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Kailash Chandra

Zoological Survey of India, M Block,
New Alipore, Kolkata-700053, West
Bengal, India
Email: kailash611@rediffmail.com

Sandeep Kushwaha

Zoological Survey of India, Central
Zone Regional Centre, Scheme No. 5,
Plot No. 168-169, Vijay Nagar,
Jabalpur-482 002 Madhya Pradesh
India.

B. Biswas

Zoological Survey of India, M Block,
New Alipore, Kolkata-700053, West
Bengal, India.

Paramita Mukherjee

Zoological Survey of India, M Block,
New Alipore, Kolkata-700053, West
Bengal, India.

Correspondence:**Sandeep Kushwaha²**

Zoological Survey of India, Central
Zone Regional Centre, Scheme No. 5,
Plot No. 168-169, Vijay Nagar,
Jabalpur-482 002 Madhya Pradesh
(India)

Email: sandeepkushwaha_17@yahoo.com

Assassin Bugs (Reduviidae: Hemiptera) from Madhya Pradesh, India

Kailash Chandra, Sandeep Kushwaha, B. Biswas, Paramita Mukherjee

ABSTRACT

The paper deals with the study of 53 species of assassin bugs belonging to 29 genera under the 7 subfamilies of Reduviidae from Madhya Pradesh, subfamily Harpactorinae was dominant with 14 species while subfamily Salyavatinae with only one species. Subfamily Peiratinae and Reduviinae following the Harpactorinae with 13 species in each. Of these 29 species are new additions to the fauna of state.

Keywords: Reduviidae, Hemiptera, Madhya Pradesh.

1. Introduction

The state of Madhya Pradesh was created in 1956. The state lies between 21⁰ to 25⁰ N and longitudes 74⁰ to 84⁰ E, covering about 14.5% of the total area of India. As per records, the total forest area of the state is 308,245 km². The state houses 9 National Parks and 25 Wildlife Sanctuaries. Reduviids occur throughout the world and are voracious predators. Hence they are referred to as "Assassin bugs". These bugs may not be useful as predators of specific pests being polyphagous, but they are valuable predator for controlling the populations of a variety of insect pests. They are generally found in tropical rain forests, semiarid zone and scrub jungle but most common in tropical rain forests. Conservation of assassin bugs could be achieved only if their biosystematics and ecology are understood thoroughly. This family is represented globally by 6878 species/subspecies under 981 genera belonging to 25 subfamilies [1]. Of these, 465 species under 144 genera belonging to 14 subfamilies are recorded from India [2]. Earlier work on Reduviidae of Central India was done by Distant [3] and later on the list of assassin bugs from tiger reserves in central India were published by Ramakrishna *et al.* [4] followed by the works of Chandra [5, 6], Chandra *et al.* [7, 8] and Chandra and Kushwaha [9, 10] from Madhya Pradesh. The present study revealed the identification of 53 species belonging to 29 genera covering 7 subfamilies of Reduviidae from Madhya Pradesh (Table 1) including 29 new records from the state.

2. Material and Methods

The specimens of Reduviid bugs were collected by hand picking, net trap and light tarp methods. The specimens were set, pinned and identified with the help of available literature in Zoological Survey of India. Morphology and photography of bugs were studied by Leica microscope M205-A (Plate No. 1 to 6).

3. Results**Order: Hemiptera****Family: Reduviidae****Subfamily Ectrichodiinae Amyot & Serville, 1843****3.1 Genus *Ectrychotes* Burmeister, 1835****3.1.1. *Ectrychotes dispar* Reuter, 1881**

1881. *Ectrychotes dispar* Reuter, Act. Soc. Sc. Fenn., 12:304.

1904. *Ectrychotes dispar*: Distant, Fauna Brit. India, Rhynchota, 2: 315.

Material examined: Jabalpur, Pachpedi, 1.vii.1964, (1ex.), 2.vii.1964, (2ex.), 6.vii.1964, (3exs.), 8.vii.1964, (2exs.), Coll. J. S. Bhatti; Sidhi, Mohania, 22.vii.1999, (1ex.), Coll. K. Chandra; Seoni, PTR, Karmajihri, 8.vi.2001(3 ex.), 9.vi.2001, (3 exs.), 20.vi.2001 (3exs.), Coll. K. Chandra; Raisen, SWLS, Jaitgarh, 21.ix.2011 (1ex.), Coll. S. Sambath & Party.

Distribution: India: Madhya Pradesh (Jabalpur, Raisen, Seoni, Sidhi), Andhra Pradesh, Maharashtra and West Bengal.

Plate 1



Sirthenea flavipes (Stal)



Catamiarus brevipennis (Serv.)



Ectomocoris simulans Distant



Ectomocoris cordiger Stal



Lestomerus sanctus (Fabr.)



Spilodermus quadrinotatus (Fabr.)

PLATE :: 2



Euagoras plagiatus (Burm.)



Rhynocoris squalus (Distant)



Rhynocoris fuscipes (Fabr.)



Rhynocoris marginatus (F.)



Sphedanolestes variabilis Dist.



Pygolampis foeda Stal

PLATE 3



Cleptocoris lepturoides (Wolff)



Lisarda annulosa Stal



Gerbelius ornatus Distant



Acanthaspis siva Distant



Acanthaspis quinquespinosa (Fabr.)



