

CHECKLIST OF THE SPIDER FAUNA OF BANGLADESH (ARANEAE : ARACHNIDA)

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Abstract: Spiders are one of the important predatory arthropods that comprise the largest order Araneae of the class Arachnida. In Bangladesh, very few contributions are available on the taxonomic study on these arachnids. The present paper contains an updated checklist of the spider fauna of Bangladesh based on the published records of different workers and the identified collections of the recent studies by the author. It includes a total of 334 species of spiders belong to the infraorders Mygalomorphae and Araneomorphae under 21 families and 100 genera. A brief diagnosis of different families and their domination together with the distribution throughout the country are provided herewith.

Key words: Checklist, spiders, Araneae, Arachnida, Bangladesh

INTRODUCTION

Bangladesh is basically a riverine agricultural country. It lies between 20.35°N and 26.75°N latitude and 88.03°E and 92.75°E longitude, covering an area of 1,47,570 sq. km (55,126 sq. miles). The country as such offers varied climatic situations *viz.*, temperature, rainfall, humidity, fogmist, dew and Haor-frost, winds etc. (Rashid 1977). With the vast agricultural lands, also there are different kinds of evergreen, deciduous and mangrove forests staying different areas of the country *viz.*, the southern Sunderbans, northern Bhawal and Madhupur forests and eastern Chittagong and Chittagong Hill-Tracts forest. Along with the agricultural lands, each of the forest ecosystems is composed of numerous species of spider fauna of the country.

Spiders are one of the dominating arthropods distributed throughout the country specially in the garden, forests and agricultural fields. They comprise the order Araneae of the class Arachnida under the phylum Arthropoda. All the members of spiders are predatory in behaviour and thus play an important role in the biological control of pest insects in the crop-fields and gardens. But systematic studies of these arachnids in Bangladesh are very scarce. This is because from the early times, this group of animals were neglected to the eyes of taxonomists and so that kept away their studies.

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Spider study in Bangladesh: Scientific study on the spider fauna of this sub-continent was initiated by Stoliczka (1869) during undivided British India and till date, very poor number of works are found on this arthropods. Although, several workers of Indian sub-continent showed distribution of some species to Bangladesh (the then East Pakistan) in their study.

Contributors on Bangladeshi spiders are very few and the most citeable workers are:

Pocock (1899-1901), Gravely (1921,1922, 1924, 1931), Thorell (1895), Narayan (1915), Dyal (1935), Catling (1980), Tikader (1970, 1971a,b, 1973a,b; 1974a,b, 1975a,b,c, 1976a,b, 1977a,b,c,d,e, 1980a,b,c, 1981, 1982, 1987), Tikader and Malhotra (1980), Tikader and Gajbe (1982), Tikader and Bal (1980, 1981), Tikader and Biswas (1981), Majumder and Tikader (1991), Majumder (2004a,b, 2005, 2007), Gajbe (1988, 1992a,b, 1999, 2005a,b,c,d,, 2007, 2008a,b,c), Gajbe and Gajbe (1999 a,b,c,d,e,f,g,h,i,j, 2000a,b,c,d,e, 2003a,b, 2004a,b,c,d) etc. who showed the distribution of different species in Bangladesh.

Systematic work on Bangladeshi spiders were carried out at first by Chowdhury and Nagari (1981), Chowdhury and Pal (1984), Kamal *et al.* (1992), Okuma *et al.* (1993), Biswas (1990, 1995, 1999, 2009, 2016a,b, 2017), Biswas *et al.* (1993, 1995), Begum and Biswas(1997), Biswas and Begum (1999), Biswas and Majumder (1996) and Biswas and Raychaudhuri (1995,1997a,b,c,d, 1998, 2000, 2003a,b,c,d, 2005, 2007, 2012, 2013a,b,c, 2014, 2015a,b, 2016, 2017a,b,c,d).

Chowdhury and Nagari (1981) and Chowdhury and Pal (1984) carried out systematic works on the rice-field spiders of Chittagong. Their studies include 43 species belonging to 30 genera and 11 families.

Okuma *et al.* (1993) made a faunistic survey on the rice-field spiders of Gazipur district and related areas of Bangladesh. They published a monograph on these spiders that include 55 species belonging to 36 genera under 10 families. This work is still considered as the first monographic work on the spider fauna of the country.

Begum and Biswas (1997) prepared a checklist on the spider fauna of Barisal division. This list focuses the distribution of spiders of southern part of the country. Biswas (1990-2017) contributed series of taxonomic studies on the spider fauna of Bangladesh. His studies include many new descriptions based on the collections of spiders from different localities of Bangladesh. These descriptions include 386 species under 100 genera and 21 families. Biswas (2009) included majority of his descriptions in the Encyclopedia of Flora and Fauna of Bangladesh. This voluminous work contains coloured illustrated description and distribution of the species.

Biswas (1989 - 2019) and Biswas and Raychaudhuri (1994 - 2018) carried out a series of systematic studies on the spider fauna of Bangladesh. Their studies include detail illustrated taxonomic description, distribution and key to the family, genera and species.

The present paper is an updated checklist - 2019 made on the compilation of all the contributions carried out on the spider fauna of Bangladesh by different authors in different times. It shows the species density of spiders in different regions of the country. From this checklist, it is found that of the 21 reported families, 87 species belong to the family Araneidae, 13 species to Clubionidae, 5 species Corinidae, 9 species Gnaphosidae, 2 species Hersiliidae, 1 species Homalonychidae, 2 species Linyphiidae, 33 species Lycosidae, 4 species Nephilidae, 1 species Oonopidae, 22 species Oxyopidae, 1 species Philodromidae, 3 species Pholcidae, 1 species Pisauridae, 122 species Salticidae, 1 species Scytodidae, 7 species Sparassidae, 23 species Tetragnathidae, 16 species Theridiidae, 28 species Thomisidae and 5 species of the family Uloboridae are now existing in the fauna of Bangladesh.

From the checklist it is also found that among all the 21 recorded families, members of the family Araneidae are maximum in number following Salticidae, Lycosidae, Thomisidae, Tetragnathidae etc. (Table 1). Of the species, 87 (family Araneidae) are maximum in number following 72 (Salticidae), 34 (Lycosidae), 28 (Thomisidae), 23 (Tetragnathidae) and so on. All the families, genera and species are arranged systematically and shown serially one after another in this paper.

MATERIAL AND METHODS

The present checklist is prepared on the basis mainly of the reviews of published literatures, several recent catalogues on spiders (Platnick 2012, World Spider Catalog, version 19.5, 2019, Proszynski 1990, Mikhailov 1997, Logunov and Marusik 2000), Checklists and Monographs (Biswas *et al.* 1993, Okuma *et al.* 1993, Begum and Biswas 1997, Sadana and Molour 1997, Keswani *et al.* 2012), Fauna volumes (Pocock 1900, Tikader 1980, 2082, Chen and Zhang 1991, Kim and Lee 2012, Gajbe 2006, Majumder and Tikader 1991, Zhu *et al.* 2003, Yin *et al.* 1997, Song *et al.* 1999, Zhu 1998, Zhu *et al.* 2003, Barrion and Litsinger 1995, Biswas 2009), recent spider books (Tikader 1987 Koh 1989, Yaginuma 1986, Zhao 1993, Roberts 1995, Saha and Raychaudhuri, 2003, 2004, 2007a,b,c,d, Benjamin 2016, Sebastian and Peter 2009) and many papers published in national and international journals and computer databases (e.g. Proszynski's Catalogue of jumping spiders of the world). Beside these, there are some identified species those are not included in this list as these are not published as yet. All those are at present in the collection of the

Department of Zoology, Khulna Govt. Womens' College, Khulna, Bangladesh and will include in future revision of the checklist. These specimens after description will be deposited to the Museum of the Department of Zoology, University of Dhaka, Dhaka-1000, Bangladesh in due course of time.

