



Review Article

## DIVERSITY AND DISTRIBUTION OF CRAB SPIDERS (THOMISIDAE: ARANEOMORPHAE: ARANEAE: ARACHNIDA) IN INDIA

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### ABSTRACT

The article deals with the faunal diversity of the crab spiders (Thomisidae: Araneomorphae: Araneae: Arachnida) in different states of India and the union territories. A total of 210 species belonging to 44 genera of Thomisidae was recorded in all states and the union territories of India except for Nagaland and Dadra & Nagar Haveli and Daman & Diu, out of which 143 species (68.4%) were strictly endemic. However, among them, 6 species seem to be the case of erroneous report or misidentification. Two genera of crab spiders are highly speciose, e.g. *Thomisus* Walckenaer, 1805 (53 species) and *Xysticus* C.L. Koch, 1835 (25 species). A maximum of 74 species of these crab spiders was recorded from Maharashtra followed by 55 species from Madhya Pradesh, 52 species from West Bengal, 40 species from Kerala, 34 species each from Gujarat and Tamil Nadu, 33 species from Karnataka, 32 species from Chhattisgarh and Uttarakhand, 23 species from Meghalaya, 21 species each from Jammu & Kashmir and Uttar Pradesh, 17 species from Assam, 14 species from Rajasthan, 12 species each from Andaman & Nicobar Islands, Goa and Manipur, 11 species from Odisha and less than 10 species were recorded from other states. Seven species are considerably widely distributed, viz. *Camarius formosus* Thorell, 1887 (17 states, 2 union territories), *Indoxysticus minutus* (Tikader, 1960) (16 states), *Runcinia insecta* (L. Koch, 1875) (15 states, 2 union territories), *Thomisus projectus* Tikader, 1960 (14 states, 1 union territories), *Thomisus pugilis* Stoliczka, 1869 (13 states, 2 union territories), *Amyciaea forticeps* (O. Pickard-Cambridge, 1873) (12 states, 1 union territory) and *Thomisus lobosus* Tikader, 1965 (12 states, 1 union territories). Several species of Thomisidae reported from India are recorded only from one state or from the type locality. Hence, intensive and extensive faunistic surveys for these spiders are required throughout the country.

**Keywords:** Thomisidae, Checklist, Faunal distribution, Crab spiders, India.

### INTRODUCTION

The spiders (Araneae: Arthropoda: Chelicerata: Arachnida) are among the most frequent and abundant predators in the terrestrial ecosystem throughout the world. They not only devour lots of prey, mostly insects, but also serve as a food source for many carnivore animals (Nyffeler & Birkhofer, 2017) and are very important component of the ecosystem. Their biodiversity ranks seventh in global diversity (49,483 species, 4,217 genera, 129 families, WSC, 2021) after Coleoptera, Lepidoptera, Hymenoptera, Diptera, Hemiptera and Acari (Singh *et al.*, 2021). Except for few species, most of the spiders are not harmful to human beings; still, public opinion is not to their favour. Even the diversity studies are limited only in few localities. Despite recent researches on

the faunistic biodiversity surveys of Indian spiders, their number is meagre and only 1867 species belonging to 475 genera are listed by Caleb & Sankaran (2021) despite having very rich biodiversity and a tropical climate with biodiversity hotspots. Recently, the species distribution and checklist of 65 families of spiders have been updated in India (Akhilesh Sharma *et al.*, 2020; Sharma *et al.*, 2020; Singh *et al.*, 2021; Singh, 2021; Singh, & Singh, 2021; Rajendra Singh *et al.*, 2020; Singh *et al.*, 2020a, 2020b; Singh *et al.*, 2021; Tiwari *et al.*, 2021; Tiwari & Singh, 2021; Tiwari *et al.*, 2021).

Thomisidae Sundevall, 1833 is an araneomorph, entelegyne (females have a genital plate), and stout cribellate (spin sticky seizure silk) spider family which is

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distributed throughout the world. These spiders are commonly known as the crab spiders, flower spiders or flower crab spiders because of crab-like appearance. Presently, the family is the seventh largest family with 2155 known species in 170 genera after Salticidae (6346 species, 658 genera), Linyphiidae (4706 species, 620 genera) and Araneidae (3066 species, 177 genera), Gnaphosidae (2580 species, 163 genera), Theridiidae (2531 species, 124 genera) and Lycosidae (2431 species, 125 genera) (WSC, 2021). However, this diversity is only a fraction of its true diversity (Benjamin, 2011). The crab spiders have larger and stronger front legs than the other six and are held sideways and hold on to prey while paralyzing it with a venomous bite. Like crabs, it can move sideways. They are cryptically coloured and usually 4-10 mm in length. The cephalothorax and abdomen of crab spiders are usually short and broad. Eight homogeneously coloured eyes are arranged in two transverse rows of four each, however, in life, the anterior median eyes appear lighter than the others. Other distinguishing characters are free chelicerae, bear two dentate tarsal claws on each laterigrade leg, one pair of book lungs and absence of cribellum and calamistrum (Tikader, 1971). The crab spiders also mimic ants of taxonomically diverse groups. Few species of crab spiders are social and mothers take care of spiderlings (Benjamin, Dimitrov, Gillespie, & Hormiga, 2008). Most of the species are found on vegetation but some occur on dead bark, on the ground, or in leaf detritus. These spiders do not build web, rather capture the prey by ambushing and sometimes by active pursuit. The crab spiders are not active hunters but are sit-and-wait predators that hunt in flowers, foliage, or leaf litter. They remain impassive until the prey arrives and catches it. Few crab spiders with flattened bodies either hunt in the crevices of tree trunks or under loose bark, or shelter under such crevices by day and come out at night to hunt (Tikader, 1971). Most of the species of Thomisidae are sexually dimorphic, males are sometimes much smaller than females. The females usually look after their egg sacs which are fastened to the vegetation until the spiderlings hatch. Benjamin (2011) studied the phylogeny of Thomisidae genera using morphological characters, the monophyly of internal groupings and subfamilies and explored the evolution of colour change behaviour and the eye arrangement patterns of the median ocular quadrangle in light of the preferred phylogenetic hypothesis.

The spiders play an important role in most terrestrial foodwebs and may be very abundant in several habitats. Moreover, despite the ecological significance of spiders in terrestrial ecosystems, they have received very little attention as far as their conservation is concerned, particularly for thomisid spiders. Among the thomisid spiders, only 2 species are listed as critically endangered in IUCN Red List of Threatened Animals: *Bonapruncinia sanctaehelenae* Benoit, 1977 (White *et al.*, 2019) and *Bassaniodes grohi* (Wunderlich, 1992) (Cardoso *et al.*, 2018) found only in St. Helena (territory of UK) and Madeira (an autonomous region of Portugal), respectively; and one species *Firmicus insularis* (Blackwall, 1877) found only in Seychelles is listed as endangered (Gerlach, 2014).

Information regarding the Indian Thomisidae 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 (Singh, 2021a-e). 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 literature without a re-examination of the corresponding type materials and without consulting any spider taxonomist. Hence, these reports need re-examination. At present the faunal survey results of crab spiders are all scattered in the literature and so far no updated consolidated account is available regarding their distribution pattern across the country. Therefore, this present work was carried out to make available an up-to-date checklist of Indian Thomisidae like other families (Singh, 2021a-d; Singh & Singh, 2021a, b; Tiwari *et al.*, 2021a, b) in different states and the union territories of India.

## MATERIALS AND METHODS

The present checklist is based on the published literature on spiders from India in recent past books, book chapters, journals, proceedings, records of Zoological Survey of India, Kolkata, few authentic theses, websites, and World Species Catalog (WSC, 2021) up to May 20, 2021. Some references to the faunistic surveys by Indian authors were omitted because of the repetition of the location. In most of the literature published earlier, several errors crept in the scientific names of the spiders even in the recent ones. This occurred because such information as soon becomes obsolete and, due to their perceived understanding, readers occasionally do not take into account new sources of data.

The researches on spider taxonomy like other taxa are continued with the description of new taxa, their modified status, and the publication of other nomenclatural decisions and clarifications (WSC, 2021; Singh, 2021a-e). 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 that state. In the present checklist, attempts have been made to correct the errors in the scientific names of the spiders following WSC (2021). Only those synonymies were given that were reported in India, for other synonymies, WSC (2021) should be consulted. Only those species were considered endemic that were exclusively found only in India and such species are marked with (\*). If the spider species is not endemic, its elsewhere distribution is also given following the WSC (2021) and other sources of literature. Seemingly, misidentified and erroneous records are marked with (†). The checklist includes species in alphabetical order. For each species, authority, year and distribution details of species in different states and union territories along with relevant references are given.

## RESULTS AND DISCUSSION

In India, most probably Stoliczka (1869) was first to describe three species of crab spiders, *Thomisus elongatus*

and *Thomisus pugilis* from West Bengal, and *Phrynarachne peeliana* from Assam. Thereafter, O. Pickard-Cambridge (1885) described three species, *Tmarus dejectus* and *Xysticus mundulus* from Jammu & Kashmir; and *Xysticus breviceps* from Ladakh. In the same year, Simon (1885a, b) described *Diaea pougneti* (Simon, 1885b) and *Ozyptila theobaldi* (Simon, 1885b) from Tamil Nadu, and *Stiphropus duriusculus* (Simon, 1885a) from Karnataka. Later on, Thorell (1891) described *Runcinia kinbergi* and *Thomisus armillatus* from Andaman & Nicobar Islands; Simon (1895a, b) described four species from Tamil Nadu (*Dietopsa castaneifrons*, *Dietopsa parnassia*, *Holopelus malati*, *Lycopus trabeatus* and *Lysiteles catulus*) and one species from Sikkim (*Runcinia bifrons*).

At the beginning of the 20<sup>th</sup> century, Pocock (1901) described one species of crab spider, *Angaeus pentagonalis* from Tamil Nadu; and Leardi in Airaghi (1901a, b) recorded three species of crab spiders, one species from Uttarakhand, *Thomisus dentiger* (Thorell, 1887) and two species from Puducherry, *Thomisus spectabilis* Doleschall, 1859 and *Xysticus cristatus* (Clerck, 1757). Within five years, Simon (1906) described six species, three from Tamil Nadu (*Oxytate chlorion*, *Thomisus leucaspis*, *Thomisus rigoratus*); and one each from Puducherry (*Tmarus fasciolatus*), Kerala (*Tmarus soricinus*) and Himalayan plateaus (*Loxobates castetsi*). After a decade, Sherriffs (1929) recorded nine species of crab spiders from Andaman & Nicobar Islands (1 species), Karnataka (1 species), Tamil Nadu (6 species) and West Bengal (1 species). After about three decades, Reimoser (1934) described *Runcinia escheri* from Tamil Nadu and Caporiacco (1935) described and recorded few species of crab spiders from Jammu & Kashmir. Among the Indian authors, Tikader (1960) was the first to describe six species of crab spiders, two species each from Assam (*Indoxysticus minutes*, *Thomisus projectus*) and Gujarat (*Thomisus bulani*, *Thomisus dhakuriensis*) and one species each from Chhattisgarh (*Synema decoratum*) and Meghalaya (*Ozyptila khasi*). Later, several authors (Tikader, 1961, 1962, 1963, 1964, 1965, 1966a, b, 1968, 1970, 1971, 1980; Basu, 1963, 1964a, b, 1965a, b, 1979; Sen, 1963, 1964; Sen & Basu, 1963; Tikader & Biswas, 1974, 1979; Biswas, 1977; Biswas & Mazumder, 1981; Gajbe & Rane, 1992; Reddy & Patel, 1992; Kumari & Mittal, 1994, 1997, 1999; Gajbe & Gajbe, 1999a, b, 2000a, b) have described and recorded about one hundred species of crab spiders from several parts of India. Long back, Tikader (1971, 1980) had nicely illustrated and documented the Thomisidae of India. In the present century, several workers have described 41 species of crab spiders from India, 25 species from Madhya Pradesh (Bhandari & Gajbe, 2001; Gajbe, 2004a, 2004d, 2005, 2008a, b); 8 species from West Bengal (Saha & Raychaudhuri, 2004, 2007a, b; Sen *et al.*, 2010b, 2012); 3 species from Kerala (Patel, 2003a; Biswas & Roy, 2005a, b); 2 species from Tamil Nadu (Benjamin, 2017); and one species each from Andhra Pradesh (Rao *et al.*, 2006), Maharashtra (Bastawade, 2002) and Telangana (Pravalikha & Srinivasulu, 2015). In addition, in the present century, several workers have recorded many species of Thomisidae across India in survey programmes.

At present, 210 species belonging to 44 genera were described or recorded from India during the last 153 years (1869-2021), out of which, 143 species (68.1%) were strictly endemic, i.e. described and recorded only in India while few more species were described from India but were also later recorded in neighbouring countries. However, the Indian record is only 9.7% of the world Thomisidae fauna (2154 species placed in 169 genera (WSC, 2021). All these spiders were distributed in all the Indian states except Nagaland and Dadra and Nagar Haveli and Daman and Diu (Figure 1). Six species marked with (†) seem to be erroneous report or the case of misidentification. One species, *Misumena oblonga* O. Pickard-Cambridge, 1885 was collected by its author from Murree (Pakistan) to Sind Valley (Jammu & Kashmir), however, its distribution is mentioned in Yarkand (China) by WSC (2021). Similarly, *Runcinia spinulosa* O. Pickard-Cambridge (1885) was recorded only from Murree (Pakistan) but it is included in the checklists of Indian spiders (Siliwal *et al.*, 2005; Keswani *et al.*, 2012; Caleb & Sankaran, 2021; WSC, 2021). This species is excluded from this checklist. Surprisingly, one species of crab spider, *Misumena chrysanthemii* Sebastian & Peter, 2009 which is an invalid species (Zschokke & Logunov, 2010; WSC, 2021), still it was identified and recorded by several workers in different states (Assam-Singh *et al.*, 2012; Pandit, 2019; Bihar-Priyadarshini *et al.*, 2015; Kerala-Asima *et al.*, 2020; Maharashtra-Nerlekar *et al.*, 2016). Caleb & Sankaran (2021) recently enlisted only 181 species of Thomisidae described under 40 genera and the rest of the species recorded in India are either overlooked by them or are cases of misidentification and erroneous reports.

