

The Terrestrial Hemiptera (Insecta) of the Amrabad Tiger Reserve, Telangana, India

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Received:- 12 October 2025/ Revised:- 18 October 2025/ Accepted:- 23 October 2025/ Published: 31-10-2025

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Abstract— The Amrabad Tiger Reserve (ATR) in Telangana, India, represents a significant biodiversity hotspot within the Eastern Ghats. However, a comprehensive account of its insect fauna, particularly the order Hemiptera, has been lacking. This study presents the first systematic documentation of terrestrial hemipterans from ATR, based on faunistic surveys conducted from 2018 to 2020. A total of 58 species belonging to 48 genera and 18 families were recorded, all representing first-time accounts from the reserve. The findings include species from both the Auchenorrhyncha and Heteroptera suborders. For each species, details on its distribution within India and globally are provided. This research establishes a crucial baseline for the hemipteran fauna of ATR, underscoring the reserve's ecological significance and providing essential data for future conservation and biogeographical studies.

Keywords— Auchenorrhyncha, Biodiversity, Eastern Ghats, Faunal Survey, Heteroptera, First Record, Amrabad Tiger Reserve.

I. INTRODUCTION

Hemiptera is fifth largest group, covering 8% of total proportions of global fauna of insect world. They are phytophagous, predators, hematophagous, omnivorous and also economically important beneficial as well as harmful and used in biological control, terrestrial, aquatic, even marine. Order Hemiptera include 4 suborders viz. Sternorrhyncha, Auchenorrhyncha, Colleorrhyncha and Heteroptera and comprises of about 1,02,183 species worldwide, of which about 6,479 species under 92 families have been reported from India (Distant, 1902, 1904, 1908, 1910, 1916, 1918; Chandra, 2012, 2013, Metcalf, 1960). Suborder Auchenorrhyncha includes short-horned bugs, having antennae usually small and inconspicuous; when long, they appear slender and filamentous or two segmented (Chandra *et al.*, 2012). Member of the suborder heteroptera can be recognised by having distinct head, angular region sclerotized and base of rostrum not touching anterior coxae. Wings are folded flat over the abdomen, forewing divided into a coriaceous anterior portion and a membranous posterior portion. Prabhakar (2013) studied distribution of species of the superfamily Coreoidea (Hemiptera) from different biogeographical areas including dry deciduous forest in India and reported 151 species under 59 genera. Pruthi (1936) studied on Indian Jassidae (Homoptera) and erected some new genera and species, with first records of some known species from India. About 42,347 species of Heteroptera are known all over the world (Henry, 2009, Mitra *et al.*, 2016, Distant, 1902, 1904, 1908, Lis, 1999, Schuh, and Slater, 1995). Chandra *et al.* (2020) provided an account of Heteropteran bugs collected by light trap in and around Dum Dum, Kolkata; Biswas and Mitra (2010) provided a checklist of Indian Assassin Bugs; Mukhopadhyay (1988) studied Lygeidae from West Bengal and Sen (1994) documented hemipteran fauna of West Bengal.

This Tiger Reserve (ATR) is one of the largest tiger reserves in India that extends about 2611.4 Sq Km over Nagarkurnool and Nalgonda districts of Telangana Amrabad Tiger Reserve a well-known and well-preserved nature reserve in Nallamala Hills, part of the Eastern Ghats chain. This is the second-largest Tiger Reserve in terms of core area but the sixth-largest tiger reserve in terms of total area among 51 Tiger Reserves in India. The reserve was notified as a sanctuary in the year 1983 and after the bifurcation of Telugu States in 2014, it was declared as Amrabad Tiger Reserve. It lies in the three forest divisions of Amrabad, Achampet in Nagarkurnool district, and Nagarjunsagar division in Nalgonda district. Major reservoirs like the

Srishailam Dam and Nagarjunsagar Dam are fed by the river Krishna and its several perennial streams that originate in the Tiger Reserve. No consolidated information is available on fauna of hemipteran from ATR. Present study is based on 58 species under 48 genera belonging to 18 families of terrestrial hemipteran from the Amrabad Tiger Reserve, Telangana. All the species are recorded for the first time from the Tiger Reserve.