The present checklist is made in a taxonomic order of classification of spiders *viz.*, Infra-order, family, genera and species. For each of the families, of this checklist, the information are given in the following sequence-name of the species, author, year, sex and possibly distribution. As a first preparation, there may be some lacking of information from the old literatures. So, in those cases no distribution and other information were cited. It will be completed in future.

Considering the study of the students and researchers of the future generation in the field of arachnology in Bangladesh, a brief diagnosis for each of the families are given along with the list of genera and species. Therefore, the present checklist may be a taxonomic tool in the history of the study of arachnids (spiders) of s Bangladesh.

RESULTS

Taxonomy

Phylum: Arthropoda Latreille, 1829

Class: Arachnida Lamarck, 1815

Order: Araneae Clerck, 1757

Diversity of spider fauna of Bangladesh

Spiders are one of the important predatory arthropods that are distributed all over the world. In Bangladesh, there is no previous lists available on these arachnids. Some of the recent checklists and such other publications of neighbouring countries like India (Silwal *et al.* 2005, Silwal and Molour 2007, Keswani *et al.* 2012, Roy *et al.* 2016), China (Chen and Zhang 1991, Song *et al.* 1999, Yin *et al.* 1997, Zhu *et al.* 2003), Japan (Yaginuma 1986, Tanikawa 1992a,b, 1994, 2007), Singapore (Koh 1989), Korea (Namkung 1989, 2002, Kim *et al.* 1987, Paik 1978, 1986, 1987, 1988, 1990) etc. all of which show distribution of some species to Bangladesh. But some scattered faunal works are there in this country those combindly focused the faunal strength of spiders of Bangladesh (Chowdhury and Nagari 1981, Chowdhury and Paul 1984, Biswas *et al.* 1993, Okuma *et al.* 1993, Kamal *et al.* 1992, Begum and Biswas 1997, Biswas 1995, 2009). The present paper represents a systematic list of 334 species of spiders belonging to 100 genera and 21 different families. Among all

the recorded families, members of the family Araneidae are maximum in number following Salticidae, Lycosidae, Thomisidae, Tetragnathidae n (Table 1).

Table 1. List of spider families, genera and species distributed in Bangladesh

Sl. No.	Name of the family	No. of genera	No. of species	Distribution in Bangladesh	Distribution of S. Asia	World distribution
1	Araneidae	17	87	+	+	+
2	Clubionidae	02	13	+	+	+
3	Corinidae	03	05	+	+	+
4	Gnaphosidae	06	09	+	+	+
5	Hersilliidae	01	02	+	+	-
6	Homalinichidae	01	01	+	+	-
7	Luniphidae	01	02	+	+	+
8	Lycosidae	05	34	+	+	+
9	Naphilidae	02	04	+	+	-
10	Oonopidae	01	01	+	+	+
11	Oxyopidae	02	22	+	+	+
12	Philodromidae	01	01	+	+	+
13	Pholcidae	03	03	+	+	-
14	Pisauridae	01	01	+	+	+
15	Salticidae	21	72	+	+	+
16	Scytodidae	01	01	+	+	-
17	Sparassidae	03	07	+	+	-
18	Tetragnathidae	06	23	+	+	+
19	Theridiidae	06	13	+	+	+
20	Thomisidae	14	28	+	+	+
21	Uloboridae	03	05	+	+	+
	Total	100	334			

Out of 334 species, 137 are orb-weavers and these belong to the families - Araneidae, Nephilidae, Tetragnathidae, Pholcidae, Theridiidae and Uloboridae, 94 species are jumping in habit (Salticidae & Oxyopidae), 43 species are ground dwellers (Lycosidae, Sparassidae, Hersilliidae etc.) and 18 species are nocturnals (Clubionidae and Corinidae) and live in leaf-sacs, loose barks, nests etc. at night. However, all these species are predatory in behaviour and consume numerous pest insects in the crop-fields, gardens and forests and thus help in insect pest management in the field of agriculture in Bangladesh.

Checklist of spiders of Bangladesh 2019

The world fauna of spiders include the order Araneae. It is divided into two sub-orders-1. Orthognatha and 2. Labidognatha or Araneomorphae. The

spider fauna of Bangladesh represents only the sub-order 'Labidognatha' or 'Araneomorphae' with 21 families, 100 genera and 334 species, distributed throughout the country. A systematic updated checklist of these spiders together with a brief diagnosis of the families are given below -

Family	I.	Araneidae Latreille, 1806
	II.	Clubionidae Wagner, 1887
	III.	Corinidae Karsch, 1880
	IV.	Gnaphosidae Pocock, 1898
	V.	Hersiliidae Thorell, 1870
	VI.	Homalonychidae Simon, 1893
	VII.	Linyphiidae Blackwall, 1859
	VIII.	Lycosidae Sundevall, 1833
	IX.	Nephilidae Simon, 1894
	X.	Oonopidae Simon, 1890
	XI.	Oxyopidae Thorell, 1870
	XII.	Philodromidae O.P. Cambridge, 1871
	XIII.	Pholcidae C.L. Koch, 1850
	XIV.	Pisauridae Simon, 1890
	XV.	Salticidae Blackwall, 1841
	XVI.	Scytodidae Blackwall, 1864
	XVII.	Sparassidae Thorell, 1873
	XVIII.	Tetragnathidae Menge, 1866
	XIX.	Theridiidae Sundevall, 1833
	XX.	Thomisidae Sundevall, 1833
	XXI.	Uloboridae O.P. Cambridge, 1871

Family I. ARANEIDAE Latreille, 1806
(True orb-weavers)

Diagnosis: Body small to medium, brightly coloured. Chelicerae strong, 6-8 teeth. Abdomen oval or rounded, colulus present. Male palp with fused cymbium and paracymbium. Eyes homogeneous, 8 in numbers, arranged in 2 rows. Abdomen variable in size and decoration, sexual dimorphism present. Male usually not found or very few in nature as female. Legs long and slender, with 3-tarsal claws.

Almost all the species are orb-weavers and spin typical geometric webs in nature. Largest family of the world with number of species (about 4000) are described (World Spider Catalog 2019).