Acanthaspis flavipes Stal

Plate 4



Ectrychotes dispar Reuter



Polididus armatissimus Stal



Oncocephalus impudicus Reuter



Oncocephalus schioedtei Reuter



Tribelocephala indica (Walker)



Acanthaspis fulvipes (Dallas)

Plate 5



Acanthaspis sexguttata (Fabricius)



Acanthaspis trimaculata Reuter



Acanthaspis luteipes Walker



Scadra annulipes Reuter



Cleptocoris atromaculatus Stål



Emphyrocoris pelia Distant

Plate 6



Coranus siva Kirkaldy



Sastrapada baerensprungi (Stål)



Androclus pictus (Herrich-Schaeffer)



Sphedanolestes indicus Reuter



Rhynocoris costalis (Stål)

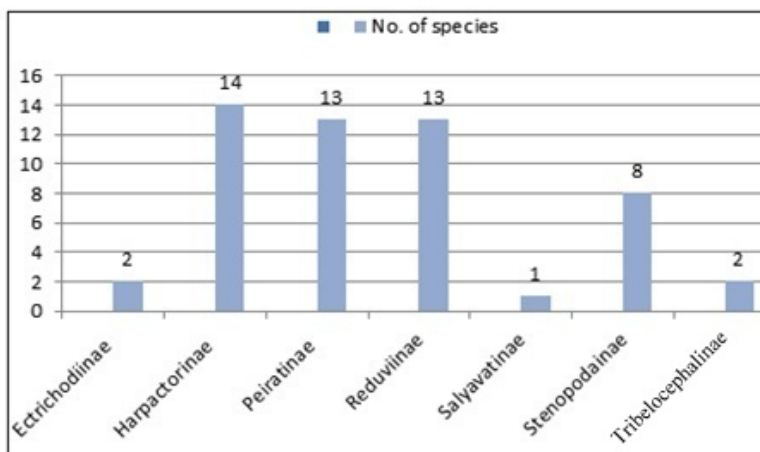


Table 1: Taxonomic diversity of Assassin bugs of Madhya Pradesh, India.

S. No.	Subfamily	Species	Genus
1.	Ectrichodiinae	02	02
2.	Harpactorinae	14	08
3.	Peiratiinae	13	07
4.	Reduviinae	13	06
5.	Salyavatinae	01	01
6.	Stenopodainae	08	04
7.	Tribelocephalinae	02	01
	Total	53	29

3.2. Genus *Scadra* Stål, 1859

3.2.1. *Scadra annulipes* Reuter, 1881

1881. *Scadra annulipes*, Reuter, Act. Soc. Sc. Fenn. 12:309

1904. *Scadra annulipes*: Distant, Fauna Brit. India, Rhynchota, 2: 310.

Material examined: Raisen, Bamhori, SWLS, 17.ix.2009 (1ex.), Coll. D. K. Harshey & Party; Hoshangabad, PBR, Sitadongari, 18. x. 2002 (1ex.), Coll. K. Chandra.

Distribution: India: Madhya Pradesh (Hoshangabad, Raisen), Andhra Pradesh, Meghalaya, Kerala and West Bengal. *Elsewhere*: Sri Lanka.

Subfamily Harpactorinae Reuter, 1887

3.3. Genus *Coranus* Curtis, 1833

3.3.1. *Coranus fuscipennis* Reuter, 1881*

1881. *Coranus fuscipennis* Reuter, Act. Soc. of Sc. Fenn., 12:275.

2006. *Coranus fuscipennis*: Ambrose, Zoos' Print Joun., 21(9):7.

Material examined: Seoni, PTR, 6.xi.2001, (1ex.), Coll. M. L. Koshta.

Distribution: India: Madhya Pradesh (Seoni), Andhra Pradesh, Maharashtra, Meghalaya, Tamil Nadu, Tripura. *Elsewhere*: China, Indonesia, Sumatra.

3.3.2. *Coranus siva* Kirkaldy, 1891*

1891 *Coranus siva* Kirkaldy, in Maldonado

2006. *Coranus siva*, Ambrose, Zoos' Print Joun., 21(9):7.

Material examined: Seoni, PTR, Karmajhiri, 10.ix.2001 (1ex.), Coll. Y. N. Gupta.

Distribution: India: Madhya Pradesh (Seoni), Assam, Chhattisgarh, Jharkhand, Meghalaya, Uttar Pradesh and West Bengal. *Elsewhere*: Myanmar, Nepal and Sri Lanka

3.4. Genus *Endochus* Stål, 1859

3.4.1. *Endochus inornatus* Stål, 1866*

1866. *Endochus inornatus* Stål, Ofv. Vet.- Ak. Forh.: 270.

2006. *Endochus inornatus*: Ambrose, Zoos' Print Joun., 21(9):8.

Material examined: Panna, PNP, 24. xi. 2000 (1ex.), Coll. R. K. Singh.

Distribution: India: Madhya Pradesh (Panna), North India, Tamil Nadu, Uttar Pradesh. *Elsewhere*: China, Malaysia

3.5. Genus *Euagoras* Burmeister, 1835

3.5.1. *Euagoras plagiatus* (Burmeister, 1834)*

1834. *Zelus plagiatus* Burmeister, Nov. Act. Ac. Nat. Cur., 16:303.

1904. *Euagoras plagiatus*: Distant, Fauna Brit. India, Rhynchota, 2:363.

Material examined: Chhindwara, Ganda de nala, 10.xi.2001, (1ex.), Coll. M. L. Khosta.

Distribution: India; Madhya Pradesh (Chhindwara), Andaman Islands, Assam, Kashmir, Kerala, Manipur, Maharashtra, Meghalaya, Mizoram, Tamil Nadu, Uttarakhand, and West Bengal. *Elsewhere*: China, Indonesia, Japan, Myanmar and Philippines.

3.6. Genus *Rhynocoris* Kolenati, 1857

3.6.1. *Reduvius costalis* (Stål, 1866)

1866. *Reduvius costalis* Stål, Ofv. Vet.- Ak. Forh.,:285.