II. MATERIALS AND METHODS

Bugs were collected during six faunistic surveys from 2018 to 2020 by the scientific teams of Zoological Survey of India in the Amrabad Tiger Reserve, Telangana. Hemipteran specimens were collected by using the light trap, insect net-sweep and hand picking methods and preserved in 70% alcohol. Images of specimens (<5mm) were taken by using Leica M205-A stereo zoom microscope and specimens (>5 mm) by Sony DSC-W55 Camera. Collected specimens were identified by comparing voucher specimens available in the National Zoological Collection and by the literature of Ananthasubramanian (1996), Distant (1902, 1904, 1908 1910,1916), Rider *et al.* (2002), Schuh and Slater (1995). Specimens were deposited to National Zoological Collections, Zoological Survey of India, Kolkata.

III. FAUNAL DIVERSITY

3.1 Systematic list:

Phylum Arthropoda

Class Insecta

Order Hemiptera

Suborder Auchenorrhyncha

Infraorder Cicadomorpha

Superfamily Membracoidea

Family I. Cicadellidae

Subfamily Cicadellinae

Genus 1. *Cofana* Melichar, 1926

1. *Cofana spectra* (Distant, 1908)

Subfamily Deltocephalinae

Genus 2. *Exitianus* Ball, 1929

2. *Exitianus indicus* (Distant, 1908)

Genus 3. *Nephotettix* Matsumura, 1902

3. *Nephotettix virescens* (Distant, 1908)

4. *Nephotettix cincticeps* (Uhler, 1896)

Genus 4. *Bothrogonia* Melichar, 1926

5. *Bothrogonia ferruginea* (Fabricius, 1787)

Genus 5. *Neodartus* Melichar, 1903

6. *Neodartus scutellatus* Distant, 1908

Tribe Hecalini

Genus 6. *Thomsoniella* Signoret, 1879

7. *Thomsoniella albomaculata* Distant, 1908

Superfamily Cercopoidea

Family II. Aphrophoridae

Subfamily Aphrophorinae

Tribe Aphrophorini

Genus 7. *Poophilus* Stål, 1866

8. *Poophilus costalis* (Walker, 1851)

Genus 8. *Clovia* Stål, 1869

9. *Clovia puncta* (Walker, 1851)
10. *Clovia bipunctata* (Kirby, 1891)
11. *Clovia conifer* (Walker, 1851)

Superfamily Membracoidea

Family III. Membracidae

Subfamily Centrotinae

- Genus 9.** *Leptocentrus* Stål, 1866
12. *Leptocentrus leucaspis* (Walker, 1858)
 13. *Leptocentrus taurus* (Fabricius, 1775)
- Genus 10.** *Tricentrus* Stål, 1866
14. *Tricentrus subangulatus* Distant, 1908
 15. *Tricentrus congestus* (Walker, 1858)

Family IV. Lophopidae Stål, 1866

Subfamily Lophopinae

- Genus 11.** *Pyrilla* Stål, 1859
16. *Pyrilla perpusilla* (Walker, 1851)

Suborder Heteroptera

Infraorder Cimicomorpha

Superfamily Reduvidae

Family V. Reduviidae

Subfamily Harpactorinae

- Genus 12.** *Polididus* Stål, 1858
17. *Polididus armatissimus* Stål, 1859
- Genus 13.** *Sycanus* Amyot & Serville, 1843
18. *Sycanus collaris* (Fabricius, 1781)

Family VI. Nabidae

- Genus 14.** *Nabis* Latreille, 1802
19. *Nabis capsiformis* Germar, 1837

Superfamily Miroidea

Family VII. Miridae

Subfamily Mirinae

- Genus 15.** *Charagochilus* Fieber, 1858
20. *Charagochilus longicornis* Reuter, 1884
- Genus 16.** *Proboscidoris* Reuter, 1882
21. *Proboscidoris capitatus* Distant, 1904
- Genus 17.** *Eurybrochis* Kirkaldy, 1902
22. *Eurybrochis politus* (Distant, 1909)