In Bangladesh, family Araneidae composed of 87 species belonging to 17 genera and these are:

- Genus - A. *Acusilus* Simon, 1895
 B. *Arabeys* Simon, 1895
 C. *Araneus* Clerck, 1757
 D. *Argiope* Audouin, 1826
 E. *Cyclosa* Menge, 1866
 F. *Cyrtarachne*, Thorell, 1868
 G. *Cyrtophora*, Simon, 1864
 H. *Eriovixia* Archer, 1951
 I. *Gasteracantha* Sundevall, 1833
 J. *Gea* C.L. Koch, 1843
 K. *Hyposinga* Ausserer, 1871
 L. *Larinia* Simon, 1874
 M. *Neoscona* Simon, 1864
 N. *Parawixia* F.O.P. Cambodge, 1904
 O. *Poltys* C.L. Koch, 1843
 P. *Singa* C.L. Koch, 1836
 Q. *Zygeilla* F.O.P. Cambridge, 1902

A. Genus: *Acusilus* Simon, 1895

Species- 1. *A. coccineus* Simon, 1895

B. Genus: *Arabeys*

Species- 1. *A. nutufuca* (Thorell)

C. Genus : *Araneus* Clerck, 1757

- Species- 1. *A. bilunifer* Pocock, 1900
 2. *A. ellipticus* Tikader & Bal, 1981
 3. *A. inustus* L. Koch, 1871
 4. *A. mitifica* Simon, 1886
 5. *A. nympha* Simon, 1889
 6. *A. rumiae* Biswas & Raychaudhuri, 2013

D. Genus : *Argiope* Audouin, 1826

- Species- 1. *A. aemula* Walckenaer, 1841
 2. *A. arcuata* Simon, 1884
 3. *A. catenulata* Doleschall, 1859
 4. *A. luzona* Walckenaer, 1841
 5. *A. minuta* Karsch, 1879
 6. *A. pulchella* Thorell, 1881
 7. *A. reticulata* Biswas & Raychaudhuri, 2017

8. *A. sapoa* Barrion & Litsinger, 1995
9. *A. shillongensis* Sinha, 1951
10. *A. sumanae* Biswas & Raychaudhuri, 2017

E. Genus: *Cyclosa* Menge, 1866

- Species-
1. *C. baakea* Barrion & Litsinger, 1995
 2. *C. bifida* Doleschall, 1859
 3. *C. bituberculata* Biswas & Raychaudhuri, 1998
 4. *C. confraga* Thorell, 1892
 5. *C. elongata* Biswas & Raychaudhuri, 1998
 6. *C. fissicauda* Simon, 1889
 7. *C. hexatuberculata* Tikader, 1982
 8. *C. insulana* Costa, 1834
 9. *C. mulmeinensis* Thorell, 1887
 10. *C. neilensis* Tikader, 1977
 11. *C. parangtaugoa* Barrion & Litsinger, 1995
 12. *C. spirifera* Simon, 1889
 13. *C. tropica* Biswas & Raychaudhuri, 1998
 14. *C. yaginumai* Biswas & Raychaudhuri, 1998

F. Genus: *Cyrtarachne* Thorell, 1868

- Species-
1. *C. biswajiti* Biswas & Raychaudhuri, 2017
 2. *C. kaikobadi* Biswas & Raychaudhuri, 2017
 3. *C. ovata* Biswas & Raychaudhuri, 2017
 4. *C. sundari* Tikader, 1963

G. Genus: *Cyrtophora* Simon, 1864

- Species-
1. *C. bidentate* Tikader, 1970
 2. *C. cicatrosa* Stoliczka, 1869
 3. *C. feae* Thorell, 1887
 4. *C. lahirii* Biswas & Raychaudhuri, 2004
 5. *C. nareshi* Biswas & Raychaudhuri, 2004
 6. *C. unicolor* Doleschall, 1857

H. Genus : *Eriovixia* Archer, 1951

- Species-
1. *E. Laglaizei* Simon, 1877
 2. *E. nocturnalis* Biswas & Raychaudhuri, 2017

I. Genus : *Gasteracantha* Sundevall, 1833

- Species-
1. *G. arcuata* Fabricius, 1793
 2. *G. Chowdhuryi* Biswas & Raychaudhuri, 2017
 3. *G. diadesmia* Thorell, 1887
 4. *G. hasselti* C. L. Koch, 1838

5. *G. kuhlii* C. L. Koch, 1838
6. *G. mammosa* C. L. Koch, 1845

J. Genus: *Gea* C. L. Koch, 1843

- Species-
1. *G. subarmata* Thorell, 1890
 2. *G. zaragosa* Barrion & Litsinger, 1995

K. Genus: *Hyposinga* Ausserer, 1871

- Species-
1. *H. pygmaea* Sundevall, 1831

L. Genus: *Larinia* Simon, 1874

- Species-
1. *L. chloris* Audouin, 1825
 2. *L. fusiformis* Thorell, 1895
 3. *L. modhuchhandae* Biswas & Raychaudhuri, 2012
 4. *L. phtisica* L. Koch, 1871

M. Genus: *Neoscona* Simon, 1864

- Species-
1. *N. bengalensis* Tikader & Bal, 1981
 2. *N. brownius* Biswas, 2007
 3. *N. chrysanthusi* Tikader & Bal, 1981
 4. *N. dorsonigra* Biswas, 2007
 5. *N. dostinikea* Barrion & Litsinger, 1995
 6. *N. elliptica* Tikader & Bal, 1981
 7. *N. govindai* Biswas & Raychaudhuri, 2012
 8. *N. kabiri* Biswas & Raychaudhuri, 2012
 9. *N. laglaizei* Simon, 1877
 10. *N. molemensis* Tikader & Bal, 1981
 11. *N. mukerjiei* Tikader, 1980
 12. *N. nashidae* Biswas & Raychaudhuri, 2012
 13. *N. nautica* L. Koch, 1875
 14. *N. oriemindoroana* Barrion & Litsinger, 1995
 15. *N. ovata* Biswas, 2007
 16. *N. pavida* Simon, 1909
 17. *N. rahamani* Biswas & Raychaudhuri, 2012
 18. *N. rumpfi* Thorell, 1887
 19. *N. somae* Biswas, 2007
 20. *N. theis* Walcknaer
 21. *N. yptinika* Barrion & Litsinger, 1995

N. Genus: *Parawixia* F.O.P. Cambridge, 1904

- Species-
1. *P. dehaanii* Doleschall, 1859

O. Genus: *Poltys* C.L. Koch, 1843

- Species- 1. *P. illepidus* C.L. Koch, 1843
 2. *P. nagpurensis* Tikader, 1982
 3. *P. pannuceus* Thorell, 1895

P. Genus: *Singa* C. L. Koch, 1836

- Species- 1. *S. chota* Tikader, 1970
 2. *S. haddoensis* Tikader, 1977

Q. Genus: *Zygeilla* F.O.P. Cambridge, 1902

- Species- 1. *Z. indica* Tikader & Bal, 1980
 2. *Z. melanocrania* Thorell, 1887
 3. *Z. munuriae* Biswas, 2007

Family – II. CLUBIONIDAE Wagner, 1887

(Sac-spiders)

Diagnosis: Clubionids or 'sac-spiders' are predators in the field and forests. They are 2-clawed and found on foliages or on ground where they make tubular retreat or nests by rolled leaves. Some members inhabit under stones, litters etc. Chelicerae strong, narrow and legs slender. Some species of the genus *Cheiracanthium* are venomous to humans.

They are very common and widespread throughout the world. About 3000 species are described in the world fauna (Biswas 2009, 2016a,b,c, 2017a,b).