2006. *Rhynocoris costalis*: Ambrose, Zoos' Print Joun., 21(9):11.

Material examined: Raisen, SWLS, Naya Kheda, 11.iv.2011 (1 ex.), coll. S. Sambath & Party; Chhindwara, PTR, Mahadev Ghat, 29.xi.2001 (1ex.), Coll. K. Chandra & Party; Katni, Deemar Khera, 15.i.2009, (1ex.), Coll. J. Thilak.

Distribution: India: Madhya Pradesh (Chhindwara, Katni, Raisen), Andhra Pradesh, Assam, Meghalaya, Sikkim and West Bengal. *Elsewhere*: Celebes, Malay Peninsula, Myanmar.

3.6.2. *Rhynocoris fuscipes* (Fabricius, 1787)

1787. *Reduvius fuscipes* Fabricius *Mant. Ins.*, Heteroptera: 312.

2006. *Rhynocoris fuscipes*: Ambrose, *Zoos'Print Joun.*, 21(9):11.

Material examined: Jabalpur, Napier town, 02.ix.1957 (2exs.), coll. P. S. Nathan.

Distribution: India: Madhya Pradesh (Jabalpur), Andhra Pradesh, Maharashtra, Meghalaya, Orissa and Tamil Nadu and West Bengal. Elsewhere: Sri Lanka.

3.6.3. *Rhynocoris marginatus* (Fabricius, 1794)

1794. *Reduvius marginatus* Fabricius, *Ent. Syst.*, 4:196.

2006. *Rhynocoris marginatus*: Ambrose, *Zoos'Print Joun.*, 21(9):11.

Material examined: Raisen, SWLS, Siyalwada, 27.ix.2011 (1ex.); Raisen, Naya Kheda, 11.iv.2011, (1ex.) Coll. S. Sambath & Party; Chhindwara, PTR, Bhat Pindari, 04.ix.2001(1ex), Coll. Y. N. Gupta; Panna, PNP, Mohan seha, 11.xi.2001(1ex.), Jhiriya, 14.xi.2000 (1ex.), Coll. R. K. Singh.

Distribution: India: Madhya Pradesh (Chhindwara, Panna, Raisen), Andhra Pradesh, Assam, Delhi, Meghalaya, North India, Sikkim, Tamil Nadu and West Bengal. *Elsewhere*: China, Sri Lanka.

3.6.4. *Rhynocoris squalus* (Distant, 1904)

1904. *Harpactor squalus* Distant, *Fauna Brit. India, Rhynchota*, 2:333.

2006. *Rhynocoris squalus*: Ambrose, *Zoos'Print Joun.*, 21(9):11.

Material examined: Damoh, VDLS, Giri Darshan, 07.xi.2011 (2exs.), coll. S. Sambath & Party; Chhindwara, PTR, Guanitura, 27.viii.2001 (1 ex.), coll. Y. N. Gupta.

Distribution: India: Madhya Pradesh (Chhindwara, Damoh) and Sikkim.

3.7. Genus *Sphedanolestes* Stål, 1866

3.7.1. *Sphedanolestes variabilis* Distant, 1904*

1904. *Sphedanolestes variabilis* Distant, *Fauna Brit. India, Rhynchota*, 2:342.

2006. *Sphedanolestes variabilis*: Ambrose, *Zoos'Print Joun.*, 21(9):13.

Material examined: Chhindwara, PTR, Totladoh, 16. viii. 2001 (1ex.), Coll. Y. N. Gupta. *Distribution*: India: Madhya Pradesh (Chhindwara) and Tamil Nadu.

3.7.2. *Sphedanolestes indicus* Reuter, 1881*

1902. *Sphedanolestes indicus* Reuter, *Act. Soc. Sc. Fenn.* 12:289.

2006. *Sphedanolestes indicus*: Ambrose, *Zoos'Print Joun.*, 21(9):13.

Material examined: Chhindwara, PTR, Totladoh. vill. 2001 (1ex.), Coll. Y. N. Gupta.

Distribution: India: Madhya Pradesh (Chhindwara), Meghalaya, Kerala, Sikkim and Tamil Nadu.

3.8. Genus *Sycanus* Amyot & Serville, 1843

3.8.1. *Sycanus pyrrhomelas* Walker, 1873*

1873. *Sycanus pyrrhomelas* Walker, *Cat. Het.*, 8:85.

1904. *Sycanus pyrrhomelas*: Distant, *Fauna Brit. India, Rhynchota*, 2:355.

Material examined: Raisen, SWLS, Bamhori RH, 12. xii. 2010 (1ex.), Coll. S. S. Talmale

Distribution: India: Madhya Pradesh (Raisen) and Tamil Nadu. Elsewhere: Myanmar.

3.8.2. *Sycanus collaris* (Fabricius, 1785)*

1875. *Reduvius collaris* Fabricius, *Spec. Ins.*, 2:380.

1904. *Sycanus collaris*: Distant, *Fauna Brit. India, Rhynchota*, 2:351.

Material examined: Umaria, BNP, FRH Tala, 15.viii.2005 (1ex.), Coll. K. Chandra.

Distribution: India: Madhya Pradesh (Umaria), Andhra Pradesh, Assam, Meghalaya, Uttarakhand, West Bengal. *Elsewhere*: China, Malaysia, Philippines, Sri Lanka, Thailand.

3.9. Genus *Lophocephala* Laporte, 1833

3.9.1. *Lophocephala guerini* Laporte, 1833

1833. *Lophocephala guerini* Laporte, *Ess. Hem.*, 12.

2006. *Lophocephala guerini*: Ambrose, *Zoos'Print Joun.*, 21(9):10.

Material examined: Jabalpur, ZSI Colony, 14. ix. 2008 (1ex.), Coll. R. Somkumar.