Infraorder Pentatomomorpha

Superfamily Pentatomoidea

Family VIII. Pentatomidae

Subfamily Pentatominae**Tribe Carpocorini****Genus 18.** *Aeliomorpha* Stål, 1858**23.** *Aeliomorpha lineaticollis* (Westwood, 1837)**Tribe Eysarcorini****Genus 19.** *Eysarcoris* Hahn, 1834**24.** *Eysarcoris montivagus* (Distant, 1902)**25.** *Eysarcoris aenescens* (Walker, 1867)**Genus 20.** *Carbula* Stål, 1864**26.** *Carbula scutellata* Distant, 1887**Genus 21.** *Harmolaus* Distant, 1902**27.** *Harmolaus typicus* Distant, 1902**Tribe Halyini****Genus 22.** *Halys* Fabricius, 1803**28.** *Halys serrigera* Westwood, 1837**Genus 23.** *Erthesina* Spinola, 1837**29.** *Erthesina fullo* (Thunberg, 1783)**Tribe Nezarini****Genus 24.** *Acrosternum* Fieber, 1860**30.** *Acrosternum graminea* (Fabricius, 1787)**Genus 25.** *Nezara* Amyot & Serville, 1843**31.** *Nezara viridula* (Linnaeus, 1758)**Superfamily Coreoidea****Family IX. Coreidae****Subfamily Coreinae****Tribe Gonocerini****Genus 26.** *Cletus* Stål, 1860**32.** *Cletus bipunctatus* (Westwood, 1842)**33.** *Cletus punctiger* (Dallas, 1852)**34.** *Cletus punctulatus* (Westwood, 1842)**Genus 27.** *Cletomorpha* Mayr, 1866**35.** *Cletomorpha hastata* (Fabricius, 1787)**Subfamily Hydarinae****Genus 28.** *Hydarella* Bergroth, 1925**36.** *Hydarella orientalis* (Distant, 1902)**Family X. Alydidae****Subfamily Microlytrinae****Genus 29.** *Leptocorisa* Latreille, 1829**37.** *Leptocorisa acuta* (Thunberg, 1783)**Genus 30.** *Riptortus* Stål, 1860**38.** *Riptortus linearis* (Fabricius, 1775)**Family XI. Rhopalidae****Subfamily Rhopalinae****Genus 31.** *Liorhyssus* Stål, 1870**39.** *Liorhyssus rubicundus* (Signoret, 1859)**40.** *Liorhyssus hyalinus* (Fabricius, 1794)**Subfamily Serinethinae**

Genus 32. *Leptocoris* Hahn, 1833

41. *Leptocoris augur* (Fabricius, 1781)

Superfamily Lygaeoidea

Family XII. Rhyparochromidae

Subfamily Rhyparochrominae

Tribe Rhyparochromini

Genus 33. *Elasmolomus* Stål, 1872

42. *Elasmolomus sordidus* (Fabricius, 1787)

Genus 34. *Metochus* Scott, 1874

43. *Metochus uniguttatus* (Thunberg, 1822)

Genus 35. *Dieuches* Dohrn, 1860

44. *Dieuches insignis* (Distant, 1904)

Tribe Myodochini

Genus 36. *Pseudopachybrachius* Malipatil, 1978

45. *Pseudopachybrachius guttus* (Dallas, 1852)

Genus 37. *Horridipamera* Malipatil, 1978

46. *Horridipamera nietneri* (Dohrn, 1860)

Genus 38. *Gyndes* Stål, 1862

47. *Gyndes pallicornis* (Dallas, 1852)

Tribe Lethaeini

Genus 39. *Neolethaeus* Distant, 1909

48. *Neolethaeus typicus* Distant, 1909

Family XIII. Lygaeidae

Subfamily Lygaeinae

Genus 40. *Spilostethus* Stål, 1868

49. *Spilostethus pandurus* (Scopoli, 1763)

50. *Spilostethus hospes* (Fabricius, 1794)

Genus 41. *Graptostethus* Stål, 1868

51. *Graptostethus servus* (Fabricius, 1787)

Subfamily Orsillinae

Genus 42. *Nysius* Dallas, 1852

52. *Nysius lacustrinus* Distant, 1909

Family XIV. Geocoridae

Subfamily Geocorinae

Genus 43. *Geocoris* Fallén, 1814

53. *Geocoris ochropterus* (Fieber, 1844)

Family XV. Oxycarenidae

Genus 44. *Oxycarenus* Fieber, 1837

54. *Oxycarenus laetus* Kirby, 1891

Family XVI. Blissidae

Genus 45. *Dimorphopterus* Stål, 1872

55. *Dimorphopterus gibbus* (Fabricius, 1794)

Superfamily Pyrrhocoroidea

Family XVII. Largidae

Subfamily Physopeltinae**Genus 46.** *Physopelta* Amyot & Serville, 1843**56.** *Physopelta schlanbuschii* (Fabricius, 1787)**Family XVIII. Pyrrhocoridae****Subfamily Pyrrhocorinae****Genus 47.** *Dysdercus* Boisduval, 1835**57.** *Dysdercus koenigii* (Fabricius, 1775)**Genus 48.** *Euscopus* Stål, 1870**58.** *Euscopus indecorus* (Walker, 1872)**3.2 Comparative analysis:**

TABLE 1
SYSTEMATIC ACCOUNTS AND DISTRIBUTION OF THE RECORDED HEMIPTERAN SPECIES FROM AMRABAD
TIGER RESERVE OF TELANGANA.

