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NOTE

A CHECKLIST OF SPIDER FAUNA OF RAJASTHAN, INDIA

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Proper documentation of biodiversity is essential for its sustainable management and conservation by the timely monitoring of the rate of species loss. Checklists form a vital part of systematic documentation. Species identified from various parts of the world are added to global databases and catalogues, which

form a mainstay of taxonomy and indirectly contribute to the conservation of biodiversity. Considering the escalating level of anthropogenic threats to biodiversity, an inventory and proper documentation of biodiversity, especially on neglected groups like arachnids, is needed urgently. The World Spider Catalog (2018) documented a total of 47,829 species belonging to 4,112 genera and 118 families.

Despite being the key invertebrate predators of almost all terrestrial ecosystems, spiders are a comparatively neglected group of animals. So far, very few attempts were made to study the spider fauna of Rajasthan in India. Notable works on spiders were initiated by Tikader (1961). Gajbe & Bhadra (1978), Bhanotar et al. (1980), and Roonwal (1982) also contributed to the field of arachnology of Rajasthan. Tikader (1961), Tikader & Gajbe (1977), Tikader & Malhotra (1982), and Gajbe (1993) reported new species from Rajasthan and named them after their places of discovery (*Gnaphosa kailana*, *Scotophaeus rajasthanus*, *Callilepis rajasthanica*, *G. jodhpurensis*, *Megamyrmaekion jodhpurensis*, and *Evippa banarensis*). After a gap of a decade, further attempts to study the spider fauna of the state was made by Sivaperuman & Rathore (2004), who documented 13

A CHECKLIST OF SPIDER FAUNA OF RAJASTHAN, INDIA

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families of 21 genera consisting of 28 species from Desert National Park, which falls under Jaisalmer and Barmer districts of Rajasthan. Later studies were reported from Ranthambhore National Park, Sawai Madhopur (Sen et al. 2009; Saha et al. 2015), Shekhawati Aravalian region (Saini et al. 2012), and Deeg Town in Bharatpur (Lawania et al. 2013). Recently, two new species of jumping spiders *Epocilla sirohi* and *Mogrus rajasthanensis* were recorded from Sirohi District of Rajasthan (Caleb et al. 2017).

The present paper lists 71 species of spiders belonging to 47 genera and 15 families reported so far from various parts of the state of Rajasthan (Table 1). It is a checklist based on previous publications. Classification follows World Spider Catalog (2018). The most species-rich family reported so far is Araneidae and Gnaphosidae (14 species each), followed by Lycosidae (12 species).

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Table 1. Spider fauna of Rajasthan State, India