Distribution: India: Madhya Pradesh (Jabalpur), Andhra Pradesh, Delhi, Jammu and Kashmir, Kerala, Tamil Nadu and West Bengal. Elsewhere: Sri Lanka.

3.10. Genus *Polididus* Stål, 1858

3.10.1. *Polididus armatissimus* Stål., 1859

1859. *Polididus armatissimus* Stål, *Ofv. Vet.-Ak. Forh.*: 376.

1904. *Polididus armatissimus*: Distant, *Fauna Brit. India, Rhynchota*, 2:386.

Material examined: Seoni, PTR, Karmajhiri, 25.viii:2011(1ex.), Coll. M. L. Koshta; Senoi, PTR, Karmajhiri, 26.vii.2011(5exs.), Coll. M.L. Koshta; Senoi, PTR, Tikari Camp, 24.VII.01 (1ex.), M.L. Khosta; Shivpuri N.P.3km NE, 17.ix.1975 (2exs.), Coll. R.K. Singh; Chhindwara, PTR, Totladoh, 12.ix.2001 (5exs.), Coll. S.K. Mishra;

Distribution: India: Madhya Pradesh (Chhindwara, Seoni, Shivpuri), Andhra Pradesh, Maharashtra, Manipur, Mizoram, Sikkim, Tamil Nadu, Tripura and West Bengal.

Elsewhere: China, Japan, Myanmar, Philippines and Sri Lanka.

Subfamily Peiratinae Stål, 1859

3.11. Genus *Androclus* Stål, 1863

3.11.1. *Androclus pictus* (Herrich-Schaeffer, 1848)*

1848. *Pirates pictus* Herr.-Schiiff, *Wanz. Ins.*, 8:63.

1904. *Androclus pictus* Distant, *Fauna Brit. India, Rhynchota*, 2:290.

2006. *Androclus pictus*: Ambrose, *Zoos'Print Joun.*, 21(9):2401.

Material examined: Sidhi, Mohania, 22.vii.1999 (1ex.) Coll. K. Chandra; Shivpuri, MNP, RH, 5.vii.2001 (1ex), Coll. D. Nema and S. Ahirwar.

Distribution: India: Madhya Pradesh (Sidhi, Shivpuri), Gujarat, and Maharashtra.

Elsewhere: China.

3.12. Genus *Catamarius* Amyot & Serville, 1843

3.12.1. *Catamarius brevipennis* (Serville, 1831)

1831. *Pirates brevipennis* Serville, *Ann. Sc. Nat.*, 23:217.

2006. *Catamarius brevipennis*: Ambrose, *Zoos'Print Joun.*, 21(9):15.

Material examined: PBR, Hoshangabad, Sitadongari, 18. x. 2002, (1ex.), Coll. K. Chandra; Umaria, Shresh Sheriya, 26.i.2004 (1ex.), Coll. Y. N. Gupta.

Distribution: India: Madhya Pradesh (Hoshangabad, Umaria), Karnataka, Tamil Nadu, Uttarakhand.

3.13. Genus *Cleptocoris* Stål, 1866

3.13.1. *Cleptocoris atromaculatus* Stål, 1870*

1866. *Cleptocoris atromaculatus* Stål, Ofv. Vet.- Ak.Forh., :692.

1904. *Pirates atromaculatus*: Distant, Fauna Brit. India, Rhynchota, 2:301.

2006. *Cleptocoris atromaculatus*: Ambrose, Zoos'Print Joun., 21 (9):15.

Material examined: Narsimhapur, Bediaghat, 21.xii.1964 (1ex.), Coll. H. Khajuria & Party.

Distribution: India: Madhya Pradesh (Narsimhapur), Andhra Pradesh, Assam, Meghalaya and Nagaland Sikkim. *Elsewhere*: China, Hong Kong, Indonesia, Japan, Myanmar, Philippines Sri Lanka.

3.13.2 *Cleptocoris lepturoides* (Wolff, 1804)

1804. *Reduvius lepturoides* Wolff, *IC.*, 4:165.

2006. *Cleptocoris lepturoides*: Ambrose, Zoos'Print Joun., 21 (9):15.

Material examined: Hoshangabad, PBR, Pachmarhi, Bori sanctuary, 8.vi.1999 (1ex.), Coll. K. Chandra.

Distribution: India: Madhya Pradesh (Hoshangabad) and Maharashtra. *Elsewhere*: Sri Lanka, Myanmar, Indonesia.

3.14. Genus *Ectomocoris* Mayr, 1865

3.14.1. *Ectomocoris quadriguttatus* Fabricius, 1781

1781. *Ectomocoris quadriguttatus* Fabricius, Spec. Ins., 2:380.

1904. *Ectomocoris quadriguttatus*: Distant, Fauna Brit. India, Rhynchota, 2: 290.

Material examined: Senoi, PTR, Karmajhiri, 06.vi.2001 (1ex.), Coll. K. Chandra; Jabalpur, ZSI Residential Colony, 30.ix.2010 (1ex.), Coll. E. E. Jehamelhar.

Distribution: India: Madhya Pradesh (Jabalpur, Seoni), Maharashtra, Pondicherry, Tamil Nadu and West Bengal.

3.14.2. *Ectomocoris simulans* Distant, 1919*

1919. *Ectomocoris simulans* Distant, Ann Mag. Nat. Hist., 4(9):74.

2006. *Ectomocoris simulans*: Ambrose, Zoos'Print Joun., 21(9):16.

Material examined: Raisen, SWLS, 24. ix. 2011 (1ex.), Coll. S. Sambath & Party.

Distribution: India: Madhya Pradesh (Raisen), Assam, Meghalaya, Uttarakhand and West Bengal.