Sl. No.	Name of the Species	Material Examined	Distribution in ATR Divisions	
			Amrabad	Achampet
	Suborder Auchenorrhyncha			
	Infraorder Cicadomorpha			
	Superfamily Membracoidea			
	Family I: Cicadellidae			
1	<i>Cofana spectra</i> (Distant, 1908)	1 ex, Rangapur, 18.ix.2019, Deepa J. & Party	+	-
2	<i>Exitianus indicus</i> (Distant, 1908)	1 ex, Uma Maheshwaram, 21.ix.2019, Deepa J. & Party	+	-
3	<i>Nephotettix virescens</i> (Distant, 1908)	1 ex, Rangapur, 18.ix.2019, Deepa J. & Party	+	-
4	<i>Nephotettix cincticeps</i> (Uhler, 1896)	1 ex, Rangapur, 18.ix.2019, Deepa J. & Party	+	-
5	<i>Bothrogonia ferruginea</i> (Fabricius, 1787)	1 ex, Vatavarlappally, 10.ii.2020, Deepa J. & Party	+	-
6	<i>Neodartus scutellatus</i> Distant, 1908	1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
7	<i>Thomsoniella albomaculata</i> Distant, 1908	1 ex, Rangapoor (Near Achampet), 29.xii.2018, Deepa J. & Party	-	+
	Superfamily Cercopoidea			
	Family II: Aphrophoridae			
8	<i>Poophilus costalis</i> (Walker, 1851)	1 ex, B.K. Thirumalapur, 19.ix.2019, S.S. Jadhav & Party	+	-
9	<i>Clovia puncta</i> (Walker, 1851)	2 exs, Octopus View Point, Domelpenta, 27.xii.2018, Deepa J. & Party	+	-
10	<i>Clovia bipunctata</i> (Kirby, 1891)	1 ex, Rangapoor (Near Achampet), 29.xii.2018, Deepa J. & Party	-	+
11	<i>Clovia conifer</i> (Walker, 1851)	1 ex, Vatavarlappally, 10.ii.2020, Deepa J. & Party	+	-
	Superfamily Membracoidea			
	Family III: Membracidae			
12	<i>Leptocentrus leucaspis</i> (Walker, 1858)	1 ex, Vatavarlappally, 10.ii.2020; 1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-

13	<i>Leptocentrus taurus</i> (Fabricius, 1775)	1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
14	<i>Tricentrus subangulatus</i> Distant, 1908	1 ex, Rangapur, 18.ix.2019, Deepa J. & Party	+	-
15	<i>Tricentrus congestus</i> (Walker, 1858)	1 ex, Vatavarlapally, 10.ii.2020, Deepa J. & Party	+	-
	Family IV: Lophopidae			
16	<i>Pyrilla perpusilla</i> (Walker, 1851)	1 ex, Vatavarlapally, 10.ii.2020; 1 ex, Near Loddimallavar Temple, 12.viii.2021, Deepa J. & Party	+	-
	Suborder Heteroptera			
	Infraorder Cimicomorpha			
	Superfamily Reduvidae			
	Family V: Reduviidae			
17	<i>Polididus armatissimus</i> Stål, 1859	1 ex, Octopus View Point, Domelpenta, 27.xii.2018, Deepa J. & Party	+	-
18	<i>Sycanus collaris</i> (Fabricius, 1781)	1 ex, Pichakuntlacheruvu, 24.xii.2018, Deepa J. & Party	+	-
	Family VI: Nabidae			
19	<i>Nabis capsiformis</i> Germar, 1837	3 exs, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
	Superfamily Miroidea			
	Family VII: Miridae			
20	<i>Charagochilus longicornis</i> Reuter, 1884	2 exs, Boreddybovi (Near Vattavaralapally), 28.xii.2018, Deepa J. & Party	+	-
21	<i>Proboscidocoris capitatus</i> Distant, 1904	2 exs, Octopus View Point, Domelpenta, 27.xii.2018, Deepa J. & Party	+	-
22	<i>Eurybrochis politus</i> (Distant, 1909)	1 ex, Uma Maheshwaram, 21.ix.2019, Deepa J. & Party	+	-
	Infraorder Pentatomomorpha			
	Superfamily Pentatomoidea			
	Family VIII: Pentatomidae			
23	<i>Aeliomorpha lineaticollis</i> (Westwood, 1837)	2 exs, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
24	<i>Eysarcoris montivagus</i> (Distant, 1902)	1 ex, Vatavarlapally, 10.ii.2020, Deepa J. & Party	+	-
25	<i>Eysarcoris aenescens</i> (Walker, 1867)	1 ex, Vatavarlapally, 10.ii.2020, Deepa J. & Party	+	-
26	<i>Carbula scutellata</i> Distant, 1887	1 ex, Rangapur (Near Achampet), 29.xii.2018, Deepa J. & Party	-	+
27	<i>Harmolaus typicus</i> Distant, 1902	2 exs, Octopus View Point, Domelpenta, 27.xii.2018, Deepa J. & Party	+	-
28	<i>Halys serrigera</i> Westwood, 1837	1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
29	<i>Erthesina fullo</i> (Thunberg, 1783)	2 exs, Octopus View Point, Domelpenta, 27.xii.2018, Deepa J. & Party	+	-
30	<i>Acrosternum graminea</i> (Fabricius, 1787)	2 exs, Boreddybovi (Near Vattavaralapally), 28.xii.2018, Deepa J. & Party	+	-
31	<i>Nezara viridula</i> (Linnaeus, 1758)	2 exs, Boreddybovi (Near Vattavaralapally), 28.xii.2018, Deepa J. & Party	+	-
	Superfamily Coreoidea			
	Family IX: Coreidae			