Two genera of crab spiders are highly speciose, e.g. *Thomisus* Walckenaer, 1805 (53 species) and *Xysticus* C.L. Koch, 1835 (25 species). A maximum of 74 species of these crab spiders was recorded from Maharashtra followed by 55 species from Madhya Pradesh, 52 species from West Bengal, 40 species from Kerala, 34 species each from Gujarat and Tamil Nadu, 33 species from Karnataka, 32 species from Chhattisgarh and Uttarakhand, 23 species from Meghalaya, 21 species each from Jammu & Kashmir and Uttar Pradesh, 17 species from Assam, 14 species from Rajasthan, 12 species each from Andaman & Nicobar Islands, Goa and Manipur, 11 species from Odisha and less than 10 species were recorded from other states (Figure 1). No species of crab spider is recorded from Nagaland and Dadra and Nagar Haveli and Daman and Diu. Surprisingly, a very poor record of these spiders was in Andhra Pradesh, Bihar, Himachal Pradesh, Jharkhand, and Telangana. Indeed, no survey was conducted in these regions and hence, it requires an intensive and extensive faunistic survey in these areas. Most of the surveys were conducted in Madhya Pradesh, Gujarat, Maharashtra, Kerala, Tamil Nadu and West Bengal. Out of 210 species of Thomisidae recorded from India, 7 species are considerably widely distributed, viz. *Camaricus formosus* Thorell, 1887 (17 states, 2 union territories), *Indoxysticus minutus* (Tikader, 1960) (16 states), *Runcinia insecta* (L. Koch, 1875) (15 states, 2 union territories), *Thomisus projectus* Tikader, 1960 (14 states, 1 union territories), *Thomisus pugilis*

Stoliczka, 1869 (13 states, 2 union territories), *Amyciaea forticeps* (Opickard-Cambridge, 1873) (12 states, 1 union territory) and *Thomisus lobosus* Tikader, 1965 (12 states, 1 union territories). Several species of Thomisidae reported from India are recorded only from one state or from the type locality. Endemism in thomisid spiders in India is high at the species level (143 species out of 210 species recorded), and these species are threatened with the loss and fragmentation of habitats. Though none of the species of thomisid spider is listed in IUCN Red List of Threatened Animals as endangered or vulnerable in India, still like others, they are also threatened due to habitat loss and fragmentation and other anthropogenic activities hampering

ecosystem. Therefore, conservation efforts are immediately needed for their conservation practices. Results demonstrated that most of the surveys conducted in India have remained restricted to a few states and union territories particularly, in the Western Ghats, Eastern Ghats and north and northeast India, and most areas in the country still remain virgin. Hence, a systematic faunistic surveys for these crab spiders are essential for the entire country to find an overall representation of thomisid spiders in the country. Following is the detailed list of these spiders arranged alphabetically which are distributed in Indian states and union territories.

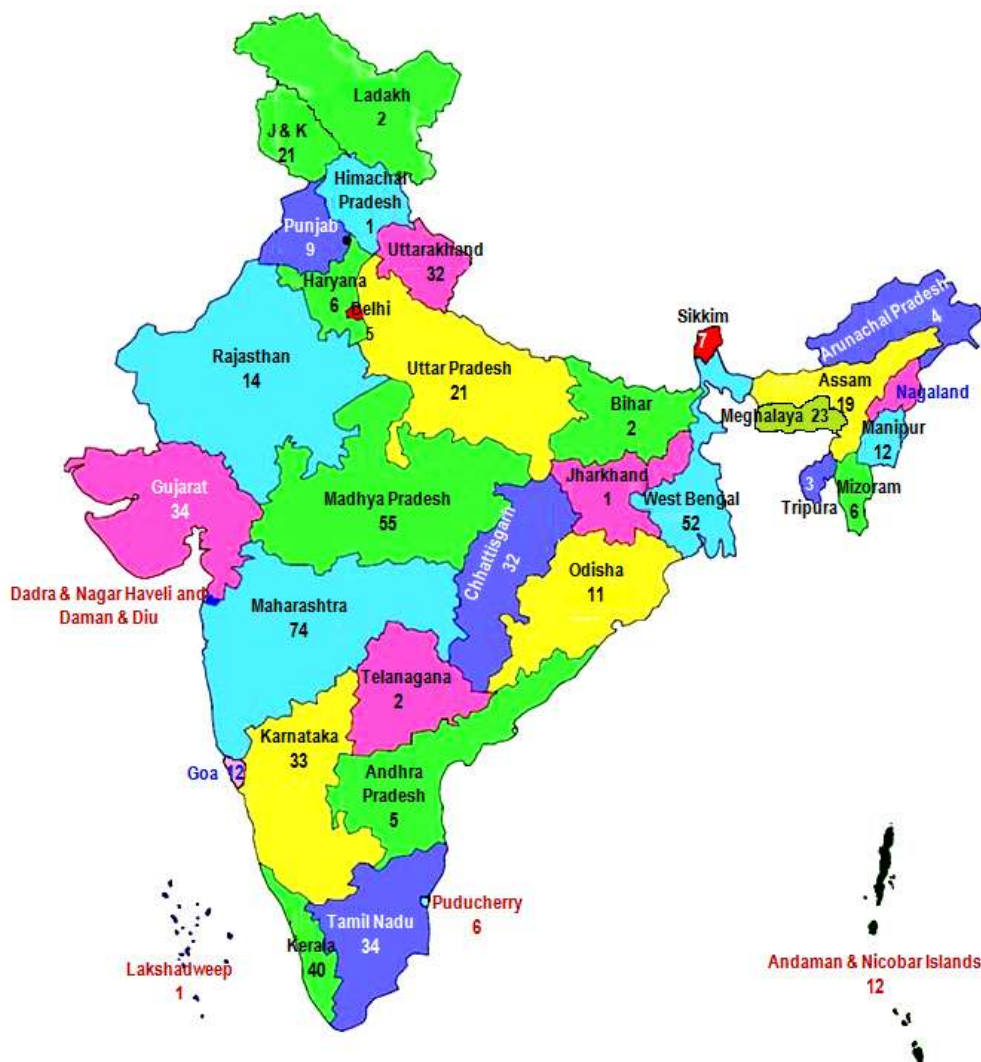


Figure 1. Number of species of the spider family Thomisidae in Indian states and union territories.

**I. Checklist of Crab Spiders (Thomisidae) in Indian States and Union Territories**

**1. *Amyciaea albomaculata* (O. Pickard-Cambridge, 1874)†**

- Kerala (Sumesh & Sudhikumar, 2020)

Elsewhere: Australia, New Guinea

**2. *Amyciaea forticeps* (O. Pickard-Cambridge, 1873)**

- Assam (Chetia & Kalita, 2012; Gupta *et al.*, 2015)
- Chhattisgarh (Gajbe & Sharma, 1994)
- Goa (Pandit & Dharwadkar, 2020)

- Gujarat (Patel, 2003b; Siliwal *et al.*, 2003a; Solanki *et al.*, 2020)
- Karnataka (Nalini Bai & Ravindranatha, 2012; Mubeen & Basavarajappa, 2018)
- Kerala (Sebastian *et al.*, 2005a; Sunil Jose *et al.*, 2003; Rajeevan *et al.*, 2019; Sumesh & Sudhikumar, 2020)
- Maharashtra (Tikader, 1971, 1980; Gajbe, 1995b; Rithe, 2012; More & Sawant, 2013)
- Manipur (Kananbala *et al.*, 2018)
- Meghalaya (Bhattacharya *et al.*, 2017)
- Odisha (Choudhury *et al.*, 2019)
- Puducherry (Simon, 1906)
- Tamil Nadu (Kadam & Rajkumar, 2020)
- Uttarakhand (Gupta & Siliwal, 2012)
- West Bengal (Bhattacharya, 1934; Biswas & Biswas, 1992; Sen *et al.*, 2015)

Elsewhere: China, Malaysia

### 3. *Amyciaea lineatipes* O. Pickard-Cambridge, 1901

- Tripura (Dey *et al.*, 2013)

Elsewhere: Indonesia, Singapore

### 4. *Amyciaea* sp.

- Karnataka (Prashanthakumara & Venkateshwarlu, 2017)
- Odisha (Choudhury *et al.*, 2019)

### 5. *Angaeus pentagonalis* Pocock, 1901\*

Syn. *Misumenoides kripalani* Tikader, 1963

- Andaman & Nicobar Islands (Tikader, 1977, 1980)
- Karnataka (Tikader, 1963, 1971, 1977a, 1980)
- Maharashtra (Tikader, 1977)
- Tamil Nadu (Pocock, 1901; Karthikeyani *et al.*, 2017)

### 6. *Angaeus* sp.

- Goa (Pandit & Dharwadkar, 2020)
- Karnataka (Abhijith, 2019)

### 7. *Bomis bengalensis* Tikader, 1962\*

- West Bengal (Tikader, 1962, 1971, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992)

### 8. *Bomis calcuttaensis* Biswas & Mazumder, 1981\*

- West Bengal (Biswas & Mazumder, 1981; Biswas & Biswas, 1992; Majumder, 2005)

### 9. *Bomis khajuriai* Tikader, 1980\*

- Madhya Pradesh (Tikader, 1980; Sen *et al.*, 2010b)
- Tamil Nadu (Caleb, 2020a)

### 10. *Bomis* sp.

- Karnataka (Abhijith, 2019)
- Odisha (Panda *et al.*, 2011; Mohapatra *et al.*, 2014)
- Rajasthan (Kashmeera *et al.*, 2020)
- Uttarakhand (Gupta & Siliwal, 2012)

### 11. *Borboropactus bituberculatus* Simon, 1884

- Andaman & Nicobar Islands (Dash & Sivaperuman, 2021a)

Elsewhere: China, Indonesia, Papua New Guinea

### 12. *Borboropactus elephantus* (Tikader, 1966)\*

Syn. *Regillus elephantus* Tikader, 1966

- Assam (Tikader, 1966a)
- Maharashtra (Tikader, 1980)
- Meghalaya (Tikader, 1971, 1980; Biswas & Majumder, 1995)

### 13. *Camaricus bipunctatus* Bastawade, 2002\*

- Andhra Pradesh (Bastawade & Khandal, 2006)
- Arunachal Pradesh (Bastawade, 2002; Bastawade & Khandal, 2006)
- Maharashtra (Bastawade, 2002; Bastawade & Khandal, 2006; More & Sawant, 2013; More, 2015a)

### 14. *Camaricus formosus* Thorell, 1887

Syn. *Camaricus fornicatus* Thorell, 1890

- Andaman & Nicobar Islands (Tikader, 1977, 1980; Tikader & Biswas, 1981; Majumder, 2004, 2005)
- Arunachal Pradesh (Biswas & Biswas, 2006)
- Assam (Chetia & Kalita, 2012; Singh *et al.*, 2012; Gupta *et al.*, 2015; Ahmed, 2018)
- Delhi (Malik *et al.*, 2015)
- Goa (Bastawade & Borkar, 2008; Pandit & Dharwadkar, 2020)
- Gujarat (Chandra *et al.*, 2021)
- Karnataka (Tikader & Biswas, 1981; Majumder, 2004, 2005)
- Kerala (Ambily & Antony, 2016; Jose *et al.*, 2018; Rajeevan *et al.*, 2019)
- Madhya Pradesh (Sen *et al.*, 2010b)
- Maharashtra (Tikader & Biswas, 1981; Majumder, 2004; More & Sawant, 2013)
- Manipur (Biswas & Biswas, 2004; Kananbala *et al.*, 2018)
- Meghalaya (Bhattacharya *et al.*, 2017)
- Mizoram (Biswas & Biswas, 2007)
- Odisha (Majumder, 2005; Panda *et al.*, 2011; Mohapatra *et al.*, 2014; De & Palita, 2018)
- Tamil Nadu (Bastawade & Borkar, 2008; Karthikeyani, 2013)
- Tripura (Dey *et al.*, 2013)
- Uttar Pradesh (Singh & Singh, 2014; Sharma & Singh, 2018a, b)
- Uttarakhand (Gupta & Siliwal, 2012)
- West Bengal (Tikader, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Majumder, 2004, 2005; Saha & Raychaudhuri, 2007a; Sen *et al.*, 2015; Saha *et al.*, 2016)

Elsewhere: Bangladesh, China, Indonesia, Malaysia, Myanmar, Philippines

### 15. *Camaricus khandalaensis* Tikader, 1980\*

- Gujarat (Siliwal *et al.*, 2003a; Yadav *et al.*, 2017a)