Elsewhere: Sri Lanka and Myanmar.

3.14.3. *Ectomocoris cordiger* Stal, 1866

1856. *Ectomocoris cordiger* Stal, *Ofv. Vet.-Ak. Forh.*, 256.

1995. *Ectomocoris cordiger*: Biswas *et al.*: Fauna of West Bengal: State Fauna Series 3(5):400.

Material examined: Raisen, SWLS, 24.ix.11 (1ex.), Coll. S. Sambath & Party; Damoh, SWLS, Girih Darshan, 24. ix. 11 (1ex.) Coll. S. Sambath & Party; Senoi, PTR, Karmajhiri, 06.vi.2001 (1ex.). Coll. K. Chandra.

Distribution: India: Madhya Pradesh (Damoh, Raisen, Seoni), Assam, Kerala, Maharashtra, Meghalaya, Tamil Nadu, Uttarakhand, and West Bengal. *Elsewhere*: Guinea, Iran, Iraq, Sri Lanka, UAE.

3.14.4. *Ectomocoris elegans* (Fabricius, 1883)*

1883. *Reduvius elegans* Fabricius, *Syst. Rhyng.*, :270.

2006. *Ectomocoris elegans* Ambrose, *Zoos'Print Joun.*, 21(9):16.

Material examined: Jabalpur, ZSI Residential Colony, 30. ix. 2010, (1ex), Coll. E. E. Jehamelhar.

Distribution: India: Madhya Pradesh (Jabalpur), Meghalaya and Tamil Nadu. *Elsewhere*: Guinea, Indonesia, Malaysia, Myanmar and Thailand.

3.14.5. *Ectomocoris tibialis* Distant, 1904*

1904. *Ectomocoris tibialis* Distant, Fauna Brit. India, Rhynchota, 2: 291.

2006. *Ectomocoris tibialis* Ambrose, *Zoos'Print Joun.*, 21(9):16.

Material examined: Seoni, PTR, Khammet Camp., 29.vii.2001 (1ex.), Coll. M. L. Koshta and party; Chhindwara, 26.viii.2000 (1ex.), Coll. Y. N. Gupta.

Distribution: India: Madhya Pradesh (Chhindwara, Seoni), Andhra Pradesh, Assam, Jammu and Kashmir, Kerala Maharashtra, Punjab, Sikkim and Tamil Nadu.

3.14.6. *Ectomocoris cordatus* (Wolff, 1804)*

1804. *Reduvius cordatus* Wolffin, *Syst. Rhyng.*, :270.

1904. *Ectomocoris cordatus*: Distant, Fauna Brit. India, *Rhynchota*, 2:290.

Material examined: Seoni, PTR, Karmajhiri, 3. VII. 2001 (1ex), Coll. K. Chandra.

Distribution: India: Madhya Pradesh (Seoni), Punjab, Jammu and Kashmir and Kerala. *Elsewhere*: Sri Lanka

3.15. Genus *Sirthenea* Spinola 1840

3.15.1. *Sirthenea flavipes* (Stal, 1955)*

1855. *Rassahus flavipes* Stal, *Ofv. Vet.- Ak. Forh.*, :187.

1904. *Sirthenea flavipes*: Distant, Fauna Brit. India, *Rhynchota*, 2:303.

2006. *Sirthenea flavipes*: Ambrose, *Zoos'Print Joun.*, 21(9):18.

Material examined: Jabalpur, ZSI Colony, 25. ix. 2010 (1ex), Coll. R. Somkuwar.

Distribution: India: Madhya Pradesh (Jabalpur), Andhra Pradesh, Assam, Nagaland, Tamil Nadu. *Elsewhere*: China, Hong Kong, Indonesia, Japan, Philippines and Sri Lanka.

3.16. Genus *Spilodermus* Stål, 1868

3.16.1. *Spilodermus quadrinotatus* (Fabricius, 1798)*

1798. *Reduvius quadrinotatus* Fabricius, *Ent. Syst. Suppl.*, :544.

1902. *Pirates quadrinotatus*: Distant, Fauna Brit. India, Rhynchota, 2:300.

Material examined: Jabalpur, ZSI Residential Colony, 30. ix. 2010 (1ex.), Coll. E. E. Jehamelar.

Distribution: India: Madhya Pradesh (Jabalpur) and Tamil Nadu. *Elsewhere*: Bangladesh, Sri Lanka.

3.17. Genus *Lestomerus* Amyot and Serville, 1843

3.17.1. *Lestomerus sanctus* (Fabricius, 1787)*

1787. *Reduvius sanctus* Fabricius, *Mant.*, 2:310.

1904. *Pirates sanctus*: Distant, Fauna Brit. India, Rhynchota, 2:298.

Material examined: Damoh, VDLS, Singorgarh, 24. vi. 2010 (1ex), Coll. J. Thilak.

Distribution: India: Madhya Pradesh (Damoh), Punjab, Tamil Nadu and West Bengal, *Elsewhere*: Myanmar, Sri Lanka.

Subfamily Reduviinae (Acanthaspidinae Distant, 1902)

3.18. Genus *Acanthaspis* Amyot & Serville, 1843

3.18.1. *Acanthaspis fulvipes* (Dallas, 1850)

1850. *Platymeris fulvipes* Dallas, *Tr. Ent. Soc.*:f.3

1902. *Acanthaspis fulvipes* Distant, Fauna Brit. India, Rhynchota, 2:259.

2006. *Acanthaspis fulvipes* Ambrose, Zoos' Print Joun., 21(9):19.
Material examined: Seoni, PTR, Karmajhiri, 20. vii. 2001 (1ex.), Coll. R. K. Singh
Distribution: India: Madhya Pradesh (Seoni), Assam, Sikkim and West Bengal. Elsewhere: Bhutan.