In Bangladesh, family Clubionidae includes a total of 13 species under 2 genera. These are as follows:

- Genus** A. *Cheiracanthium* C. L. Koch, 1839
 B. *Clubiona* Latreille, 1804

A. Genus: *Cheiracanthium* C. L. Koch, 1839

- Species- 1. *C. liplikeum* Barrion & Litsinger, 1995
 2. *C. melanostoma* Thorell, 1895
 3. *C. mysorensis* Majumder & Tikader, 1991
 4. *C. sikkimensis* Majumder & Tikader, 1991
 5. *C. tagorei* Biswas & Raychaudhuri, 2003

B. Genus: *Clubiona* Latreille, 1804

- Species- 1. *C. analis* Thorell, 1895
 2. *C. anwarae* Biswas & Raychaudhuri, 1994
 3. *C. bagerhatensis* Biswas & Raychaudhuri, 1994
 4. *C. drassodes* O.P. Cambridge, 1874
 5. *C. filicata* O.P. Cambridge, 1874

6. *C. japonicola* Boesenberg & Strand, 1906
7. *C. ludhianaensis* Tikader, 1976
8. *C. mujibari* Biswas & Raychaudhuri, 1994

Family – III. CORINNIDAE Karsch, 1880

(Corinids)

Diagnosis: These are corinnid sac-spiders. They are nearly similar to those of Clubionidae. Body small, dull coloured, nocturnal in habit. Have 8 eyes arranged in two rows. Anterior spinnerets conical. They build silken retreat or sacs on plant leaves in the garden and crop-fields.

These spiders are world wide in distribution and contains 67 genera and 729 species (World Spider Catalog 2019). Some members mimics ants (e.g. *Castianeira* sp.).

In Bangladesh, the family Corinnidae consists of 3 genera and 5 species only and these are -

- Genus**
- A. *Castianeira* Keyserling, 1879
 - B. *Sphingius* Thorell, 1890
 - C. *Trachelas* L. Koch, 1866

A. Genus: *Castianeira* Keyserling, 1879

- Species-
1. *C. nigricephalis* Biswas, 2009
 2. *C. zetes* Simon, 1897
 3. *Castianeira* sp.

B. Genus: *Sphingius* Thorell, 1890

- Species- 1. *S. barcudensis* Gravely, 1931

C. Genus: *Trachelas* L. Koch, 1866

- Species- 1. *T. devi* Biswas & Raychaudhuri, 2000

Family - IV. GNAPHOSIDAE Pocock, 1898

(Oval-eyed spiders)

Diagnosis: Body small to large, dark, light coloured. Eyes heterogeneous, arranged in two rows. Chelicerae with boss and scopula; fang furrow with a few teeth. Cephalothorax broad, attenuated in front, with fovea. Anteromedian eyes are darker than the rest. Abdomen usually long and narrow. Labium longer than broad. Legs rather long and bear spines; tarsi with two claws.

They are living under stones, leaves or roots of grasses. They spin a tubular retreat under stones or rolled leaves. These spiders are nocturnal in habit.

In Bangladesh, this family contains 6 genera and 9 species distributed all over the country and these are:

- Genus**
- A. *Drassodes* Westring, 1851
 - B. *Haplodrassus* Chamberlin, 1922
 - C. *Poecilochroa* Westring, 1874
 - D. *Sergiolus* Simon, 1891
 - E. *Gnaphosa* Latreille, 1804
 - F. *Phaeoecelus* Simon, 1893
- A. Genus: *Drassodes* Westring, 1851**
 Species- 1. *D. malodes* Tikader, 1962
 2. *D. meghalayaensis* Tikader & Gajbe, 1977
 3. *D. oppenheimeri* Tikader, 1973
- B. Genus: *Haplodrassus* Chamberlin, 1922**
 Species- 1. *H. dumdumensis* Tikader, 1982
- C. Genus: *Poecilochroa* Westring, 1874**
 Species- 1. *P. barman* Tikader, 1982
 2. *P. parangunifascigera* Barrion & Litsinger, 1995
- D. Genus: *Sergiolus* Simon, 1891**
 Species- 1. *S. meghalayaensis* Tikader & Gajbe, 1976
- E. Genus: *Gnaphosa* Latreille, 1804**
 Species- 1. *G. poonaensis* Tikader, 1973
- F. Genus: *Phaeoecelus* Simon, 1893**
 Species- 1. *P. poonaensis* Tikader, 1982

Family - V. HERSILIIDAE Thorell, 1870

(Long-tailed spiders)

Diagnosis: Body brown, flat, bark-like. Legs long, third pair shorter. Last portion of abdomen with 2 long tails. The tails are long spinnerets which lay silk to trap the prey. So, hersilids are called 'two-tailed spiders'. Body small, 10-18 mm long and heavily camouflaged.

These are found in the tropical and sub-tropical regions. About 150 species are described in the world fauna.

The family Hersiliidae in Bangladesh contains two species under one genus and these are:

- A. Genus: *Hersilia* Audouin, 1826**
 Species- 1. *H. clathrata* Thorell, 1895
 2. *H. savignyi* Lucas, 1836

Family - VI. HOMALONYCHIDAE Simon, 1893

Diagnosis: Body small in size, smooth, elongate. Without tarsal claws and completely lacking denticles. Tarsi provided with a brush of terminal tenent hairs (claw tufts) and a pair of spurious claws. The chelicerae lack of teeth on the margins. Eyes are eight in number and are placed in two rows of which posterior row is strongly recurved.

This is a small family with only one genus and 3 species are described in the world. In Bangladesh, only one genus *Homalonychus* and one species is present.

A. Genus: *Homalonychus* Marx, 1891

Species- 1. *Homalonychus* sp.

Family - VII. LINYPHIIDAE Blackwall, 1859

(Linyphids)

Diagnosis: Body brown, long or oval, small to medium and about 4-6 mm in length. Chelicerae with many teeth. Legs with strong setae. Colulus present on abdomen. Large family with a few in the Indian sub-continent.

Majority of this spiders are distributed to the temperate countries. About 4000 species are described in the world fauna.

In Bangladesh, this family contains only 1 genus and 2 species. These are:

A. Genus: *Erigone* Audouin, 1826

Species- 1. *E. bifurca* Locket, 1982

2. *E. malvari* Barrion & Litsinger, 1995

Family - VIII. LYCOSIDAE Sundevall, 1833

(Wolf-spiders)

Diagnosis: Body small to medium. Carapace narrow in front and high. Eyes in 3 rows : erior row with 4 eyes of which median 2 larger and posterior 2 medium sized. Maxillae and labium short. Legs short and strong, usually spiny, tarsi with 3 claws. Females carry egg-sac attached to spinnerets and young on the abdomen upto adult.

These spiders are commonly known as 'wolf-spiders'. They are ground dwelling, some members make small sheet webs on the grasses. About 3000 species are described.