- Kerala (Sudhikumar *et al.*, 2005; Sunil Jose *et al.*, 2008; Joseph *et al.*, 2017)
- Maharashtra (Tikader, 1980; Pande *et al.*, 2013)
- Odisha (Choudhury *et al.*, 2019)
- West Bengal (Saha & Raychaudhuri, 2007a)
- 16. *Camaricus maugi* (Walckenaer, 1837)**
- Tripura (Dey *et al.*, 2013)
- Elsewhere: Indonesia, Myanmar, Vietnam
- 17. *Camaricus rinkae* Biswas & Roy, 2005\***
- Kerala (Biswas & Roy, 2005b)
- 18. *Camaricus siltorsus* Saha & Raychaudhuri, 2007\***
- West Bengal (Saha & Raychaudhuri, 2007a; Sen *et al.*, 2015)
- 19. *Camaricus* sp.**
- Andhra Pradesh (Palem *et al.*, 2016)
- Karnataka (Bhat *et al.*, 2013)
- Odisha (Mohapatra *et al.*, 2014)
- Tamil Nadu (Kadam & Rajkumar, 2020)
- Uttarakhand (Uniyal *et al.*, 2011)
- 20. *Demogenes andamanensis* (Tikader, 1980)\***
- Syn. *Misumenops andamanensis* Tikader, 1980
- Andaman & Nicobar Islands (Tikader, 1980)
- Kerala (Sudhikumar *et al.*, 2005; Sunil Jose *et al.*, 2008; Joseph *et al.*, 2017)
- 21. *Diaea bengalensis* Biswas & Mazumder, 1981\***
- Maharashtra (Rithe, 2012; More & Sawant, 2013)
- Manipur (Biswas & Biswas, 2004; Kananbala *et al.*, 2018)
- West Bengal (Biswas & Mazumder, 1981; Biswas & Biswas, 1992; Majumder, 2005).
- 22. *Diaea dorsata* (Fabricius, 1777)**
- Manipur (Kananbala *et al.*, 2018)
- Elsewhere: Caucasus, Europe, Iran, Japan, Russia, Turkey
- 23. *Diaea pogneti* Simon, 1885\***
- Tamil Nadu (Simon, 1885b; Karthikeyani *et al.*, 2017; Caleb & Karthikeyani, 2020)
- 24. *Diaea* sp.**
- Gujarat (Parmar, 2018)
- Uttarakhand (Uniyal *et al.*, 2011)
- 25. *Diaea subdola* Pickard-Cambridge, 1885**
- Syn. *Misumena horai* Tikader, 1968
- Jammu & Kashmir (Caporiacco, 1935)
- Meghalaya (Tikader, 1968, 1971, 1980; Biswas & Majumder, 1995)
- Uttar Pradesh (Hore & Uniyal, 2008a, b; Uniyal & Hore, 2009)
- Elsewhere: China, Formosa, Japan, Korea, Russia
- 26. *Dietopsa castaneifrons* (Simon, 1895)\***
- Syn. *Dietopsis castaneifrons* Simon, 1895
- Tamil Nadu (Simon, 1895b)
- 27. *Dietopsa parnassia* (Simon, 1895)\***
- Syn. *Dietopsis parnassia* Simon, 1895)
- Tamil Nadu (Simon, 1895a, 1906; Karthikeyani *et al.*, 2017; Caleb & Karthikeyani, 2020)
- 28. *Ebrechtella concinna* (Thorell, 1877)**
- Syn. *Diaea subargentata* O. Pickard-Cambridge, 1885; *Misumena silveryi* Tikader, 1965; *Misumenops maygitgitus* Barrion & Litsinger, 1995)
- Gujarat (Parmar, 2013; Parmar & Acharya, 2015)
- Jammu & Kashmir (Caporiacco, 1935)
- Kerala (Sunil Jose *et al.*, 2008; Mathew *et al.*, 2014)
- Maharashtra (Tikader, 1965, 1971, 1980)
- Mizoram (Chowdhury *et al.*, 2017)
- Elsewhere: Indonesia, New Guinea, Pakistan, Philippines
- 29. *Ebrechtella* sp.**
- Kerala (Joseph *et al.*, 2017; Sumesh & Sudhikumar, 2020)
- 30. *Ebrechtella sufflava* (O. Pickard-Cambridge, 1885)**
- Syn. *Diaea sufflava* Pickard-Cambridge, 1885; *Misumena expallidata* Pickard-Cambridge, 1885
- Jammu & Kashmir (Caporiacco, 1935)
- Elsewhere: Pakistan
- 31. *Ebrechtella tricuspidata* (Fabricius, 1775)**
- Syn. *Misumena tricuspidata* (Fabricius, 1775)
- Jammu & Kashmir (Caporiacco, 1935)
- Maharashtra (Chapke, 2012)
- Elsewhere: Caucasus, Central Asia, China, Europe, Iran, Japan, Kazakhstan, Korea, Pakistan, Russia, Turkey
- 32. *Epidius armatus* (Thorell, 1895)**
- Syn. *Platythomismus bazarus* Tikader, 1970; *Epidius bazarus* (Tikader, 1970)
- Kerala (Joseph *et al.*, 2017)
- Sikkim (Tikader, 1970, 1971, 1980)
- Tamil Nadu (Benjamin, 2017)
- West Bengal (Tang *et al.*, 2009)
- Elsewhere: China, Laos, Myanmar
- 33. *Epidius longimanus* Benjamin, 2017\***
- Tamil Nadu (Benjamin, 2017)
- 34. *Epidius longipalpis* Thorell, 1877**
- Kerala (Joseph *et al.*, 2017)
- Elsewhere: Indonesia, Sri Lanka
- 35. *Epidius mahavira* Benjamin, 2017\***
- Tamil Nadu (Benjamin, 2017)
- 36. *Epidius parvati* Benjamin, 2000**
- Kerala (Joseph *et al.*, 2017; Malamel & Sudhikumar, 2017, 2020)
- 37. *Henriksenia hilaris* (Thorell, 1877)**
- Syn. *Misumenoides deccanes* Tikader, 1965; *Misumenoides shulli* Tikader, 1965; *Diaea jaintious* Tikader, 1966;

*Misumena decorata* Tikader, 1980; *Misumena braminica* Simon, 1906

- Assam (Tikader, 1966a)
- Kerala (Sudhikumar *et al.*, 2005; Sunil Jose *et al.*, 2008; Adarsh & Nameer, 2016)
- Maharashtra (Tikader, 1965, 1980; Meshram, 2011; Pande *et al.*, 2013)
- Meghalaya (Tikader, 1971, 1980; Biswas & Majumder, 1995)
- Puducherry (Simon, 1906)
- Tamil Nadu (Simon, 1906; Karthikeyani *et al.*, 2017; Caleb & Karthikeyani, 2020; Caleb, 2020a)
- Uttarakhand (Tikader, 1965, 1971, 1980; Biswas & Biswas, 2010; Uniyal *et al.*, 2011)
- West Bengal (Ghosh *et al.*, 2018)

Elsewhere: Bangladesh, China, Indonesia, Malaysia, New Guinea, Philippines.

### 38. *Heriaeus horridus* Tyschchenko, 1965

Syn. *Misumenops kumaonensis* Tikader, 1980

- Maharashtra (Bastawade & Khandal, 2006; Warghat *et al.*, 2011)
- Uttarakhand (Tikader, 1980)

Elsewhere: Central Asia, Russia, Ukraine

### 39. *Holopelus malati* Simon, 1895 \*

- Tamil Nadu (Simon, 1895b)

### 40. *Indosmodicinus bengalensis* Sen *et al.*, 2010

- West Bengal (Sen *et al.*, 2010a, 2015)

Elsewhere: China

### 41. *Indoxysticus lumbricus* Tang Li, 2010†

- Gujarat (Yadav, 2019)

Elsewhere: China

### 42. *Indoxysticus minutus* (Tikader, 1960)

Syn. *Xysticus minutus* Tikader, 1960

- Assam (Chetia & Kalita, 2012; Das *et al.*, 2015)
- Bihar (Priyadarshini *et al.*, 2015, 2018)
- Chhattisgarh (Gajbe & Sharma, 1994)
- Gujarat (Tikader, 1971, 1980; Tikader & Biswas, 1981; Siliwal *et al.*, 2003a, b; Gajbe, 2004d; Majumder, 2005; Parmar, 2013; Parmar & Acharya, 2015; Yadav *et al.*, 2017a)
- Karnataka (Bhat *et al.*, 2013; Vaibhav *et al.*, 2017; Nijagal *et al.*, 2020)
- Kerala (Jose *et al.*, 2018; Asima *et al.*, 2020; Sumesh & Sudhikumar, 2020)
- Madhya Pradesh (Gajbe, 2003a, b, 2004d, 2007; Chetia & Kalita, 2012)
- Maharashtra (Tikader, 1971; Tikader & Biswas, 1981; Gajbe, 2004d, 2007; Majumder, 2005; Meshram, 2011; Vairale & Wagh, 2021)
- Meghalaya (Tikader, 1968, 1971, 1980; Tikader & Biswas, 1981; Gajbe, 2004d; Majumder, 2005)

- Odisha (Choudhury *et al.*, 2019)
- Punjab (Kumari, 1983)
- Rajasthan (Chauhan *et al.*, 2009; Lawania & Trigunayat, 2015; Kumari *et al.*, 2017)
- Tamil Nadu (Caleb, 2020a)
- Uttar Pradesh (Lawania & Mathur, 2014a; Kumar *et al.*, 2017a; Kadam & Rajkumar, 2020)
- Uttarakhand (Uniyal *et al.*, 2011; Gupta & Siliwal, 2012)
- West Bengal (Tikader, 1960, 1971, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Gajbe, 2004d; Majumder, 2005; Sen *et al.*, 2015)

Elsewhere: Sri Lanka

### 43. *Indoxysticus* sp.

- Odisha (Choudhury *et al.*, 2019)

### 44. *Loxobates castetsi* (Simon, 1906)\*

Syn. *Oxylate castetsi* Simon, 1906

- Himalayan plateaus (Simon, 1906)
- Karnataka (Bhat *et al.*, 2013)

### 45. *Loxobates kapuri* (Tikader, 1980)\*

Syn. *Dieta kapuri* Tikader, 1980

- Maharashtra (Tikader, 1980)

### 46. *Loxobates* sp.

- Karnataka (Bhat *et al.*, 2013)

### 47. Simon, 1895\*

- Tamil Nadu (Simon, 1895b, 1906; Karthikeyani *et al.*, 2017)

### 48. *Lysiteles brunettii* (Tikader, 1962)\*

Syn. *Synaema brunettii* Tikader, 1962

- Madhya Pradesh (Gajbe, 2003b, 2007)
- Uttarakhand (Uniyal *et al.*, 2011)
- West Bengal (Tikader, 1962, 1971, 1980; Biswas & Biswas, 1992; Gajbe, 2007)

### 49. *Lysiteles catulus* Simon, 1895\*

- Tamil Nadu (Simon, 1895b, 1906)

### 50. *Lysiteles excultus* (O. Pickard-Cambridge, 1885)

Syn. *Synaema exculta* O. Pickard-Cambridge, 1885

- Jammu & Kashmir (Caporiacco, 1935)

Elsewhere: Pakistan

### 51. *Lysiteles mandali* (Tikader, 1966)

Syn. *Xysticus mandali* Tikader, 1966

- Assam (Tikader, 1966a)
- Meghalaya (Tikader, 1968, 1971, 1980; Biswas & Majumder, 1995)

Elsewhere: China

### 52. *Lysiteles niger* Ono, 1979

- Uttarakhand (Uniyal *et al.*, 2011)

Elsewhere: Bhutan, China, Nepal

### 53. *Lysiteles* sp.

- Uttar Pradesh (Kumar *et al.*, 2017a)

- Uttarakhand (Quasin & Uniyal, 2010; Uniyal *et al.*, 2011)
- 54. *Massuria roonwali* (Basu, 1964)\***  
Syn. *Pistius roonwali* Basu, 1964.
- Uttar Pradesh (Sen *et al.*, 2015)
- Uttarakhand (Basu, 1964a; Tikader, 1971, 1980; Gupta & Siliwal, 2012)
- West Bengal (Saha & Raychaudhuri, 2007a; Sen *et al.*, 2015)
- 55. *Massuria* sp.**
- Goa (Pandit & Dharwadkar, 2020)
- 56. *Massuria sreepanchamii* (Tikader, 1962)\***  
Syn. *Pistius sreepanchamii* Tikader, 1962
- Manipur (Kananbala *et al.*, 2018)
- Meghalaya (Tikader, 1962, 1971, 1980; Biswas & Majumder, 1995)
- West Bengal (Saha & Raychaudhuri, 2007a)
- 57. *Massuria uthoracica* Sen *et al.*, 2012\***
- West Bengal (Sen *et al.*, 2012, 2015)
- 58. *Mastira menoka* (Tikader, 1963)\***  
Syn. *Misumena menoka* Tikader, 1963
- Gujarat (Yadav *et al.*, 2017a)
- Karnataka (Tikader, 1963, 1980)
- Kerala (Lehtinen, 2004)
- Maharashtra (Meshram, 2011)
- Uttar Pradesh (Sharma & Singh, 2018a, b)
- Uttarakhand (Uniyal *et al.*, 2011; Pooja *et al.*, 2019)
- 59. *Mastira nicobarensis* (Tikader, 1980)\***  
Syn. *Mesumena nicobarensis* Tikader, 1980
- Andaman & Nicobar Islands (Tikader, 1980)
- West Bengal (Saha & Raychaudhuri, 2007a; Sen *et al.*, 2015)
- 60. *Mecaphesa celer* (Hentz, 1847)†**  
Syn. *Misumenops celer* (Hentz, 1847)
- Rajasthan (Lawania & Mathur, 2017)
- Elsewhere: Canada, Mexico, USA
- 61. *Misumena annapurna* Tikader, 1963\***
- Karnataka (Tikader, 1963, 1971, 1980)
- Maharashtra (Tikader, 1971, 1980; Rithe, 2012)
- 62. *Misumena ganpatii* Kumari & Mittal, 1994\***
- Punjab (Kumari & Mittal, 1994)
- 63. *Misumena greenae* Tikader, 1965\***
- Maharashtra (Tikader, 1965, 1971, 1980; More & Sawant, 2013)
- 64. *Misumena indra* Tikader, 1963\***
- Karnataka (Tikader, 1963, 1971, 1980)
- Maharashtra (More & Sawant, 2013; More, 2015a)
- Uttar Pradesh (Hore & Uniyal, 2008a, b; Uniyal & Hore, 2009)
- 65. *Misumena mickeyi* Sen, Saha & Raychaudhuri, 2012\***
- West Bengal (Sen *et al.*, 2012, 2015)
- 66. *Misumena mridulai* Tikader, 1962\***
- Kerala (Sunil Jose & Sebastian, 2001)
- Maharashtra (Meshram, 2011; Warghat *et al.*, 2011)
- Meghalaya (Tikader, 1962, 1971, 1980; Biswas & Majumder, 1995)
- Uttar Pradesh (Hore & Uniyal, 2008a, b; Uniyal & Hore, 2009)
- Uttarakhand (Uniyal *et al.*, 2011)
- 67. *Misumena oblonga* O. Pickard-Cambridge, 1885**
- Jammu & Kashmir (Pickard-Cambridge, 1885; Caporiacco, 1935)
- 68. *Misumena ritujae* Gajbe, 2008\***
- Madhya Pradesh (Gajbe, 2008a)
- Maharashtra (Rithe, 2012)
- 69. *Misumena* sp.**
- Assam (Das *et al.*, 2015; Saha *et al.*, 2015a)
- Gujarat (Parasharya & Pathan, 2013; Parmar *et al.*, 2015)
- Kerala (Patel, 2003a; Sunil Jose *et al.*, 2008; Sebastian *et al.*, 2011)
- Ladakh (Uniyal, 2006)
- Maharashtra (Lanka *et al.*, 2017)
- Manipur (Kananbala *et al.*, 2018)
- Punjab (Kumari, 1983)
- Uttarakhand (Uniyal *et al.*, 2011; Gupta & Siliwal, 2012)
- 70. *Misumena vatia* (Clerck, 1757)**
- Assam (Chetia & Kalita, 2012)
- Goa (Halarnkar & Pai, 2018)
- Karnataka (Mubeen & Basavarajappa, 2018; Nijagal *et al.*, 2020)
- Meghalaya (Bhattacharya *et al.*, 2017)
- Uttar Pradesh (Kumar *et al.*, 2017a, b)
- Elsewhere: Caucasus, Central Asia, China, Europe, Iran, Japan, Kazakhstan, Korea, North America, Russia, Turkey
- 71. *Misumenoides gwarighatensis* Gajbe, 2004\***
- Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015).
- Madhya Pradesh (Gajbe, 2004d; Patil, 2012)
- Maharashtra (Rithe, 2012)
- 72. *Misumenoides naginae* Biswas & Roy, 2008\***
- Uttarakhand (Biswas & Roy, 2008)
- 73. *Misumenoides* sp.**
- Chhattisgarh (Kujur & Ekka, 2016)
- Gujarat (Parasharya & Pathan, 2013)
- Karnataka (Prashanthakumara & Venkateshwarlu, 2017)
- Madhya Pradesh (Gajbe, 2003a, b)
- 74. *Misumenops khandalaensis* Tikader, 1965\***