3.18.2. *Acanthaspis quinquespinosa* (Fabricius, 1781)

1781. *Reduvius quinquespinosa* Distant, Fauna Brit. India, *Rhynchota*, 2:257
2007. *Acanthaspis quinquespinosa*: Biswas and Bal, Fauna of Andhra Pradesh, State fauna series, 5(3):342
Material examined: Sidhi, Pochkhari, 23.vii.1999 (1ex), Coll. K. Chandra; Seoni, PTR, Karmajhiri, 22.vii.01 (1ex.), Coll. R. K. Singh.
Distribution: India: Madhya Pradesh (Seoni, Sidhi), Andhra Pradesh, Assam, Bihar, Delhi, Maharashtra, Meghalaya and West Bengal. Elsewhere: China, Myanmar and Sri Lanka.

3.18.3. *Acanthaspis trimaculata* Reuter, 1887

1887. *Acanthaspis trimaculata*: Reuter, *Rev. d'Ent.*, 6:157.
1902. *Acanthaspis trimaculata*: Distant, Fauna Brit. India, *Rhynchota*, 2:268
2007. *Acanthaspis trimaculata*: Biswas and Bal, Fauna of Andhra Pradesh, State fauna series, 5(3):341
Material examined: Seoni, PTR, Tikari Camp, 24.vii.2001, (1ex.), Coll. K. Chandra; Hoshangabad, PBR, PWD Rest House, 7.ix.2000 (1ex.), Coll. Y.N. Gupta.
Distribution: India: Madhya Pradesh (Hoshangabad, Seoni), Andhra Pradesh and West Bengal.

3.18.4. *Acanthaspis siva* Distant, 1902

1902. *Acanthaspis siva* Distant, Fauna Brit. India, *Rhynchota*, 2:265.
2006. *Acanthaspis siva* Ambrose, Zoos'Print Joun., 21(9):20.
Material examined: Raisen, SWLS, Belaon, 19. ix. 2011, (1ex.), Coll. S. Sambath; Seoni, PTR, Alikatta, 29. vii. 2012 (1ex.), M. L. Koshta.
Distribution: India: Madhya Pradesh (Raisen, Seoni) and Tamil Nadu.

3.18.5. *Acanthaspis luteipes* Walker, 1873

1873. *Acanthaspis luteipes* Distant, Fauna Brit. India, *Rhynchota*, 2: 260
2007. *Acanthaspis luteipes*: Biswas and Bal, Fauna of Andhra Pradesh, State fauna series, 5(3):342
Material examined: Jabalpur, Bheraghat, 26. i. 2012 (1ex), Coll. Sandeep Kushwaha.
Distribution: India: Madhya Pradesh, Andhra Pradesh (Jabalpur), Karnataka, Nicobar Island, Sikkim, Tripura, and West Bengal.

3.18.6. *Acanthaspis sexguttata* (Fabricius, 1775)

1775. *Reduvius sexguttata* Distant, Fauna Brit. India, *Rhynchota*, 2:270.
2003. *Acanthaspis sexguttata* Biswas and Bal, Fauna of Sikkim, State Fauna Series, 9(2):529.
2006. *Acanthaspis sexguttata* Ambrose, Zoos'Print Joun., 21(9):20.
Material examined: Shivpuri, MNP, Rest House, 07.xii.2001 (1ex), Coll. D. Nema and S. Ahirwar.
Distribution: India: Madhya Pradesh (Shivpuri), Karnataka, Sikkim, Tamil Nadu and West Bengal.

3.18.7. *Acanthaspis flavipes* Stal, 1855

1855. *Acanthaspis flavipes* Stal, *Ofv. Vet.- Ak. Forh.*, : 187.
1904. *Acanthaspis flavipes*: Distant, Fauna Brit. India, *Rhynchota*, 2: 262.
2006. *Acanthaspis flavipes*: Ambrose, Zoos' Print Joun., 21(9):19.
Material examined: Seoni, PTR, Karmajhiri, 21.vi.2001, (1ex.), 9.vi.2001, (1ex.), 10.vi.2001, (1ex.), Coll. K. Chandra; Hoshangabad, Pachmarhi, Madai, 13.vi.1999, (1ex.); Churna, 10.vi.1999 (1ex.), Coll. K. Chandra.
Distribution: India: Madhya Pradesh (Hoshangabad, Seoni), Maharashtra, Punjab, Tamil Nadu and West Bengal.

3.18.8. *Acanthaspis rugulosa* Stal, 1863

1863. *Acanthaspis rugulosa* Stal, *Ann. Soc. Ent. Fr.*, :49.
1904. *Acanthaspis rugulosa*: Distant, Fauna Brit. India, *Rhynchota*, 2:264.
2006. *Acanthaspis rugulosa*: Ambrose, Zoos' Print Joun., 21(9):20.
Material examined: Seoni, Pench National Park, area around Ranidah Forest Rest House, 1.iii.1976 (1ex), Dr. H. Khajuria and party.
Distribution: India: Madhya Pradesh, Maharashtra Tamil Nadu and West Bengal.