	Family/species	Distribution (districts)	References
I	Araneidae Clerck, 1757		
1	<i>Araneus diadematus</i> Clerck, 1757	Sikar, Jhunjhunu	Tikader 1982
2	<i>Argiope aemula</i> (Walckenaer, 1841)	Bharatpur	Lawania et al. 2013; Kaur et al. 2014
3	<i>A. anasuja</i> Thorell, 1887	Bharatpur	Lawania et al. 2013
4	<i>A. lobata</i> (Pallas, 1772)	Bikaner	Tikader 1961
5	<i>Cyrtophora cicutrosa</i> (Stoliczka, 1869)	Bharatpur	Lawania et al. 2013
6	<i>C. citricola</i> (Forsskål, 1775)	Nagaur, Bharatpur	Tikader 1961; Lawania et al. 2013
7	<i>C. exanthematica</i> (Doleschall, 1859)	Sawai Madhopur	Saha et al. 2015
8	<i>Gibbaranea bituberculata</i> (Walckenaer, 1802)	Sikar, Jhunjhunu	Saini et al. 2012
9	<i>Herennia multipuncta</i> (Doleschall, 1859)	Jaisalmer	Sivaperuman & Rathore 2004
10	<i>Larinioides sclopetarius</i> (Clerck, 1757)	Sikar, Jhunjhunu	Tikader 1982
11	<i>Neoscona nautica</i> (L. Koch, 1875)	Jodhpur, Sikar, Jhunjhunu	Tikader 1961
12	<i>Nephila kuhlii</i> (Doleschall, 1859)	Bharatpur	Lawania et al. 2013
13	<i>N. pilipes</i> (Fabricius, 1793)	Pratapgarh, Udaipur	Lawania et al. 2013
14	<i>Zilla diodia</i> (Walckenaer, 1802)	Sikar, Jhunjhunu	Tikader 1982
II	Cheiracanthiidae Wagner, 1887		
15	<i>Cheiracanthium melanostomum</i> (Thorell, 1895)	Sawai Madhopur	Saha et al. 2015
III	Eresidae C.L. Koch, 1845		
16	<i>Stegodyphus pacificus</i> Pocock, 1900	Jodhpur	Tikader 1961
17	<i>S. sarasinorum</i> Karsch, 1892	Jaisalmer, Jaipur, Sawai Madhopur	Sivaperuman & Rathore 2004; Saha et al. 2015
IV	Gnaphosidae Pocock, 1898		
18	<i>Callilepis rajasthanica</i> Tikader & Gajbe, 1977	Jodhpur	Tikader & Gajbe 1977
19	<i>Drassodes lapidosus</i> (Walckenaer, 1802)	Barmer	Tikader 1982
20	<i>D. luridus</i> (O. Pickard-Cambridge, 1874)	Jaisalmer, Barmer	Sivaperuman & Rathore 2004
21	<i>D. parvidens</i> Caporiacco, 1934	Jaisalmer, Barmer	Sivaperuman & Rathore 2004
22	<i>Gnaphosa jodhpurensis</i> Tikader & Gajbe, 1977	Jodhpur	Tikader & Gajbe 1977
23	<i>G. kailana</i> Tikader, 1966	Jodhpur, Nagaur, Bikaner	Tikader 1961
24	<i>G. poonaensis</i> Tikader, 1973	Jodhpur	Tikader 1982
25	<i>Megamyrmaekion jodhpurensis</i> Gajbe, 1993	Jodhpur	Gajbe 1992
26	<i>Poecilochroa sedula</i> (Simon, 1897)	Jaisalmer, Barmer	Sivaperuman & Rathore 2004
27	<i>Scotophaeus rajasthanus</i> Tikader, 1966	Nagaur	Tikader 1961
28	<i>Trachyzelotes jaxartensis</i> (Kroneberg, 1875)	Jodhpur	Tikader 1982
29	<i>Zelotes ashae</i> Tikader & Gajbe, 1976	Jodhpur	Tikader 1982
30	<i>Z. desioi</i> Caporiacco, 1934	Jaisalmer	Sivaperuman & Rathore 2004
31	<i>Z. nasikensis</i> Tikader & Gajbe, 1976	Jaisalmer, Barmer	Sivaperuman & Rathore 2004
V	Hersiliidae Thorell, 1870		
32	<i>Hersilia savignyi</i> Lucas, 1836	Bharatpur, Jaipur	Saini et al. 2012; Lawania et al. 2013
VI	Lycosidae Sundevall, 1833		
33	<i>Evippa banarensis</i> Tikader & Malhotra, 1980	Jodhpur	Tikader 1982
34	<i>E. rajasthanica</i> Tikader & Malhotra, 1980	Jodhpur	Tikader 1982
35	<i>Hippasa madhuae</i> Tikader & Malhotra, 1980	Bharatpur, Sawai Madhopur	Saha et al. 2015
36	<i>H. pisaurina</i> Pocock, 1900	Bikaner, Sikar, Jhunjhunu	Tikader 1961
37	<i>Lycosa madani</i> Pocock, 1901	Jaisalmer, Barmer	Sivaperuman & Rathore 2004
38	<i>L. pictula</i> Pocock, 1901	Bharatpur	Lawania et al. 2013