- Maharashtra (Tikader, 1965, 1971, 1980; Bastawade & Khandal, 2006; Meshram, 2011; More & Sawant, 2013)

**75. *Misumenops rubrodecoratus* Millot, 1942†**

- Karnataka (Shraddha & Chaturved, 2019)

Elsewhere: Africa

**76. *Misumenops* sp.**

- Karnataka (Abhijith, 2019)
- Kerala (Sunil Jose *et al.*, 2008)
- Uttarakhand (Uniyal *et al.*, 2011)

**77. *Misumessus oblongus* (Keyserling, 1880)†**

- Karnataka (Tabasum *et al.*, 2018)

Elsewhere: Canada, USA

**78. *Monaeses jabalpurensis* Gajbe & Rane, 1992\***

- Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015)
- Madhya Pradesh (Gajbe & Rane, 1992; Gajbe, 2003a, b, 2004d, 2007; Patil, 2012)

**79. *Monaeses mukundi* Tikader, 1980\***

- Gujarat (Patel, 2003b; Yadav *et al.*, 2017a)
- Maharashtra (Tikader, 1980; Pande *et al.*, 2013)

**80. *Monaeses pachpediensis* (Tikader, 1980)\***

Syn. *Tmarus pachpediensis* Tikader, 1980

- Madhya Pradesh (Tikader, 1980; Gajbe, 2003b)
- Maharashtra (Warghat *et al.*, 2014; Vairale & Wagh, 2021)

**81. *Monaeses parvati* Tikader, 1963\***

- Delhi (Malik *et al.*, 2015)
- Gujarat (Siliwal *et al.*, 2003b; Yadav *et al.*, 2017a)
- Maharashtra (Tikader, 1963, 1971, 1980)
- Punjab (Tikader, 1971)

**82. *Monaeses* sp.**

- Chhattisgarh (Kujur & Ekka, 2016).
- Gujarat (Parasharya & Pathan, 2013)
- Uttarakhand (Gupta & Siliwal, 2012)

**83. *Oxytate chlorion* (Simon, 1906)\***

Syn. *Dieta chlorion* Simon, 1906

- Tamil Nadu (Simon, 1906; Leardi in Airaghi, 1901b; Karthikeyani *et al.*, 2017)

**84. *Oxytate elongata* (Tikader, 1980)\***

Syn. *Dieta elongata* Tikader, 1980

- Assam (Das *et al.*, 2015)
- Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015)
- Delhi (Malik *et al.*, 2015)
- Gujarat (Patel, 2003b; Siliwal *et al.*, 2003a; Yadav *et al.*, 2017a)
- Madhya Pradesh (Gajbe, 2003b, 2004d, 2005; Patil, 2012)
- Maharashtra (Tikader, 1980; Gajbe, 2004d, Gajbe, 2005; Bastawade & Khandal, 2006; Rithe, 2012; More & Sawant, 2013; More, 2015a)

- Manipur (Kananbala *et al.*, 2018)
- Uttarakhand (Gupta & Siliwal, 2012)

**85. *Oxytate greenae* (Tikader, 1980)\***

Syn. *Dieta greenae* Tikader, 1980

- Andaman & Nicobar Islands (Tikader, 1980)
- Kerala (Dhali *et al.*, 2019; Sumesh & Sudhikumar, 2020)
- West Bengal (Sen *et al.*, 2015)

**86. *Oxytate kanishkai* (Gajbe, 2008)\***

Syn. *Dieta kanishkai* Gajbe, 2008

- Madhya Pradesh (Gajbe, 2008b)

Recently, this species was inadvertently placed in Philodromidae (its earlier placement) by Singh & Singh (2021).

**87. *Oxytate virens* (Thorell, 1891)**

- Assam (Chetia & Kalita, 2012; Das *et al.*, 2015; Ahmed, 2018)
- Gujarat (Parmar, 2013; Parmar *et al.*, 2015)
- Karnataka (Bhat *et al.*, 2013)
- Kerala (Mathew *et al.*, 2014; Ambily & Antony, 2016; Jose *et al.*, 2018; Rajeevan *et al.*, 2019)
- Maharashtra (Nerlekar *et al.*, 2016; Lanka *et al.*, 2017)
- Manipur (Kananbala *et al.*, 2018)
- Mizoram (Chowdhury *et al.*, 2017)
- Tamil Nadu (Karthikeyani *et al.*, 2017; Kadam & Rajkumar, 2020)

Elsewhere: Singapore, Vietnam.

**88. *Oxytate* sp.**

- Assam (Chetia & Kalita, 2012; Pandit, 2019)
- Goa (Pandit & Dharwadkar, 2020)
- Gujarat (Parmar & Patel, 2017)
- Odisha (Choudhury *et al.*, 2019)

**89. *Ozyptila amkhasensis* Tikader, 1980\***

Syn. *Ozyptila amkhasensis* Tikader, 1980

- Chhattisgarh (Kujur & Ekka, 2016)
- Madhya Pradesh (Tikader, 1980; Gajbe, 2003b, 2004d; Patil, 2012)

**90. *Ozyptila brevipes* (Hahn, 1826)**

- Rajasthan (Kashmeera *et al.*, 2020)

Elsewhere: Europe, Russia

**91. *Ozyptila chandosiensis* Tikader, 1980\***

Syn. *Ozyptila chandosiensis* Tikader, 1980

- Maharashtra (More & Sawant, 2013; More, 2015a)
- Rajasthan (Sivaperuman & Rathore, 2004)
- Uttar Pradesh (Tikader, 1980)

**92. *Ozyptila jabalpurensis* Bhandari & Gajbe, 2001\***

Syn. *Ozyptila jabalpurensis* Bhandari & Gajbe, 2001

- Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015)
- Madhya Pradesh (Bhandari & Gajbe, 2001; Gajbe, 2003b, 2004a; Patil, 2012)

**93. *Oxyptila khasi* Tikader, 1960\***Syn. *Oxyptila khasi* Tikader, 1960

- Meghalaya (Tikader, 1961, 1971, 1980; Biswas & Majumder, 1995; )
- West Bengal (Sen *et al.*, 2015; Raychaudhuri *et al.*, 2016; Saha *et al.*, 2016)

**94. *Oxyptila manii* Tikader, 1961\***Syn. *Oxyptila manii* Tikader, 1961

- Assam [Saha *et al.*, 2015a]
- Uttar Pradesh (Hore & Uniyal, 2008a, b; Uniyal & Hore, 2009)
- West Bengal (Tikader, 1961, 1971, 1980; Biswas & Biswas, 1992)

**95. *Oxyptila maratha* Tikader, 1971\***Syn. *Oxyptila maratha* Tikader, 1971; *Oxyptila gertschi* Tikader, 1964)

- Gujarat (Patel & Pillai, 1988; Yadav *et al.*, 2017a)
- Madhya Pradesh (Tikader, 1980)
- Maharashtra (Tikader, 1964, 1971, 1980; Meshram, 2011; Rithe, 2012; More, 2015a).

**96. *Oxyptila reena* Basu, 1964\***Syn. *Oxyptila reena* Basu, 1964

- Rajasthan (Kashmeera *et al.*, 2020)
- West Bengal (Basu, 1964b; Tikader, 1971, 1980; Biswas & Biswas, 1992)

**97. *Oxyptila theobaldi* Simon, 1885\***Syn. *Oxyptila theobaldi* Simon, 1885

- Tamil Nadu (Simon, 1885b, 1906; Karthikeyani *et al.*, 2017)

**98. *Oxyptila trux* (Blackwall, 1846)†**

- Jammu & Kashmir (Punjoo & Bhat, 2015)

Elsewhere: Canada, Caucasus, Europe, Japan, Russia

**99. *Oxyptila* sp.**

- Gujarat (Parasharya & Pathan, 2013)
- Kerala (Sudhikumar *et al.*, 2005; Sunil Jose *et al.*, 2008)
- Maharashtra (Lanka *et al.*, 2017)
- Mizoram (Chowdhury *et al.*, 2017)
- Uttar Pradesh (Hore & Uniyal, 2008a, b; Uniyal & Hore, 2009)
- Uttarakhand (Uniyal *et al.*, 2011)

**100. *Pagida salticiformis* (Pickard-Cambridge, 1883)**

- Tamil Nadu (Caleb, 2020a)

Elsewhere: Sri Lanka

**101. *Pasias marathas* Tikader, 1965\***

- Maharashtra (Tikader, 1965, 1971, 1980; Pande *et al.*, 2013)

**102. *Pasias puspagiri* Tikader, 1963\***

- Karnataka (Tikader, 1963, 1971, 1980)

**103. *Pharta indica* Sen, Saha & Raychaudhuri, 2012\***

- West Bengal (Sen *et al.*, 2012, 2015)

**104. *Phrynarachne ceylonica* (O. Pickard-Cambridge, 1884)**

- Andaman & Nicobar Islands (Dash & Sivaperuman, 2021b)

- Assam (Das *et al.*, 2019)

Elsewhere: China, Japan, Sri Lanka, Taiwan

**105. *Phrynarachne peeliana* (Stoliczka, 1869)\***Syn. *Thomisus peelianus* Stoliczka, 1869

- Assam (Stoliczka, 1869)
- West Bengal (Roy *et al.*, 2010)

**106. *Phrynarachne tuberosa* (Blackwall, 1864)\***Syn. *Thomisus tuberosus* Blackwall, 1864.

- West Bengal (Roy *et al.*, 2010)

**107. *Phrynarachne* sp.**

- Assam (Das *et al.*, 2015; Pandit, 2019)

**108. *Pistius barchensis* Basu, 1965\***

- Uttarakhand (Basu, 1965a; Tikader, 1971, 1980)

- West Bengal (Saha & Raychaudhuri, 2007a)

**109. *Pistius bhadurii* Basu, 1965\***

- Uttar Pradesh (Basu, 1965a; Tikader, 1971)

- Uttarakhand (Gupta & Siliwal, 2012)

**110. *Pistius gangulyi* Basu, 1965**

- Uttarakhand (Basu, 1965a; Tikader, 1971, 1980)

- West Bengal (Saha & Raychaudhuri, 2007a)

Elsewhere: China

**111. *Pistius kalimpus* Tikader, 1970\***

- Maharashtra (Warghat *et al.*, 2014)

- Sikkim (Tikader, 1970)

- West Bengal (Tikader, 1970, 1971, 1980; Saha & Raychaudhuri, 2007a)

**112. *Pistius kanikae* Basu, 1964\***

- Uttarakhand (Basu, 1964a; Tikader, 1971, 1980)

**113. *Pistius robustus* Basu, 1965\***

- Maharashtra (Meshram, 2011)

- Uttarakhand (Basu, 1965a; Tikader, 1971, 1980)

**114. *Pistius tikaderi* Kumari & Mittal, 1999\***

- Punjab (Kumari & Mittal, 1999)

**115. *Pistius* sp.**

- Kerala (Sudhikumar *et al.*, 2005; Sunil Jose *et al.*, 2008)

**116. *Platythomisus sudepi* Biswas, 1977**

- Goa (Bastawade & Borkar, 2008)

- Karnataka (Biswas, 1977; Tikader, 1980; Yadav *et al.*, 2017a)

- Kerala (Siliwal & Molur, 2005)

- Maharashtra (Yadav *et al.*, 2017b)

Elsewhere: Sri Lanka

**117. *Platythomisus xiandao* Lin & Li, 2019**Syn. *Platythomisus octomaculatus* (C. L. Koch, 1845)

- Assam (Yadav *et al.*, 2017b)

Elsewhere: China

**118. *Psammitis minor* (Charitonov, 1946)**

Syn. *Xysticus minor* Charitonov, 1946).

- Kerala (Sumesh & Sudhikumar, 2020)

Elsewhere: Central Asia, Iran, Kazakhstan

**119. *Psammitis setiger* (O. Pickard-Cambridge, 1885)**

Syn. *Xysticus setiger* O. Pickard-Cambridge, 1885

- Jammu & Kashmir (Caporiacco, 1935)

Elsewhere: Pakistan

**120. *Psammitis xysticiformis* (Caporiacco, 1935)**

Syn. *Oxyptila xysticiformis* Caporiacco, 1935)

- Jammu & Kashmir (Caporiacco, 1935)

Elsewhere: Central Asia, China, Pakistan

**121. *Runcinia acuminata* (Thorell, 1881)**

- Karnataka (Nalini Bai & Ravindranatha, 2012)
- Maharashtra (Chapke, 2012)
- Manipur (Kananbala *et al.*, 2018)

Elsewhere: Australia, Bangladesh, Japan, New Guinea

**122. *Runcinia bifrons* (Simon, 1895)**

Syn. *Runciniopsis bifrons* Simon, 1895

- Sikkim (Simon, 1895b)

Elsewhere: Sri Lanka, Vietnam

**123. *Runcinia escheri* Reimoser, 1934\***

- Andhra Pradesh (Tikader, 1971, 1980; Gajbe, 2007)
- Madhya Pradesh (Gajbe, 2003b, 2005)
- Tamil Nadu (Reimoser, 1934; Karthikeyani *et al.*, 2017)

**124. *Runcinia ghorpadei* Tikader, 1980\***

- Gujarat (Siliwal *et al.*, 2003a; Yadav *et al.*, 2017a).
- Karnataka (Tikader, 1980).
- Maharashtra (More & Sawant, 2013).