3.19. Genus *Empyrocoris* Miller, 1953

3.19.1. *Empyrocoris pelia* (Distant, 1904)*

1904. *Edocla pelia* Distant, Fauna Brit. India, *Rhynchota*, 2:275.
2006. *Empyrocoris pelia*: Ambrose, Zoos'Print Joun., 21(9):21.
Material examined: Hoshangabad, PBR, Banglapura, 18.iv.2001, (1ex.), Coll. Y. N. Gupta; PBR, Bori R.H., 12.vi.2003, (1ex.); Seoni, PTR, Bodanala, Alikatta, 5.vi.2001 (1ex), Coll. K. Chandra; 23.vii.2001(1ex), Coll. M.L. Koshta,
Distribution: India: Madhya Pradesh (Hoshangabad, Seoni) and Tripura. Elsewhere: Myanmar

3.20. Genus *Gerbilius* Distant, 1903

3.20.1. *Gerbilius ornatus* Distant, 1803*

1903. *Gerbilius ornatus* Distant, *Ann. Soc. Ent. Belg.* :59.
1904. *Gerbilius ornatus*: Distant, Fauna Brit. India, *Rhynchota*, 2: 254.
Material examined: Seoni, PTR, Simaria, PTR, Barelipara, 7. viii. 2001 (1ex), 13.vii.2001, (1ex), Coll. R. K. Singh; Umaria BNP, FRH Tala, 14.viii.2005, (1ex), Coll. K. Chandra.
Distribution: India: Madhya Pradesh (Seoni, Umaria,) and Maharashtra. Elsewhere: Sri Lanka.

3.21. Genus *Pasira* Stål, 1859

3.21.1. *Pasira perpusilla* (Walker, 1873)*

1873. *Reduvius perpusilla* Walker, *Cat. Het.*, 7:196.
1904. *Pasira perpusilla*: Distant, Fauna Brit. India, *Rhynchota*, 2:255.
Material examined: Raisen, SWLS, Bamhori R.H., 31.iii.2011, (1ex), S. Sambath and party.
Distribution: India: Madhya Pradesh (Raisen), West Bengal and Tamil Nadu. Elsewhere: Cambodia, China, Japan, Thailand and Myanmar.

3.22. Genus *Pasiropsis* Reuter, 1881

3.22.1. *Pasiropsis nigerrima* Bergroth, 1896*

1896. *Pasiropsis nigerrima* Bergroth, Bull. Soc. Ent. Fr.: 9.

1904. *Pasiropsis nigerrima*: Distant, Fauna Brit. India, Rhynchota, 2:257.

Material examined: Seoni, PTR, Boda Nala, Karmajhiri, 20. vi. 2001 (1ex), 6. vi. 2001(1ex), Coll. K. Chandra.

Distribution: India: Madhya Pradesh (Seoni) and Maharashtra.

3.23. Genus *Psophis* Stål, 1863

3.23.1. *Psophis erythraea* Stål, 1863*

1863. *Psophis erythraea* Stål, Ann. Soc. Ent. Fr., 4:53.

1904. *Psophis erythraea*: Distant, Fauna Brit. India, Rhynchota, 2:243.

Material examined: Jabalpur, Pachpedi, 24. i. 1964 (1ex), Coll. J. S. Bhatti

Distribution: India: Madhya Pradesh (Jabalpur) and Meghalaya.

Subfamily Salyavatinae Amyot and Serville, 1843

3.24. Genus *Lisarda* Stål, 1859

3.24.1. *Lisarda annulosa* Stal, 1874*

1874. *Lisarda annulosa* Stal, Ofv. Vet.- Ak. Forh.,: 187.

2006. *Lisarda annulosa*: Ambrose, Zoos' Print Journ., 21(9):23.

Material examined: Seoni, PTR, Karmajhiri, 21. vii. 2001(1ex.), Coll. R. K. Singh.

Distribution: India: Madhya Pradesh (Seoni), Meghalaya, Mizoram, and Tamil Nadu.

Elsewhere: Bangladesh, China, Myanmar, Sri Lanka.

Subfamily Stenopodainae Amyot and Serville, 1843

3.25. Genus *Oncocephalus* Klug, 1830

3.25.1. *Oncocephalus annulipes* Stal, 1855

1855. *Oncocephalus annulipes* Stal, Ofv. vet. Ak. Forh. ,: 44.

1904. *Oncocephalus annulipes*: Distant, Fauna Brit. India, Rhynchota, 2:231.

Material examined: Jabalpur, Pachpedi, 24. i. 1964 (1ex.), Coll. J. S. Bhatti

Distribution: India; Madhya Pradesh (Jabalpur), Jammu and Kashmir, Maharashtra, Manipur and Tamil Nadu.

Elsewhere: Sri Lanka and Myanmar.

3.25.2. *Oncocephalus schioedtei* Reuter, 1883

1883. *Oncocephalus schioedtei* Reut., Act. Soc. Sc. Fenn., 12:702.

1904. *Oncocephalus schioedtei* Distant, Fauna Brit. India, Rhynchota, 2:232.

2006. *Oncocephalus schioedtei* Ambrose, Zoos' Print Journ., 21(9):25.

Material examined: Raisen, SWLS, Bamhori R H, 3.iii.2011, (1ex.), Coll. S. Sambath & Party; Chhindwara, PTR, Totladoh, 25. ix. 2001 (1ex.), Coll. S. K. Mishra.

Distribution: India: Madhya Pradesh (Chhindwara, Raisen), Tamil Nadu and West Bengal. Elsewhere: Myanmar.

3.25.3. *Oncocephalus impudicus* Reuter*, 1883

1883. *Oncocephalus impudicus* Reuter, Act. Soc. Sc. Fenn., 12:715.

1904. *Oncocephalus impudicus*: Distant, Brit. India, Rhynchota, 2:229.

2006. *Oncocephalus impudicus* Reut., Ambrose, Zoos' Print Journ., 21(9):25.

Material examined: Seoni, PTR, Karmajhiri, 22. vi. 2001, (1ex.),

Coll. K. Chandra.

Distribution: India: Madhya Pradesh (Seoni), Manipur, Uttarakhand and West Bengal. Elsewhere: China, Indonesia, Myanmar, Philippines and Sri Lanka.