Family Lycosidae consists of 5 genera and 34 species distributed in different areas of Bangladesh. These are:

Genus A. *Eviippa* Simon, 1882

- B. *Hippasa* Simon, 1885
- C. *Lycosa* Latreille, 1804
- D. *Ocyale* Audouin, 1825
- E. *Pardosa* C.L. Koch, 1848

A. Genus: *Evippa* Simon, 1882

Species- *E. sohani* Tikader & Malhotra, 1980

B. Genus: *Hippasa* Simon, 1885

- Species-
1. *H. greenaliae* Blackwall, 1867
 2. *H. holmarae* Thorell, 1895
 3. *H. madraspatna* Gravely, 1924
 4. *H. pantherina* Pocock, 1899
 5. *H. partita* Cambridge, 1876
 6. *H. pisaurina* Pocock, 1900

C. Genus: *Lycosa* Latreille, 1804

- Species-
1. *L. chaperi* Simon, 1885
 2. *L. chowdhuryi* Tikader & Malhotra, 1980
 3. *L. gravelyi* Biswas & Raychaudhuri, 2014
 4. *L. himalayaensis* Gravely, 1924
 5. *L. japhlongensis* Biswas & Raychaudhuri, 2014
 6. *L. kempi* Gravely, 1924
 7. *L. mackenziei* Gravely, 1924
 8. *L. nigrotibialis* Simon, 1884
 9. *L. picta* Biswas & Raychaudhuri, 2014
 10. *L. shyamae* Tikader, 1970
 11. *L. tista* Tikader, 1970

D. Genus: *Ocyale* Audouin, 1825

Species-1. *O. atalanta* Audouin, 1826

E. Genus: *Pardosa* C.L. Koch, 1848

- Species-
1. *P. annandalei* Gravely, 1924
 2. *P. birmanica* Simon, 1884
 3. *P. burasantiensis* Tikader & Malhotra, 1976
 4. *P. heterophthalmus* Simon, 1898
 5. *P. ladakhensis* Tikader, 1977
 6. *P. leucopalpis* Gravely, 1924
 7. *P. minutus* Tikader & Malhotra, 1976
 8. *P. mysorensis* Tikader & Mukerji, 1971
 9. *P. oakleyi* Gravely, 1924
 10. *P. pseudoannulata* Boesenberg & Strand, 1906
 11. *P. pusiola* Thorell, 1891

12. *P. royi* Biswas & Raychaudhuri, 2003
13. *P. shyamae* Tikader, 1970
14. *P. songosa* Tikader & Malhotra, 1976
15. *P. sumatrana* Thorell, 1890

Family - IX. NEPHILIDAE Simon, 1894

(Giant wood spiders)

Diagnosis: body medium to large. Cephalic region convex, more elevated, with one pair of posterior tubercles. Eyes small, similar, anteromedians widely separated. Chelicerae long, with strong teeth. Maxillae and labium scopulate.

Legs long and strong. All the members make large to very large orb-webs between the trees of the garden and forests.

In Bangladesh, this family contains of 2 genera and 4 species only and these are:

- Genus** A. *Herennia* Thorell, 1877
B. *Nephila* Leach, 1815

A. Genus: *Herennia* Thorell, 1877

Species- 1. *H. ornatissima* Doleschall, 1877

B. Genus: *Nephila* Leach, 1815

- Species- 1. *N. clavata* L. Koch, 1878
2. *N. maculata* Fabricius, 1793
3. *N. nandinae* Biswas & Raychaudhuri, 2019

Family - X. OONOPIDAE Simon, 1890

(Onopids)

Diagnosis: Very small (< 3 mm), ecribellete spiders. Brightly coloured, orange, yellow etc. Carapace flat, convex, anteriorly narrow. With 6 eyes, some members with 4 eyes. No fovea on carapace. Chelicerae with strong teeth. Legs short, tarsi with 2 claws. Tibiae and tarsi I and II with series of spines. Abdomen oval, book-lung small, 6 spinnerets.

Family Onopidae represents 54 genera and 300 species in the world fauna but only 1 (one) genus and 1 species reported in Bangladesh.

A. Genus: *Oonops* Templeton, 1835

Species- 1. *O. pulcher* Templeton, 1835

Family - XI. OXYOPIDAE Thorell, 1870

(Lynx spiders)

Diagnosis: Small to medium sized spiders. Legs long, spiny, with 3 claws. Eyes 8 in number, hexagonal, anteromedians small. These spiders are good predators of insect pests in the crop-fields and gardens.

These are distributed all over the world and about 500 species are described in the world. In Bangladesh, 2 genera and 22 species are recorded and these are:

Genus A. *Oxyopes* Latreille, 1804

B. *Peucetia* Thorell, 1869

A. Genus: *Oxyopes* Latreille, 1804

- Species-
1. *O. arini* Saha & Raychaudhuri, 2008
 2. *O. assamensis* Tikader, 1969
 3. *O. bikakaeus* Barrion & Litsinger, 1995
 4. *O. birmanicus* Thorell, 1887
 5. *O. bisti* Saha & Raychaudhuri, 2008
 6. *O. elongates* Biswas *et al.*, 1996
 7. *O. hotingchichi*, Schenkel, 1963
 8. *O. javanus* Thorell, 1887
 9. *O. linearis* Saha & Raychaudhuri, 2008
 10. *O. matiensis* Barrion & Litsinger, 1995
 11. *O. ovatus* Biswas *et al.*, 1996
 12. *O. pandae* Tikader, 1969
 13. *O. ratnae* Tikader, 1970
 14. *O. reticulatus* Biswas *et al.*, 1996
 15. *O. sakuntalae* Tikader, 1970
 16. *O. shweta* Tikader, 1970
 17. *O. sikkimensis* Tikader, 1970
 18. *O. sitae* Tikader, 1970
 19. *O. subhadrae* Tikader, 1970
 20. *O. sunandae* Tikader, 1970

B. Genus: *Peucetia* Thorell, 1869

- Species-
1. *P. latikae* Tikader, 1970
 2. *P. viridana* Stoliczka, 1869

Family - XII. PHILODROMIDAE F.O.P. Cambridge, 1871

(Philodromids)

Diagnosis: Small to medium ecribellate spiders. Body white to pale etc. Carapace slightly flattened, clothed with setae. eight eyes in two rows. Chelicerae without any teeth. Legs I, III and IV almost equal. Abdomen oval or elongate, covered with small setae. Two book-lungs present. Spinnerets simple, colulus present. Epigyne small.

These spiders are widely distributed all over the world. Free living on plants. About 30 genera and many species are described in the world.

In Bangladesh, this family contains only 1 genus and 1 species.

A. Genus: *Philodromus* Walckenaer, 1825

Species- 1. *P. betrabatai* Tikader, 1966

Family - XIII. PHOLCIDAE C. L. Koch, 1850

(Daddy long legged spiders)

Diagnosis: Long legged spiders with small body. Carapace with deep fovea. Tarsi with many false articulations. They build irregular webs in dark places in which they hang oppositely. Tarsi with 3 claws. Eyes 8 in numbers. Females carry cocoon in her mandibles. About 500 species described in the world.

The pholcids include 3 genera and 3 species in the fauna of Bangladesh. These are:

- Genus** A. *Artema* Walckenaer, 1837
 B. *Crossopriza* Simon, 1893
 C. *Pholcus* (Walckenaer, 1805)

A. Genus: *Artema* Walckenaer, 1837

Species- 1. *A. atalanta* Walckenaer, 1837

B. Genus: *Crossopriza* Simon, 1893

Species- 1. *C. lyoni* (Blackwall, 1867)

C. Genus: *Pholcus* (Walckenaer, 1805)

Species- 1. *P. phalangioides* (Fuesslin, 1775)

Family - XIV. PISAURIDAE, Simon, 1890

(Pisaurids)

Diagnosis: Small to medium spiders. Spinnerets 6 in usual arrangements. Tracheal spiracles placed in front of spinnerets. Eyes unusual. Tarsi with

numerous trichobothria. Posterior row of eyes recurved. Median claw with 2-3 teeth. They carry egg-sacs under cephalothorax. Young carried by mother.

These spiders usually live on water and can swim freely over waterbodies. Sometimes stay on floating leaves or other objects.