**125. *Runcinia insecta* (L. Koch, 1875)**

Syn. *Runcinia affinis* Simon, 1897; *Runcinia albostrigata* Bösenberg & Strand, 1906; *Runcinia chauhani* Sen & Basu, 1973; *Thomisus cherapunjeus* Tikader, 1966.

- Andaman & Nicobar Islands (Tikader, 1977).
- Arunachal Pradesh (Biswas & Biswas, 2006).
- Assam (Tikader, 1966a; Tikader & Biswas, 1981).
- Chhattisgarh (Gajbe, 2003b; Gajbe & Sharma, 1994; Kujur & Ekka, 2016).
- Gujarat (Patel & Pillai, 1988; Siliwal *et al.*, 2003a; Parasharya & Pathan, 2013; Chandra *et al.*, 2021).
- Haryana (Malik & Goyal, 2017).
- Jammu & Kashmir (Khan, 2009).
- Karnataka (Kokilamani *et al.*, 2019; Sharma & Ramakrishna, 2021).
- Kerala (Jose *et al.*, 2018)
- Madhya Pradesh (Gajbe, 1995a, b, , 2003B, 2007)
- Maharashtra (Maheshwari *et al.*, 2018)
- Manipur (Kananbala *et al.*, 2018)

- Meghalaya (Tikader, 1966a, 1971, 1980; Tikader & Biswas, 1981; Biswas & Majumder, 1995; Majumder, 2005; ; Gajbe, 2007; Chapke, 2012)

- Tamil Nadu (Ganesh Kumar & Velusamy, 1996; Karthikeyani *et al.*, 2017; Caleb & Karthikeyani, 2020; Caleb, 2020a)

- Uttar Pradesh (Hore & Uniyal, 2008a, b; Uniyal & Hore, 2009)

- Uttarakhand (Gupta & Siliwal, 2012)

- West Bengal (Tikader, 1977; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Majumder, 2005; Saha *et al.*, 2020)

Elsewhere: Africa, Asia, Australia

**126. *Runcinia khandari* Gajbe, 2004\***

- Chhattisgarh (Ekka & Kujur, 2015; Kujur & Ekka, 2016)
- Madhya Pradesh (Gajbe, 2004d; Patil, 2012)
- Maharashtra (Rithe, 2012; More & Sawant, 2013; Warghat *et al.*, 2014)

**127. *Runcinia kinbergi* Thorell, 1891**

- Andaman & Nicobar Islands (Thorell, 1891)

Elsewhere: Indonesia, Myanmar

**128. *Runcinia roonwali* Tikader, 1965\***

- Assam (Tikader, 1968)
- Gujarat (Yadav *et al.*, 2017a).
- Haryana (Malik & Goyal, 2017).
- Karnataka (Deshpande & Paul, 2016).
- Kerala (Joseph & Premila, 2016; Adarsh & Nameer, 2016; Jose *et al.*, 2018; Sumesh & Sudhikumar, 2020).
- Maharashtra (Tikader, 1965, 1971, 1980).
- Meghalaya (Tikader, 1971, 1980; Biswas & Majumder, 1995).

- Uttar Pradesh (Uniyal & Hore, 2009).

**129. *Runcinia sitadongri* Gajbe, 2004\***

- Madhya Pradesh (Gajbe, 2004a).

**130. *Runcinia yogeshi* Gajbe & Gajbe, 2001\***

- Chhattisgarh (Ekka & Kujur, 2015; Kujur & Ekka, 2016).
- Madhya Pradesh (Gajbe & Gajbe, 2000a; Gajbe, 2003a, b; Patil, 2012).
- Maharashtra (More & Sawant, 2013).

**131. *Runcinia* sp.**

- Gujarat (Parmar *et al.*, 2015)
- Jammu & Kashmir (Khan, 2009)
- Karnataka (Mubeen & Basavarajappa, 2018)
- Kerala (Mathew *et al.*, 2014)
- Madhya Pradesh (Gajbe, 2004c)
- Maharashtra (Nerlekar *et al.*, 2016; Lanka *et al.*, 2017)
- Odisha (Mohapatra *et al.*, 2014)
- Tamil Nadu (Kapoor, 2008)
- Uttar Pradesh (Hore & Uniyal, 2008a, b)
- Uttarakhand (Uniyal & Hore, 2006; Uniyal *et al.*, 2011)

**132. *Stiphropus duriusculus* (Simon, 1885)\***Syn. *Apsectromerus duriusculus* Simon, 1885)

- Karnataka (Simon, 1885a)

**133. *Stiphropus sangayus* Barrion & Litsinger, 1995**

- Madhya Pradesh (Sen *et al.*, 2010b)

Elsewhere: Philippines

**134. *Stiphropus soureni* Sen, 1964**

- West Bengal (Sen, 1964)

Elsewhere: Bhutan

**135. *Stiphropus* sp.**

- Goa (Pandit & Dharwadkar, 2020)

**136. *Strigoplus bilobus* Saha & Raychaudhuri, 2004\***

- West Bengal (Saha & Raychaudhuri, 2004)

**137. *Strigoplus moluri* Patel, 2003\***

- Kerala (Patel, 2003a)
- Maharashtra (More & Sawant, 2013)

**138. *Strigoplus netravati* Tikader, 1963\***

- Goa (Bastawade & Borkar, 2008; Pandit & Dharwadkar, 2020)
- Karnataka (Tikader, 1963, 1971, 1980)
- Kerala (Sunil Jose *et al.*, 2008; Asima *et al.*, 2020; Sumesh & Sudhikumar, 2020; Smitha & Sudhikumar, 2020)
- Maharashtra (Bastawade & Sharma, 2002)

**139. *Strigoplus* sp.**

- Goa (Pandit & Pai, 2017)
- Karnataka (Murali *et al.*, 2017)
- Kerala (Joseph & Premila, 2016)
- Maharashtra (Warghat *et al.*, 2011)

**140. *Synema decoratum* Tikader, 1960.**Syn. *Synaema decorata* Tikader, 1960

- Chhattisgarh (Gajbe, 2003b, 2004d, 2005; Kujur & Ekka, 2016)
- Gujarat (Parmar, 2013; Parmar & Acharya, 2015; Parmar & Patel, 2017; Parmar *et al.*, 2015; Yadav *et al.*, 2017a)
- Karnataka (Tikader, 1971, 1980; Tikader & Biswas, 1981; Gajbe, 2004d, 2007; Majumder, 2005)
- Kerala (Adarsh & Nameer, 2016)
- Madhya Pradesh (Gajbe, 2003a, b, 2004d, 2005, 2007; Patil, 2012)
- Maharashtra (Tikader, 1971, 1980; Gajbe, 2004d, 2007; Majumder, 2005; Majumder, 2005; Vairale & Wagh, 2021)
- Tamil Nadu (Caleb, 2020a)
- Uttarakhand (Uniyal *et al.*, 2011)
- West Bengal (Tikader, 1960, 1971, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Gajbe, 2004d, 2007)

Elsewhere: China

**141. *Synema mysorensis* Tikader, 1980\***Syn. *Synaema mysorensis* Tikader, 1980

- Chhattisgarh (Kujur & Ekka, 2016)
- Karnataka (Tikader, 1980; Gajbe, 2007)
- Madhya Pradesh (Gajbe, 2003b, 2007)

**142. *Synema revolutum* Tang & Li, 2010**

- Goa (Pandit & Dharwadkar, 2020)
- West Bengal (Sen *et al.*, 2012, 2015)

Elsewhere: China

**143. *Synema* sp.**

- Goa (Pandit & Pai, 2017)
- Rajasthan (Sivaperuman & Rathore, 2004)

**144. *Talaus opportunus* (Pickard-Cambridge, 1873)**

- Kerala (Adarsh & Nameer, 2016)
- Tamil Nadu (Simon, 1906)

Elsewhere: Sri Lanka

**145. *Tharpyna himachalensis* Tikader & Biswas, 1979\***

- Himachal Pradesh (Tikader & Biswas, 1979)

**146. *Tharpyna indica* Tikader & Biswas, 1979\***

- West Bengal (Tikader & Biswas, 1979, 1981)

**147. *Tharpyna* sp.**

- Jharkhand (Agrawal & Ghosh, 1995)

**148. *Tharrhalea evanida* (L. Koch, 1867).**Syn. *Diaea evanida* L. Koch, 1867

- Haryana (Malik & Goyal, 2017)
- Maharashtra (Warghat *et al.*, 2011)

Elsewhere: Australia, New Guinea

**149. *Thomisus andamanensis* Tikader, 1980\***

- Andaman & Nicobar Islands (Tikader, 1980)
- Delhi (Malik *et al.*, 2015)
- Gujarat (Trivedi, 2009)
- Karnataka (Nautiyal *et al.*, 2017)
- Kerala (Sebastian *et al.*, 2005b, 2011; Jose *et al.*, 2007; Dhali *et al.*, 2019)
- Maharashtra (Warghat *et al.*, 2011, 2014)
- Meghalaya (Roy *et al.*, 2017)
- Rajasthan (Sen *et al.*, 2009; Saha *et al.*, 2015b)
- West Bengal (Sen *et al.*, 2015; Raychaudhuri *et al.*, 2016; Saha *et al.*, 2016; Chandra *et al.*, 2021)

**150. *Thomisus armillatus* (Thorell, 1891)\***Syn. *Daradius armillatus* Thorell, 1891

- Andaman & Nicobar Islands (Thorell, 1891; Leardi in Airaghi, 1901b).

**151. *Thomisus ashishi* Gajbe, 2005\***

- Madhya Pradesh (Gajbe, 2005).
- Maharashtra (Rithe, 2012).

**152. *Thomisus baghdeoi* Gajbe, 2004\***

- Madhya Pradesh (Gajbe, 2004a)

**153. *Thomisus bargi* Gajbe, 2004\***

- Chhattisgarh (Ekka & Kujur, 2015; Kujur & Ekka, 2016)
- Madhya Pradesh (Gajbe, 2004d; Patil, 2012).
- 154. *Thomisus beautifularis* Basu, 1965\***
- Maharashtra (Deshmukh & Tekade, 2019; Vairale & Wagh, 2021).
- Tamil Nadu (Ganesh Kumar & Velusamy, 1996; Sugimaran *et al.*, 2007).
- West Bengal (Basu, 1965b; Biswas & Biswas, 1992; Majumder, 2005).
- 155. *Thomisus bulani* Tikader, 1960\***
- Gujarat (Siliwal *et al.*, 2003b; Patel, 2003b)
- West Bengal (Tikader, 1960, 1971, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Majumder, 2005; Saha & Raychaudhuri, 2007a).
- 156. *Thomisus danieli* Gajbe, 2004\***
- Chhattisgarh (Ekka & Kujur, 2015; Kujur & Ekka, 2016).
- Madhya Pradesh (Gajbe, 2004d; Patil, 2012)
- Maharashtra (Warghat *et al.*, 2014)
- 157. *Thomisus daradioides* Simon, 1890**
- India (Bonnet, 1959)
- Elsewhere: Pakistan, South Africa, Sudan, Yemen
- 158. *Thomisus dentiger* (Thorell, 1887)**
- Syn. *Daradius dentiger* Thorell, 1887)
- Uttarakhand (Leardi in Airaghi, 1901a)
- Elsewhere: Myanmar
- 159. *Thomisus dhakuriensis* Tikader, 1960\***
- Gujarat (Kumar & Shivakumar, 2006; Yadav, 2019)
- West Bengal (Tikader, 1960, 1971, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Majumder, 2005)
- 160. *Thomisus dhananjayi* Gajbe, 2005\***
- Madhya Pradesh (Gajbe, 2005)
- 161. *Thomisus dyali* Kumari & Mittal, 1997\***
- Punjab (Kumari & Mittal, 1997)
- 162. *Thomisus elongatus* Stoliczka, 1869\***
- Chhattisgarh (Gajbe, 2003b).
- Gujarat (Patel & Pillai, 1988; Siliwal *et al.*, 2003a).
- Jammu & Kashmir (Khan, 2006).
- Madhya Pradesh (Gajbe, 2007).
- Maharashtra (Meshram, 2011; Vairale & Wagh, 2021).
- West Bengal (Stoliczka, 1869; Tikader, 1971, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Majumder, 2005; Gajbe, 2007).
- 163. *Thomisus godavariae* Reddy & Patel, 1992\***
- Andhra Pradesh (Reddy & Patel, 1992)
- 164. *Thomisus granulifrons* Simon, 1906.**
- Maharashtra (More & Sawant, 2013; More, 2015a).
- Puducherry (Simon, 1906).
- Tamil Nadu (Simon, 1906; Karthikeyani *et al.*, 2017).
- Elsewhere: Sri Lanka
- 165. *Thomisus italongus* Barrion & Litsinger, 1995**
- Rajasthan (Sen *et al.*, 2009; Saha *et al.*, 2015b)
- Elsewhere: Philippines.
- 166. *Thomisus katrajghatus* Tikader, 1963\***
- Madhya Pradesh (Tikader, 1971; Gajbe, 2003b, 2007)
- Maharashtra (Tikader, 1963, 1980; Tikader & Biswas, 1981; Gajbe, 2007; Pande *et al.*, 2013).
- West Bengal (Tikader & Biswas, 1981; Biswas & Biswas, 1992; Majumder, 2005)
- 167. *Thomisus keralae* Biswas & Roy, 2005\***
- Kerala (Biswas & Roy, 2005a)
- 168. *Thomisus kokiwadae* Gajbe, 2004\***
- Madhya Pradesh (Gajbe, 2004a)
- 169. *Thomisus krishnae* Reddy & Patel, 1992\***
- Andhra Pradesh (Reddy & Patel, 1992)
- Gujarat (Patel, 2003b; Siliwal *et al.*, 2003b; Kumar & Yashkamal, 2011)
- 170. *Thomisus laglaizei* Simon, 1877**
- Tamil Nadu (Leardi in Airaghi, 1901b)
- Elsewhere: Indonesia, Myanmar, Philippines
- 171. *Thomisus leucaspis* Simon, 1906**
- Tamil Nadu (Simon, 1906; Karthikeyani *et al.*, 2017)
- Elsewhere: New Caledonia
- 172. *Thomisus lobosus* Tikader, 1965\***
- Assam (Chetia & Kalita, 2012; Basumatary & Brahma, 2017)
- Chhattisgarh (Gajbe, 2003b, 2005; Kujur & Ekka, 2016)
- Gujarat (Parmar, 2013; Parmar & Patel, 2017; Parmar *et al.*, 2015)
- Jammu & Kashmir (Chandra *et al.*, 2021)
- Karnataka (Nalini Bai & Ravindranatha, 2012; Bhat *et al.*, 2013; Vaibhav *et al.*, 2017)
- Kerala (Sunil Jose & Sebastian, 2001; Sebastian *et al.*, 2005a; Sebastian *et al.*, 2011; Jose *et al.*, 2018; Rajeevan *et al.*, 2019)
- Madhya Pradesh (Gajbe, 2007)
- Maharashtra (Tikader, 1965, 1980; Gajbe, 2005, 2007; Lanka *et al.*, 2017)
- Odisha (Mohapatra *et al.*, 2014)
- Rajasthan (Kaur *et al.*, 2014; Lawania & Trigunayat, 2015; Kashmeera *et al.*, 2020)
- Tamil Nadu (Karthikeyani *et al.*, 2017; Kadam & Rajkumar, 2020)
- Uttar Pradesh (Lawania & Mathur, 2014a, b, c, d)
- Uttarakhand (Gupta & Siliwal, 2012; Pooja *et al.*, 2019)
- 173. *Thomisus ludhianaensis* Kumari & Mittal, 1997\***
- Punjab (Kumari & Mittal, 1997)
- 174. *Thomisus manishae* Gajbe, 2005\***
- Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015)
- Madhya Pradesh (Gajbe, 2005)