3.25.4. *Oncocephalus fuscinothum* Reuter, 1883*

1883. *Oncocephalus fuscinothum* Reuter, Act. Soc.Sc. Fenn., 12:731.

2006. *Oncocephalu fuscinothum*: Ambrose, Zoos' Print Journ., 21(9):25.

Material examined: Seoni, PTR, Karmajhiri; 10.ix.2001 (1ex), Coll. Y.N. Gupta; 6.vii.2001(1ex), 12.vii.2001, (1ex) 4.vii.2001, (1ex), Coll. R. K. Singh; Chhindwara PTR, Totladoh, 1.ix.2001, (1ex), Coll. Y.N. Gupta; Jabalpur, Padariya village, 8.viii.2002, (1ex), Coll. M. Limje.

Distribution: India: Madhya Pradesh (Chhindwara, Jabalpur, Seoni). Elsewhere: West Pakistan.

3.26. Genus *Pygolampis* Germar, 1817

3.26.1. *Pygolampis unicolor* Walker, 1873*

1873. *Pygolampis unicolor* Walker, Cat. Het., 8:36.

1904. *Pygolampis unicolor*: Distant, Fauna Brit. India, Rhynchota, 2:223.

Material examined: Seoni, PTR, Karmajhiri, 16.VII.2001, (1ex), Coll. R. K. Singh.

Distribution: India: Madhya Pradesh (Seoni), Sikkim and West Bengal.

3.26.2. *Pygolampis foeda* Stål, 1859*

1859. *Pygolampis foeda* Stål., Ofv. Vet. Ak. Forh., :379.

1904. *Pygolampis foeda* Distant, Fauna Brit. India, Rhynchota, 2:223.

Material examined: Seoni, PTR, Karmajhiri, 5. vii. 2001(1ex.), Coll. K. Chandra; Chhindwara, PTR, Totladoh, 16.viii.2001 (1ex.), Coll. Y. N. Gupta.

Distribution: India: Madhya Pradesh (Chhindwara, Seoni), Tamil Nadu. Elsewhere: Australia, China, Fiji, Malaysia, Myanmar, Philippines, Sri Lanka.

3.27. Genus *Sastrapada* Amyot and Serville, 1843

3.27.1. *Sastrapada baerensprungi* (Stål, 1859)*

1859. *Sastrapada baerensprungi* Stål, Ofv. Vet. Ak. Forh. ,:381.

1904. *Sastrapada baerensprungi*: Distant, Fauna Brit. India, Rhynchota, 2:224.

Material examined: Seoni, PTR, Karmajhiri, 5. vii. 2001 (1ex), Coll. K. Chandra.

Distribution: India: Madhya Pradesh (Seoni), Sikkim and Tamil Nadu. Elsewhere: Algeria, Australia, Bourbon, Ethiopia, Greece, Israel, Italy, Madagascar, Mauritius, Peradeniya, Sri Lanka, South Africa, and Timor.

3.28. Genus *Thodelmus* Stål, 1859

3.28.1. *Thodelmus falleni* Stål, 1859*

1859. *Thodelmus falleni* Stål, Ofv. Vet. Ak. Forh., :378

1904. *Thodelmus falleni* Distant: Fauna Brit. India, Rhynchota, 2: 236.

Material examined: Seoni, PTR Karamajhiri, 1.VII.2001 (1ex), Coll. R. K. Singh; Chhindwara, PTR, Totladoh, 22.ix.2001, (1ex), Coll. S. K. Mishra.

Distribution: India: Madhya Pradesh (Chhindwara, Seoni), Andhra Pradesh, Assam, Maharashtra, Tamil Nadu, and West Bengal. Elsewhere: China, Ethiopia, Myanmar, Sri Lanka, West Pakistan.

Subfamily Tribelocephalini Villiers, 1943

3.29. Genus *Tribelocephala* Stål, 1853

3.29.1. *Tribelocephala indica* (Walker, 1873)

1873. *Opisthoplatys indica* Walker, Cat. Het., 8:20.

1904. *Tribelocephala indica* Distant, Fauna Brit. India, Rhynchota, 2:220.

Material examined: Raisen, SWLS, FRH Baddi, 04.ix.2009 (1ex.), Coll. D. K. Harshey & Party.

Distribution: India: Madhya Pradesh (Raisen), Andhra Pradesh, Mizoram and West Bengal.

Elsewhere: Sri Lanka.

3.29.2. *Tribelocephala comparanda* (Bergroth, 1910)

1910. *Tribelocephala orientalis* Distant, Fauna Brit. India, Rhynchota, 5:182.

2006. *Tribelocephala comparanda*: Ambrose, Zoos' Print Journ., 21(9):27.

Material examined: Hoshangabad, PBR Bori RH, 12.vi.2003 (1ex), Coll. K. Chandra

Distribution: India: Madhya Pradesh (Hoshangabad), Assam and West Bengal.

4. Abbreviation used: PTR- Pench Tiger Reserve; PNP- Panna National Park; MNP-Madhav National Park; PBR-Pachmarhi Biosphere Reserve; SWLS- Singhori Wildlife Sanctuary; VDWLS-Veerangana Durgavati Wildlife Sanctuary; VVNP-Van-Vihar National Park; BNP – Bandhavgarh National Park; FRH-Forest Rest house; RH- Rest House; ZSI-Zoological Survey of India; * - New record to state.

5. Summary

This paper deals with 53 species of assassin bugs belonging to 29 genera from Madhya Pradesh, of which 29 species constitute new records to the state. Relevant literature references, distributions of each species in different districts of Madhya Pradesh, other states as well as from abroad have been incorporated in the present paper.

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