32	<i>Cletus bipunctatus</i> (Westwood, 1842)	1 ex, Pichakuntla Cheruvu, 24.xii.2018; 1 ex, Vatavarlapally, 10.ii.2020, Deepa J. & Party	+	-
33	<i>Cletus punctiger</i> (Dallas, 1852)	1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
34	<i>Cletus punctulatus</i> (Westwood, 1842)	1 ex, Rangapoor (Near Achampet), 29.xii.2018, Deepa J. & Party	-	+
35	<i>Cletomorpha hastata</i> (Fabricius, 1787)	1 ex, B.K. Thirumalapur, 19.ix.2019, S.S. Jadhav & Party	+	-
36	<i>Hydarella orientalis</i> (Distant, 1902)	2 exs, Lingamaiah Grassland Kunta, 13.ii.2020, Deepa J. & Party	+	-
	Family X: Alydidae			
37	<i>Leptocorisa acuta</i> (Thunberg, 1783)	4 exs, Yellur, 20.ix.2019, Deepa J. & Party	+	-
38	<i>Riptortus linearis</i> (Fabricius, 1775)	1 ex, Umamaheshwaram, 15.ii.2020, Deepa J. & Party	+	-
	Family XI: Rhopalidae			
39	<i>Liorhyssus rubicundus</i> (Signoret, 1859)	1 ex, Pichakuntla Cheruvu, 24.xii.2018; 1 ex, Octopus View Point, 27.xii.2018, Deepa J. & Party	+	-
40	<i>Liorhyssus hyalinus</i> (Fabricius, 1794)	1 ex, Pichakuntla Cheruvu, 24.xii.2018; 1 ex, Octopus View Point, 27.xii.2018; 1 ex, Uma Maheshwaram, 21.ix.2019, Deepa J. & Party	+	-
41	<i>Leptocoris augur</i> (Fabricius, 1781)	1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
	Superfamily Lygaeoidea			
	Family XII: Rhyparochromidae			
42	<i>Elasmolomus sordidus</i> (Fabricius, 1787)	1 ex, Uma Maheshwaram, 16.ix.2019, S.S. Jadhav & Party	+	-
43	<i>Metochus uniguttatus</i> (Thunberg, 1822)	1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
44	<i>Dieuches insignis</i> (Distant, 1904)	1 ex, Vatavarlapally, 10.ii.2020, Deepa J. & Party	+	-
45	<i>Pseudopachybrachius guttus</i> (Dallas, 1852)	1 ex, Vatavarlapally, 10.ii.2020, Deepa J. & Party	+	-
46	<i>Horridipamera nietneri</i> (Dohrn, 1860)	1 ex, Octopus View Point, Domelpenta, 27.xii.2018, Deepa J. & Party	+	-
47	<i>Gyndes pallicornis</i> (Dallas, 1852)	1 ex, Boreddybovi (Near Vattavarlapally), 28.xii.2018, Deepa J. & Party	+	-
48	<i>Neolethaeus typicus</i> Distant, 1909	1 ex, Uma Maheshwaram, 16.ix.2019, S.S. Jadhav & Party	+	-
	Family XIII: Lygaeidae			
49	<i>Spilostethus pandurus</i> (Scopoli, 1763)	1 ex, Uma Maheshwaram, 16.ix.2019, S.S. Jadhav & Party	+	-
50	<i>Spilostethus hospes</i> (Fabricius, 1794)	1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
51	<i>Graptostethus servus</i> (Fabricius, 1787)	1 ex, Pichakuntla Cheruvu, 24.xii.2018; 1 ex, Bhairapur, Mannanur, 18.iii.2019, S.S. Jadhav & Party	+	-
52	<i>Nysius lacustrinus</i> Distant, 1909	1 ex, Octopus View Point, Domelpenta, 27.xii.2018, Deepa J. & Party	+	-
	Family XIV: Geocoridae			
53	<i>Geocoris ochropterus</i> Fieber, 1844	1 ex, Pichakuntla Cheruvu, 24.xii.2018, Deepa J. & Party	+	-
	Family XV: Oxycarenidae			