**175. *Thomisus manjuae* Gajbe, 2005\***

- Madhya Pradesh (Gajbe, 2005)

**176. *Thomisus meenae* Gajbe, 2005\***

- Madhya Pradesh (Gajbe, 2005)

**177. *Thomisus mimae* Sen & Basu, 1963\***

- Maharashtra (Vairale & Wagh, 2021)
- West Bengal (Sen & Basu, 1963; Tikader, 1971, 1980; Biswas & Biswas, 1992; Majumder, 2005)

**178. *Thomisus nirmali* Saha & Raychaudhuri, 2007\***

- Jammu & Kashmir (Punjoo & Bhat, 2015)
- West Bengal (Saha & Raychaudhuri, 2007b)

**179. *Thomisus okinawensis* Strand, 1907**

- Madhya Pradesh (Keswani, 2014)
- Maharashtra (Maheshwari *et al.*, 2018)

Elsewhere: Indonesia, Japan, Philippines, Thailand

**180. *Thomisus onustus* Walckenaer, 1805**

Syn. *Thomisus diadema* Hahn, 1832

- Andaman & Nicobar Islands (Thorell, 1891)
- Uttarakhand (Uniyal *et al.*, 2011)

Elsewhere: Africa, Belgium, Britain, Caucasus, China, Europe, France, Germany, Iran, Israel, Japan, Korea, Mediterranean, North Africa, Palestine, Poland, Russia, Selvagens Is., Sweden, Turkey, Yemen

**181. *Thomisus pateli* Gajbe, 2004\***

- Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015)
- Madhya Pradesh (Gajbe, 2004d; Patil, 2012)
- Maharashtra (Warghat *et al.*, 2014)

**182. *Thomisus pathaki* Gajbe, 2004 \***

- Maharashtra (More & Sawant, 2013; More, 2015a, b)
- Chhattisgarh (Ekka & Kujur, 2015)
- Madhya Pradesh (Gajbe, 2004d; Patil, 2012; )

**183. *Thomisus pooneus* Tikader, 1965\***

- Haryana (Malik & Goyal, 2017)
- Madhya Pradesh (Patil *et al.*, 2013)
- Maharashtra (Tikader, 1965, 1980; More & Sawant, 2013; Pande *et al.*, 2013; Vairale & Wagh, 2021)
- Uttar Pradesh (Chandra *et al.*, 2021)

**184. *Thomisus pritiae* Gajbe, 2005\***

- Gujarat (Parmar & Patel, 2017)
- Madhya Pradesh (Gajbe, 2005)

**185. *Thomisus projectus* Tikader, 1960\***

- Assam (Chetia & Kalita, 2012)
- Chhattisgarh (Gajbe, 2003b; Gajbe & Sharma, 1994; Kujur & Ekka, 2016)
- Gujarat (Patel, 2003b; Trivedi, 2009; Parmar, 2013; Parasharya & Pathan, 2013; Parmar *et al.*, 2015; Yadav *et al.*, 2017a)
- Haryana (Malik & Goyal, 2017)
- Jammu & Kashmir (Chandra *et al.*, 2021)

- Karnataka (Murali *et al.*, 2017)

- Kerala (Sebastian *et al.*, 2011; Ambily & Antony, 2016; Jose *et al.*, 2018; Rajeevan *et al.*, 2019; Sumesh & Sudhikumar, 2020)

- Madhya Pradesh (Tikader, 1971; Gajbe, 1995b, 2003B, 2007)

- Maharashtra (Warghat *et al.*, 2011; Vairale & Wagh, 2021)

- Manipur (Biswas & Biswas, 2004)

- Odisha (Panda *et al.*, 2011)

- Rajasthan (Chauhan *et al.*, 2009; Lawania & Trigunayat, 2015; Kumari *et al.*, 2017)

- Telangana (Pravalikha & Srinivasulu, 2015)

- Uttar Pradesh (Lawania & Mathur, 2014b, c, d)

- West Bengal (Tikader, 1960, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Majumder, 2005; Gajbe, 2007)

**186. *Thomisus pugilis* Stoliczka, 1869\***

- Assam (Gupta *et al.*, 2015)

- Gujarat (Patel & Pillai, 1988; Siliwal *et al.*, 2003a; Prajapati *et al.*, 2016)

- Jammu & Kashmir (Khan, 2006)

- Karnataka (Nalini Bai & Ravindranatha, 2012; Nautiyal *et al.*, 2017; Kokilamani *et al.*, 2019)

- Kerala (Sebastian *et al.*, 2005a; Mathew *et al.*, 2014; Asima *et al.*, 2020; Smitha & Sudhikumar, 2020)

- Lakshadweep (Pocock, 1904)

- Madhya Pradesh (Tikader, 1971; Gajbe, 1995a, 2003b; Patil, 2012)

- Maharashtra (Lanka *et al.*, 2017; Vairale & Wagh, 2021)

- Mizoram (Chowdhury *et al.*, 2017)

- Odisha (Panda *et al.*, 2011)

- Punjab (Tikader, 1971, 1980; Tikader & Biswas, 1981; Majumder, 2005; Caleb, 2020a)

- Rajasthan (Kaur *et al.*, 2014)

- Tamil Nadu (Leardi in Airaghi, 1901b; Tikader, 1971, 1980; Tikader & Biswas, 1981; Ganesh Kumar & Velusamy, 1996; Majumder, 2005; Gajbe, 2005; Karthikeyani *et al.*, 2017; Caleb, 2020a)

- Uttar Pradesh (Hore & Uniyal, 2008a, b; Uniyal & Hore, 2009)

- West Bengal (Stoliczka, 1869; Leardi in Airaghi, 1901b; Tikader, 1980; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Majumder, 2005; Caleb, 2020a)

**187. *Thomisus rajani* Bhandari & Gajbe, 2001\***

- Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015; Kujur & Ekka, 2016)

- Madhya Pradesh (Bhandari & Gajbe, 2001; Gajbe, 2003a, b, 2004d; Patil, 2012)

- Maharashtra (Rithe, 2012)

**188. *Thomisus rigoratus* Simon, 1906\***

• Tamil Nadu (Simon, 1906; Leardi in Airaghi, 1901b; Karthikeyani *et al.*, 2017)

**189. *Thomisus rishus* Tikader, 1970\***

• Sikkim (Tikader, 1970, 1971, 1980)

**190. *Thomisus shillongensis* Sen, 1963\***

• Meghalaya (Sen, 1963; Tikader, 1968, 1971, 1980; Biswas & Majumder, 1995)

**191. *Thomisus shivajiensis* Tikader, 1965\***

• Gujarat (Siliwal *et al.*, 2003b; Solanki & Kumar, 2014)

• Haryana (Malik & Goyal, 2017)

• Maharashtra (Tikader, 1965, 1971, 1980; Meshram, 2011)

• Punjab (Kumari, 1983)

**192. *Thomisus sikkimensis* Tikader, 1962\***

• Odisha (Chetry & Moran, 2019)

• Sikkim (Tikader, 1962, 1970, 1980)

• West Bengal (Saha *et al.*, 2020)

**193. *Thomisus simoni* Gajbe, 2004\***

• Madhya Pradesh (Gajbe, 2004d; Patil, 2012)

• Chhattisgarh (Ekka & Kujur, 2015; Kujur & Ekka, 2016)

**194. *Thomisus sorajaii* Basu, 1963\***

• Maharashtra (Bastawade, 2008).

• Uttar Pradesh (Chandra *et al.*, 2021).

• West Bengal (Basu, 1963; Tikader, 1971, 1980; Biswas & Biswas, 1992; Majumder, 2005).

**195. *Thomisus spectabilis* Doleschall, 1859**

Syn. *Daradius annulipes* Thorell, 1877.

• Goa (Pandit & Pai, 2017).

• Gujarat (ICAR-NBAIR, 2019).

• Karnataka (Shraddha & Chaturved, 2019, 2020).

• Kerala (Vineetha & George, 2021).

• Maharashtra (Warghat *et al.*, 2011)

• Puducherry (Leardi in Airaghi, 1901b)

• Tamil Nadu (Reimoser, 1934)

• West Bengal (Ghosh *et al.*, 2018)

Elsewhere: Australia, Indonesia, Malaysia, Micronesia, New Guinea,

**196. *Thomisus stoliczkai* (Thorell, 1887)**

• Karnataka (Leardi in Airaghi, 1901b)

Elsewhere: Myanmar

**197. *Thomisus sundari* Gajbe & Gajbe, 2000\***

• Chhattisgarh (Kujur & Ekka, 2016)

• Madhya Pradesh (Gajbe & Gajbe, 2000b; Gajbe, 2003a, b; Patil, 2012)

**198. *Thomisus telanganaensis* Pravalikha & Srinivasulu, 2015\***

• Kerala (Rajeevan *et al.*, 2019)

• Telangana (Pravalikha & Srinivasulu, 2015)

**199. *Thomisus unidentatus* Dippenaar-Schoeman & van Harten, 2007**

• Delhi (Diksha *et al.*, 2018)

• Uttar Pradesh (Diksha *et al.*, 2018)

Elsewhere: Iran, Iraq, Yemen

**200. *Thomisus viveki* Gajbe, 2004\***

• Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015)

• Madhya Pradesh (Gajbe, 2004d; Patil, 2012)

• Maharashtra (Rithe, 2012; More & Sawant, 2013; Warghat *et al.*, 2014)

**201. *Thomisus whitakeri* Gajbe, 2004\***

• Chhattisgarh (Ekka & Kujur, 2015)

• Madhya Pradesh (Gajbe, 2004d; Patil, 2012)

• Maharashtra (Meshram, 2011; Vairale & Wagh, 2021)

**202. *Thomisus* sp.**

• Andhra Pradesh (Palem *et al.*, 2016)

• Assam (Das *et al.*, 2015; Pandit, 2019)

• Bihar (Yadav *et al.*, 2016)

• Chhattisgarh (Ekka & Kujur, 2015)

• Goa (Pandit & Dharwadkar, 2020).

• Gujarat (Siliwal *et al.*, 2003a; Yadav *et al.*, 2017a).

• Jammu & Kashmir (Khan, 2009; Khan & Rather, 2012).

• Kerala (Sebastian *et al.*, 2005b).

• Madhya Pradesh (Gajbe, 2004b; Sen *et al.*, 2010b).

