, Pardosa mukundi, Pardosa pseudoannulata, Pardosa sumatran, Wadicosa fidelis

- **Punjab**: Draposa oakleyi, Evippa praelongipes, Hippasa agelenoides, Hippasa haryanensis, Hogna stictopyga, Lycosa bhatnagari, Lycosa chaperi, Lycosa mackenziei, Lycosa prolifica, Lycosa wroughtoni, Pardosa fletcheri, Pardosa pseudoannulata, Wadicosa fidelis


- **Sikkim**: Hippasa greenalliae, Lycosa carmichaeli, Lycosa kempi, Lycosa nigrotibialis, Lycosa tista, Pardosa fletcheri, Pardosa kupupa, Pardosa rhenockensis, Pardosa shyamae


- **Telangana**: Draposa atropalpis, Hippasa agelenoides, Hippasa olivacea, Lycosa nigrotibialis, Pardosa pseudoannulata, Pardosa sumatran, Wadicosa fidelis

- **Tripura**: Hippasa greenalliae, Hippasa holmerae, Lycosa mackenziei, Lycosa pipsoni, Ocyale pilosa, Pardosa heterophthalma, Pardosa sumatran, Pardosa sutherlandi, Wadicosa fidelis

pseudoannulata, Pardosa songosa, Pardosa sumatrana, Pardosa timidula, Trochosa himalayensis, Trochosa punctipes, Trochosa urbana, Wadicosa fidelis


III. Checklist of Wolf Spiders (Lycosidae) in Union Territories of India

**Andaman & Nicobar Islands:** Draposa nicobarica, Draposa nicobarica, Pardosa sumatrana, Pardosa thalassia, Wadicosa fidelis

**Delhi:** Hippasa lycosina, Lycosa iranii, Wadicosa fidelis

• **Ladakh:** *Hogna irascibilis, Pardosa algoides, Pardosa alii*

• **Puducherry:** *Lycosa indagatrix*

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