In Bangladesh, only 1 genus and 1 species of pisaurids are recorded and these are:

A. Genus : *Pisaura* Simon, 1885

Species- 1. *P. gitae* Tikader, 1970

Family - XV. SALTICIDAE Blackwall, 1841

(Jumping spiders)

Diagnosis: Body small to medium, stout. With short, strong legs. Eyes 8 in numbers, arranged in 3 rows : anterior row larger with anteromedians largest. Common in sunny areas. They cannot spin any web but can jump for preying on the foliage or ground. Jumping covers long areas many times than their body.

Salticids are common on plants, logs, fences and wall of houses. They are very colourful and attractive. Mostly tropical and sub-tropical in distribution and about 4000 species are described in the world fauna.

In Bangladesh, 21 genera and 72 species of salticids are recorded and these are:

- Genus**
- A. *Bianor* Peckham & Peckham, 1885
 - B. *Epeus* Peckham & Peckham, 1885
 - C. *Euophrys* C.L. Koch, 1834
 - D. *Harmochirus* Simon, 1885
 - E. *Hasarius* Simon, 1871
 - F. *Hyllus* C.L. Koch, 1848
 - G. *Marpissa* C.L. Koch, 1846
 - H. *Menemerus* Simon, 1868
 - I. *Myrmarachne* MacLeay, 1839
 - J. *Pancorius* Simon, 1902
 - K. *Phaeacius* Simon, 1900
 - L. *Phidippus* C.L. Koch, 1846
 - M. *Phintella* Strand, 1906
 - N. *Plexippus* C.L. Koch, 1846
 - O. *Portia* Karsch, 1878
 - P. *Rhene* Thorell, 1869
 - Q. *Salticus* Latreille, 1804
 - R. *Telamonia* Thorell, 1887
 - S. *Thiania* C.L. Koch, 1846

- T. *Zeuxippus* Thorell, 1891
 U. *Zygoballus* Peckham & Peckham, 1885

A. Genus: *Bianor* Peckham & Peckham, 1885

- Species- 1. *B. hotingchichi* Schenkel, 1963

B. Genus: *Epeus* Peckham & Peckham, 1885

- Species- 1. *E. alboguttatus* Thorell, 1887
 2. *E. glorius* Zabka, 1985
 3. *E. minutus* Biswas, 2007

C. Genus: *Euophrys* C.L. Koch, 1834

- Species- 1. *E. cutleri* Biswas & Raychaudhuri, 2018

D. Genus: *Harmochirus* Simon, 1885

- Species- 1. *H. brachiatus* Thorell, 1887
 2. *H. ahmedi* Biswas, 2016

E. Genus: *Hasarius* Simon, 1871

- Species- 1. *H. adansonii* Audouin, 1827
 2. *H. raychaudhuri* Biswas, 2017

F. Genus: *Hyllus* C. L. Koch, 1848

- Species- 1. *H. maskaranus* Barrion & Litsinger, 1995

G. Genus: *Marpissa* C. L. Koch, 1846

- Species- 1. *M. animeshi* Biswas, 2007
 2. *M. andamanensis* Tikader, 1977
 3. *M. bengalensis* Tikader, 1974
 4. *M. bijoni* Biswas, 2007
 5. *M. calcuttaensis* Tikader, 1974
 6. *M. decorata* Tikader, 1974
 7. *M. dhakuriaensis* Tikader, 1974
 8. *M. gajbei* Biswas, 2007
 9. *M. ludhianaensis* Tikader, 1974
 10. *M. majumderi* Biswas, 2007
 11. *M. minutus* Biswas, 2007
 12. *M. mondali* Tikader, 1974
 13. *M. proshynskii* Biswas & Begum, 1999
 14. *M. sannyali* Biswas, 2007

H. Genus: *Menemerus* Simon, 1868

- Species- 1. *M. bivittatus* Dufour, 1831
 2. *M. brachygnathus* Thorell, 1887

I. Genus: *Myrmarachne* MacLeay, 1839

- Species-
1. *M. binghami* Biswas & Raychaudhuri, 2017
 2. *M. chandali* Biswas, 2009
 3. *M. elongata* Szombathy, 1915
 4. *M. legon* Wanless, 1978
 5. *M. maratha* Tikader, 1973
 6. *M. orientalis* Tikader, 1973
 7. *M. ovaloabdominalis* Biswas, 2009
 8. *M. pictocephalis* Biswas, 2009
 9. *M. plataleoides* O.P. Cambridge, 1869
 10. *M. poonaensis* Tikader, 1973
 11. *M. radhamadhabi* Biswas, 2009
 12. *M. nigriabdominalis* Biswas & Raychaudhuri, 2018
 13. *M. wanlessi* Biswas & Raychaudhuri, 2018
 14. *M. gitanjaliae* Biswas & raychaudhuri, 2018

J. Genus: *Pancorius* Simon, 1902

- Species- 1. *P. magnus* Zabka, 1985

K. Genus: *Phaeacius* Simon, 1900

- Species-
1. *P. mainitensis* Barrion & Litsinger, 1995
 2. *P. malayensis* Wanless, 1981

L. Genus: *Phidippus* C. L. Koch, 1846

- Species-
1. *P. bengalensis* Tikader, 1977
 2. *P. lahirii* Biswas, 2009
 3. *P. majumderi* Biswas, 1999
 4. *P. pateli* Tikader, 1974

M. Genus: *Phintella* Strand, 1906

- Species-
1. *P. piatensis* Barrion & Litsinger, 1995
 2. *P. rampalensis* Biswas, 2009
 3. *P. vittata* C.L. Koch, 1846

N. Genus: *Plexippus* C.L. Koch, 1846

- Species-
1. *P. begumae* Biswas, 2009
 2. *P. calcuttaensis* Tikader, 1974
 3. *P. paykulli* Savignyi & Audouin, 1827
 4. *P. petersi* (Karsch, 1878)
 5. *P. wesolowskai* Biswas & Raychaudhuri, 1997
 6. *P. zabkai* Biswas, 2009

O. Genus: *Portia* Karsch, 1878

- Species- 1. *P. labiata* Thorell, 1882

P. Genus: *Rhene* Thorell, 1869

- Species- 1. *R. flavicomans* Simon, 1902
 2. *R. khulnaensis* Biswas, 2017
 3. *R. kustiaensis* Biswas, 2009

Q. Genus: *Salticus* Latreille, 1804

- Species- 1. *S. andamanensis* Tikader, 1977
 2. *S. cingulatus* Panzer, 1797
 3. *S. minutus* Biswas, 2009
 4. *S. ranjitus* Tikader, 1967

R. Genus: *Telamonia* Thorell, 1887

- Species- 1. *T. festiva* Thorell, 1887

S. Genus: *Thiania* C.L. Koch, 1846

- Species- 1. *T. bhamoensis* Thorell, 1887

T. Genus: *Zeuxippus* Thorell, 1891

- Species- 1. *Z. pallidus* Thorell, 1895

U. Genus: *Zygoballus* Peckham & Peckham, 1885

- Species- 1. *Z. bijoyi* Biswas & Raychaudhuri, 2018
 2. *Z. cephalotuberculata* Biswas, 2009
 3. *Z. decorata* Biswas, 2009
 4. *Z. narmadaensis* Tikader, 1975
 5. *Z. pashanensis* Tikader, 1975

Family - XVI. SCYTODIDAE Blackwall, 1864

(Spitting spiders)

Diagnosis: Body small to very small, light coloured spiders. Have 6 eyes arranged in 3 diads on the carapace. The AME are moderately larger in diameter compare to the lateral eyes. Chelicerae weak and basally fused, bears no boss and fang furrow bears a hard lamella. Promargin with a transparent lamella. The labium is fused to the sternum, maxillae covers apically. A colulus is present. Legs are very large and slender and without heavy spines.