• Maharashtra (Nerlekar *et al.*, 2016)

• Odisha (Choudhury *et al.*, 2019)

• Tamil Nadu (Kapoor, 2008; Caleb, 2020b)

• Uttar Pradesh (Khan & Mishra, 2003; Chandra *et al.*, 2021)

• Uttarakhand (Uniyal & Hore, 2006; Pooja *et al.*, 2019)

**203. *Tmarus dejectus* (O. Pickard-Cambridge, 1885)\***

Syn. *Monastes dejectus* O. Pickard-Cambridge, 1885

• Jammu & Kashmir (Pickard-Cambridge, 1885; Caporiacco, 1935)

Elsewhere: Pakistan

**204. *Tmarus fasciolatus* Simon, 1906\***

• Puducherry (Simon, 1906)

• Tamil Nadu (Simon, 1906; Leardi in Airaghi, 1901b; Karthikeyani *et al.*, 2017)

**205. *Tmarus jabalpurensis* Gajbe & Gajbe, 1999\***

• Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015)

• Madhya Pradesh (Gajbe & Gajbe, 1999a; Gajbe, 2003a, b, 2004d; Patil, 2012)

• Maharashtra (Rithe, 2012; More & Sawant, 2013; More, 2015a)

**206. *Tmarus kotigeharus* Tikader, 1963\***

• Assam (Tikader, 1968)

• Gujarat (Patel, 2003b; Yadav *et al.*, 2017a)

• Karnataka (Tikader, 1963, 1971, 1980)

- Kerala (Sumesh & Sudhikumar, 2020)
- Maharashtra (Tikader, 1971; Bastawade & Khandal, 2006; More & Sawant, 2013; More, 2015a)
- Meghalaya (Tikader, 1971)
- Punjab (Kumari, 1983)
- Rajasthan (Kashmeera *et al.*, 2020)
- West Bengal (Sen *et al.*, 2015)
- 207. *Tmarus soricinus* Simon, 1906\***
- Kerala (Joseph *et al.*, 2017)
- Tamil Nadu (Simon, 1906; Leardi in Airaghi, 1901b; Karthikeyani *et al.*, 2017)
- 208. *Tmarus srisailamensis* Rao *et al.*, 2006\***
- Andhra Pradesh (Rao *et al.*, 2006)
- 209. *Tmarus stellio* Simon, 1875**
- Jammu & Kashmir (Caporiacco, 1935)
- Elsewhere: Caucasus, Europe, Iran, Turkey.
- 210. *Tmarus* sp.**
- Assam (Basumatary & Brahma, 2017)
- Gujarat (Siliwal *et al.*, 2003a)
- Madhya Pradesh (Gajbe, 2004b)
- Manipur (Kananbala *et al.*, 2018)
- Rajasthan (Chauhan *et al.*, 2009; Kumari *et al.*, 2017; Lawania & Mathur, 2017)
- Tamil Nadu (Kapoor, 2008; Kadam & Rajkumar, 2020)
- 211. *Xysticus audax* (Schränk, 1803)**
- Syn. *Xysticus pini* (Hahn, 1931)
- Jammu & Kashmir (Caporiacco, 1935)
- Kerala (Sumesh & Sudhikumar, 2020)
- Elsewhere: Caucasus, Europe, Iran, Japan, Kazakhstan, Korea, Russia, Turkey
- 212. *Xysticus bengalensis* Tikader & Biswas, 1974\***
- Madhya Pradesh (Gajbe, 2003a, b, 2004d, 2007; Patil, 2012)
- Rajasthan (Malhotra *et al.*, 2019)
- West Bengal (Tikader & Biswas, 1974; Tikader, 1980; Biswas & Biswas, 1992; Majumder, 2005)
- 213. *Xysticus bengdakus* Saha & Raychaudhuri, 2007\***
- West Bengal (Saha & Raychaudhuri, 2007a)
- 214. *Xysticus bharaatae* Gajbe & Gajbe, 1999\***
- Chhattisgarh (Ekka & Kujur, 2015)
- Madhya Pradesh (Gajbe & Gajbe, 1999b; Gajbe, 2003a, b, 2004d; Patil, 2012)
- Maharashtra (Rithe, 2012; More, 2015a, b)
- 215. *Xysticus breviceps* O. Pickard-Cambridge, 1885\***
- Gujarat (Parmar, 2013; Parmar *et al.*, 2015)
- Kerala (Adarsh & Nameer, 2016; Joseph *et al.*, 2017; Asima *et al.*, 2020)
- Ladakh (Pickard-Cambridge, 1885)
- Maharashtra (Rithe, 2012; More & Sawant, 2013; More, 2015a).
- 216. *Xysticus cristatus* (Clerck, 1757) .**
- Syn. *Daradius cristatus* (Clerck, 1757).
- Jammu & Kashmir (Caporiacco, 1935; Punjoo & Bhat, 2015).
- Kerala (Sumesh & Sudhikumar, 2020).
- Puducherry (Leardi in Airaghi, 1901b).
- Elsewhere: Canada, Caucasus, Central Asia, China, Europe, Iran, Japan, Kazakhstan, Korea, Russia, Turkey, USA.
- 217. *Xysticus croceus* Fox, 1937**
- Syn. *Xysticus sujatai* Tikader, 1962)
- Arunachal Pradesh (Tikader, 1971; Biswas & Biswas, 2006)
- Gujarat (Patel & Pillai, 1988)
- Meghalaya (Tikader, 1962, 1971, 1980; Biswas & Majumder, 1995)
- Mizoram (Biswas & Biswas, 2007)
- Uttarakhand (Quasin & Uniyal, 2010; Uniyal *et al.*, 2011)
- West Bengal (Biswas & Biswas, 2006)
- Elsewhere: Bhutan, China, Japan, Korea, Nepal, Taiwan, Vietnam
- 218. *Xysticus himalayaensis* Tikader & Biswas, 1974\***
- Kerala (Sudhikumar *et al.*, 2005; Sunil Jose *et al.*, 2008)
- West Bengal (Tikader & Biswas, 1974; Tikader, 1980; Biswas & Biswas, 1992)
- 219. *Xysticus hindusthanicus* Basu, 1965\***
- West Bengal (Basu, 1965b; Tikader, 1971, 1980; Biswas & Biswas, 1992; Majumder, 2005)
- 220. *Xysticus jabalpurensis* Gajbe & Gajbe, 1999\***
- Chhattisgarh (Ekka & Kujur, 2015; Kujur & Ekka, 2016)
- Madhya Pradesh (Gajbe & Gajbe, 1999b; Gajbe, 2003a, b, 2004d; Patil, 2012)
- Maharashtra (Rithe, 2012)
- 221. *Xysticus jaharai* Basu, 1979\***
- Uttarakhand (Basu, 1979)
- 222. *Xysticus joyantius* Tikader, 1966\***
- Syn. *Xysticus jayantius* Tikader, 1966)
- Chhattisgarh (Gajbe, 2003b; Ekka & Kujur, 2015; Kujur & Ekka, 2016)
- Gujarat (Parmar, 2013)
- Madhya Pradesh (Gajbe, 2003b, 2007)
- Maharashtra (Meshram, 2011; Vairale & Wagh, 2021)
- Meghalaya (Tikader, 1966b, 1968, 1971, 1980; Biswas & Majumder, 1995; Gajbe, 2007).
- Uttarakhand (Uniyal *et al.*, 2011).
- 223. *Xysticus kali* Tikader & Biswas, 1974\***
- Chhattisgarh (Ekka & Kujur, 2015; Kujur & Ekka, 2016)
- Madhya Pradesh (Gajbe, 2003b, 2005, 2007).
- Maharashtra (Meshram, 2011).
- Uttarakhand (Uniyal *et al.*, 2011)



- West Bengal (Tikader & Biswas, 1974; Tikader, 1980; Biswas & Biswas, 1992; Gajbe, 2005)

**224. *Xysticus kamakhya* Tikader, 1962\***

- Meghalaya (Tikader, 1962, 1971, 1980; Biswas & Majumder, 1995)

**225. *Xysticus kashidi* Tikader, 1963\***

- Karnataka (Tikader, 1963, 1971, 1980)

**226. *Xysticus khasiensis* Tikader, 1980\***

- Chhattisgarh (Gajbe & Sharma, 1994)
- Maharashtra (More & Sawant, 2013; More, 2015a)
- Meghalaya (Tikader, 1980; Biswas & Majumder, 1995)

**227. *Xysticus maculiger* Roewer, 1951**

Syn. *Xysticus maculosus* Pickard-Cambridge, 1885)

- Jammu & Kashmir (Caporiacco, 1935)

Elsewhere: China

**228. *Xysticus mundulus* O. Pickard-Cambridge, 1885\***

- Jammu & Kashmir (O. Pickard-Cambridge, 1885; Caporiacco, 1935)

**229. *Xysticus pynurus* Tikader, 1966\***

- Meghalaya (Tikader, 1966b, 1968, 1971, 1980; Biswas & Majumder, 1995)

**230. *Xysticus roonwali* Tikader, 1964**

- Sikkim (Tikader, 1971, 1980)

Elsewhere: Nepal

**231. *Xysticus shillongensis* Tikader, 1962\***

- Meghalaya (Tikader, 1962, 1971, 1980; Biswas & Majumder, 1995)

**232. *Xysticus shyamrupus* Tikader, 1966\***

- Madhya Pradesh (Gajbe, 2003b, 2007).
- Meghalaya (Tikader, 1966a, 1971, 1980; Biswas & Majumder, 1995; Gajbe, 2007).
- Uttarakhand (Biswas & Biswas, 2010).

**233. *Xysticus sikkimus* Tikader, 1970**

- Sikkim (Tikader, 1970, 1971, 1980)

Elsewhere: China

**234. *Xysticus tikaderi* Bhandari & Gajbe, 2001\***

- Chhattisgarh (Kujur & Ekka, 2012; Ekka & Kujur, 2015)
- Karnataka (Bhat *et al.*, 2013)
- Madhya Pradesh (Bhandari & Gajbe, 2001; Gajbe, 2003a, b, 2004a; Patil, 2012)
- Maharashtra (More & Sawant, 2013; More, 2015a, b).

**235. *Xysticus viveki* Gajbe, 2005\***

- Madhya Pradesh (Gajbe, 2005)

**236. *Xysticus yogeshi* Gajbe, 2005\***

- Madhya Pradesh (Gajbe, 2005)

**237. *Xysticus* sp.**

- Assam (Pandit, 2019)
- Goa (Pandit & Dharwadkar, 2020)
- Gujarat (Solanki & Kumar, 2014; Parmar *et al.*, 2015)

- Jammu & Kashmir (Khan, 2009; Punjoo & Bhat, 2015)
- Karnataka (Bhat *et al.*, 2013; Nautiyal *et al.*, 2017)
- Kerala (Sebastian *et al.*, 2005a; Sunil Jose *et al.*, 2008)
- Ladakh (Uniyal, 2006)
- Madhya Pradesh (Sen *et al.*, 2010b)
- Maharashtra (Lanka *et al.*, 2017)
- Rajasthan (Malhotra *et al.*, 2019)
- Tamil Nadu (Caleb, 2020b)
- Uttar Pradesh (Anjali & Prakash, 2012; Kumar *et al.*, 2017a)
- Uttarakhand (Uniyal *et al.*, 2011; Gupta & Siliwal, 2012).

## II. Checklist of Crab Spiders (Thomisidae) in Indian States

**1. Andhra Pradesh:** *Camaricus bipunctatus*, *Runcinia escheri*, *Thomisus godavariae*, *Thomisus krishnae*, *Tmarus srisailamensis*

**2. Arunachal Pradesh:** *Camaricus bipunctatus*, *Camaricus formosus*, *Runcinia insecta*, *Xysticus croceus*

**3. Assam:** *Amyciaea forticeps*, *Borboropactus elephantus*, *Camaricus formosus*, *Henriksenia hilaris*, *Indoxysticus minutus*, *Lysiteles mandali*, *Misumena vatia*, *Oxytate elongata*, *Oxytate virens*, *Ozyptila manii*, *Phrynarachne ceylonica*, *Phrynarachne peeliana*, *Platythomisus xiandao*, *Runcinia insecta*, *Runcinia roonwali*, *Thomisus lobosus*, *Thomisus projectus*, *Thomisus pugilis*, *Tmarus kotigeharus*

**4. Bihar:** *Indoxysticus minutus*, *Thomisus* sp.

**5. Chhattisgarh:** *Amyciaea forticeps*, *Indoxysticus minutus*, *Misumenoides gwarighatensis*, *Monaeses jabalpurensis*, *Oxytate elongata*, *Ozyptila amkhasensis*, *Ozyptila jabalpurensis*, *Runcinia insecta*, *Runcinia khandari*, *Runcinia yogeshi*, *Synema decoratum*, *Synema mysorensis*, *Thomisus bargi*, *Thomisus danieli*, *Thomisus elongatus*, *Thomisus lobosus*, *Thomisus manishae*, *Thomisus pateli*, *Thomisus pathaki*, *Thomisus projectus*, *Thomisus rajani*, *Thomisus stoliczkai*, *Thomisus sundari*, *Thomisus viveki*, *Thomisus whitakeri*, *Tmarus jabalpurensis*, *Xysticus bharaatae*, *Xysticus jabalpurensis*, *Xysticus joyantius*, *Xysticus kali*, *Xysticus khasiensis*, *Xysticus tikaderi*

**6. Goa:** *Amyciaea forticeps*, *Angaeus* sp., *Camaricus formosus*, *Massuria* sp., *Misumena vatia*, *Oxytate* sp., *Platythomisus sudeepi*, *Stiphropus* sp., *Strigoplus netravati*, *Synema revolutum*, *Thomisus spectabilis*, *Xysticus* sp.

**7. Gujarat:** *Amyciaea forticeps*, *Camaricus formosus*, *Camaricus khandalaensis*, *Diaea* sp., *Ebrechtella concinna*, *Indoxysticus lumbricus*, *Indoxysticus minutus*, *Mastira menoka*, *Misumena* sp., *Misumenoides* sp., *Monaeses mukundi*, *Monaeses parvati*, *Oxytate elongata*, *Oxytate virens*, *Ozyptila maratha*, *Runcinia ghorpadei*, *Runcinia insecta*, *Runcinia roonwali*, *Synema decoratum*, *Thomisus andamanensis*, *Thomisus bulani*, *Thomisus dhakuriensis*, *Thomisus elongatus*, *Thomisus krishnae*, *Thomisus lobosus*, *Thomisus pritiiae*, *Thomisus projectus*,

*Thomisus pugilis*, *Thomisus shivajiensis*, *Thomisus spectabilis*, *Tmarus kotigeharus*, *Xysticus breviceps*, *Xysticus croceus*, *Xysticus joyantius*

**8. Haryana:** *Runcinia insecta*, *Runcinia roonwali*, *Tharrhalea evanida*, *Thomisus pooneus*, *Thomisus projectus*, *Thomisus shivajiensis*

**9. Himachal Pradesh:** *Tharpyna himachalensis*

**10. Jharkhand:** *Tharpyna* sp.

**11. Karnataka:** *Amyciaea forticeps*, *Angaeus pentagonalis*, *Bomis* sp., *Camaricus formosus*, *Indoxysticus minutus*, *Loxobates castetsi*, *Mastira menoka*, *Misumena annapurna*, *Misumena indra*, *Misumena vatia*, *Misumenoides* sp., *Misumenops rubrodecoratus*, *Misumessus oblongus*, *Oxytate virens*, *Pasias puspagiri*, *Platythomisus sudeepi*, *Runcinia acuminata*, *Runcinia ghorpadei*, *Runcinia insecta*, *Runcinia roonwali*, *Stiphropus duriusculus*, *Strigoplus netravigi*, *Synema decoratum*, *Synema mysorensis*, *Thomisus andamanensis*, *Thomisus lobosus*, *Thomisus projectus*, *Thomisus pugilis*, *Thomisus spectabilis*, *Thomisus stoliczkai*, *Tmarus kotigeharus*, *Xysticus kashidi*, *Xysticus tikaderi*