54	<i>Oxycarenus laetus</i> Kirby, 1891	1 ex, Uma Maheshwaram Temple, 21.ix.2019, Deepa J. & Party	+	-
	Family XVI: Blissidae			
55	<i>Dimorphopterus gibbus</i> (Fabricius, 1794)	2 exs, Pichakuntlacheruvu, 24.xii.2018, Deepa J. & Party	+	-
	Superfamily Pyrrhocoroidea			
	Family XVII: Largidae			
56	<i>Physopelta schlanbuschii</i> (Fabricius, 1787)	2 exs, Near Loddimallavar Temple, 12.viii.2021, Deepa J. & Party	+	-
	Family XVIII: Pyrrhocoridae			
57	<i>Dysdercus koenigii</i> (Fabricius, 1775)	1 ex, Vatavarlappally, 10.ii.2020, Deepa J. & Party	+	-
58	<i>Euscopus indecorus</i> (Walker, 1872)	1 ex, Octopus View Point, Domelpenta, 27.xii.2018, Deepa J. & Party	+	-
	TOTAL		54	4

+ present; - absent;

IV. DISCUSSIONS

As compared to Sternorrhyncha (soft bodied bugs) and Auchenorrhyncha, Heteropteran bugs show adaptation to survive in warmer places with dry condition. Leathery forewings of as in most of the Heteropteran bugs. Among them members of the family of Reduviidae are most successful in arid and dry climate, as they learned to hide themselves under the stone and other similar objects to avoid desiccation during day time, and comes out when the temperature is suitable for predation. Present study is based on the mopping survey to Amrabad Tiger Reserve, Telangana, by the different survey parties during 2018-2020. This paper deals with 58 species under 48 genera belonging to 18 families of terrestrial bugs from the Amrabad Tiger Reserve, Telangana, with maximum number of species from Division of Amrabad. Family Pentatomidae, Rhyparochromidae and Cicadellidae were shown maximum diversity with 9 species, 7 species and 7 species respectively.

TABLE 2
SHOWING SPECIES DISTRIBUTION IN DIFFERENT FAMILIES RECORDED FROM ATR

Sl.No.	Superfamily	Family	No. of species
1	Membracoidea	Cicadeliidae	7
2		Aphrophoridae	4
3		Membracidae	4
4		Lophopidae	1
5	Reduvidae	Reduviidae	2
6		Nabidae	1
7	Mirioidea	Miridae	3
8	Pentatomoidea	Pentatomidae	9
9	Coreoidea	Coreidae	5
10		Alydidae	2
11		Rhopalidae	3
12	Lygaeoidea	Rhapharochromidae	7
13		Lygaeidae	4
14		Geocoridae	1
15		Oxycarinidae	1
16		Blissidae	1
17	Pyrrhocoroidea	Largidae	1
18		Pyrrhocoridae	2

ACKNOWLEDGEMENTS

Authors express their sincere gratitude to the Director, Zoological Survey of India for providing all sorts of necessary facilities. Thanks are also due to Dr. Gurupada Mondal, Scientists E, Officer-in-charge, Entomology Division-B for his encouragements and guidance. Authors are thankful to staff members of Hemiptera Section and Library Section for their helpful co-operation in preparation of manuscript.

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