Scytodids are commonly known as 'spitting spiders'. They stay on the garden and forests or hilly areas where they spin small irregular webs. They are distributed in the tropical and sub-tropical parts of the world and about 250 species under 5 genera are described (World Spider Catalog 2017).

In Bangladesh, family Scytodidae contains only one species under one genus and that is-

A. Genus: *Scytodes* Latreille, 1804

- Species- 1. *S. tikaderi* Biswas, 2017

Family - XVII. SPARASSIDAE Thorell, 1873

(Huntsman spiders)

Diagnosis: Body is medium to large, hairy. Soft and flattened. Lower margin of fang furrow of chelicerae armed with teeth. Eyes in 2 rows, large, marginal. Legs long, extended sidewise.

These are called 'giant crab-spiders'. They are mostly tropical, some are living warmest parts of the world. Commonly found in the houses, bathrooms, walls, kitchens etc. About 1500 species are described in the world.

The family Sparassidae composed of 3 genera and 7 species in the fauna of Bangladesh. These are -

- Genus**
- A. *Heteropoda* Latreille, 1804
 - B. *Micrommata* Latreille, 1804
 - C. *Olios* Walckenaer, 1837

A. Genus: *Heteropoda* Latreille, 1804

- Species-
- 1. *H. buxa* Saha, Biswas & Raychaudhuri, 1995
 - 2. *H. hampsoni* Pocock, 1901
 - 3. *H. venatoria* Linnaeus, 1758

B. Genus: *Micrommata* Latreille, 1804

- Species-1. *M. bagerhatensis* Biswas, 2006

C. Genus: *Olios* Walckenaer, 1837

- Species-
- 1. *O. durlaviae* Biswas & Raychaudhuri, 2005
 - 2. *O. gravelyi* Shethi & Tikader, 1988
 - 3. *O. hampsoni* Pocock, 1901

Family - XVIII. TETRAGNATHIDAE Menge, 1866

(Long-jawed spiders)

Diagnosis: Body is medium to large, long, cylindrical; abdomen very long, pointed. Chelicerae of male very long with fang longest and curved, each of cheliceral margins with many teeth. Legs very long and slender. Epigynum secondarily lost.

They can make typical geometric webs in the crop-fields and gardens nearly water bodies. World wide in distribution and more than 1000 species are described in the world (Biswas 2009).

In Bangladesh, family Tetragnathidae consists of 6 genera and 23 species and these are:

- Genus**
- A. *Dyschiriognatha* Simon, 1893
 - B. *Leucauge* White, 1841
 - C. *Opadometa* Archer, 1951
 - D. *Tetragnatha* Latreille, 1804
 - E. *Tylorida* Simon, 1894
 - F. *Herennia* Thorell, 1877

A. Genus: *Dyschiriognatha* Simon, 1893

- Species-1. *D. dentata* Zhu & Wen, 1978

B. Genus: *Leucauge* White, 1841

- Species-
- 1. *L. culta* O.P. Cambridge, 1869
 - 2. *L. decorata* Blackwall, 1864
 - 3. *L. dorsotuberculata* Tikader, 1982
 - 4. *L. pondae* Tikader, 1970
 - 5. *L. parangscipinia* Barrion & Litsinger, 1995

C. Genus: *Opadometa* Archer, 1951

- Species - 1. *O. fastigata* Simon, 1877

D. Genus: *Tetragnatha* Latreille, 1804

- Species-
- 1. *T. andamanensis* Tikader, 1977
 - 2. *T. boydi* Cambridge, 1898
 - 3. *T. ceylonica* Cambridge, 1869
 - 4. *T. chaudiodus* Thorell, 1890
 - 5. *T. fletcheri* Gravely, 1921
 - 6. *T. hasselti* Thorell, 1890
 - 7. *T. jaculator* Tullgren, 1910
 - 8. *T. javana* Thorell, 1890
 - 9. *T. khanjahani* Biswas & Raychaudhuri, 1996
 - 10. *T. mandibulata* Walckenaer, 1841
 - 11. *T. maxillosa* Thorell, 1895
 - 12. *T. nitens* Audouin, 1826
 - 13. *T. vermiformis* Emerton, 1884
 - 14. *T. virescens* Okuma, 1979

E. Genus: *Tylorida* Simon, 1894

- Species- 1. *T. ventralis* Thorell, 1877

F. Genus: *Herennia* Thorell, 1877

- Species- 1. *H. ornatissima* Doleschall, 1859

Family - XIX. THERIDIIDAE Sundevall, 1833

(Comb-footed Spiders)

Diagnosis: Body is very small to medium, oval or rounded, elongate etc. Chelicerae pointed on proximal end under carapace, with few teeth. Eyes 8 in number. Each fourth leg with comb and tarsi with 3 claws. Male palp with accessory arm absent or present.

They build irregular snares ; from threads they suspend themselves in an inverted position while waiting for preys. These spiders are distributed all over the world and about 300 species are described. Some are poisonous and others are parasitic on the webs of araneids.

The family Theridiidae, in Bangladesh, contains of 6 genera and 16 species and these are -

- Genus**
- A. *Achaeearanea* Strand, 1929
 - B. *Argyrodes* Simon, 1864
 - C. *Chryso* O.P. Cambridge, 1882
 - D. *Coleosoma* O.P. Cambridge, 1882
 - E. *Enoplognatha* Pavesi, 1880
 - F. *Theridion* Walckenaer, 1805

A. Genus: *Achaeearanea* Strand, 1929

- Species-
1. *A. durgae* Tikader, 1970
 2. *A. mundula* L. Koch, 1872

B. Genus: *Argyrodes* Simon, 1864

- Species-
1. *A. argentatus* O.P. Cambridge, 1880
 2. *A. bonadea* Karsch, 1881
 3. *A. flavescens* O.P. Cambridge, 1880
 4. *A. gazingensis* Tikader, 1970
 5. *A. minutus* Biswas, 2009

C. Genus: *Chryso* O.P. Cambridge, 1882

- Species-
1. *C. argyrodiformis* Yaginuma, 1952
 2. *C. tiboli* Barrion & Litsinger, 1995

D. Genus: *Coleosoma* O.P. Cambridge, 1882

- Species-
1. *C. blandum* O.P. Cambridge, 1882

E. Genus : *Enoplognatha* Pavesi, 1880

- Species-
1. *E. cariasoi* Barrion & Litsinger, 1995
 2. *E. tuybaana* Barrion & Litsinger, 1995

F. Genus: *Theridion* Walckenaer, 1805

- Species-
1. *T. ovatus* Biswas, 2009

Family - XX. THOMISIDAE Sundevall, 1833

(Crab spiders)

Diagnosis: Body small to medium, crab-like. Cephalothorax and abdomen usually short and broad. Eyes homogeneously coloured. Chelicerae fused, colulus present. Legs medium, with 2 tarsal claws. One pair of book-lungs and a single tracheal opening and cribellum absent.