	Family/species	Distribution (districts)	References
39	<i>Pardosa birmanica</i> Simon, 1884	Jodhpur, Udaipur, Bharatpur	Tikader 1961; Lawania et al. 2013
40	<i>P. heterophthalma</i> (Simon, 1898)	Jaisalmer, Barmer	Sivaperuman & Rathore 2004
41	<i>P. pusiola</i> (Thorell, 1891)	Barmer, Jaisalmer	Sivaperuman & Rathore 2004
42	<i>P. sumatrana</i> (Thorell, 1890)	Jaisalmer, Jodhpur, Barmer, Sikar, Jhunjhunu	Sivaperuman & Rathore 2004; Saini et al. 2012
43	<i>Trochosa punctipes</i> (Gravely, 1924)	Nagaur	Tikader 1961
44	<i>T. urbana</i> O. Pickard-Cambridge, 1876	Bharatpur	Lawania et al. 2013
VII	Oecobiidae Blackwall, 1862		
45	<i>Uroctea indica</i> Pocock, 1900	Jaisalmer, Barmer	Sivaperuman & Rathore 2004
VIII	Oxyopidae Thorell, 1870		
46	<i>Oxyopes birmanicus</i> Thorell, 1887	Bharatpur, Sikar, Jhunjhunu	Lawania et al. 2013
47	<i>O. javanus</i> Thorell, 1887	Bharatpur	Lawania et al. 2013
48	<i>O. shweta</i> Tikader, 1970	Jaipur, Sawai Madhopur, Sikar, Jhunjhunu	Saini et al. 2012; Saha et al. 2015
49	<i>O. sitae</i> Tikader, 1970	Sawai Madhopur	Saha et al. 2015
IX	Philodromidae Thorell, 1870		
50	<i>Thanatus lanceoletus</i> Tikader, 1966	Bikaner	Tikader 1961
X	Pholcidae C.L. Koch, 1850		
51	<i>Artema atlanta</i> Walckenaer, 1837	Nagaur, Bikaner, Jodhpur, Bharatpur	Tikader 1961; Lawania et al. 2013
52	<i>Crossopriza lyoni</i> (Blackwall, 1867)	Jodhpur	Tikader 1961
53	<i>Pholcus phalangioides</i> (Fuesslin, 1775)	Bharatpur	Lawania et al. 2013
XI	Salticidae Blackwall, 1841		
54	<i>Epocilla sirohi</i> Caleb, Chatterjee, Tyagi, Kundu & Kumar, 2017	Sirohi	Caleb et al. 2017
55	<i>Hyllus semicupreus</i> (Simon, 1885)	Bharatpur	Lawania et al. 2013
56	<i>Mogrus rajasthanensis</i> Caleb, Chatterjee, Tyagi, Kundu & Kumar, 2017	Sirohi	Caleb et al. 2017
57	<i>Phintella vittata</i> (C. L. Koch, 1846)	Bharatpur	Saini et al. 2012
58	<i>Plexippus paykulli</i> (Audouin, 1826)	Bharatpur, Sikar, Jhunjhunu	Saini et al. 2012; Lawania et al. 2013
59	<i>Portia assamensis</i> Wanless, 1978	Bharatpur	Lawania et al. 2013
60	<i>Rhene albiger</i> (C. L. Koch, 1846)	Sawai Madhopur	Saha et al. 2015
61	<i>Telamonia dimidiata</i> (Simon, 1899)	Bharatpur, Sawai Madhopur	Lawania et al. 2013; Saha et al. 2015
XII	Sparassidae Bertkau, 1872		
62	<i>Heteropoda fabrei</i> Simon, 1885	Jaisalmer	Sivaperuman & Rathore 2004
63	<i>Olios tener</i> (Thorell, 1891)	Sawai Madhopur	Saha et al. 2015
XIII	Tetragnathidae Menge, 1866		
64	<i>Tetragnatha mandibulata</i> Walckenaer, 1841	Jodhpur, Jaipur	Tikader 1961
XIV	Theridiidae Sundevall, 1833		
65	<i>Argyrodes gazedes</i> Tikader, 1970	Sawai Madhopur	Saha et al. 2015
66	<i>Theridion varians</i> Hahn, 1833	Sikar, Jhunjhunu	Tikader 1982
XV	Thomisidae Sundevall, 1833		
67	<i>Indoxysticus minutus</i> (Tikader, 1960)	Jaipur, Sikar, Jhunjhunu	Saini et al. 2012
68	<i>Ozyptila chandosiensis</i> Tikader, 1980	Barmer, Jaisalmer	Sivaperuman & Rathore 2004
69	<i>Thomisus andamanensis</i> Tikader, 1980	Sawai Madhopur	Saha et al. 2015
70	<i>T. italongus</i> Barrion & Litsinger, 1995	Sawai Madhopur	Saha et al. 2015
71	<i>T. projectus</i> Tikader, 1960	Bharatpur	Lawania et al. 2013

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