**12. Kerala:** *Amyciaea albomaculata*, *Amyciaea forticeps*, *Camaricus formosus*, *Camaricus khandalaensis*, *Camaricus rinkae*, *Demogenes andamanensis*, *Ebrechtella concinna*, *Epidius armatus*, *Epidius longipalpis*, *Epidius parvati*, *Henriksenia hilaris*, *Indoxysticus minutus*, *Mastira menoka*, *Misumena mridulai*, *Misumenops* sp., *Oxytate greenae*, *Oxytate virens*, *Ozyptila* sp., *Pistius* sp., *Platythomisus sudeepi*, *Psammitis minor*, *Runcinia insecta*, *Runcinia roonwali*, *Strigoplus moluri*, *Strigoplus netravigi*, *Synema decoratum*, *Talaus opportunus*, *Thomisus andamanensis*, *Thomisus keralae*, *Thomisus lobosus*, *Thomisus projectus*, *Thomisus pugilis*, *Thomisus spectabilis*, *Thomisus telanganaensis*, *Tmarus kotigeharus*, *Tmarus soricinus*, *Xysticus audax*, *Xysticus breviceps*, *Xysticus cristatus*, *Xysticus himalayaensis*

**13. Madhya Pradesh:** *Bomis khajuriai*, *Camaricus formosus*, *Indoxysticus minutus*, *Lysiteles brunettii*, *Misumena ritujae*, *Misumenoides gwarighatensis*, *Monaeses jabalpurensis*, *Monaeses pachpediensis*, *Oxytate elongata*, *Oxytate kanishkai*, *Ozyptila amkhasensis*, *Ozyptila jabalpurensis*, *Ozyptila maratha*, *Runcinia escheri*, *Runcinia insecta*, *Runcinia khandari*, *Runcinia sitadongri*, *Runcinia yogeshi*, *Stiphropus sangayus*, *Synema decoratum*, *Synema mysorensis*, *Thomisus ashishi*, *Thomisus baghdeoi*, *Thomisus bargi*, *Thomisus danieli*, *Thomisus dhananjayi*, *Thomisus elongatus*, *Thomisus katrajghatus*, *Thomisus kokiwadai*, *Thomisus lobosus*, *Thomisus manishae*, *Thomisus manjuae*, *Thomisus meenae*, *Thomisus okinawensis*, *Thomisus pateli*, *Thomisus pathaki*, *Thomisus pooneus*, *Thomisus pritiiae*, *Thomisus projectus*, *Thomisus pugilis*, *Thomisus rajani*, *Thomisus stoliczkai*, *Thomisus sundari*, *Thomisus viveki*, *Thomisus whitakeri*, *Tmarus jabalpurensis*, *Xysticus bengalensis*, *Xysticus bhadatae*, *Xysticus jabalpurensis*, *Xysticus joyantius*, *Xysticus kali*, *Xysticus shyamrupus*, *Xysticus tikaderi*, *Xysticus viveki*, *Xysticus yogeshi*

**14. Maharashtra:** *Amyciaea forticeps*, *Amyciaea forticeps*, *Angaeus pentagonalis*, *Borboropactus elephantus*, *Camaricus bipunctatus*, *Camaricus formosus*, *Camaricus khandalaensis*, *Camaricus siltorsus*, *Diaea bengalensis*, *Ebrechtella concinna*, *Ebrechtella tricuspida*, *Henriksenia hilaris*, *Heriaeus horridus*, *Indoxysticus minutus*, *Loxobates kapuri*, *Mastira menoka*, *Misumena annapurna*, *Misumena greenae*, *Misumena indra*, *Misumena mridulai*, *Misumena ritujae*, *Misumenoides gwarighatensis*, *Misumenops khandalaensis*, *Monaeses mukundi*, *Monaeses pachpediensis*, *Monaeses parvati*, *Oxytate elongata*, *Oxytate virens*, *Ozyptila chandosiensis*, *Ozyptila maratha*, *Pasias marathas*, *Pistius kalimpus*, *Pistius robustus*, *Platythomisus sudeepi*, *Runcinia acuminata*, *Runcinia ghorpadei*, *Runcinia insecta*, *Runcinia khandari*, *Runcinia roonwali*, *Runcinia yogeshi*, *Strigoplus moluri*, *Strigoplus netravigi*, *Synema decoratum*, *Tharrhalea evanida*, *Thomisus andamanensis*, *Thomisus ashishi*, *Thomisus beautifularis*, *Thomisus danieli*, *Thomisus elongatus*, *Thomisus granulifrons*, *Thomisus katrajghatus*, *Thomisus lobosus*, *Thomisus mimae*, *Thomisus okinawensis*, *Thomisus pateli*, *Thomisus pathaki*, *Thomisus pooneus*, *Thomisus projectus*, *Thomisus pugilis*, *Thomisus rajani*, *Thomisus shivajiensis*, *Thomisus sorajaii*, *Thomisus spectabilis*, *Thomisus viveki*, *Thomisus whitakeri*, *Tmarus jabalpurensis*, *Tmarus kotigeharus*, *Xysticus bhadatae*, *Xysticus breviceps*, *Xysticus jabalpurensis*, *Xysticus joyantius*, *Xysticus kali*, *Xysticus khasiensis*, *Xysticus tikaderi*

**15. Manipur:** *Amyciaea forticeps*, *Camaricus formosus*, *Diaea bengalensis*, *Diaea dorsata*, *Massuria sreepanchamii*, *Misumena* sp., *Oxytate elongata*, *Oxytate virens*, *Runcinia acuminata*, *Runcinia insecta*, *Thomisus projectus*, *Tmarus* sp.

**16. Meghalaya:** *Amyciaea forticeps*, *Borboropactus elephantus*, *Camaricus formosus*, *Diaea subdola*, *Henriksenia hilaris*, *Indoxysticus minutus*, *Lysiteles mandali*, *Massuria sreepanchamii*, *Misumena mridulai*, *Misumena vatia*, *Ozyptila khasi*, *Runcinia insecta*, *Runcinia roonwali*, *Thomisus andamanensis*, *Thomisus shillongensis*, *Tmarus kotigeharus*, *Xysticus croceus*, *Xysticus joyantius*, *Xysticus kamakhyai*, *Xysticus khasiensis*, *Xysticus pynurus*, *Xysticus shillongensis*, *Xysticus shyamrupus*

**17. Mizoram:** *Camaricus formosus*, *Ebrechtella concinna*, *Oxytate virens*, *Ozyptila* sp., *Thomisus pugilis*, *Xysticus croceus*

**18. Odisha:** *Amyciaea forticeps*, *Bomis* sp., *Camaricus formosus*, *Camaricus khandalaensis*, *Indoxysticus minutus*, *Oxytate* sp., *Runcinia* sp., *Thomisus lobosus*, *Thomisus projectus*, *Thomisus pugilis*, *Thomisus sikkimensis*

**19. Punjab:** *Indoxysticus minutus*, *Misumena ganpatii*, *Monaeses parvati*, *Pistius tikaderi*, *Thomisus dyali*, *Thomisus ludhianaensis*, *Thomisus pugilis*, *Thomisus shivajiensis*, *Tmarus kotigeharus*

**20. Rajasthan:** *Bomis* sp., *Indoxysticus minutus*, *Mecaphesa celer*, *Ozyptila brevipes*, *Ozyptila chandosiensis*, *Ozyptila reenae*, *Synema* sp., *Thomisus*

*andamanensis*, *Thomisus italongus*, *Thomisus lobosus*, *Thomisus projectus*, *Thomisus pugilis*, *Tmarus kotigeharus*, *Xysticus bengalensis*

**21. Sikkim:** *Epidius armatus*, *Pistius kalimpus*, *Runcinia bifrons*, *Thomisus rishus*, *Thomisus sikkimensis*, *Xysticus roonwali*, *Xysticus sikkimus*

**22. Tamil Nadu:** *Amyciaea forticeps*, *Angaeus pentagonalis*, *Bomis khajuriai*, *Camaricus formosus*, *Diaea pogneti*, *Dietopsa castaneifrons*, *Dietopsa parnassia*, *Epidius armatus*, *Epidius longimanus*, *Epidius mahavira*, *Henriksenia hilaris*, *Holopelus malati*, *Indoxysticus minutus*, *Lycopus trabeatus*, *Lysiteles catulus*, *Oxytate chlorion*, *Oxytate virens*, *Ozyptila theobaldi*, *Pagida salticiformis*, *Runcinia escheri*, *Runcinia insecta*, *Synema decoratum*, *Talaua opportunus*, *Thomisus beautifularis*, *Thomisus granulifrons*, *Thomisus laglaizei*, *Thomisus leucaspis*, *Thomisus lobosus*, *Thomisus pugilis*, *Thomisus rigoratus*, *Thomisus spectabilis*, *Tmarus fasciolatus*, *Tmarus soricinus*, *Xysticus* sp.

**23. Telangana:** *Thomisus projectus*, *Thomisus telanganaensis*

**24. Tripura:** *Amyciaea lineatipes*, *Camaricus formosus*, *Camaricus maugi*

**25. Uttar Pradesh:** *Camaricus formosus*, *Diaea subdola*, *Indoxysticus minutus*, *Lysiteles* sp., *Massuria roonwali*, *Mastira menoka*, *Misumena indra*, *Misumena mridulai*, *Misumena vatia*, *Ozyptila chandosiensis*, *Ozyptila manii*, *Pistius bhadurii*, *Runcinia insecta*, *Runcinia roonwali*, *Thomisus lobosus*, *Thomisus pooneus*, *Thomisus projectus*, *Thomisus pugilis*, *Thomisus sorajaii*, *Thomisus unidentatus*, *Xysticus* sp.

**26. Uttarakhand:** *Amyciaea forticeps*, *Bomis* sp., *Camaricus formosus*, *Diaea* sp., *Henriksenia hilaris*, *Heriaeus horridus*, *Indoxysticus minutus*, *Lysiteles brunettii*, *Lysiteles niger*, *Massuria roonwali*, *Mastira menoka*, *Misumena mridulai*, *Misumenoides naginae*, *Misumenops* sp., *Monaeses* sp., *Oxytate elongata*, *Ozyptila* sp., *Pistius barchensis*, *Pistius bhadurii*, *Pistius gangulyi*, *Pistius kanikae*, *Pistius robustus*, *Runcinia insecta*, *Synema decoratum*, *Thomisus dentiger*, *Thomisus lobosus*, *Thomisus onustus*, *Xysticus croceus*, *Xysticus jaharai*, *Xysticus joyantius*, *Xysticus kali*, *Xysticus shyamrupus*

**27. West Bengal:** *Amyciaea forticeps*, *Bomis bengalensis*, *Bomis calcuttaensis*, *Camaricus formosus*, *Camaricus khandalaensis*, *Camaricus siltorsus*, *Diaea bengalensis*, *Epidius armatus*, *Henriksenia hilaris*, *Indosmodicinus bengalensis*, *Indoxysticus minutus*, *Lysiteles brunettii*, *Massuria roonwali*, *Massuria sreepanchamii*, *Massuria uthoracica*, *Mastira nicobarensis*, *Misumena mickeyi*, *Oxytate greenae*, *Ozyptila khasi*, *Ozyptila manii*, *Ozyptila renae*, *Pharta indica*, *Phrynarachne peeliana*, *Phrynarachne tuberosa*, *Pistius barchensis*, *Pistius gangulyi*, *Pistius kalimpus*, *Runcinia insecta*, *Stiphropus soureni*, *Strigoplus bilobus*, *Synema decoratum*, *Synema revolutum*, *Tharpyna indica*, *Thomisus andamanensis*, *Thomisus beautifularis*, *Thomisus bulani*, *Thomisus dhakuriensis*, *Thomisus elongatus*, *Thomisus katrajghatus*,

*Thomisus mimae*, *Thomisus nirmali*, *Thomisus projectus*, *Thomisus pugilis*, *Thomisus sikkimensis*, *Thomisus sorajaii*, *Thomisus spectabilis*, *Xysticus bengalensis*, *Xysticus bengdakus*, *Xysticus croceus*, *Xysticus himalayaensis*, *Xysticus hindusthanicus*, *Xysticus kali*

### III. Checklist of Crab Spiders (Thomisidae) in Union Territories of India

**1. Andaman & Nicobar Islands:** *Demogenes andamanensis*, *Angaeus pentagonalis*, *Borboropactus bituberculatus*, *Camaricus formosus*, *Mastira nicobarensis*, *Oxytate greenae*, *Phrynarachne ceylonica*, *Runcinia insecta*, *Runcinia kinbergi*, *Thomisus andamanensis*, *Thomisus armillatus*, *Thomisus onustus*

**2. Delhi:** *Camaricus formosus*, *Monaeses parvati*, *Oxytate elongata*, *Thomisus andamanensis*, *Thomisus unidentatus*

**3. Jammu & Kashmir:** *Diaea subdola*, *Ebrechtella concinna*, *Ebrechtella sufflava*, *Ebrechtella tricuspidata*, *Lysiteles excultus*, *Misumena oblonga*, *Ozyptila trux*, *Psammitis setiger*, *Psammitis xysticiformis*, *Runcinia insecta*, *Thomisus elongatus*, *Thomisus lobosus*, *Thomisus nirmali*, *Thomisus projectus*, *Thomisus pugilis*, *Tmarus dejectus*, *Tmarus stellio*, *Xysticus audax*, *Xysticus cristatus*, *Xysticus maculiger*, *Xysticus mundulus*

**4. Ladakh:** *Misumena* sp., *Xysticus breviceps*

**5. Lakshadweep:** *Thomisus pugilis*

**6. Puducherry:** *Amyciaea forticeps*, *Henriksenia hilaris*, *Thomisus granulifrons*, *Thomisus spectabilis*, *Tmarus fasciolatus*, *Xysticus cristatus*

### CONCLUSION

The diversity of Thomisidae, commonly called crab spiders are listed in Indian states and union territories. More than two hundred species are recorded in almost all states and union territories in India except Nagaland and Dadra & Nagar Haveli and Daman & Diu. Out of 210 species recorded, 143 species are strictly endemic to India. Despite spiders being the most diverse group of predators and crucial to the health of terrestrial ecosystems, none of the species recorded in India is listed in IUCN Red List. An extensive survey for these spiders is urgently required.

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