Thomisids are not active hunters, they use camouflage techniques for catching preys. They stay long times on leaves or flowers until preys come and catch it.

These are colourful spiders and stay mostly on plant foliage and flower for the prey. These are world wide in distribution and more than 3000 species are described.

In Bangladesh, family Thomisidae consists of 14 genera and 28 species and these are as follows :

- Genus**
- A. *Amyciaea* Simon, 1885
 - B. *Bomis* Koch, 1873
 - C. *Camaricus* Thorell, 1887
 - D. *Diaea* Thorell, 1869
 - E. *Misumenooides* F.O.P. Cambridge, 1900
 - F. *Mossumia* Thorell, 1877
 - G. *Oxyptila* Simon, 1864
 - H. *Philodamia* Thorell, 1894
 - I. *Runcinia* Simon, 1875
 - J. *Thanatus* C.L. Koch, 1837
 - K. *Thomisus* Walckenaer, 1805
 - L. *Tibellus* Simon, 1875
 - M. *Tmarus* Simon, 1875
 - N. *Xysticus* C.L. Koch, 1835

A. Genus: *Amyciaea* Simon, 1885

Species- 1. *A. forticeps* Cambridge, 1873

B. Genus: *Bomis* Koch, 1873

Species- 1. *B. bengalensis* Tikader, 1962

C. Genus: *Camaricus* Thorell, 1887

Species- 1. *C. chayani* Biswas & Raychaudhuri, 2016

2. *C. formosus* Thorell, 1887

D. Genus: *Diaea* Thorell, 1869

Species- 1. *D. prasadi* Biswas, 2009

E. Genus: *Misumenoides* F.O.P. Cambridge, 1900

- Species- 1. *M. deccanes* Tikader, 1965
2. *M. shulli* Tikader, 1965

F. Genus: *Mossuria* Thorell, 1877

- Species -1. *M. laterotuberculata* Biswas, 2009

G. Genus: *Oxyptila* Simon, 1864

- Species- 1. *O. manii* Tikader, 1960
2. *O. neenae* Basu, 1964

H. Genus: *Philodamia* Thorell, 1894

- Species-1. *P. ovalis* Biswas, 2007

I. Genus: *Runcinia* Simon, 1875

- Species -1. *R. accuminata* Thorell, 1881
2. *R. albostriata* Boesenberg & Strand, 1906
3. *R. chauhani* Sen & Basu, 1972
4. *R. roonwali* Tikader, 1965

J. Genus: *Thanatus* C.L. Koch, 1837

- Species- 1. *T. betagaensis* Biswas, 2009

K. Genus: *Thomisus* Walckenaer, 1805

- Species- 1. *T. andamanensis* Tikader, 1980
2. *T. beautifularis* Basu, 1963
3. *T. cherapunjius* Tikader, 1966
4. *T. katrajghatus* Tikader, 1963
5. *T. labefactus* Karsch, 1881
6. *T. projectus* Tikader, 1960
7. *T. pugilis* Stoliczka, 1869

L. Genus: *Tibellus* Simon, 1875

- Species- 1. *T. shikerpurensis* Biswas & Raychaudhuri, 1995

M. Genus: *Tmarus* Simon, 1875

- Species- 1. *T. dostinikus* Barrion & Litsinger, 1995

N. Genus: *Xysticus* C.L. Koch, 1835

- Species- 1. *X. bengalensis* Tikader & Biswas, 1974
2. *X. minutus* Tikader, 1960
3. *X. shampae* Biswas, 2009

Family - XXI. ULOBORIDAE O.P. Cambridge, 1871

(Uloborids)

Diagnosis: Body is small to medium, light yellow or brown. Eyes homogeneous, in separate rows. Chelicerae with or without boss, fang with many teeth. Sternum oval or heart-shaped. Abdomen elongate or oval, dorsum covered with hairs and pubescence. Cribellum and calamistrum both present. Legs large, long and slender, femora with a row of trichobothria present. They have no poison gland.

They can make a typical webs in the garden. Distributed all over the world and about 400 species are described.

In Bangladesh, family Uloboridae contains of 3 genera and 5 species and these areL

- Genus** A. *Miagrammopes* F.O.P. Cambridge, 1869
 B. *Uloborus* Latreille, 1806
 C. *Zosis* Walckenaer, 1841

A. Genus: *Miagrammopes* F.O.P. Cambridge, 1869

Species- 1. *M. maigsicus* Barrion & Litsinger, 1995

B. Genus: *Uloborus* Latreille, 1806

Species- 1. *U. danolius* Tikader, 1969

2. *U. krishnae* Tikader, 1970

3. *U. chinmoyiae* Biswas & Raychaudhuri, 2013

C. Genus: *Zosis* Walckenaer, 1841

Species- 1. *Z. geniculatus* (Olivier, 1789)

DISCUSSION

The present paper is an updated checklist of the spider fauna of Bangladesh. It contains a complete distributional list of the described species of spiders which were previously collected and identified by different authors from different areas of the country. In this checklist, a total of 334 species of spiders belonging to 100 genera and 21 different families are included. Twenty one families are - Araneidae, Clubionidae, Corinidae, Gnaphosidae, Hersiliidae, Homalonychidae, Linyphiidae, Lycosidae, Nephilidae, Oonopidae, Oxyopidae, Philodromidae, Pholcidae, Pisauridae, Salticidae, Scytodidae, Sparassidae, Tetragnathidae, Theridiidae, Thomisidae and Uloboridae. Among the families, maximum number of species were recorded for the family Araneidae (87) following Salticidae (72), Lycosidae (34), Thomisidae (28), Tetragnathidae (23), Oxyopidae (22), Theridiidae (16), Clubionidae (13), Gnaphosidae (9), Sparassidae (7), Corinidae (5), Uloboridae (5), Nephilidae (4), Pholcidae (3), Hersiliidae (2),

Linyphidae (2), Philodromidae (1), Scytodidae (1), Pisauridae (1) and Homalonychidae (1) (Table 1).

Of all the genera under different families, genus *Neoscona* Simon (family : Araneidae) containing maximum number of species (21) following *Oxyopes* Latreille (20) (Family: Oxyopidae), genus *Pardosa* C.L.Koch (15) (family: Lycosidae), genera *Cyclosa* Menge (14) (family : Araneidae), *Marpissa* C.L.Koch (14) (family : Salticidae), *Myrmarachne* MacLeay (14) (family: Salticidae) and *Tetragnatha* Latreille (14) (family : Tetragnathidae), genus *Argiope* Audouin (10) (family : Araneidae) and so on. All these species show specialized distribution and each of them plays a great predatory role in insect pest management of garden and field-crops.

From the biological records, following spider families viz. Araneidae, Tetragnathidae, Nephilidae, Lycosidae, Pholcidae, Theridiidae and Uloboridae show specialized orb-weaving behaviour and make typical geometric webs of their own technique and stay on or near the webs for the preys (Biswas *et al.* 1995). The rest of the families of spiders are jumpers, nest builders, ground dwellers, runners, swimmers etc. and stay in different habitats. All these spiders are also predatory in behaviour and consume a good number of insect pests in the crop-fields and gardens and thus help in insect pest management as 'biological control agent.'

From the economic point of view, an immediate technique should be applied for the conservation of these important arthropods/arachnids.

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